



2000

Dordt College 2000-2001 Catalog

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2000-2001 Catalog



D O R D T C O L L E G E

This catalog is published for the faculty and students of Dordt College. The college reserves the right to make changes in any specifications contained herein and to apply such revisions to registered and accepted students.

Academic Calendar

<u>2000-01</u>	<u>2001-02</u>	<u>Day</u>	<u>Activity</u>
Aug 26-29	Aug 25-28	Sat-Tues	Freshman orientation
Aug 29	Aug 28	Tuesday	Transfer/returning orientation
Aug 30	Aug 29	Wednesday	Orientation/Registration
Aug 31	Aug 30	Thursday	Classes begin-8:00 AM (Pd. 42 - 9:25-10:15)
Aug 31	Aug 30	Thursday	Convocation-10:30 AM
Oct 5,6	Oct 4,5	Thurs, Fri	Reading Days-Heartland Teacher's Conf., no classes
Oct 20	Oct 19	Friday	End of first set of half-courses
Oct 23	Oct 22	Monday	Beginning of second set of half-courses
Nov 3-17	Nov 2-16		Preregistration for spring semester
Nov 22	Nov 21	Wednesday	Thanksgiving recess-12:00 noon
Nov 28	Nov 27	Tuesday	Classes resume- 8:00 AM
Dec 15	Dec 14	Friday	Review day
Dec 16	Dec 15	Saturday	Testing-AM & PM
Dec 18	Dec 17	Monday	Testing- PM
Dec 19,20	Dec 18,19	Tues, Wed	Testing-AM & PM
Jan 15	Jan 14	Monday	New and transfer/returning student orientation
Jan 16	Jan 15	Tuesday	Spring semester registration - 8:30 AM to 4:00 PM
Jan 16	Jan 15	Tuesday	Spring semester begins - 8:00 AM
Mar 5	Mar 4	Monday	End of first set of half-courses
Mar 6	Mar 5	Tuesday	Beginning of second set of half-courses
Mar 15	Mar 14	Thursday	Spring vacation - 12:05 PM [Pds. 41, 42, 45 (45 meets 10:50-12:05, no chapel)]
Mar 27	Mar 26	Tuesday	Classes resume-8:00 AM
Apr 3	Apr 2	Tuesday	Assessment day
Apr 6-20	Apr 5-19		Preregistration for fall semester
May 7	May 6	Monday	Review day-AM
May 7	May 6	Monday	Testing-PM
May 8-10	May 7-9	Tues-Thurs	Testing-AM & PM
May 11	May 10	Friday	Commencement-10:00 AM
May 21	May 20	Monday	Beginning, first half of agriculture summer session
June 22	June 21	Friday	End, first half of agriculture summer session
July 2	July 1	Monday	Beginning, second half of agriculture summer session
July 9	July 8	Monday	Graduate school summer session begins
July 27	July 26	Friday	Graduate school summer session ends
August 3	August 2	Friday	End of second half of agriculture summer session

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Dordt College - An Overview

Principles and Purposes

Dordt College owes its existence to a community whose faith commitment demands obedience to biblical principles in all of life. This religious commitment, historically known as the Reformed faith, has always been the basis of education at Dordt College.

The Dordt College community confesses that the Scriptures are the Word of God. As God's infallibly and authoritatively inspired revelation, the Bible reveals the way of salvation in Jesus Christ, requires a life of obedience to the Lord, and provides the key to understanding, interpreting, and finding purpose in life.

In various documents over its half century of existence Dordt has articulated its mission as an institution in the Reformed theological tradition. From the early statements of Dordt's founders to the comprehensive "The Educational Task of Dordt College" the college's current statement of purpose, (www.dordt.edu/onlpub/educ_task.shtml), those documents have consistently sounded the same theme. That theme was described most concisely in a mission statement written in 1994 to guide the work of the institutional planning committee:

The mission of Dordt College is to develop and implement an understanding of the entire creation in the liberating light of the Scripture. We desire to be an institution of Reformed, Christian learning for the benefit of both students and the broader community by providing serviceable insight to prepare students for competent, obedient service in all aspects of contemporary life.

A Kingdom Perspective Scripture and creation reveal to us a sovereign God. Nothing exists without him; all things are under his control and find their goal and purpose in his glory. The creation is God's kingdom.

The Bible also tells us that God created humankind in his image. People are covenantally bound to their creator by his law, which calls for loving obedience.

After Adam's fall into sin, humankind, though called to develop and care for God's world, began to treat it as an object of exploitation. Rather than serving the King, people abandoned themselves and the rest of creation to division and strife, misery and death.

But God came to us with his word of grace. Through the death and resurrection of Jesus Christ, God has reclaimed what had been deformed and distorted by sin. Even though the effects of the fall continue, Christ has rescued the creation from the curse of sin and reigns as King over all. He summons those he has redeemed to work for the expression of his kingdom everywhere.

Serviceable Insight Our mandate to be busy in Christ's kingdom requires that we study, examine, and understand his world. Christian educational institutions must work to gain and transmit insights into the created order.

The Christian's understanding of God's handiwork is distorted by centuries of secularization. Dordt College is faced with the challenge of developing genuine Christian insight—an understanding of the creation illumined by the liberating light of the Scriptures.

Christians in a technological and secular civilization need the ability to distinguish sharply, to think critically, and to judge wisely. Dordt College must provide the kind of insight that enables Christians to carry out their tasks effectively in a complicated world.

So, such insight is not merely theoretical. While Christian insight reflects an understanding of the structure and workings of God's created order, it includes other dimensions as well: the practical ability to carry out one's task in loving obedience and service, and the desire to function effectively as a kingdom citizen.

A Christian Curriculum Central to the implementation of the educational task of Dordt College is the curriculum, the basic means for transmitting serviceable insight.

Those fields of investigation that focus on the structure of the created order form the backbone of education at Dordt College. A core curriculum of various academic disciplines, such as language, natural science, and social science, make up the foundation of every student's education at Dordt College.

Students at Dordt are also required to study history, philosophy, and contemporary problems in order to gain insight into how mankind has responded to God's call to service within his creation. Through this requirement, students are challenged to discern the spirits of the age and to work for genuine reformation in culture and society.

Dordt seeks to provide insight into the nature and demands of the various vocations and professions. So majors and pre-professional programs form another essential part of the curriculum.

And, throughout the curriculum, students are helped to develop the analytic, communicative, artistic, and physical skills that are essential for effective Christian service.

Education for the Whole Person The non-curricular aspects of the college also play a vital role in the implementation of the educational task of Dordt College. Dordt, therefore, seeks to provide a wide range of extracurricular opportunities that develop and enhance serviceable insight.

Dordt College cannot count itself truly successful if its graduates possess knowledge and skill, yet lack the desire to carry out their tasks in service and loving obedience. The college works to foster this attitude by promoting social and devotional activities. Such activities are not considered mere additions to the academic task; Dordt College attempts to integrate them into a total pattern of curricular and extracurricular activity, all of which provide the student with serviceable insight.

The History

Dordt College had its beginning in 1937 with the circulation among midwestern Christian Reformed Churches of proposals and recommendations regarding the establishment of a Christian

college. World War II put an end to these discussions; however, after the war, the movement gained new impetus due to the critical shortage of qualified teachers for Christian schools in the area.

The college was organized in 1953 as the Midwest Christian Junior College. Under this name, instruction began in September 1955 with 35 students and five faculty members. In 1956 the name of the college was changed to Dordt College.

In 1961 the decision was made to expand to a four-year college. In September 1963 the junior class was added, and in 1965 the first class of students received the B.A. degree.

Dordt College grew rapidly in the '60s and '70s. By 1965 enrollment had topped 500 and continued growing steadily to an enrollment of 1218 by 1978. In the same period the campus grew from one to more than a dozen buildings. Today Dordt enrolls around 1400 students and occupies a well-equipped, 50-acre campus.

Dordt also has expanded its offerings over the years. Founded primarily to train teachers, Dordt was graduating students in a number of the liberal arts by the late 1960s. In 1969, the first courses in business administration were offered, marking a move toward combining a "liberal" education with "practical" instruction. Others that followed this precedent were agriculture, engineering, and social work. In 1993 Dordt College added a master of education degree to its associate's and bachelor's degree offerings. The current curriculum includes more than 40 programs, taught by more than 70 faculty members.

Accreditation

Dordt College is accredited by the North Central Association of Colleges and Secondary Schools as a four-year, bachelor-degree-granting institution. Dordt's NCA accreditation dates from 1971, with the most recent renewal in 1991. The college also gained NCA approval in 1994 to offer a graduate program leading to the master of education degree.

The Iowa Department of Education has approved Dordt's program of teacher education. Graduates of the teacher education program are recommended for the first level of licensure granted by the state of Iowa. Approval has also been granted to offer a master of education degree.

North Central Association of Colleges and Schools
Commission on Institutions of Higher Education
30 North LaSalle Street, Suite 2400 Ph. (312) 263-0456
Chicago, IL 60602-2504 (800) 621-7440
Fax (312) 263-7460
www.ncacihe.org

State of Iowa
Board of Educational Examiners
Licensure Ph. (515) 281-3245
Grimes State Office Building
Des Moines, IA 50319-0146

The Dordt College social work program has been accredited since 1986 by the Council on Social Work Education.

Council on Social Work Education
1725 Duke Street, Suite 500
Alexandria, VA 22314

Ph. (703) 683-8080
Fax (703) 683-8099

The Dordt College engineering major was accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology in 1991. The engineering science major has not been examined or accredited by ABET.

Accreditation Board for Engineering and Technology, Inc.

111 Market Pl., Suite 1050
Baltimore, MD 21202

Ph. (410) 347-7700
Fax (410) 625-2238

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

Policy of Nondiscrimination

The commitment of Dordt College to nondiscrimination on the basis of age, color, disability, gender, national or ethnic origin, or race in the administration of its admissions, education, and employment policies is consistent with the requirements of the Age Discrimination in Employment Act of 1967, Title VI of the Civil Rights Act of 1964, Title IX of the 1972 Education Amendments, Section 504 of the Vocational Rehabilitation Act of 1973 and the Iowa Civil Rights Act of 1965. Inquiries concerning compliance should be directed to the vice president for business affairs at the business office, 712-722-6010.

The Campus

Location

The Dordt College campus is located in Sioux Center, Iowa, a prosperous, rapidly growing community in northwest Iowa. Sioux Center is situated on Highway 75, 45 miles north of Sioux City, Iowa, and 55 miles southeast of Sioux Falls, South Dakota.

Facilities

The Classroom Complex As indicated by its name, the classroom complex is home to many of the facilities for the academic program: a 200-seat lecture hall, numerous classrooms of various sizes, a language lab, the New World Theatre and theatre arts shop, a student-art gallery, various art studios, computer labs, and faculty offices.

The classroom complex also accommodates the offices of the president, college advancement, business affairs, graduate education, computer services, the media center, and the print shop.

B.J. Haan Auditorium/Music Center The B.J. Haan Auditorium/Music Center was completed in 1979. 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 B.J. Haan Auditorium, which is used for chapel services, concerts, organ recitals, and other events, seats approximately 1500 people and contains a large, beautiful Casavant pipe organ. The mezzanine of the B.J. Haan Auditorium accommodates an art gallery and the offices of the Studies Institute, the vice president for academic affairs, and the registrar.

The Admissions Building The admissions building was built in 1962 and originally housed the music department. Today it accommodates the offices of the directors of admissions and financial aid and the admissions counselors for the college.

The Library The Dordt College Library is a centralized library facility that houses a collection of 181,000 volumes, including 110,000 book volumes and over 70,000 journal volumes, print, and microtext. The library subscribes to over 700 journals, magazines, and newspapers. Open nearly 90 hours per week during the academic year, the facility, which has been in use since 1966, provides study space for 350. The library has a significant collection of curriculum and children's literature materials housed in the Learning Resource Center. Other specialized collections include the Dordt College Archives and Dutch Memorial Collection.

The library houses a computer laboratory on the lower level. On the upper level of the library there are additional PCs, as well as Macintosh computers. From these workstations, students can search the library's online catalog to locate books and articles, search the Internet, send e-mail, type

papers, and access CD-ROM resources. A variety of other computer applications are also available.

The Academic Skills Center moved into the lower level of the library in the fall of 1996. The center includes offices for the ASK Center Director, the Coordinator of Academic Services for Minority and International Students, and the Coordinator of Services for Students with Disabilities, as well as a number of tutoring and individual testing areas.

Science and Technology Center The original natural sciences building was completed in 1968 with additions in 1978, 1982, and 1990 more than doubling the available space. The building incorporates a greenhouse, 80- and 180-seat lecture halls, general use classrooms, faculty offices, and special facilities for the agriculture, biology, engineering, and physical science departments. Agriculture facilities include animal science and agronomy labs, a surgery, and a live animal room. The biology department has at its disposal numerous laboratories of varying sizes, including an electron microscope lab. The engineering wing incorporates labs for mechanical engineering, electronics, electrical engineering, and computer-aided design. Two large laboratories are available for general and organic chemistry, a smaller laboratory is used for advanced courses, and four instrument laboratories are available for all courses and individual projects. The chemistry department is equipped with two gas chromatographs, an HPLC, and UV-Vis, IR, NMR, and fluorescence spectrometers. Physics has one large laboratory for introductory courses and a project laboratory and an optics room for advanced courses and individual projects. The physics department is equipped with apparatus to study holography and laser optics, the properties of high-temperature superconductors and nuclear radiation.

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.

KDCR Radio The facilities of radio station KDCR-FM include a master control room, a production studio, a classroom-studio, an announcer's booth, administrative offices, an engineer's workroom, record and tape library, a transmitter, and newswire services.

The Recreation Complex The recreation complex provides a wide range of fitness and recreation opportunities for the Dordt College community and local residents. It also is home to the health, physical education, and recreation (HPER) department. The building combines the original college gymnasium, which seats 2500 spectators, with approximately 85,000 square feet of new and remodeled space completed in 1997. In addition to the gymnasium used for intercollegiate competition, the recreation complex incorporates three additional courts, adaptable for basketball, volleyball, tennis, etc; a 200-meter rubberized track, along with space for field events; three racquetball courts; spacious rooms for weightlifting and exercise equipment; a golf simulation room; training and locker facilities; and classrooms and HPER faculty offices.

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, the college bookstore, mail facilities, information center, the offices of the campus pastor and the director of residence life, and the college switchboard.

On the lower level is a four-lane bowling alley, billiard and ping-pong tables, a darkroom, student publications offices, the vice president for student services' office, and the counseling and placement offices.

Astronomical Observatory An astronomical observatory is located on campus southeast of the Science Building. Its principle telescopes are 8-inch and 16-inch aperture Newtonian reflectors. Smaller, portable telescopes are also available. These instruments are available to students taking astronomy and physical science courses, and to the whole college community when unusual objects and events are visible in the night sky. In addition to education programs, research on planets, satellites, comets, and variable stars is undertaken at the Dordt College Observatory.

The Residence Halls

West Hall accommodates 160 underclassmen and women in four-person suites. The building also houses a large lounge/gameroom and two smaller lounges, as well as laundry facilities and a kitchenette.

North Hall houses 200 men, mostly freshmen, in double rooms. It includes a large lounge/gameroom, three computer rooms, laundry facilities, and a kitchenette.

East Hall accommodates approximately 200 freshman women in double rooms. It also has a kitchenette, along with a lounge/gameroom, a computer lab, and a laundry room.

Covenant Hall houses 220 male and female students and has one classroom and 10 seminar rooms, four kitchenettes, a computer laboratory, a student mail facility, student offices, and space for summer storage.

East Campus Apartments This apartment complex includes six buildings housing 288 students. Each building has eight three-bedroom apartments that are equipped for cooking. Each apartment building is equipped with laundry facilities.

Southview Apartments This building has 28 cooking apartments housing a total of 168 students. Six students reside in each apartment. Computer rooms, lounge areas, laundry facilities, and a community room complement the living areas.

Agriculture Stewardship Center Two miles north of the college, the ASC includes 160 acres of farmland used for production, crop testing, and research. Present facilities at the center include a free-stall and tie-stall barn, research barn, milking parlor, and replacement barn. In addition, agriculture students have access to facilities for swine and cattle production and research.

Recreational Facilities In addition to on-campus recreational facilities, students have access to municipal facilities, including the Sandy Hollow nine-hole golf course and swimming area, a football/track stadium, parks and an indoor swimming pool adjacent to campus.

Accessibility for Students with Disabilities _____

Dordt College is committed to offering equal access to people with disabilities. In compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA). Dordt does not exclude otherwise qualified persons with disabilities, solely by reason of the disability, nor are persons with disabilities denied the benefits of these programs or subjected to discrimination. Equal access includes the accessibility of programs or activities and the learning environment.

Although certain facilities are not fully accessible to people with physical disabilities, Dordt College does adhere to the accessibility standard for existing facilities, which states that the recipient's program or activity, when reviewed in its entirety, must be readily accessible to people with physical disabilities. Dordt College may meet this standard through such means as reassignment of classes or other services to accessible locations, redesigning of equipment, assignment of aides, alteration of existing facilities, and construction of new accessible facilities. Dordt College is not required to make structural changes in existing facilities where other methods are sufficient to comply with the accessibility standard described above.

The student with a disability is responsible to contact the Coordinator of Services for Students with Disabilities (CSSD) in order to initiate services. This contact should be made 6 months before the start of the semester of admission or as early as possible to ensure the accessibility of classrooms and housing and the availability of auxiliary aids. Students will be asked to provide appropriate documentation of the disability. On the basis of the documentation, reasonable accommodations needed to offer equal access are implemented on a case by case basis; therefore, the documentation is most useful if it is no more than three years old. Reasonable accommodations may not lower course standards or alter degree requirements, but they give students with disabilities an equal opportunity to learn and demonstrate their abilities.

Campus Life

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 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 life style. 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 and policies of the college. Though admission to Dordt College is the rightful privilege of its constituency, that privilege may be readily withdrawn should the student fail to maintain proper standards of conduct or scholarship.

Students are expected to attend church services each Sunday. Students who are not able to attend their home church are asked to 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.

Each school year begins with the college retreat at Lake Okoboji. This is followed throughout the year by Bible study groups, lecture series, mid-week worship, residence hall devotions, etc. Recognizing the importance of the spiritual aspect of student life, the college also provides pastoral counseling for students. Members of the Student Services staff meet with and help students regarding questions and problems that 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.

Student Activities

Student Government Student Forum is the student government organization on the Dordt College campus. It represents the student body and helps all students fulfill their office. Student Forum consists of 18 students—three from each class and six at large. Each of these students serves on a faculty/student committee and participates in the major decision-making processes of Dordt College. Student Forum meets regularly to discuss issues of concern to the Dordt College community.

Athletics Dordt College is a member of the National Association of Inter-collegiate Athletics (NAIA) and the Great Plains 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, Nebraska, Minnesota, and South Dakota. Intercollegiate competition for men is scheduled in baseball, basketball, cross country, golf, soccer, tennis, and track. Competition for women is scheduled in basketball, cross country, soccer, softball, tennis, track, and volleyball.

Intramurals A year-round program of intramural sports gives all students an opportunity to take part in recreational activities, both competitive and non-competitive. The intramural program is planned and supervised by the student intramural council. Recreation is provided through such activities as badminton, basketball, bowling, softball, volleyball, racquetball, soccer, golf, floor hockey, sand volleyball, and pool.

Club Sports Students have also organized a number of sports clubs that supplement the regular program; some allow for intercollegiate competition. The following list is an example of the types of club sports which have been organized in previous years:

Soccer Hockey Volleyball Indoor Soccer

Additional clubs may be organized as student interest demands. The club sports program is supervised by the Student Activities Committee.

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

List of Active Clubs

Agriculture Club	Institute of Electronic and Electrical Engineering (EEE)
American Society of Mechanical Engineers (ASME)	Indoor Soccer
A Mission OutReach (AMOR)	Men's Volleyball Club
College Republicans	Outdoor Expeditions
Community Outreach Program (COP)	Outdoor Soccer Club
Computer Club	Putting Love Into Action (PLIA)
Dance Club	Radio Club
Dordt Defenders of Life (DDL)	Reaching Others for Christ-Evangelism Club (ROC)
Future Active Christian Teachers (FACT)	Shamar-Earthkeeping Club
Future Business Executives (FBE)	SPECTRUM-Cross-Cultural Club
	SUB Club-Non-Alcoholic Activities
	Theatre Club

Social/Cultural Activities The college schedules a variety of activities throughout the year. Students are encouraged to participate in campus events as an important part of college life.

In addition to club activities, athletics, and musical activities, a number of social events are planned by various groups. Students are encouraged to attend the fine arts festivals, the college-sponsored travelogue series, the annual music festival, the Christmas banquet, Talent Extravaganza, Spring Fling Festival, or many of the other school activities organized by the student representatives.

Drama Several dramatic productions are given each year. All students who wish to participate are encouraged to audition. Opportunity is also given to participate in other forensic activities.

Musical Activities Vocal and instrumental groups are available 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. Current groups include the following:

Campus Band—All new students, as well as upperclassmen may audition for membership in the Campus Band, an organization that studies representative symphonic band literature and performs several local concerts each year.

Chamber Orchestra—The Chamber Orchestra consists of string players who study chamber music literature, perform several local concerts each year, and tour extensively. Membership is by audition.

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

Concert Band—Band members, chosen by audition, study representative symphonic band literature, perform several local concerts each year and tour extensively.

Concert Choir—Each year, the Concert Choir presents a number of local concerts and tours extensively. Membership in the choir is open by audition.

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

Jazz Band—Membership is by audition. Unless other arrangements are made, all players must also be members of the Campus Band or Concert Band.

Northwest Iowa Symphony Orchestra—Chamber Orchestra members have automatic membership in this large full symphony orchestra. NISO performs three concerts each year and membership is open to wind and percussion students by audition.

Student Publications

Dordt College Diamond, the school newspaper, published biweekly by the students.

The Signet, an annual student publication—issued in the summer.

The Canon, the creative literary publication in the arts.

Student Services

Counseling Counseling services are offered to the Dordt community as a program of the Office of Student Services. These services are designed to promote and enhance responsible academic activity and to meet the individual counseling needs of the community. Trained counseling personnel are available to assist students with their social, emotional, spiritual, and vocational needs. Referral services to off-campus agencies are also available through the counseling staff.

Career Development The career development office provides much help for students seeking vocational direction for their lives. Several tests are computer-based, and results are immediate. A wide resource library is ready with career information in every area. The Career Development office sponsors the Peer Counseling program which not only orients the students to college, but also provides academic and career advice on the student level, very specific to Dordt College.

Job Placement Assistance Formal placement services are provided for all students graduating with either a four-year or two-year degree. The career development office assists in arranging on- and off-

campus interviews and maintains student placement records. The services available to the student include resumé writing, job application procedures, interviewing skills information, and job vacancy listings.

Students who plan to use the placement services should notify the career development office early in the first semester to complete a set of placement credentials.

Housing

All unmarried students who are not 22 years of age by September 1, 2000 are required to live in Dordt College housing unless they live at home with a parent or guardian. Those students who wish to live with other relatives must receive approval from the vice president for student services prior to making other arrangements for housing. The student life committee may grant exceptions to this general policy where circumstances make it advisable. All requests for exceptions must be presented in writing to the vice president for student services prior to the academic year. Mid-year requests will not be considered unless extenuating circumstances exist.

Rooms for incoming freshmen and transfer students are reserved in advance upon receipt of the \$100 tuition deposit. Rooms for returning upperclassmen are reserved in advance upon receipt of \$100. This deposit will be applied to the first semester's rent and is non-refundable and non-transferable. All students who register for the first time at Dordt must pay a \$100 security deposit at registration. This deposit must be maintained at \$100 during the student's attendance at Dordt College. This fee will be refunded when the student graduates or terminates enrollment at Dordt College if no excessive wear has been sustained, and there are no outstanding bills due the college.

While the college is responsible for housing all unmarried students, such students do have a measure of choice in regard to room and roommates. However, the college reserves the right to make housing adjustments when necessary. Because the college is unable to provide on-campus married student housing, married students are expected to make their own housing arrangements. Information about available apartments for married students can be obtained from student services.

Housing Regulations Rooms are furnished with necessary articles of furniture, such as beds, mattresses, desks, chairs, and dressers. Students provide their own blankets, linens, bedspread, pillows, towels, and wash cloths. Every room is furnished with a telephone connection with voice-mail capabilities. Several residence halls are equipped with network connections in individual rooms; modem access is available to students living in non-networked residence halls. Individual rooms are not furnished with computers or telephones. The students, by applying for a room and paying a deposit, obligates himself or herself to college housing for the entire year or for such portion of the year as he or she may attend Dordt College. Each room contract terminates at 1:00 p.m. following the last day of examinations. Students must be out of their residence by that time.

The charges set by the college do not include the Christmas and spring vacation periods. During these vacations the dining hall and the residence halls are closed. The college encourages students

to either go home or to a friend's home during these vacation periods. Students who do not live in or near Sioux Center may make arrangements to pay an extra fee to stay in the East Campus Apartments over breaks.

Rooms of students on and off campus are open for college inspection at any time. The student is held responsible for any damage to his or her room, residence complex, or furnishings. Each residence hall is under the supervision of a resident director or community advisor and resident assistants. Students are responsible to the community advisor, 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 policies regarding student housing and student conduct, see the *Defender*, the student handbook.

Meals All students, except married students and those assigned to light housekeeping apartments, are required to take their meals at the college dining hall unless exempted by the college. Regular cooking is not permitted in the college residence halls.

Admissions

Freshman Admissions

Dordt College seeks applicants who have a desire to attend a Christian college, and who have demonstrated the desire to learn. All students exhibiting these characteristics will be considered for admission. Previous academic experience is a large, but not the only, factor in evaluating applications.

Admission for all freshmen students is determined by the executive director of admissions after the following items have been received:

1. A completed Dordt College application for admission
2. A non-refundable \$25.00 application fee
3. A final high school transcript
4. ACT or SAT test results.

Regular Admission Applicants are normally granted regular admission status if their academic record demonstrates the following:

1. A minimum of 17 units of high school credit. A subject pursued for one school year of 36 weeks with five class periods per week is considered one unit. At least ten units must be from the subjects listed under the "recommended high school program" below.
2. A college-preparatory course of study with:
 - 3 years (minimum) of English
 - 2 years (minimum) of mathematics (must be in algebra and/or geometry)
 - 2 years of foreign language in a single language with grades no lower than C in the second year. Students whose native language is not English will meet this requirement if they receive a passing score on the Entrance Interview.
 - 1/2 year of word processing/keyboarding
3. A cumulative high school GPA of 2.25
4. ACT or SAT I test scores as follows:

ACT: English - 18	Math - 18	Composite - 19
SAT I: Verbal - 460	Math - 460	Combined - 920

Admission with Special Provisions Applicants with incomplete admissions records or applicants with high school records or test scores that do not meet all regular admission standards may be granted admission with special provisions. In the case of incomplete records, receipt of the complete record may result in a change of admission status. Students who were unable to take the ACT or SAT I prior to enrollment will be required to take the ACT after arrival on campus. The results of this test may affect the student's status.

Students admitted who do not meet the specified scores on the ACT or SAT I test will be required to take additional preparatory courses either during the summer prior to the freshman year or during the freshman year. These courses give the necessary background in English and mathematics to do college-level work. See the section in the catalog for "Academic Skills Courses" for details on these courses. These additional courses may lengthen the time it takes to complete a degree.

Students admitted who have not had two years of high school foreign language will be required to study foreign language at the 100 level at Dordt. Two semesters of study in the same language is required. One year of high school foreign language is equivalent to one semester in college.

Students admitted with a high school GPA below 2.25 or a composite ACT score below 19 (SAT I combined score below 920) will require the following:

1. A limit of 14 credits for the first semester of attendance
2. Testing during the orientation period
3. A contract approved by the Academic Skills Center director, which may include developmental courses or workshops
4. Academic skills courses as determined by the student's academic record.

Such cases may also require recommendations from high school counselors, teachers or principals. If a student is admitted under these special provisions, it will likely mean that the time it takes to complete a degree will be longer than for those students admitted under regular admission. Academic skills courses do not earn graduation credit, but are considered part of student load for registration and financial aid purposes.

Applicants being considered for admission with a composite ACT score below 17 (SAT I combined score below 810) will be required to take part in a personal admissions interview.

Other background deficiencies not specifically listed here will be handled on a case-by-case basis.

Recommended High School Program _____

The type of courses and programs that students select in high school will affect how well they adjust to college work. Ideally they should take the following:

English/Language Arts 4 years

Mathematics 3 years

One year of algebra, one year of geometry, one year of advanced algebra or advanced mathematics; four years of mathematics is recommended for students considering majors in mathematics, computer science, engineering, physics or other science programs.

Science 2 years

Including biology, chemistry, or physics; three years of science is recommended for students considering majors or programs in science; pre-nursing and agriculture students should take chemistry.

Social Science 2 years

Foreign Language 2 years

Three or more years of foreign language in one language, with grades no lower than C in the final year of study, may satisfy Dordt's cross-cultural requirement provided the student can show evidence of an appropriate cross-cultural experience.

Word Processing/Keyboarding . . . ½ year

Electives 3 ½ years

College preparatory courses from areas listed above.

Nondiscrimination Policy

Dordt College's commitment to nondiscrimination on the basis of age, color, disability, gender, national or ethnic origin, or race includes nondiscriminatory access to college programs and activities and treatment therein. Inquiries should be directed to the vice president for academic affairs.

Making 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 forms.

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

1. Application for admission with \$25.00 fee
2. Transcript of high school record

Accepted students are to deposit \$100.00 toward tuition within 21 days of the acceptance date. The tuition deposit serves as a declaration of intent to enroll and reserves housing. The \$100.00 is credited to the student's account at registration. It is refundable until May 1 if requested in writing.

Entrance Test

Applicants for admission are also required to submit the results of the ACT or SAT. Applicants who are not able to take the ACT or SAT may be considered for admission but will be required to take the ACT after enrollment.

Notification of Admission

As soon as the required forms have been received they will be evaluated by the Admissions Office. 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 with Special Provisions— Students whose records indicate that they might have

serious difficulty pursuing college work, or who have not met all admission requirements, are granted special admission.

Readmission

Former students who seek readmission must contact the admissions office and fill out a readmission form.

Transfer Admissions

Students who have attended another accredited 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 minimum grade of C- is required in each course to receive credit. Students who plan to transfer to Dordt College are encouraged to contact the registrar as soon as possible so that course planning may take place and optimal use of courses and credits will occur. A maximum of 30 semester hours of credit (two semesters) may be granted for COEP, AP, or other college level courses earned prior to receiving a high school diploma. A maximum of 61 semester hours of academic credit (four semesters) is granted to graduates of community colleges. (See also the Residence Requirement section of the catalog.) Transfer credits are evaluated by the registrar. Admission to advanced standing does not exempt a student from meeting the specified requirements for graduation from Dordt College.

After the application materials have been evaluated, students will receive notification of credits accepted, student classification, and academic status. Student classification and academic status are assigned following the policies governing all students at Dordt College.

Regular General Admission Regular general admission for transfer students is determined by the executive director of admissions after the following items have been received:

1. A completed Dordt College application for admission and a non-refundable \$25.00 application fee
2. A high school transcript
3. An official college transcript. Transfer candidates must request that the registrar at each collegiate institution attended forward an official transcript; transcripts submitted by the candidate are not acceptable. The college transcript must show a cumulative GPA of 2.0 or above for regular general admission.
4. ACT or SAT results.

Admission with Special Provisions Students who do not meet all the minimum academic requirements for admission may be granted admission with special provisions, if warranted by the total academic record of the student. Special admission may require the following:

1. A contract approved by the Academic Skills Center director, which may include developmental courses or workshops
2. A limit of 14 credits for the first semester of attendance.

Approval for and status of admission is decided by the executive director of admissions in consultation with the academic policies committee.

Special Students

Students who do not plan to follow a prescribed course of study leading to a degree may register as special students for such courses as they are able to pursue with profit on the basis of their qualifications.

Permission to register as a special student must be obtained from the registrar.

Admission of International and ESL Students

An official TOEFL score of 500 or higher is required for admission. With the exception of Canadians, all international and ESL students are required to take the Entrance Interview for International and ESL students during freshman orientation. This interview serves to evaluate the student's previous educational experience and to ensure their introduction to the type of education program given at Dordt College. Furthermore, the results of this interview will determine whether or not an international or ESL student will be required to take academic ESL courses. For native speakers of a language other than English, a passing score on the Entrance Interview will meet the general admissions foreign language requirement (see page 19) and the cross-cultural requirement (see page 46). Successful completion of ESL 101 and ESL 102 during the first year of attendance at Dordt will also satisfy these requirements.

Academic Support for Students with Special Needs

Dordt College makes available academic support for students with special learning needs such as sensory impairments, physical and health problems, and learning disabilities. For more information contact the Coordinator of Services for Students with Disabilities (CSSD).

Students who believe that they need academic support should notify the CSSD as soon as possible. Ideally, this should occur during the application process. Accepted applicants will be asked to provide relevant assessment information so that appropriate academic support can be planned. If prior assessment information is not available or is more than three years old, the applicant will be encouraged to have such an assessment done. This type of assessment can usually be obtained in the student's school district, at no cost, if the student is currently enrolled in a K-12 school.

Students who request academic accommodations after they have enrolled as students at Dordt

College will also be asked to provide assessment information that confirms the existence of the special need (e.g., learning disability). Where such assessment information is not available, the student will be encouraged to have appropriate assessment performed.

Registration _____

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

Registration is not completed until tuition and fees have been partially paid. A late registration fee is charged if registration is not completed on the designated registration day each semester.

Finances

Expenses

The cost of attending Dordt College is kept as reasonable as possible. Tuition covers only a part of the cost of education. Each student receives the benefit of finances obtained from individual gifts, church offerings, and denominational ministry shares.

Tuition	<u>Per Semester</u>	<u>Per Year</u>
Full-Time	\$6600	\$13,200
Part-Time, per credit*	550	
Auditing, per credit (8-11 credits per semester)	275	
per credit (1-7 credits per semester)	138	
senior citizens, per credit 30		

**Students taking 1-7 credit hours will receive a part-time student grant of \$275 per credit hour.*

Room and Board

Residence hall room	990	1980
Apartments, without housekeeping facilities	990	1980
with housekeeping facilities	1220	2440
Board- dining hall,		
standard (21 meals per week)	910	1820
reduced (14 meals per week)	840	1680

Fees

Student Activity Fee**	\$75	\$150
Late registration	25	
Security deposit**		100
ACT fee	25	
Application fee		25
Off-campus program administrative fee	125	
Music lessons, individual**	170	
group**	85	
Medical insurance**		
student		\$ 320
student/spouse		1120
student/child		880
student/spouse/child		1750
Service charge for returned checks		
U.S. checks		12
Canadian checks		30

**See pages 24 and 25

Activity Fee Items included: athletic events, co-curricular activities, game room, graduation fee, intramurals, medical care fee, movies, music rentals (tux, formals, instruments), placement fee, yearbook, student teaching, technology fee, transcripts, vehicle registration, recreation complex use.

Items excluded: ACT testing, banquets, club-sponsored events, dances, financial aid fees, matriculation fee, music lessons, occupational testing, retreat, Talent Extravaganza, theatre arts activities, travelogues.

Security Deposit All students who register for the first time at Dordt must pay a \$100 security deposit at registration. This deposit must be maintained at \$100 for the length of the student's attendance at Dordt. This deposit will be refunded when the student terminates attendance at Dordt if no fines have been levied (for things such as parking, overdue library books, room damage) and there are no outstanding bills due the college (for things such as tuition and telephone).

Music Lessons Music majors who have passed Music 204 and music minors who have completed four semesters of lessons will pay half the fees for individual lessons. Half fees do not apply to group lessons or piano proficiency lessons.

Payment of Accounts Charges for tuition, room and board, and fees are due and payable at the beginning of each semester. A finance charge of .75% per month (9% annual percentage rate, accrued monthly) is charged on all unpaid accounts. For the convenience of students and parents wishing to pay their college expenses in installments, a deferred payment plan is offered.

Accounts *must* be paid in full by December 8 for fall semester and April 10 for spring semester. *Students may not validate their registration for a new academic term if their account balance is not paid in full. The college will withhold transcripts and grade reports until accounts are paid in full.*

Related Expenses When determining the amount of financial assistance necessary, Dordt College includes the average cost of books, travel, and personal expenses. Depending on the student's grade level and chosen major, the cost of books ranges from \$300 to \$640 per year. Travel expenses vary from \$400 to \$1600, depending on the number of times the student goes home, the distance of the student's home from the college, and the mode of transportation used. Personal expenses range from \$700 to \$1900, depending on the student's life style.

Part-Time Adult Learner Program Dordt College has established a special financial aid program for the adult learner. To be eligible for the program, students must be 25 years of age prior to the first day of classes and classified as a part-time student.

Dordt College part-time adult learner grants may reduce tuition by as much as two-thirds the regular part-time rate. The rate per credit is based on the number of credits a student has previously earned, either at Dordt or another institution, and the number of credits in which the student is currently enrolled. Adult learners may also be eligible for state or federal loans and financial aid.

Students should consult the associate director for special admissions to determine their eligibility for the program and the registrar for evaluation of transfer credit.

Student Medical Insurance A hospital/medical insurance policy is available to all full-time students. Premiums, listed above, cover the 12-month period from August 20 to August 19. Plans are also available for married couples and families. If a student does not wish to participate in the plan, proof of alternate insurance coverage is required. All international students, except those from Canada, are required to purchase medical insurance. Additional information is available from the student services office.

Refund/Repayment Policy If a student completely terminates enrollment (i.e., cancels his/her registration, withdraws, or is dismissed) during the semester, the student's refundable charges and financial aid will be prorated if he/she has been enrolled for less than or equal to 60 percent of the semester. If a student has been enrolled for more than 60 percent of the semester, he/she is not eligible for a reduction in charges. The following costs are refundable by the terms of this policy: tuition, room, board, and student activity fee. All other charges are nonrefundable.

The withdrawal date is the later of (1) the date the student begins the withdrawal process by providing official notification (oral or written) of the intent to withdraw; or (2) the student's last date of attendance at an academically-related activity. A student who wishes to withdraw must contact the office of student services to initiate and complete the appropriate paperwork.

The *percentage of the semester completed* is calculated by dividing the number of days enrolled by the number of calendar days in the semester, including weekends and holidays, but excluding breaks of five or more consecutive days. For example, if there are 107 calendar days in a semester and a student's withdrawal date is on the 50th day, his/her refundable charges and financial aid will be prorated to reflect that he/she has been enrolled for 46.7 percent of the semester (50 days divided by 107 days).

Recipients of Federal Title IV Financial Aid—If the withdrawing student is a recipient of Federal Title IV financial aid, the amount of Title IV assistance the student earned must be compared with the amount disbursed.

The amount of Title IV assistance earned is calculated as follows:

$$\begin{array}{l} \text{Percentage of Title IV financial aid earned (percentage of semester completed)} \\ \times \text{ Amount of Title IV aid disbursed (or that could have been disbursed)} \\ \text{as of the withdrawal date} \\ = \text{Amount of Title IV funds earned} \end{array}$$

If the withdrawing student received less Title IV financial aid than the amount earned, the college will make a post-withdrawal disbursement as specified by the Department of Education.

If the withdrawing student received more Title IV financial aid than the amount earned, the college, or the student, or both, must return the unearned funds, as required, in the following order: Unsubsidized Stafford Loan, Subsidized Stafford Loan, Perkins Loan, PLUS Loan, Pell Grant, SEOG Grant, and LEAP funds.

If the student is required to return federal grant funds, he/she will have 45 days from the date of notification to pay the amount in full or to make satisfactory arrangements for repayment with the college or the Department of Education. Failure to repay or make arrangements within this time

frame will result in a loss of eligibility for all federal aid for attendance at any college until the amount is paid in full.

A copy of worksheets showing details of the required treatment of Title IV funds when a student withdraws, and examples of the application of this withdrawal refund/repayment policy are available upon request from the business office.

Financial Aid

In addition to the extensive scholarship program, which is based on superior academic potential and performance, Dordt College has a complete program of financial assistance for students demonstrating financial need. Types of financial assistance available include grants, loans, work, and other special programs outlined below.

At Dordt, 95 percent of the student body receives some type of financial aid. Regardless of your income, the only way to know if you qualify is to apply. Financial aid applications may be obtained by writing or calling the financial aid office.

All United States citizens who wish to apply for financial aid must submit the Free Application for Federal Student Aid (FAFSA) as well as the Dordt College Supplemental Data Form. Other supplementary information may be requested through additional forms. All Canadian citizens who wish to apply for financial aid must submit the Canadian Financial Aid Form from Dordt College. All necessary forms may be obtained by writing or calling the financial aid office at Dordt College.

Dordt College Grants Dordt College makes grants available to students in the following groups. In most cases, no financial aid application is necessary.

Alumni Grant This \$300 grant is available to students attending full time whose mother and/or father are alumni (attended Dordt the equivalent of at least two semesters full time).

Canadian Exchange Rate Grant Dordt College provides an exchange rate grant to Canadian students to offset the loss they may incur when paying college accounts in Canadian dollars. For all other expenses (books, personal spending, etc.) students may exchange money through the business office at the current bank exchange rate.

Distance Grant All full-time students are eligible. This grant is based on mileage from the student's permanent residence to Dordt College. Two semesters of continuous local residence will change the distance grant status unless the student regularly returns to his or her former residence for summer employment or continues to be legally dependent on his or her parents.

The mileage scale is based on concentric circles around Sioux Center.

<u>miles</u>	<u>annual amount</u>
50 - 300	\$100
301 - 600	200
601 - 800	300
801 - 1000	400
over 1000	500

Institutional Grant All full-time students who are members of supporting churches or denominations, or are graduates of Christian high schools receive this annual \$250 grant-in-aid.

International Tuition Grant Students from countries other than the United States and Canada may be eligible to receive this grant from Dordt College to help defray costs. Students whose parents are foreign missionaries also may be eligible. The "Foreign Student Financial Aid Application" must be completed in order to determine need and be considered for this grant.

Grants

Federal Pell Grant The Federal Pell Grant Program makes funds available to the most needy students. Grants range from \$400 to \$3300, and application is made by completing the FAFSA. This program is available to United States citizens.

Federal Supplemental Educational Opportunity Grant 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. Students who are citizens of the United States are eligible. Grants will range from \$200 to \$4000 per year. This grant may be given to the student each year up to four years as long as the student continues to make satisfactory progress and his/her financial situation does not change.

Heritage 21 Grant This grant is provided by the college to all students, regardless of citizenship, who have financial need that cannot be met with other grant programs. Grants range from \$200 to \$3000 per year.

Century Need-Based Scholarship This aid is a combination grant/scholarship program. Two criteria must be met: good grades and financial need. This scholarship ranges from \$200 to \$2000. Because of limited funds under this program the money will be disbursed very selectively. Not every good student with high need will receive these funds.

Loans

Perkins Loan This program provides long-term loans to students who are citizens of the United States. Applicants must show financial need to be eligible. No interest is charged on the

loan while the student is in college. The loan may be repaid over a period of ten years with a minimum repayment of \$40 per month required. Interest is at the rate of 5 percent per year. Repayment may be deferred for as long as 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 course load.

Heritage 21 Loan This loan is provided by the college to all students with need, regardless of citizenship. No interest is charged while the student is enrolled as a full-time student at Dordt College or at another recognized college or university. Interest will begin four months after and principal payments will begin six months after the last month of attendance at Dordt or at another recognized college or university, with a maximum deferment of five years allowed for attendance at another institution. Interest rates on funds borrowed will vary according to the number of years of study completed at Dordt. For a student who has completed four years of study the interest will be three percent; three years, four percent; two years, five percent; and one year, seven percent. All loans must be repaid within ten years from the time of the last month of attendance as described above. Minimum payments will be \$50 per month and will be payable to the business office at Dordt College.

Federal Stafford Loan This loan is available to students who demonstrate financial need and are United States citizens. A freshman may borrow up to \$2625 per year. A sophomore may borrow up to \$3500 per year. A junior or senior may borrow up to \$5500 per year. Repayment of a Federal Stafford Loan begins six months after leaving school. Until repayment begins, no interest is charged on the loan. Interest rates vary, depending upon the first year the loan was received. The repayment period may be as long as ten years, but a monthly payment of \$50 is usually required. Dordt has a preferred lender list through which students receive their Stafford funds. The financial aid office knows these banks work well with Electronic Funds Transfer (EFT). With EFT, funds are disbursed to the college within approximately two weeks of applying for the Stafford Loan.

Federal Unsubsidized Stafford Loan This loan is similar in most ways to the Federal Stafford Loan (see above paragraph). However, there are two main differences. First, while the government pays the interest on the Federal Stafford Loan, the student must pay the interest on the Federal Unsubsidized Stafford. Second, the Federal Unsubsidized Stafford is not need-based; anyone may qualify.

Federal PLUS and Additional Federal Unsubsidized Stafford Loan The PLUS loan program allows parents of dependent students to apply for as much as the difference between the cost of attendance and a student's financial aid. Independent students may apply for an additional Federal Unsubsidized Stafford. Neither loan is need-based, and applications may be obtained from the financial aid office. However, these loans should be used only after all other resources have been considered since interest begins 60 days after the money is disbursed.

Alternative Loans Students who find they still need additional financial aid after other aid has been applied, or students whose families do not demonstrate need, may find an alternative loan a viable option. There are many alternative loans available with terms and conditions varying. Most do require proof of credit worthiness. You may wish to contact your local lender to see if they participate in an alternative loan program. In recent years, the most popular alternative loan for Dordt students has been the Iowa Partnership Loan. You may contact the financial aid office for an Iowa Partnership Loan packet.

Canada Student Loan The provincial governments have loan programs that may be used by Dordt students. Information and application forms may be secured through your high school or local bank, or by writing to the department of education of your home province.

ALBERTA

Students Finance Information
P.O. Box 28000, Station Main
Edmonton, Alberta T5J 4R4
Telephone: (780) 427-2740 or (800) 222-6485
Fax: (780) 422-4516
<http://www.aecd.gov.ab.ca/department>

BRITISH COLUMBIA

Student Services Branch
Ministry of Education
P.O. Box 9180, STN Prov. Govt.
Victoria, British Columbia V8V 3Z9
Telephone: (250) 387-6100
Fax: (250) 356-9455
<http://www.aett.gov.bc.ca/studentsservices/welcome.htm>

MANITOBA

Student Financial Assistance
408-1181 Portage Ave.
Winnipeg, Manitoba R3G 0T3
Telephone: (204) 945-6321 or (800) 204-1685
Fax: (506) 444-4333
<http://www.edu.gov.mb.ca/>

NEW BRUNSWICK

Department of Education
Student Financial Services
P.O. Box 6000
Fredericton, New Brunswick E3B 5H1
Telephone: (506) 453-2577 or (800) 667-5626
Fax: (506) 444-4333
<http://www.studentaid.gov.nb.ca/>

NEWFOUNDLAND

Student Aid Division
Department of Education
P.O. Box 8700
St. John's, Newfoundland A1B 4J6
Telephone: (709) 729-5849
Fax: (709) 729-2298
<http://www.edu.gov.nf.ca/studentaid/>

NOVA SCOTIA

Student Assistance Division
Department of Education and Culture
P.O. Box 2290, Halifax Central
Halifax, Nova Scotia B3J 3C8
Telephone: (902) 424-8420
Fax: (902) 424-0540
<http://www.ednetns.ca/educ/student/prog.htm>

ONTARIO

Student Support Branch
Ministry of Training, Colleges and Universities
P.O. Box 4500, 189 Red River Road, 4th Floor
Thunder Bay, Ontario P7B 6G9
Telephone: (807) 343-7260
<http://osap.gov.on.ca/>

PRINCE EDWARD ISLAND

Student Financial Services
Department of Education, 3rd Floor, Shaw Building
P.O. Box 2000, 105 Rochford Street
Charlottetown, Prince Edward Island C1A 7N8
Telephone: (902) 368-4640
Fax: (902) 368-6144
<http://www.gov.pe.ca/educ/index.asp>

QUEBEC

Direction générale de l'aide
financière aux étudiants
Ministère de l'éducation
1035 rue de la Chevrotière
22ième étage, Édifice Marie-Guyart
Québec (Québec) G1R 5A5
Telephone: (418) 646-5245

SASKATCHEWAN

Student Financial Assistance Unit
Saskatchewan Post Secondary Education
and Skills Training
Room B21, Walter Scott Building, Albert Street
Regina, Saskatchewan S4P 3V7
Telephone: (800) 597-8278
Fax: (306) 787-7537
<http://www.sasked.gov.sk.ca/>

Student Employment

College Work-Study Program Dordt College participates in the Work-Study Program which creates part-time job opportunities for students with financial need. These jobs average seven hours per week. Students qualify for participation in the Work-Study Program if they are:

- 1) United States citizens
- 2) Able to meet job qualifications
- 3) In need of financial aid
- 4) Capable of doing good academic work in college
- 5) Accepted for admission as full-time students 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, agricultural help, and miscellaneous other campus positions. Application must be completed by July 1.

Work for Institution Program The college provides employment for students who may not qualify for the federal Work-Study Program, and yet need employment to assist them to pay for college expenses. Application forms must be completed by July 1.

Special Programs

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.

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 Iowa Legislature has established a state scholarship program for the benefit of Iowa residents attending colleges within the state. These scholarships are based on 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 Iowa Legislature has 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 educational expenses. (Application is made by filing the FAFSA.)

Scholarship and Loan Programs—Other States Several states have scholarships or loan programs that may be used at Dordt College. Information on such programs may be obtained from high school counselors.

Eligibility for Financial Aid

All freshmen and transfer students who are admitted to Dordt College in good academic standing are eligible for financial aid. Continued eligibility for financial aid is dependent upon both good academic standing and satisfactory progress toward graduation which are monitored at the end of each semester. If either good academic standing or satisfactory progress toward graduation is not attained, a student will be limited to one more semester of financial aid. Likewise, students who are admitted on academic probation, including students readmitted after a period of academic dismissal, will be limited to one semester of financial aid. Students so limited may receive additional semesters of financial aid if they meet both satisfactory progress toward graduation and a minimum semester grade point average specified by the financial aid office in writing.

Academic Standing Academic standing is determined by a student's grade point average. A student is expected to maintain a 2.00 grade point average for graduation. When the cumulative grade point average is below the required minimum GPA for good standing, the student will be placed on academic probation. The minimum GPA levels required to be in good academic standing are these:

<u>Credits Earned</u>	<u>GPA</u>
0-12	1.60
13-23	1.70
24-40	1.80
41-53	1.85
54-68	1.90
69-83	1.95
84 or more	2.00

A student who receives less than a 1.00 GPA in any given semester is subject to dismissal at the end of the semester, regardless of whether that student has previously been on probation. If no grade points are earned in a given semester the student will be dismissed for academic reasons.

A student who fails to meet the minimum cumulative GPA requirement at the end of a probationary semester will be dismissed from the college. The academic policies committee may, in individual cases, allow a student to continue on probation if that student has met other conditions or criteria set by the committee.

Students are notified by letter when they are placed on probation.

Students are notified immediately if they are at risk for academic dismissal and are given the option to prepare an appeal.

1. The appeal must be in writing and must be presented at a time set by the registrar.
2. The basis of the appeal must be truly extraordinary circumstances such as serious and documented illness, injury, or family crisis.
3. The appeal must be addressed to the registrar, who will refer it to the Curriculum and Academic Policies Committee for decision.
4. Students readmitted on the basis of an appeal will be on probation and subject to the policy stated above.

A student dismissed for academic reasons may apply for readmission after a lapse of one academic semester.

Satisfactory Progress Federal regulations require that students maintain satisfactory progress in order to continue to receive financial aid. Dordt College also requires satisfactory progress for all institutionally controlled financial aid. Poor grades can impinge on a student's financial resources.

Satisfactory progress toward graduation is defined in terms of successfully completing 12 credits (excluding repeated courses) or 70 percent of credits for which a student is enrolled in a given semester. Minimum percentage successful completion is calculated by dividing the number of successfully completed hours (i.e., those with a grade of A, B, C, D, or P) by the sum of cumulative hours enrolled (including those courses with SP, SF, or F grades and late grades) x 100.

Students receiving financial aid must complete their program within the equivalent of six years of full-time enrollment. If a student transfers to Dordt and has transfer hours applied to a program he or she plans to complete at Dordt, progress will be monitored from the point he or she begins at Dordt. For example, assume a student has 62 hours transferred to Dordt. He or she must still earn 70 percent of each semester's earned hours to continue to be eligible for federal and state aid. If the student is enrolling full-time (at least 12 hours), this would indicate that the student must complete his or her degree within 2½ years.

If a student loses financial aid eligibility due to consecutive semesters of not making satisfactory progress, the financial aid office will notify the student in writing of the specific procedures and minimum requirements necessary for reinstatement of his or her financial aid for the next semester. In some instances a student (if allowed to remain in school by the academic policies committee) will receive no financial aid for a semester until grades can prove that once again the student is making satisfactory academic progress. There may also be a situation where a student is in good academic standing or on academic probation, but will not meet the criteria for financial aid (e.g., a student who received three As and two Fs will not meet the 70 percent completion requirement even with a cumulative GPA of 2.40 and being considered in good academic standing).

Students may appeal the loss of financial aid to the director of financial aid when there are special circumstances such as illness or death in the family. The director may grant the appeal after consultation with at least two other staff members from the admissions, student services, or academic offices. Students should be aware that only truly extraordinary circumstances will be considered.

Appeal requests must be in writing and must include a statement from a member of the admissions, student services or academic office or a faculty advisor. The written appeal documents will be kept in the student's financial aid file. Should an appeal be granted, the student will be allowed to continue with financial aid for the semester, but will remain in a probation category.

Scholarships

The scholarships listed will be awarded for the 2001-02 academic year. Scholarships are awarded only to full-time students. One-half of the award will be paid each semester.

Scholarship information and application forms can be obtained by writing to the scholarships coordinator, Dordt College, Sioux Center, Iowa 51250-1697.

The application deadline for all incoming freshman scholarships is *January 15, 2001*, unless stated otherwise. *February 15, 2001* is the application deadline for all sophomore, junior, and senior scholarships, unless stated otherwise.

Scholarships for Freshman Students

Dordt College Scholarships

Distinguished Scholar Awards Distinguished Scholar Awards are given to five incoming freshman students. These \$7500 academic scholarships may replace a previously awarded Honors Scholarship. Other Dordt College or outside scholarships would be in addition to the Distinguished Scholar Award. To be considered for this award, a student must have a minimum cumulative grade point average of 3.75, a minimum ACT composite score of 30, and a willingness to be interviewed in person or in a telephone conversation. Awards are renewable for an additional three consecutive years, provided the recipient maintains a minimum cumulative grade point average of 3.50. Application deadline is January 15.

Dordt College Academic Scholarships These scholarships are awarded on the basis of the applicant's cumulative grade point average, ACT or SAT scores, extra-curricular involvement and leadership contributions. Minimum requirements for these scholarships are a 3.00 cumulative grade point average and a 21 ACT or 980 SAT score. Dollar amounts awarded range from \$500 to \$5000 and will be named **Dordt College Honors Scholarships** or **Dordt College Presidential Scholarships** according to the dollar amount awarded. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a 3.00 minimum cumulative grade point average.

Dordt College Athletic Scholarships Athletic scholarships of \$500 to \$4000 are available for students who have contributed significantly to their high school athletic program and who intend to actively participate in a Dordt College athletic program. Applicants must complete an application form and will be contacted by a Dordt College coach for information about their abilities. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully contributes to the athletic program, as determined by the athletic department coaches.

Dordt College Music Scholarships Music scholarships of \$500 to \$2500 are available for students who have contributed significantly to their high school or community music program and intend to actively participate in one or more of the following Dordt College music areas: vocal, instrumental or keyboard.

Applicants need not be music majors; however, they must submit an application form, a specified taped repertoire and a music instructor's recommendation. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully contributes to the music program, as determined by the music department directors.

Dordt College Theatre Arts Scholarships Theatre arts scholarships of \$500 to \$2000 are available for students who have contributed significantly to their high school or community theatre arts programs and who intend to actively participate in the Dordt College theatre arts program. Applicants need not be theatre arts majors; however, they must submit an application form and a recommendation from a person who can attest to their talents and skills in the area of theatre arts. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully participates in the theatre arts program, as determined by the theatre arts department faculty members. Participation requirements can be met by one or more of the following activities: acting in shows, working on technical crew or taking a theatre arts course.

Dordt College Student Publications Scholarships Student publication scholarships of \$500 to \$1000 are available for students who have contributed significantly to the publication of their high school student newspaper and who intend to participate in the publication of *The Dordt College Diamond*, a biweekly college student newspaper. Applicants need not be communication majors; however, recipients will be asked to enroll in Communication 241, Introduction to Journalism, in the fall of their first semester at Dordt. An application form and a recommendation from a person who can attest to the applicant's abilities in the area of student publications is required. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and is an active staff member of *The Dordt College Diamond*, as determined by the student newspaper's faculty advisor.

Donor-Funded Scholarships

Dordt Development Foundation Activities Grants Nine \$500 non-renewable grants are awarded to students who have contributed significantly in one or more of the following high school extra-curricular areas: athletics, music, theatre arts. A minimum cumulative grade point average of 2.00 is required.

JJR Freshman Leadership Scholarships Three \$1000 scholarships are available for incoming freshman students who show strong character, Christian commitment, and leadership skills. Applicants must have a 3.00 minimum cumulative grade point average. These scholarships are not automatically renewed; however, a recipient may reapply for this scholarship as an upperclass student.

MTC Foundation Scholarships Three \$1000 MTC Foundation Scholarships are available for students having a Sioux Center, Iowa telephone prefix (722). Students must have a 3.00 cumulative GPA, an ACT composite score of 21, and demonstrate scholarship, leadership, character, and Christian commitment. These scholarships are renewable for an additional three consecutive years provided the recipient maintains a 3.00 GPA. No application form is necessary; all eligible students accepted for admission by February 1 will be considered by the scholarship committee.

Phoenix Heritage Scholarship A \$600 scholarship is available for an incoming freshman or upperclass Dordt College student who is a member of the Phoenix, Arizona, First Christian Reformed Church. Recipients must complete a FAFSA (Free Application for Federal Student Aid) and a Dordt College SDF (Supplemental Data Form.) Financial need will be considered when awarding this scholarship.

Vander Haag Foreign Students Scholarships Several scholarships are available to first-time freshman students who reside in a foreign country other than Canada.

The Nick Verbrugge International Student Scholarships These scholarships are available for students who are citizens of countries other than the United States or Canada. Applicants must be accepted at Dordt College as full-time students in good academic standing. Financial need will be considered.

Presidential Grants for Future Leaders Two \$1300 scholarships are awarded to students who have a minimum cumulative GPA of 3.50 and show outstanding leadership qualities.

Harker's Leadership Scholarships Two \$800 Harker's Leadership Scholarships are available for students who have a minimum cumulative grade point average of 3.00 and show outstanding leadership abilities.

Huisman Minority Students Scholarships Several awards ranging from \$500 to \$1500 are awarded annually to incoming freshman students. The award recipients must demonstrate leadership qualities and must be from a minority race as defined by the Christian Reformed Church Synodical Committee on Race Relations.

Pro-Edge, Ltd., Agriculture Scholarship One \$900 scholarship will be given annually to an incoming freshman student who has a minimum 3.00 grade point average and who intends to major in agriculture or animal science. Preference will be given to applicants who demonstrate a special interest in swine management.

The Ralph Jennings Memorial Agriculture Scholarship This \$1000 scholarship will be awarded to an incoming freshman student who intends to major in agriculture. Applicants must be state of Iowa residents and must have a 3.00 minimum cumulative high school grade point average.

Vermeer Charitable Foundation Agriculture Scholarship This \$2000 scholarship is available to incoming freshman students who plan to major in agriculture and who have a minimum cumulative grade point average of 3.00. Recipients will be chosen on the basis of academics and career goals, along with leadership potential and involvement in agriculture projects. Renewable for an additional three consecutive years provided the recipient maintains a cumulative grade point average of 3.00 and continues majoring in the area of agriculture.

Hilda Ozinga Art Scholarship A \$500 renewable scholarship is awarded each year to an incoming freshman student who intends to major in the visual arts. Selection criteria includes a minimum cumulative GPA of 2.50 and a visual arts portfolio submitted as specified by the art department faculty. This scholarship is renewable for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.50, continues to major in the visual arts, and is endorsed by the art department faculty. The availability of this scholarship is dependent on annual funding.

American State Bank Business Scholarship This \$750 scholarship is available to students who exhibit special aptitude and potential in accounting or business administration. The recipient must rank in the top 20 percent of the high school class and must intend to major in accounting or business administration.

Renewable for an additional three consecutive years provided the recipient maintains acceptable academic standing.

John Bonnema Business Scholarships Two \$1000 awards will be given. Recipients must have a grade point average of 3.00, display special potential in the field of business, and demonstrate Christian commitment and Christian principles.

Vander Haag Computer Science Scholarship This \$1000 scholarship is available to a student who exhibits superior aptitude in the field of computer science. The recipient must have a minimum grade point average of 3.00 and intend to major in computer science or management information systems. Renewable for an additional three consecutive years provided the recipient maintains acceptable academic standing.

John Bonnema Teacher Education Scholarship A \$1000 scholarship will be awarded annually. The recipient must have a minimum 3.00 GPA and must show a commitment to Christian education.

John B. Hulst Teacher Education Scholarship Two \$1000 scholarships are awarded annually. The recipients must have a minimum GPA of 3.00 and intend to teach in a Christian school.

Vermeer Charitable Foundation Engineering Scholarship This \$2000 scholarship is available to incoming freshman students who plan to major in engineering and have a minimum cumulative grade point average of 3.00. Recipients will be chosen on the basis of academics and career goals. Preference may be given to an applicant who is interested in engineering as it pertains to agriculture projects. Renewable for an additional three consecutive years provided the recipient maintains a cumulative grade point average of 3.00 and continues majoring in the area of engineering.

Joe J. Dahm Memorial Music Scholarships Three \$125 awards are available annually, one each in the categories of instrumental performance, vocal performance and keyboard performance.

Minnie J. Dahm Organ Education Scholarship A \$300 scholarship is given to a student who demonstrates a high level of competence and potential as a future professional organist. The recipient must have a minimum grade point average of 3.00. Renewable for an additional three consecutive years dependent on the annual review of the music department.

Ringerwole Piano Scholarship A \$400 award is given annually to a student who demonstrates a high level of competence and potential as a future professional pianist. The recipient must have a minimum grade point average of 2.00 and will be required to take private piano lessons at Dordt.

Richard and Hendrika Zwart Scholarship This \$500 scholarship intends to give recognition and encouragement to students interested in the physical sciences. To be eligible, a student must be a first-time freshman with a cumulative GPA of 3.00 or above. Preference will be given to applicants who intend to become high school teachers in one of the following areas: physics, chemistry, or physical science. This scholarship may also be awarded to non-teacher education applicants who intend to major in physics, chemistry or engineering.

Chris E. Haan Memorial Scholarships for Preseminary Students Two \$1000 awards are given to students interested in entering the preseminary program. Recipients must have a minimum cumulative

grade point average of 3.00. Renewable for an additional three years provided the recipient remains in good standing in Dordt's preseminary program.

Scholarships for Upperclass Students

Dordt College Scholarships

Dordt College Merit Awards/Honors/Presidential Scholarships Students who received Merit Awards/Honors/Presidential Scholarships as incoming freshmen will have their award automatically renewed if they have maintained a cumulative GPA of 3.00 in their college courses.

Dordt College Major/Program Scholarships Students who received Major/Program Scholarships as freshmen will have their scholarship automatically renewed if they have maintained a cumulative GPA of 3.00 in their college courses. This scholarship need not be forfeited if the recipient changes his or her major or program of study.

Dordt College Athletic Scholarships Students who have been awarded Dordt College Athletic Scholarships will have their scholarships automatically renewed for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully contributes to the athletic program as determined by the athletic department coaches. Transfer students may also apply for these scholarships. See the descriptions in the freshman scholarships section for details on selection criteria.

Dordt College Music Scholarships Students who have been awarded Dordt College Music Scholarships will have their scholarships automatically renewed for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully contributes to the music program as determined by the music department directors. Transfer students may also apply for these scholarships. See the descriptions in the freshman scholarships section for details on selection criteria.

Dordt College Theatre Arts Scholarships Students who have been awarded Dordt College Theatre Arts Scholarships will have their scholarships automatically renewed for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and successfully participates in the theatre arts program as determined by the theatre arts department faculty members. Participation requirements can be met by one or more of the following activities: acting in shows, working on technical crew or taking a theatre arts course. Transfer students may also apply for these scholarships. See the descriptions in the freshman scholarships section for details on selection criteria.

Dordt College Student Publications Scholarships Students who have been awarded Dordt College Student Publications Scholarships will have their scholarships automatically renewed for an additional three consecutive years provided the recipient maintains a minimum cumulative GPA of 2.00 and is an active staff member of *The Dordt College Diamond*, as determined by the student newspaper's faculty advisor. Transfer students may also apply for these scholarships. See the descriptions in the freshman scholarships section for details on selection criteria.

Donor-Funded Scholarships

Dordt College Alumni Association Scholarships The alumni board, on behalf of the Dordt College Alumni Association, awards scholarships to three second-semester juniors. A \$1000 and two \$500

scholarships will be awarded. Students in any area of study at Dordt with a minimum grade point average of 3.25 are eligible for these awards. Some of the criteria for this scholarship are attitude, involvement, and perspective.

The Gladys Apol Scholarship For Students With Disabilities This \$1000 scholarship is available for a Dordt College student who incurs special expenses because of a disability. No minimum grade point average is required; however, the applicant must be a motivated student in good academic standing. Consideration will be given to the extent of the applicant's disability and to the special expenses incurred while pursuing a college education. The availability of this scholarship is dependent on annual funding.

The Mephibosheth Scholarship This scholarship is available to help provide assistance to students with physical disabilities. Applicants must plan to attend or already attend Dordt College as full-time students. The dollar amount will be determined by the number of worthy applicants and financial need will be a consideration. This scholarship is not automatically renewed; however, a recipient will be given equal consideration with other applicants each year.

The Alice De Graaf Memorial Scholarship This \$1000 scholarship is available for a full-time Dordt College student in good academic standing who is a state of California resident. Financial need will be considered. The availability of this scholarship is dependent on annual funding.

JJR Upperclass Leadership Scholarships Three \$1000 scholarships are available for Dordt College students who show strong character, Christian commitment, and leadership skills. Applicants must have a 3.00 minimum cumulative grade point average. These scholarships are not automatically renewed; however, a recipient who reapplies will be given equal consideration with other applicants each year.

Vogel Paint Scholarship One \$1500 scholarship is awarded each year to a full-time Dordt College student. Special consideration will be given to Vogel Paint or Iowa State Bank employees or their immediate dependents. Applicants must demonstrate an ability to achieve their academic goals and show evidence of a sincere Christian faith and character. The availability of this scholarship is dependent on annual funding.

Dordt College Heritage Agriculture Scholarship This \$600 scholarship is awarded each year to an agriculture major. Applicants must be classified as a sophomore or junior student with a 3.00 minimum cumulative grade point average. A recipient may reapply and could potentially receive this scholarship for a second year.

Carrie Foods Special Effort Scholarships for Business Students Two \$300 awards are available each year. Recipients must have a minimum grade point average of 2.00 and must do scholastic work above the level that would ordinarily be expected of them. This does not necessarily reward those students who earn excellent grades, but rather those who put forth extraordinary effort to obtain their grades.

Henry De Groot Business Administration Scholarship A \$600 award is given to an outstanding accounting, business administration, or business education major. The award is based on evidence of scholarship, Christian commitment, and an interest in service through the administration of a non-profit organization, teaching of accounting, professional accounting, public relations, or advertising.

John Bonnema Business Scholarship A \$1000 award is given to a student who exhibits special potential in the field of business and demonstrates Christian commitment and principles. The recipient must have a minimum grade point average of 3.00.

Pella Corporation Honors Scholarship A \$1000 scholarship is awarded to a student who has a minimum grade point average of 3.00 and shows special aptitude in accounting or business administration.

R.J. Dykstra Scholarship for Business Administration Students One \$400 award is given to a student who exhibits special potential in business administration. The award is based on Christian commitment, evidence of scholarship, and communication skills.

Ralph and Cornelia Gritters Business Scholarship One \$900 scholarship is awarded each year to a business or accounting major. The recipient must have a minimum cumulative GPA of 3.00 and must be a full-time student entering the sophomore, junior or senior year.

Smith Business Information Systems Scholarship One \$1000 scholarship is awarded each year to a business administration major. Special consideration will be given to students with an information systems emphasis. The recipient must have a minimum cumulative GPA of 3.00 and must be a full-time student entering the sophomore, junior or senior year. Availability of scholarship is dependent on annual funding.

Integrity in Business Scholarship One \$600 scholarship is awarded each year to a student who shows a strong Christian perspective in the area of accounting or business administration. The recipient must have a minimum cumulative GPA of 3.00 and must be entering the senior year.

Martin Seven Communication Scholarships Two \$450 scholarship awards are given annually to students majoring in communication.

The Hollander Consulting, Inc. Information Technology Scholarships Two \$1000 scholarships are available for computer science majors with a minimum cumulative grade point average of 2.80. Applicants must be sophomore or junior students, and the scholarships will be awarded for the recipients' junior or senior year. The availability of these scholarships is dependent on annual funding.

Interstates Electric and Engineering Computer Science Scholarship This \$1250 scholarship is available to computer science majors. Applicants are required to have a minimum cumulative grade point average of 3.00.

John Bonnema Teacher Education Scholarships Two \$1000 scholarships will be awarded each year. Recipients must have a minimum cumulative grade point average of 3.00 and must show a commitment to Christian education.

John Bosma Memorial Scholarship A scholarship of \$900 is awarded to a student majoring in teacher education who exhibits a strong commitment to Christian service, scholastic ability, and potential for success in the classroom.

Vander Ark Family Scholarships Three \$600 scholarships are available to students majoring in teacher education. Applicants must exhibit scholastic ability and strong commitment to teaching in a Christian grade or high school.

EDA, Inc. Engineering Scholarships Two \$500 EDA, Inc. engineering scholarships are available; one will be awarded to an electrical engineering major and the other to a mechanical engineering major. Applicants must have junior class status and have a minimum cumulative grade point average of 2.50. Preference will be given to applicants who have a special interest in HVAC or in commercial electrical design. The availability of these scholarships is dependent on annual funding.

Interstates Electric and Engineering Electrical Engineering Scholarship One \$1250 scholarship award is available. The recipient must have a minimum grade point average of 3.00 and must demonstrate special aptitude and potential for a career in electrical engineering.

Link Manufacturing, Ltd. Technical Scholarship This \$1000 scholarship is available for students majoring in mechanical engineering. A recipient can be a third-, fourth-, or fifth-year student at Dordt College. Applicants must be in good academic standing and demonstrate good leadership skills and maturity in both academic and extracurricular activities. A personal interview with the president and general manager of Link Manufacturing is required during the selection process. The availability of this scholarship is dependent on annual funding.

The Vermeer Engineering and Computer Science Intern Scholarships These scholarships are available for computer science, Management Information Systems or engineering majors who have successfully completed or are currently enrolled in a formal internship program. Recipients must be classified as junior or senior students for the year they receive this scholarship.

Martin Seven English Scholarships Two \$450 scholarship awards are given annually to students majoring in English.

Mike Vanden Bosch English Scholarship One \$600 scholarship is awarded each year to an English major who is in the teacher education program and intends to pursue a career as an English teacher. The recipient must have a minimum cumulative GPA of 3.00 and must be a full-time student entering the junior or senior year.

The Louis and Tina Van Dyke History Scholarship This \$700 scholarship is available for a junior or senior student who is majoring in history and has a grade point average of 3.30.

Martin Seven Classics Scholarship This \$600 scholarship is available for students who major in one or more of the following areas: history, philosophy, theology, or individual studies. A minimum cumulative grade point average of 3.00 is required.

Nick R. Van Til Scholarship This scholarship of \$700 is awarded to a junior history, philosophy, or theology major. Recipients are selected on the basis of grade point average, general academic interest, competence, academic potential, life goals, and financial need. Recipients must have a minimum grade point average of 3.30.

The Steensma Music Scholarship This \$600 scholarship is available for a Dordt College student majoring in music. Applicants must have a 3.00 minimum cumulative grade point average. Selection criteria includes scholarship, leadership character and Christian commitment.

Jack Grotenhuis Memorial Scholarship This \$350 scholarship is awarded to a student who is specifically interested in studying voice with the music department. Applicants do not have to be music majors and can be freshmen, sophomore or junior class status. The availability of this scholarship is dependent on annual funding.

Joe J. Dahm Memorial Music Scholarships Three \$125 awards are given to a sophomore, a junior, and a senior based on music scholarship and contribution to the music program at Dordt.

Ringerwole Organ Scholarship This \$700 scholarship is available for a full-time Dordt College student who desires to continue studying organ music performance. Applicants will be required to play a selected list of works for a jury examination committee, and the recipient will be required to take organ lessons from a Dordt College faculty member for both semesters in which the Ringerwole Organ Scholarship monies are awarded.

Bloemendaal Organ Scholarship One \$300 scholarship is awarded each year to a student entering the sophomore, junior or senior year, who shows Christian commitment and contribution to church organ music programs as well as the Dordt College organ music program. The recipient need not be a music major; however, a minimum cumulative GPA of 2.50 is required. The availability of this scholarship is dependent on annual funding.

The Jill Vander Zee Memorial Scholarship This \$700 scholarship, funded in memory of Jill Vander Zee, daughter of Professor Delmar and Lois Vander Zee, is awarded to a Dordt College student with a major or minor in an area of music or art. Applicants must have a 3.00 minimum cumulative grade point average.

Joe's Ready Mix, Inc. Scholarship This \$600 scholarship is available to students majoring in agriculture or agri-business. Applicants must be full-time Dordt College students with a 3.00 minimum grade point average.

Martin Seven HPER Scholarship A \$500 award is given annually to an outstanding HPER (Health, Physical Education, Recreation) major.

Minnie Julia Dahm Scholarships for Medical Technology Students Two \$400 awards are given annually. All medical technology students are eligible to apply, but preference will be given to applications from students who will be entering their junior year. Recipients must have a minimum grade point average of 3.00 and must demonstrate an understanding and application of Christian principles.

Minnie Julia Dahm Scholarships for Premedical Students Two \$400 awards are given annually. All premedical students are eligible to apply, but preference will be given to applications from students who will be entering their junior year. Recipients must have a minimum grade point average of 3.00 and must demonstrate an understanding and application of Christian principles.

Al Mennega Honors Scholarship One \$700 scholarship is awarded each year to a student who is in a premedical or related health care professional program at Dordt College. Special consideration will be given to applicants who show strong aptitude and motivation for service in medicine, dentistry and optometry. The recipient must have a minimum cumulative GPA of 3.00 and must be entering the junior or senior year.

The Talsma Memorial Premedical Scholarship Two \$1500 scholarships are available for sophomore or junior premedical students with a minimum cumulative grade point average of 3.50. A student may apply and receive this scholarship for more than one year.

Chris E. Haan Memorial Scholarships for Preseminary Students Several \$500 or \$1000 scholarships are available for students in the preseminary program who have a minimum GPA of 3.00. These scholarships can be renewed provided the recipient remains in good standing in the preseminary program.

Dordt College Social Work Scholarship This scholarship of \$400 is awarded annually to a social work major. Recipients are selected on the basis of grade point average, financial need, general academic interest, and commitment to the field of social work. The recipient must have a minimum cumulative GPA of 3.00.

The Jeffrey A. Alons Theatre Arts Scholarship This \$600 scholarship is for a student pursuing a theatre arts area of study, although not necessarily a theatre arts major. Academic success will be considered, but potential and participation in theatre arts will be more important than grade point average. Application can be made by freshmen, sophomores or juniors.

The James Koldenhoven Theatre Arts Scholarship This \$700 scholarship is for a student pursuing a theatre arts area of study, although not necessarily a theatre arts major. Academic success will be considered, but potential and participation in theatre arts will be more important than grade point average. Application can be made by freshmen, sophomores or juniors.

Dordt College Study Abroad Scholarships Several scholarship awards of varying amounts are available for worthy students who have been accepted for Dordt's study-abroad programs in The Netherlands, Germany, Mexico, Spain, and Costa Rica. The application deadline for spring semester study-abroad scholarships is November 15. The deadline for fall semester study-abroad scholarships and the summer Mexico scholarships is April 15.

The Foreign Candy Company Scholarships Several scholarship awards of varying amounts are awarded to academically qualified students to enable them to study in a foreign country. Recipients are selected on the basis of financial need, academic ability, and commitment to international education. The application deadline for spring semester study-abroad scholarships is November 15. The deadline for fall semester study-abroad scholarships and the summer Mexico scholarships is April 15.

Summer Ministries Scholarships This scholarship is offered to students who desire to do mission work during the summer and therefore are not able to finance their education with normal summer employment. The maximum amount granted per student will be \$1000. Applications are due March 15 and awards will be made April 15.

The Academic Program

Dordt College offers a wide variety of programs and majors for students wishing to earn a bachelor's degree. Dordt College also awards associate of arts (A.A.) degrees. These two-year programs offer a wide range of educational options through professionally and occupationally designed programs, or through a flexibly designed two-year sequence of relevant courses and educational experiences. Also available is a master of education degree.

Advising

An academic advisor is assigned to each student. Because of the variety of educational opportunities available at Dordt College and alternative ways of achieving graduation requirements, students must confer with their advisor regularly to plan their academic program. The Academic Coordinator for International and Minority Students will make contact with international, ESL, and minority students so that these students can benefit from ongoing advising concerning their academic progress and so that the Dordt community can benefit from these students' unique experiences and insights. Career planning assistance from qualified personnel is available to help students select courses that will prepare them for service, vocations, or further schooling.

Residence Requirement

A minimum of eight semesters of full-time college study is required for the bachelor's degree and four semesters for the associate's degree. A maximum of eight credits ($\frac{1}{2}$ of a typical full-time semester) of overload work will be applied toward the residence requirement (see the section relating to student load on page 66). Requests for an accelerated program are based upon equivalent residency for approved transfer or summer study and must be submitted to the registrar at least one year prior to graduation.

A minimum of 30 credits shall be earned in residence at Dordt College. A minimum of six credits from upper-level courses in the major and nine credits from the general education curriculum must be completed in residence at Dordt College. If only 30 credits are earned at Dordt College, the credits normally shall be earned in full-time residence during the final academic year. Nontraditional students may be granted exception to the full-time residency requirement by the Curriculum and Academic Policies Committee.

Under normal circumstances, the final 30 credits toward the Dordt College degree shall be completed at Dordt College or in an off-campus program sponsored by Dordt College. Students may request special permission from the registrar to complete final credits at another college. Up to 30 credits may be granted if a minimum of 90 Dordt College credits has been completed; up to 15 credits may be granted if a minimum of 60 Dordt College credits has been completed. These credits

normally are taken at four-year colleges or universities. Permission is not automatic but is contingent upon the rationale of the request. A maximum of 12 of the final 30 credits or 6 of the final 15 credits earned off campus may be applied to the student's major requirements with written approval from the major department. Appeals may be submitted to the Curriculum and Academic Policies Committee.

Assessment

Dordt College places a high value on student learning. To assure that student learning goals are accomplished and to provide the best possible learning environment Dordt College has established a comprehensive assessment program. We are dedicated to evaluating the quality and effectiveness of all facets of student learning, including basic skills, the general educational program, and academic majors and programs. Some of the assessment activities are scheduled into the academic calendar at times outside of regular courses, and others are embedded in courses or departmental meetings.

The purposes of assessment are threefold: (1) to help students gain insight concerning their own learning; (2) to help the college gain a better insight into the process of student learning and the learning needs and concerns of students; and (3) to inform decisions about possible changes to improve student learning in courses or programs. In other words, assessment is for the benefit and improvement of the student's education.

Students are required to participate in several assessment activities. Baseline data will be collected at the freshman level and additional assessment will occur throughout the student's academic career. The number and type of assessment activities will vary slightly from student to student and year to year.

Freshman Orientation

The freshman orientation program introduces beginning college students to the task and calling of the Dordt College student through learning experiences in the areas of goal-setting, self-assessment, advising, campus life, learning skills and abilities, institutional expectations, available resources, and building community. In addition to freshman orientation days at the beginning of the fall semester, this program includes peer counseling and targeted academic skills support during the first semester of college. Freshman students must plan on arriving on campus on Saturday, August 26, 2000 for the freshman orientation program.

Master's Degree

Dordt College offers a graduate program in education with a concentration in curriculum and instruction that leads to a master of education degree. The program is a ten-course sequence that can be completed on a part-time basis in as few as three summers. Additional information on the master's program is contained in the graduate academic bulletin, which can be obtained from the graduate education office.

Bachelor's Degrees

Degree Types Bachelor's degree recipients will earn one of the following degrees:

Bachelor of Science in Engineering

Engineering majors

Bachelor of Social Work

Social Work majors

Bachelor of Arts

Most students will receive this degree

Bachelor of Arts, elementary education major

Elementary education teachers

Bachelor of Arts, secondary education

High school teachers

Bachelor of Arts, medical technology major

Awarded by Dordt College following completion of a program of study that includes a final year of study off-campus, typically at a hospital-administered medical technology program

Graduation Requirements The formal requirements for graduation with a bachelor's degree are the following:

1. A minimum grade point average of 2.00 (4.00 scale) in courses taken at Dordt College.
2. A minimum of 124 credits. In meeting this requirement, students must fulfill the general education requirements, complete a major, and in many cases, take elective or professional courses.
3. Eight semesters of full-time study or its equivalent. (See residence requirement, p. 43).
4. Participation in freshman orientation and the freshman, junior, and senior assessment program.

General Education General education courses constitute the core curriculum required of all Dordt College students. The core curriculum plays a crucial role in the integration of subject matter through which Dordt College seeks to reflect the wholeness of God's creation.

This integration goes beyond giving students a common educational experience. It is particularly in these courses that students are introduced to the character and scope of Christian perspective and that they learn to think more critically about choices and decisions affecting their lifestyle.

Courses in the core curriculum are meant to provide insight into the nature and demands a contemporary Christian living, whatever one's specific calling. This cannot be accomplished without a sufficient understanding of how various aspects of contemporary life are interrelated and how our global culture has developed. Philosophical and historical knowledge are important in this regard.

General education courses also supply students with the basic quantitative, analytic, lingual, and physical skills essential to the program overall and to their tasks as citizens of God's kingdom.

General education requirements for the B.A. degree include proficiency requirements plus 14 courses.

General Education Course Requirements (14 courses)*Health, Physical Education, Recreation (HPER) Requirement*

Each student must complete HPER 10 and three activities courses, one course from 20-29, one from 30-39, and one from 40-49.

Mathematics Proficiency Requirement

Non-teacher education students may demonstrate proficiency by one of the following:

- 1) A percentile ranking of 70 or higher on the mathematics section of the ACT or SAT I
- 2) Passing a comprehensive mathematics skills test with a score of 70%. Those who score from 61% to 69% may retake the test once, but then must score at least 75% to pass.
- 3) Completion of any three- or four-credit mathematics course at the college level. If a college course is taken to meet the requirement, it may be applied toward meeting the 124-credit graduation requirement.

Teacher education students must take at least one three- or four-credit mathematics course. Elementary education students must take Mathematics 108. Secondary teacher education students should take Mathematics 106, 107, 110, or 111; those taking the middle school endorsement must take Mathematics 109.

Communication, Language/Cross-Cultural, Literature Requirement (4 courses)

English 101	1
English 200	1
Communication 110	1
Foreign Language 201 or Approved Cross-Cultural credit	1

The language requirement may be met by taking a foreign language 201 course or Linguistics 201. Three or more years of high school foreign language also meet the requirement.

Prerequisites for the above courses:

- a. Two semesters of college foreign language or its equivalent. One year of high school foreign language is equal to one semester of college foreign language.
- b. For Foreign Language 201, the prerequisite must be in the same language. For Linguistics 201, the prerequisite courses may be in different languages.

The Cross-Cultural requirement may be met by:

1. Completing an approved cross-cultural course
 - a. Gen 211-230: on-campus cultural survey courses
 - b. Gen 231-250: on-campus courses focusing on one specific culture
 - c. Gen 251 and above: off-campus cross-cultural immersion experiences
2. Completing an approved, semester-long cross-cultural program (e.g., N-SPICE)
3. Satisfactorily completing three or more years of high school foreign language study with grades no lower than C in the final year, plus one of the following:
 - a. Providing evidence of having had an appropriate pre-college cross-cultural experience
 - b. Participating in an approved cross-cultural experience sometime during college.
4. Participation in an extensive cross-cultural experience evaluated and approved by

the Coordinator of Academic Services for Minority and International Students and the Director of Off-Campus and Cross-Cultural Programs prior to college such as:

- a. International and ESL students required to take the entrance interview (see page 21 on admissions of International students); attendance at Dordt College
- b. Minority Students: significant involvement and schooling in a North American subculture
- c. Majority Students: significant involvement in a non-English speaking culture or a culture substantially different from a predominately white North American culture.

Arts Requirement (1 course)

General Education 200 (Introduction to the Arts) 1

Natural Science Requirement (2 courses)

Biology 101 or 102 1

Physical Science 107 or 201 1

Students who have had a good high school background in the sciences or who are in science programs or majors may choose from one of the following sequences:

- | | |
|---|--------------------------|
| a. Agriculture 101 and 111 | e. Astronomy 121 and 122 |
| b. Biology 115 and 122 | f. Chemistry 101 and 102 |
| c. Biology 201 and 202 | g. Chemistry 103 and 104 |
| d. Environmental Studies 151 and
any other science course except
Biology 102. | h. Physics 115 and 116 |
| | i. Physics 201 and 202 |

If a student begins one of the sequences a-d but does not choose to complete that sequence, the student must complete the science requirement by taking Physical Science 107 or 201. Similarly, if a student begins one of the sequences e-i but does not complete it, the student must take Biology 101 or 102.

NOTE: Teacher education students must take one course from the biological sciences and one course from the physical sciences. Environmental Studies 151 may replace the biological science course.

Social Science Requirement (2 courses)

Psychology 201 or Sociology 201 1

(Psychology 205 may be taken by students in education)

Economics 200, 202, 203, or Political Studies 201 1

History, Philosophy, Theology Requirement (4 courses)

History 100 1

Philosophy 201 1

Theology 101 1

One from History 212-214, Philosophy 206, 320, 333, 350, Theology 201, 204, 348 .. 1

General Education Requirement (1 course)

General Education 300 (Calling, Task, and Culture) 1

Majors To earn a bachelor's degree from Dordt College, a graduate must complete one major, a sequence of at least 10 courses in a subject area. Following are the majors available at Dordt College. Note that (G) indicates majors available in the general B.A. degree [or in the cases of the engineering and the social work majors, the B.S.E. or B.S.W. degree]; (S), in the B.A. degree in secondary education; and (E), in the B.A. degree in elementary education.

Accounting (G)**Agriculture**

Agriculture Emphasis (G)

Agri-Business Emphasis (G)

Animal Science Emphasis (G)

Plant Science Emphasis (G)

Art

Art (E) (S)

Fine Arts Studio Emphasis (G)

Graphic Design Emphasis (G)

History Emphasis (G)

Biology (G)(S)

Biology/General Sciences (S)

Business Administration

General Business (G)

Information Systems Emphasis (G)

Public Administration Emphasis (G)

Business Education

Business - General (S)

Business - Marketing Management (S)

Business - Office (S)

Chemistry (G) (S)

Chemistry/General Science (S)

Chemistry/Physics (S)

Communication

General Communication (G)

Journalism Emphasis (G)

Human Resources Emphasis (G)

Public Relations Emphasis (G)

Radio-Television Emphasis (G)

Speech Emphasis (G)

Speech Communication/Theatre (E) (S)

Computer Science

General Computer Science (G)

Hardware Systems Emphasis (G)

Information Systems Emphasis (G)

Systems Administration Emphasis (G)

Dutch (G)**Elementary Education (E)****Engineering**

Electrical Emphasis (G)

Mechanical Emphasis (G)

Engineering Science

General Engineering Science (G)

Agriculture Emphasis (G)

Business Administration Emphasis (G)

Chemistry Emphasis (G)

Computer Emphasis (G)

Physics Emphasis (G)

English

Literature Emphasis (G)

Writing Emphasis (G)

English/Language Arts Emphasis (E) (S)

Environmental Studies

Biotic and Physical World Emphasis (G)

Human Social Structures Emphasis (G)

General Science (G)

Science - Basic (E)

German (G) (E) (S)**Health, Physical Education, Recreation**

Exercise Science Emphasis (G)

Physical Education Emphasis (G) (E) (S)

Recreation Emphasis (G)

History (G) (E)

American & World Emphases (S)

World Emphasis (S)

Individual Studies (G)**Mathematics (G) (E) (S)****Music (G) (E) (S)**

Church Music Emphasis (G)

Performance and Pedagogy Emphasis (G)

Choral Music Education (S)

Instrumental Music Education (S)

Choral/Instrumental Music Education (S)

Philosophy (G)**Physics (G) (S)**

Physics/General Science (S)

Political Studies (G)

Psychology (G)	Theatre Arts (G)
Social Studies (G) (E)	Theology
Social Work (G)	General Theology (G)
Spanish (G) (E) (S)	Youth Ministry Emphasis (G)
Special Education Multicategorical (E) (S)	

Major and Cognate Courses (10 - 30 courses)

B.A. General 10 - 30
Students pursuing the general B.A. degree can find the sequence of courses for the major of their choice at the beginning of each department-area section in the "Academic Offerings" section of the catalog.

B.A. Secondary Education 10 - 15
Requirements for teaching majors, minors, and endorsements may be found in the "Teacher Education Program" section on pages 100-115 of the catalog.

B.A. 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 100-115 of the catalog.

NOTE: A maximum of six credits in the major field may also be used to meet general education credit requirements—the number of credits required in the elective/professional category will be increased by the number of "overlap" credits.

Electives, Minors, and Professional Courses Students may choose elective courses that complement their majors or that arise out of a special interest. Students earning a general B.A. degree must take as many elective credits as needed to meet the 124 credit requirement, after meeting the general education and major requirements. In certain subject areas a minor of fifteen to twenty-one credits may be earned.

Students earning the B.A. degree in elementary or secondary education should consult the "Teacher Education Program" section on pages 100-115 of the catalog for information regarding elective and professional credits.

Following are the minors available at Dordt College. Note that (G) indicates minors available in the general B.A. degree, (S), minors in the B.A. degree in secondary education, and (E), minors in the B.A. degree in elementary education.

American Government (S)	Mathematics (E) (S)
American Studies (G)	Missions & Evangelism (G)
Art (E) (S)	Music
Biology (S)	Church Music (G)
Business Education	Music Performance (G)
Business - General (S)	Music (E)
Business - Marketing/Management (S)	Physical Science (S)
Business - Office (S)	Physics (S)
Chemistry (S)	Planetary Science (G)
Communication	Political Studies (G)
Journalism (S)	Public Administration (G)
Speech (E) (S)	International Affairs (G)
Computer Science (E) (S)	Psychology (S)
Dutch (G)	Reading (E)
Economics (S)	Science - Basic (E)
English as a Second Language (E) (S)	Social Studies (E)
English/Language Arts (E) (S)	Sociology (G) (S)
General Science (S)	Spanish (G) (E) (S)
German (G) (E) (S)	Special Education Multicategorical (E) (S)
Health, PE, Recreation	Theatre Arts (G)
Health (E) (S)	Theology
Physical Education (G) (E) (S)	Bible (S)
Recreation (G)	Bible Education (G)
History (E)	Missions and Evangelism (G)
American (S)	
World (S)	

B.A. Degree in Medical Technology Dordt College offers a specialized degree in medical technology, which includes three years (30 courses) of work at Dordt College, followed by one year of clinical education in an approved school of medical technology. In addition to the general education courses required for the B.A. degree, medical technology students will take a sequence of courses prescribed by the Registry of Medical Technologists. More information is available on page 153 of this catalog and from the medical technology advisor.

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 members 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 specific requirements of the graduate school that the student plans to enter. The placement office maintains a file of graduate school catalogs that may be used by faculty members and students.

Preprofessional Programs Students wishing to prepare for professional schooling may enter one of the following programs:

Predental	Preoccupational Therapy	Prephysical Therapy
Prelegal	Preoptometry	Preseminary
Premedical	Prepharmacy	Preveterinary
Prenursing		

All of these programs except prenursing lead to the B.A. degree and prepare the student for graduate-level studies. Students interested in a career in nursing may transfer to a nursing school following one or more years of preparatory study at Dordt. Students in preprofessional programs normally complete one major at Dordt. Preprofessional programs do not mandate any specific major. Students should work closely with the program advisor to plan a course of study and select a major that will adequately prepare them for the professional school(s) of their choice.

Predentistry Program Dr. Edwin J. Geels, Program Advisor

A career in dentistry involves detection of diseases; diagnosis, treatment, and prevention of problems affecting teeth and mouth tissue; aesthetic improvement; surgical restoration; and public education and prevention. Most dental schools require three or four years of college before admission to the dental school. Prerequisite courses for admission typically include: general chemistry (2 semesters), organic chemistry (2 semesters), biochemistry (1 semester), physics (2 semesters), English (2 semesters), biology (2 or 3 semesters in zoology, embryology, comparative anatomy), psychology (1 semester).

Since required courses vary from one dental school to another, the student is advised to check requirements of specific schools early in his or her career.

Prelegal Program Mr. Donald E. King, Program Advisor

This program is designed as an advisory tool to assist students who are considering or planning to attend law school. Since law schools do not have any specific academic course requirements for admission, a broad liberal arts program, including a major and selected electives, provides the most appropriate preparation. Law schools are looking for college graduates who demonstrate leadership, exemplify strong character, and possess well-developed writing and analytical skills.

At Dordt, prelaw students receive a B.A. degree with a major in political studies, history, English, social work, psychology, philosophy, or business administration, depending on their interests. In addition, many students participate in an off-campus program that enables them to serve as an intern and gain experience in legal practice. They are also advised on a range of electives to expand their critical thinking, writing, and analytical perspective, and help prepare them for the Law School Admission Test, required for entrance to an accredited law school. They are not required prelaw courses, but Dordt offers courses in American constitutional law and business law that offer a beneficial context for the later pursuit of legal studies.

Premedicine Program**Dr. Carl Fictorie, Program Advisor**

Medicine is a health profession with many different aspects, all of which aim to help sick people to get well, from newborns to people in old age. While there are many specialties one can aspire to, the first goal of premedical students is to prepare for medical school. To do so each student must complete a major (any major is acceptable) and meet both general degree requirements and specific requirements for medical school entrance. Most medical schools require completion of a B.A. degree, with two years of biology, two years of chemistry, one year of physics, a semester of calculus and one course in advanced expository writing. The remainder of the courses needed for graduation are electives. Particular course requirements for specific medical schools should be determined at an early stage.

During the junior or senior year, premedical students are required to take the Medical College Admissions Test. It is recommended that a student achieve a cumulative grade point average of at least 3.50, be involved in a number of co-curricular activities, show good communication skills, and have a well-rounded background for dealing with people of all walks of life.

Prenursing Program**Dr. Anthony Jelsma, Program Advisor**

In order to meet the challenges of modern day nursing, it is recommended that prenursing students complete the four-year bachelor of science in nursing degree. Dordt College has affiliations with several nursing programs where our students transfer without losing transfer credits. Upon completion of two years of specific prenursing requirements, students transfer into the junior year of an accredited school of nursing where, after two years of further studies, the B.S.N. degree is conferred. The graduate then becomes an R.N. by passing state board exams.

Students at Dordt College should carefully select the courses that meet the requirements of the nursing program that they hope to transfer to at the end of their sophomore year. In the first semester at Dordt College these requirements should be obtained from the prenursing advisor or from the target nursing school.

Courses that are required for nearly all nursing programs include two semesters of human anatomy and physiology, microbiology, two semesters of chemistry, three semesters of psychology, and several general education courses such as English and history. Specific course requirements must be met before transfer to the nursing program can be made.

Preoccupational Therapy Program**Dr. Mark Christians, Program Advisor**

Occupational therapy is the health profession that uses everyday activities as the means of helping people to achieve independence. A variety of rehabilitative, educational, social and vocational activities is used to treat adults and children with disabilities resulting from physical injury, disease, developmental delays, aging, and psychological dysfunctions. Occupational therapists help individuals to adapt or improve performance in areas of work, school, independent living or play. The goal for all patients is to attain the maximum level of independence and productivity possible.

Although Dordt does not offer a professional degree or major in occupational therapy, an

excellent preprofessional program is available that prepares the student for subsequent professional education. A student may complete a B.A. degree at Dordt along with the preoccupational therapy program of study and then apply for admission to an occupational therapy program. Information is available in the career development office relating to specific requirements of graduate schools. Certification as an occupational therapist is based on graduation from an approved occupational therapy program and acceptable performance on the American Occupational Therapy examination.

Appropriate majors for students interested in a career in occupational therapy include psychology, biology, or health, physical education and recreation. A foundation in biology (introduction to biology, anatomy and physiology) and psychology (introductory, abnormal, developmental, personality) is required. Additional requirements include other introductory science courses, humanities courses (English composition), mathematics, and other courses that vary from program to program.

Preoptometry Program Dr. Edwin J. Geels, Program Advisor

Doctors of optometry are the major providers of vision care. As independent primary health care providers, they examine, diagnose, treat and manage diseases and disorders of not only the eyes, but the entire visual system. Optometrists work with other health professionals in co-managing a patient's care. Most optometry schools require four years of college before admission to the optometry school. Prerequisite courses for admission include general chemistry (2 semesters), organic chemistry (2 semesters), calculus (1 or 2 semesters), physics (2 semesters), biochemistry (1 semester), anatomy (1 semester), microbiology (1 semester), statistics (1 semester), psychology (1 semester).

Since particular course requirements for admission to specific optometry schools can vary, students are urged to contact the schools for these requirements early in their college career.

Prepharmacy Program Dr. Edwin J. Geels, Program Advisor

Pharmacy is a profession which cares for patients' drug-related needs in community pharmacies, hospitals, long-term care facilities, and home health care settings. Many pharmacy programs include two years of prepharmacy college courses followed by four more years of a pharmacy program leading to a doctor of pharmacy degree.

Although particular course requirements for admission to specific pharmacy schools vary and should be determined at an early stage, the following courses are generally required: general chemistry (2 semesters), organic chemistry (2 semesters), physics (2 semesters), general biology (1 semester), microbiology (1 semester), anatomy (1 or 2 semesters), economics (1 semester), calculus (1 or 2 semesters), communication (1 semester), English composition (1 or 2 semesters). Some schools also require the Pharmacy College Admissions Test (PCAT) to be taken.

Prephysical Therapy Program Dr. Tom Visker, Program Advisor

Physical therapy is a health profession whose primary purpose is the promotion of optimal

human health and function through the application of scientific principles to prevent, identify, assess, correct, or alleviate acute or prolonged movement dysfunction.

Although Dordt does not offer a professional degree or major in physical therapy, an excellent preprofessional program is available that prepares the student for subsequent professional education. A student may complete a B.A. degree at Dordt along with the prephysical therapy program of study and then apply for admission to a physical therapy program. Information is available in the career development office relating to specific requirements for graduate schools. Licensure as a physical therapist is based on graduation from an approved physical therapy program and passing a licensure examination.

A student may select any major but the following preprofessional courses must be completed: biology (zoology, human anatomy and physiology, biology electives), general chemistry, general physics, general psychology, abnormal psychology, mathematics (elementary statistics, college algebra or calculus). Additional courses may be required depending on the graduate program a student applies to.

Preseminary Program Dr. Wayne A. Kobes, Program Advisor

Although Dordt College does not offer a preseminary major, an excellent preprofessional program is available that prepares the student for graduate work in a seminary. As is the case with students planning to enter medical or law school, any major that meets the entrance requirements of the particular graduate school or seminary chosen by the student is suitable. Breadth of interest in the liberal arts is important for one who must constantly deal with the wide spectrum of changes occurring in our lives. Courses in history, philosophy, literature, and social sciences provide this type of base from which to assess the current scene. Courses in the languages of the Bible as well as modern foreign languages equip the prospective minister to handle the biblical text and read current and classical theological works in their original form.

Dordt College not only provides majors in relevant fields for those planning to enter a theological seminary, but also provides a solid program of courses in New Testament Greek. Faculty members stand ready to advise preseminary students regarding the selection of a major and of individual courses in light of the requirements of the seminary the student hopes to attend. There is also an active program of discussions and socials for those in the preseminary program.

Preveterinary Program Mr. Duane Bajema, Program Advisor

Veterinary medicine is an animal health profession that is dedicated to protecting the health and welfare of people and animals. Veterinarians are primarily animal doctors, highly educated and skilled in preventing, diagnosing, and treating animal health problems. Veterinarians work in private practice with both large and small animals, or in research, public health, the military, regulatory agencies, and zoos.

Dordt College does not offer a degree in veterinary medicine but does offer an excellent preprofessional program that prepares the student for subsequent professional education. A student may complete the requirements for admission to veterinary school at Dordt College. Students may complete a bachelor's degree at Dordt or may select those courses at Dordt that are

specified as requirements for admission by the school of veterinary medicine. Students are strongly encouraged to contact the professional school of choice to learn their requirements for admission.

Dordt's agriculture program provides courses that will complement the professional program requirements. The college also works with many local veterinarians, pharmaceutical companies, and professionals involved with animal health to provide students with professional experience that is often required by schools of veterinary medicine.

Students should follow the guidelines suggested by the school of veterinary medicine of their choice, usually in their home state or province. Students can major in biology, animal science, chemistry, or agriculture while at Dordt College.

Associate of Arts Degree

The formal requirements for graduation with an associate's degree are:

1. A minimum of 61 credits. In meeting this requirement, A.A. students must take general education requirements, complete requirements for an area of concentration, and may also take elective courses.
2. A minimum grade point average of 2.00 (4.00 scale) in courses taken at Dordt College.
3. A minimum of 30 credits earned at Dordt College. A student may not receive both the A.A. and B.A. degrees at the same commencement. However, credits earned in obtaining the A.A. degree may be applied toward the B.A. degree at any time.
4. Participation in the freshman orientation and assessment programs.

Distribution Requirements The following outline of requirements may be changed slightly for individual programs. Students should confer with their advisor regularly to plan their program. Career planning assistance from qualified personnel is available to help students select courses that will prepare them for service, vocations, or further schooling.

General Education (8 courses) Please read the information on page 46 about the purpose and nature of general education courses.

A writing course 1

Any course from English 101, 301, 302, 303, 304, 305, Communication 241.

History (any course) 1

Theology or Philosophy (any course) 1

Science 1

Any course from the agriculture, astronomy, biology, chemistry, physical science, or physics offerings.

Mathematics or Computer Science (any course) 1

This requirement may be waived if the student has one of the following:

- a. A percentile ranking of 70 or higher on the mathematics section of the ACT or SAT I.
- b. A passing score on a comprehensive mathematics skills test.

Humanities 1
Any course from the art, English, music, theatre arts, or General Studies 200 offerings; or any foreign language/linguistics course.

Social Sciences 1
Any course from the economics, political studies, psychology, sociology, or social work offerings.

Elective 1
One additional course from any of the categories listed above.

Health, Physical Education, Recreation (HPER) 10

Area of Concentration (6 - 12 courses) Each student must choose an approved area of concentration. Course sequences for the various areas of concentration may be found in the "Academic Offerings" section of the catalog:

Agriculture - page 72

Data Processing - page 95

General Studies - page 137 (The general studies concentration allows a wide variety of options).

Secretarial Science - page 87

Special Education Aide, Teacher Aide - page 115

Elective Courses (0 - 6 courses) These courses are to be selected by the student to meet individual needs and goals.

- a. A second area of concentration may be worked out.
- b. Cognate courses may be selected to support the area of concentration.
- c. Additional courses in the area of concentration may be selected.
- d. Courses that explore alternate career options may be selected.
- e. A wide distribution of courses may be chosen to provide a broad general background.

Individual Studies

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 their goals clearly and specifically; 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 B.A. 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 that goes beyond what a student can normally accomplish within the elective course options. Therefore, the student must submit, in writing, a 124-credit sequence that makes a unified program. It will be the student's responsibility to specify why each course has been selected and to demonstrate how each course applies to the goal articulated for the individual studies major. The 124-credit sequence must include courses that meet the 44-credit general education requirement; a 45-credit major program that will ensure depth of understanding and performance in the special area selected; and 35 elective credits, each carefully selected to contribute to the special area of study.

Students who wish to plan an individual studies major should see the registrar to discuss the specific requirements and application procedures (minimum requirements are 30 credits and a cumulative grade point average of 2.50 or better). The registrar will assign a faculty member to assist the student in writing a 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, and 393 courses are offered by many departments to provide properly qualified students the opportunity to do intensive work in a subject nor normally included in the regular course offerings or to pursue in depth a topic encountered as part of previous studies, or to engage in experiential education projects. 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, service-learning, 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 registrar's office. 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 registrar for approval by the deadline for adding courses.

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 registrar for permission to register for Individual Studies or General Education 391, 392, or 393.

Individual studies courses are governed by the following policies:

1. Individual studies courses may have 1-3 credits. (391- one credit, 392 - two credits, and 393 - three credits)
2. Second semester freshmen and sophomores may take 391 courses, juniors and seniors 391, 392, and 393 courses. (Exceptions may be granted by the registrar)

3. A student must have a cumulative grade point average of at least 2.00 to enroll in 391 and 2.25 for 392 and 393.
4. A maximum of nine individual studies credits may be applied to the B.A. degree; a maximum of four credits to the A.A. degree.
5. Students may enroll in a course more than once. For example, a student may enroll in BUAD 391 or 392 or 393 more than once. Not more than four individual studies credits may be taken in a semester.
6. Normally, an individual studies course should be completed in the semester of enrollment, but with advance notice the course may be spread over the first and second semesters of the year. Register for the course only in the semester that the course will be completed.
7. Individual studies courses 392 and 393 are open to students who have had extensive previous course-work in the department.

Off-Campus Study

Dordt College Program

Netherlandic Studies Program in Contemporary Europe Dordt College offers an opportunity to spend the spring semester off-campus in The Netherlands in a unique learning situation, while earning credit toward graduation.

Applicants need a 2.50 grade point average. Also recommended is a course 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 Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

January 22 to May 18

The first three weeks of the program will be focused on an intensive Dutch language course. Based upon the results of an entrance test students will be enrolled in 259 and one from 103, 203, or 391.

DUTCH 103	Beginning Dutch	3.0
DUTCH 203	Intermediate Dutch	3.0
DUTCH 259	Dutch Conversation	1.0
DUTCH 393	Individual Study (Dutch Literature or Composition)	3.0
	Dutch 393 offered on a limited basis.	

For the 12 week block of courses, students may choose three or four courses from the following:

ART 248	Dutch Art and Architecture	3.0
	Architecture and painting in the Low Countries, with emphasis on the 17th century, supplemented by museum visits and city walks. (Taught in English)	
DUTCH 248	Dutch Culture and Society	3 - 4
	A study of contemporary issues in a pluralistic society. This course will also	

	focus on the identity of the Dutch-speaking community as it enters a new era of economic and political affiliations within a larger European community. The course is supplemented by field trips and interviews with Dutch citizens and residents. Students will have the opportunity to include a service-learning project as a part of the course or in addition to the course. (Taught in English)
HIST 248	History of the Low Countries 3.0 A study of the history of the Netherlands and Belgium, from the Eighty Year War until the present. Also several visits to Dutch historical museums are included in the course. (Taught in English)
IND 393	Individual Studies 3.0 A mentored, student-directed intensive research/writing project in student's major area.
PHIL 201	Perspectives in Philosophy 3.0 An introduction to the nature, task, and basic problems of philosophy, its relationship to worldview, and a survey of its history. (Taught in English)
PSYCH 371	Field Experience 3.0 A practicum designed to provide an overview of the type of activities and professional services typically offered by human service agencies. Students will develop their interpersonal skills through direct contact with clients and have the opportunity to explore a variety of career paths and professional roles. Three hours of course credit is given for satisfactory completion of 120 hours total plus participation in field experience meetings and correspondence with coordinator. Participation on an approved basis.

Shared Sponsorship

Chicago Metropolitan Center Program Selected juniors and seniors may register for a semester in the Chicago Metropolitan Center Program, which is co-sponsored by Calvin, Central, Dordt, Hope, Northwestern, and Trinity Christian Colleges.

The Chicago Metropolitan Center offers students a distinctive opportunity to work in a large metropolitan city and to study problems and issues of metropolitan life in a fully accredited, educational program under the supervision of Trinity Christian College.

Students spend four days a week in an internship related to their academic major and career interest; they also participate in seminars one day per week at CMC's Loop Center. Fifteen hours of academic credit can be earned through the CMC Program. To achieve this number of credits, students must take the internship course plus two of the three seminars offered. See Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Calvin College Programs

Calvin College offers several off-campus programs that Dordt students may attend on a room-available basis. See Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms. These semester-length programs are in the following locations:

Study in China Students will have the opportunity to study both traditional and modern China, to experience life in its capital, Beijing, and to explore other areas of this fascinating country. Living and studying at the Beijing Institute of Technology allows students to interact with Chinese and foreign students, take advantage of the nearby National Library, sports facilities and parks, and visit important cultural and historical sites of the city. (fall semester)

Study in Britain at Oak Hill College, London A Christian college and theological seminary of the Church of England provides the context for learning which will allow North American students to see themselves in a Christian academic environment close enough to theirs to invite comparisons, yet different enough to cause creative rethinking of cultural and religious values. This program allows students to live and to study in a Christian community while engaging in a society markedly more "post-Christian" than North America. (spring semester)

Study in Honduras This program seeks to integrate faith commitment with academic study. The director will lead discussions, both formal and informal, which encourage students to think and to live as Christians in God's world. The Honduras study program is an effective combination of theory and practice. Students study development theory and Honduran history in class and put that theory to the test by observing life in their own Honduran family, by visiting U.S. banana plantations and seeing where the money from the plantation goes, and by carrying out an evaluation of a specific development program. (fall semester)

Study in Hungary at Technical University of Budapest The Hungary program is structured to live and study together as a Christian academic community in the midst of a society engaged in an intense conversation about the formation of culture. While doing so, students develop and mature by experiencing a situation different than the familiar, by learning under a variety of teaching styles, by encountering a new set of behaviors and beliefs, and by drawing from course offerings and academic expertise unavailable elsewhere. (fall semester)

Study in New Mexico at Rehoboth Christian School Native American society in the Southwest provides students with an exceptional opportunity to encounter an alternative culture. Through exploration in the life styles, art forms, history, and other features of Native American culture, students will achieve a degree of liberation from the insularity of their familiar culture and forcefully challenge stereotypical patterns of thinking. Students arrive at a deeper self-understanding and a greater respect for cultures other than their own. (fall and spring semesters)

Study in Spain at Universidad Nacional de Educación a Distancia in Denia, Spain Includes both a core program and an advanced program. In the core program, students can earn 16 hours of credit in Spanish language. Students who are accepted take a preparatory course in Spanish language and culture at Calvin during the Interim term. They live in Spain during the spring semester, and take four classes per day, four days per week, for fourteen weeks. The classes are in Spanish grammar, conversation, reading, writing, culture, and civilization. In the advanced

program, qualifying students may take 12 to 14 semester hours of coursework beyond Spanish 202. Students who are accepted to the program must also take the advanced preparatory course in Spanish Culture and Review of Grammar at Calvin during the Interim term. (spring semester)

Council for Christian Colleges and Universities Programs

American Studies Program The American Studies Program in Washington, D.C., draws students from Christian colleges throughout the United States. Students participating in the program spend a semester in the nation's capital attending academic classes, serving as interns in government and nongovernmental agencies, and living in a unique Christian community. The program is open to students majoring in any field. For more information and application forms contact Dr. Ken Bussema, Director of Off-Campus Programs.

China Studies Program While living and experiencing Chinese civilization firsthand, students participate in seminar courses on the historical, cultural, religious, geographical and economic realities of this strategic and populous nation. In addition to the study of standard Chinese, students will assist Chinese students learning English, allowing for one-on-one interaction. The program seeks to introduce students to the diversity of China, including Beijing, Shanghai and Xi'an. This interdisciplinary, cross-cultural program of study enables Christian students to deal with this increasingly important part of the world in an informed, Christ-centered way. Students earn 16 semester-hours of credit. For more information and application forms contact Dr. Ken Bussema, Director of Off-Campus Programs.

Latin American Studies Program The LASP, located in San Jose, Costa Rica, offers students a Christ-centered cross-cultural program to deepen the students' understanding of the lordship of Jesus Christ in an international context and to equip them for service in developing countries. The program offers a variety of tracks: Spanish Language, Advanced Language and Literature, International Business, and Tropical Science and Global Sustainability. Participation in the program is open to selected juniors and seniors with a minimum grade point average of 2.75 and at least one year of college-level Spanish courses. Students should contact Dr. Ken Bussema, Director of Off-Campus Programs.

Los Angeles Film Studies Program The program is intended to serve as an introduction to the work and workings of the film industry. It does not assume that students have had previous experience in film, but only that they have a desire to learn more about it. The LAFSP does not intend to be a substitute for film school, as its curriculum is designed to allow students exposure to the industry, to the many academic disciplines that might be appropriate to it, and to critical thinking and reflection on what it means to be a Christian in this field of endeavor. As such, the curriculum is balanced between courses of a theoretical nature and courses that offer students a more applied introduction to the world of film.

Participation in the program is open to selected juniors and seniors with a minimum grade point average of 2.75. Students should contact Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Middle East Studies Program Centered in Cairo, Egypt, the program provides the opportunity to study Middle Eastern peoples, cultures, language, and problems in their context, and introduces students to serving other people in the name of Christ. While on the program, students also tour historical sites, and spend three weeks in Israel.

Participation is open to selected juniors and seniors with a minimum grade point average of 2.75. No knowledge of Arabic is required. Contact Dr. Ken Bussema, Director of Off-Campus Programs for information.

Oxford Honors Program Honors and other highly qualified students of Council member institutions have the exciting opportunity to study in England through an interdisciplinary semester at Oxford University. The rigorous academic program, aimed at increasing critical-thinking skills and scholarship from an integrated Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature and philosophy. In addition to two Oxford tutorials, students participate in a seminar and an integrative course through which they produce a scholarly project or term paper. Field trips provide opportunities for experiential learning in England's rich historical setting. Students earn 16 semester-hours of credit. For more information contact Dr. Ken Bussema, Director of Off-Campus Programs.

Oxford Summer School – “The Renaissance and Reformation in Europe” The summer equivalent of the Oxford Honors Program allows students of Council member institutions to spend a summer term studying at the Centre for Medieval and Renaissance Studies (CMRS) of Keble College at Oxford University. The program includes multi-disciplinary study of the Renaissance and Reformation through examination of philosophy, art, literature, science, music, politics and religion of early modern Europe in a choice of lectures, seminars and field trips. Students earn 6 - 9 semester credits, which are administered directly to member institutions by CMRS. For more information and application forms contact Dr. Ken Bussema, Director of Off-Campus Programs.

Russian Studies Program A semester of learning in Russia centered in Moscow, Nizhnii Novgorod and St. Petersburg. Students have the opportunity to study Russian language, history, culture and current events “on location.” Participation is open to selected juniors and seniors with a minimum grade point average of 2.75. No knowledge of the Russian language is necessary. Students should contact Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Summer Institute of Journalism The Summer Institute of Journalism (SIJ), sponsored by the Council for Christian Colleges and Universities, provides intensive, on-site training for journalism students from the Coalition's 90-member colleges. Students spend four weeks in May and June in Washington, D.C., engaged in seminars and field trips with media personnel and communication professors, and practice the craft of journalism by newsgathering and reporting for papers in their hometown or college community.

Entry into the program is competitive. Each member college is allowed to nominate two well-prepared and motivated journalism students, and from these nominations only 15 are chosen to take part in SIJ. The program is subsidized so students incur only a \$250 registration fee. All other costs, including tuition, room and board, are covered. For information contact Dr. Ken Bussema, Director of Off-Campus Programs.

Other Approved Programs

Au Sable Institute of Environmental Studies Dordt is one of 38 Christian colleges participating in the summer environmental studies programs offered by the Au Sable Institute. The Au Sable Institute has five locations: in the Great Lakes Forest near the middle of the North American Continent; at Puget Sound on the edge of the Pacific Ocean between Seattle and Vancouver; in the mid-Atlantic region and the Chesapeake Bay drainage basin; in Kenya, 45 km from the capital city of Nairobi; and in the state of Tamil Nadu, in south India. As many as two courses can be taken at each of two summer sessions and applied toward meeting Dordt graduation requirements. Both Au Sable courses and home campus courses can be used to meet requirements for certificates issued by Au Sable in the following areas: naturalist, land resources analyst, water resources analyst, and environmental analyst. Semester internships in environmental education are also offered during the fall and winter semesters. Course offerings at each location are as follows:

Au Sable - Great Lakes

May Term

BIO 305	Ornithology	4.0
BIO 315	Woody Plants	4.0
ENVR/BIO 361	Natural History in Spring	4.0

Summer Session I

BIO/GEO/GEOG 301	Land Resources	3 - 4
BIO/GEO/GEOG 303	Ecological Agriculture	3 - 4
BIO 311	Field Botany	3 - 4
BIO 321	Animal Ecology	3 - 4
BIO 322	Aquatic Biology	3 - 4
BIO/CHEM/GEOG 390	Directed Individual Study	1 - 4
BIO/GEOG 471	Conservation Biology	3 - 4
BIO/CHEM/GEOG 399	Research	1 - 6

BIO 477	Plant Ecology	3 - 4
BIO 411	Advanced Field Botany	3 - 4
Summer Session II		
BIO 302	Limnology (Water Resources)	3 - 4
BIO/CHEM/GEOG 304	Natural Resources Practicum	3 - 4
BIO 312	Insect Biology and Ecology	3 - 4
GEOG/GEOG 216	Field Geology	3 - 4
BIO 342	Fish Biology and Ecology	3 - 4
BIO/CHEM/GEOG 391	Directed Individual Study	1 - 4
BIO/GEOG 457	Stewardship Practicum: Bioregional	3 - 4
	Models for Environmental Stewardship	
BIO 482	Restoration Ecology	3 - 4
Au Sable - Pacific Rim		
Summer Session I		
BIO/GEOG 266	Natural History of the Pacific Northwest	3 - 4
ENVR/REL 352	Ecotheology	3 - 4
BIO 377	Marine Invertebrates	3 - 4
BIO 417	Marine Stewardship	3 - 4
Summer Session II		
GEOG/GEOG 217	Field Geology of the Pacific Northwest	3 - 4
BIO/GEOG 303	Ecological Agriculture	3 - 4
BIO 311	Field Botany	3 - 4
BIO/GEOG 324	Natural Resources Practicum	3 - 4
	Environmental Stewardship in the Pacific Rim	
BIO 359	Marine Mammals	3 - 4
Au Sable - East Coast		
Summer Session I		
BIO/GEOG 267	Natural History of the Chesapeake	3 - 4
BIO/GEOG 458	Stewardship Practicum: Sustainable	3 - 4
	Communities and Environmental Conflict	
	Resolution on the Chesapeake Bay	
Au Sable - Africa		
Summer Session II		
BIO/GEOG 304	Natural Resources Practicum	3 - 4
	Development and Ecological Sustainability	
	in Africa	
BIO 307	Birds of the African Tropics	3 - 4
BIO 319	Tropical Botany	3 - 4
BIO 329	Mammals of East Africa	3 - 4

Other opportunities at or through Au Sable include the following:

1. Au Sable Institute offers *certificates* in the following areas: naturalist, land resources, analyst, water resources analyst, environmental analyst. Requirements for these are met by courses and experiences at both Au Sable and Dordt College.
2. *Internships* are available in the following areas: environmental education, environmental chemistry, agricultural missions at ECHO, Royal Botanical Gardens, Floresta Agroforestry, A Rocha Trust and A Rocha Portugal Estuarine Ecology, National Museums of Kenya. For specific courses in these programs and general information, contact Dr. D. Vander Zee, the Au Sable campus representative, or Prof. Richard Hodgson, at Dordt College.

Au Sable fellowships and grant-in-aid are available to Dordt students (see the "Scholarships" section of the catalog). Prerequisites: sophomore status and good academic standing.

Christian Environmental Association Global Stewardship Study Program The semester-long Global Stewardship Program in Belize is designed to offer students from Christian colleges a field-based education that explores Christian responsibility in a fragmented world—a world marked by poverty, hostility, environmental demise, opportunism and social disintegration. The semester curriculum is guided by a view that the world is an integrated web of systems and philosophies that cannot be separated from each other. Students will be challenged to explore the interactions between economic development, society, the environment, government, and their faith. Contact Dr. Ken Bussema, Director of Off-Campus Programs for more information.

German Overseas Program Dordt College promotes an academic program in Germany at the Goethe Institutes. The focus of the program is gaining facility in the German language. Applicants need a 2.50 grade point average and completion of German 201. Contact Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Summer Study Program in Mexico High school and college students may apply to study at the Romance Language Institute in Durango, Mexico. Classes are held at all levels, from beginning Spanish to an M.A. program. The Dordt College program in Mexico is for three weeks each summer. College students can earn four credits. Students should contact Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Trinity's Semester in Spain A fall or spring semester study program in Seville, Spain. The program offers beginning, intermediate, and advanced courses in Spanish. A summer term is also offered. Students should contact Dr. Ken Bussema, Director of Off-Campus Programs for information and application forms.

Academic Policies

Advising An academic advisor is assigned to each student. Because of the variety of educational opportunities available at Dordt College and alternative ways of achieving graduation requirements, students must confer with their advisor regularly to plan their academic program. Career planning assistance from qualified personnel is available to help students select courses that will prepare them for service, vocations, or further schooling.

Class Attendance All students are expected to attend all class periods and all laboratory periods. Penalties for absence are left to the individual instructors. The instructor may lower a student's grade 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 and counts toward graduation. Each semester hour requires one period per week of class work and approximately two hours per week of preparation.

Student Classification Classification is made at the end of every semester and is determined by the number of credits successfully earned:

Sophomore 24 credits

Junior 54 credits

Senior 84 credits

Student Load Since 124 credits are required for bachelor's degrees and 61 credits are required for associate's degrees, students who plan to complete these degrees in the standard amount of time must average 15 to 16 credits per semester. Students must be enrolled in a minimum of 12 total credits per semester in order to be considered full-time. Students registering for more than 15 total credits should do so in consultation with their academic advisor.

The following policies govern the maximum student load and are monitored by the registrar:

1. The normal maximum student load for all students is 18 credits.
2. First semester freshmen admitted with a high school GPA below 2.25 or a composite ACT score below 19 (SAT I score below 920) are limited to 14 credits.
3. Second semester freshmen, juniors, and seniors with a college GPA of 3.0 or better may register for an overload with the permission of the academic advisor and the registrar. Only under rare circumstances will a student be allowed to register for 22 or more credits.
4. No more than a total of eight credits earned in excess of 16 credits per semester will be applied to the residence requirement.

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 half the non-audit part-time credit charge.

Dropping Courses Changes in registration must be completed during the drop/add period (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. Courses dropped without permission are recorded as "F". Courses dropped after the drop/add period 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 followed by an "R" on the transcript 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 full-time student who wishes to withdraw from school must see the director of career development to obtain the necessary withdrawal form and receive permission to leave school. The form must be signed by the director of career development, vice president for student services, 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 before the end of the semester will receive grades of "WP" or "WF", depending on their current standing in each course. Students who withdraw without notifying the registrar will have grades of "F" recorded for all courses. (Part-time students must notify the registrar of their withdrawal.)

Grade Point Average Students must have a minimum cumulative grade point average of 2.00 in courses taken at Dordt College to meet graduation requirements. The GPA 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/her GPA.

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

<u>Grade</u>	<u>Points Per Hour</u>	<u>Description</u>
A	4	Exceptional
B	3	Good
C	2	Graduation Average
D	1	Unsatisfactory
F	0	Failure

P	0	Pass
WP	0	Withdrawn Passing
WF	0	Withdrawn Failing
AU	0	Audit

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 permission from the registrar. In no case will students be permitted to carry an academic load greater than that stated in the catalog. All courses taken at other institutions must be approved by the registrar in advance.

Dordt College does not offer undergraduate correspondence courses. However, if students plan to enroll in a correspondence course offered by another college or university, they should have the course approved by the office of the registrar in advance.

Pass/Fail Option Students enrolled in at least five 3- or 4-credit courses in a semester have the option of selecting elective courses on a pass/fail (P/F) basis. The pass/fail option 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 their grade point average.

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

1. P/F courses may be taken by sophomores, juniors, and seniors.
2. Sophomores, juniors, and seniors may take one P/F course per semester. Seniors in their last two semesters taking six 3- or 4-credit courses in a semester may put two courses on P/F.
3. A maximum of six P/F courses may be applied to the 124 credits required for graduation; a maximum of three P/F courses may be applied to the 61 credits required for an associate's degree.

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 of "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 that should not be P/F.

Students are expected to participate fully in the course. Instructors are not notified concerning whether a student is enrolled P/F, but this information is available to the instructor from the registrar if requested.

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.

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 - any time prior to last day of classes.
2. A-F to P/F grading - any time 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 cumulative grade point average is below the required minimum GPA for good standing, the student will be placed on academic probation. The minimum GPA levels required to be in good academic standing are these:

<u>Credits Earned</u>	<u>GPA</u>
0 - 12	1.60
13 - 23	1.70
24 - 40	1.80
41 - 53	1.85
54 - 68	1.90
69 - 83	1.95
84 or more	2.00

A student who receives less than a 1.00 GPA in any given semester is subject to dismissal at the end of the semester, regardless of whether that student has previously been on probation. If no grade points are earned in a given semester the student will be dismissed for academic reasons.

A student who fails to meet the minimum cumulative GPA requirement at the end of a probationary semester will be dismissed from the college. The curriculum and academic policies committee may, in individual cases, allow a student to continue on probation if that student has met other conditions or criteria set by the committee.

Students are notified by letter when placed on probation. Students are notified immediately if they are at risk for academic dismissal, and are given the option to prepare an appeal. A student who wishes to appeal a dismissal must do so by observing the following procedure:

1. The appeal must be in writing and must be presented at a time set by the registrar.
2. The basis of the appeal must be truly extraordinary circumstances such as serious and documented illness, injury, or family crisis.
3. The appeal must be addressed to the registrar, who will refer it to the curriculum and academic policies committee for disposition before the registration date of the subsequent semester.
4. Students readmitted on the basis of an appeal will be on probation and subject to the policy stated above.

A student dismissed for academic reasons may apply for readmission after a lapse of one academic semester.

Students should be aware that federal regulations require that students maintain satisfactory progress in order to continue to receive financial aid. Dordt College also requires satisfactory progress for all institutionally controlled financial aid. Poor grades can impinge on a student's financial resources.

Grade Reports First semester mid-term grades are reported to freshmen. These are not recorded on the permanent record but are for the purpose of indicating progress being made. Mid-term 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.

Participation in the Assessment Program Dordt College has a comprehensive assessment program to evaluate student learning. Assessment activities are an important part of the total educational program. They are scheduled into the academic calendar and embedded in academic programs. The various facets of assessment involve academic skills, academic programs and majors, and the educational goals of the general education program. Dordt College and its faculty are dedicated to evaluating the quality and effectiveness of all facets of its educational program. The purpose of assessment is to help make improvements in curriculum, student learning, and teaching.

Students will be required to participate in assessment activities. Baseline data will be collected at the freshman level, and additional assessment will occur throughout the student's academic career. The number and type of assessment activities may vary from student to student.

Official Transcripts 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.

Dordt College recognizes and desires to protect student rights of privacy, rights of access to educational data, and the right of challenging the contents of records for inaccurate or misleading information. Most records pertaining to the education of an enrolled student are open to the student upon request. Records may be released to specified persons by written consent of the student. College policies for the privacy rights of students and parents are in compliance with the Family Educational Rights and Privacy Act of 1974. Inquiries concerning compliance should be directed to the vice president for academic affairs.

Graduation Students must make application for graduation the semester prior to their graduation. Commencement exercises are held only at the end of the spring semester. In order to participate in the commencement exercises, the student must have completed all course work for the degree. Requests for exceptions must be brought to the curriculum and academic policies committee via the registrar prior to February 1. There are no exceptions for the A.A. degree.

Academic Offerings

This section contains descriptions of programs, majors, minors, areas of concentration, fields of specialization, and courses. Semesters following course titles indicate when each course is normally offered. On rare occasions, a course may not be available when indicated because of low enrollment or unexpected staffing changes.

Courses listed as Fall Even and Spring Odd are scheduled to be offered during the 2000-01 academic year. i.e., Fall 2000-01 is Fall Even, Spring 2000-01 is Spring Odd.

Academic Skills

Academic Skills courses are courses designed to help students review pre-college work with the goal of preparing the student to succeed in doing college-level work. These courses do not count toward college graduation requirements, but the credits do count toward student load for registration and financial aid purposes.

- 50 **Basic Mathematics for College Students (3)** Fall, Spring
Designed for students who have not met the college mathematics entrance requirement or who need to review basic high school mathematics. Topics include properties of real numbers, evaluating and manipulating formulas, solving and graphing linear and quadratic equations, direct and inverse variation, exponents and polynomials, and additional topics such as basic data analysis, data display, and probability.
- 60 **Basic Writing for College Students (3)** Fall, Spring
Designed for students demonstrating a special need in written composition, this course is an intensive review of the skills needed to do college-level writing. The course focuses on the larger issues of presenting, developing, and supporting ideas, as well as issues of correctness at the sentence level (grammar, usage, punctuation, and mechanics).

Accounting

General Major— Business Administration 100, 201, 202, 225, 301, 302, 310, 311, 312, 313, 314, 315, 316, 320, 351; one elective course in business administration; Economics 202, 203; one elective course in economics; Mathematics 107.

Agriculture

The objectives of the course requirements in agriculture, and the other majors as well, are to enable students to develop a basic understanding of the discipline, to learn skills that will equip them to serve in God's kingdom in this area, and to prepare them for future learning experiences.

General Major—

Core (common to all four emphases): Agriculture 101, 105, 111, 290, 361, 370, 380, 381

Students must select one of the following emphases:

- General:** Core; Chemistry 101 or 103, 102 or 104; Agriculture 201, 221, 232; six credits from Agriculture 233, 234, 235, 238, 291, 331, 332, 334, 336; Biology 213 or 214, 302; six credits from Agriculture 251, 255, 311, 313, 314, 315, 350, Biology 115, 217, 319. Agriculture 321 and 371 are also recommended.
- Agri-business:** Core; Chemistry 101; Agriculture 312, 321; one course from Agriculture 201, 232, 233, 234, 235, 238, 251, 255; Business Administration 201, 202, 205, 206; Economics 202, 203; business administration or economics elective. Agriculture 371 is also recommended.
- Animal Science:** Core; Chemistry 101 or 103, 102 or 104; Biology 122, 213 or 214, 302; Agriculture 221, 232, 234, 291; one course from Agriculture 233, 235, 238; two courses from Agriculture 331, 332, 334, 336. Agriculture 321 and 371 are also recommended.
- Plant Science:** Core; Chemistry 101 or 103, 102 or 104; Biology 115, 213 or 214, 319; Agriculture 201, 221, 311; one course from Agriculture 251, 255; three credits from Agriculture 313, 314, 315; one course from 341-350. Agriculture 321 and 371 are also recommended.

Summer Program Beginning in the summer of 2001, the agriculture department will offer summer courses, open to sophomores, juniors, and seniors, that may be applied to the majors listed above. Courses offered will be selected from among Weed Science, Plant Pathology, Reproduction Physiology, Animal Nutrition, Special Topics, Advanced Agriculture Operations, Practicum, Directed Study, and Individual Studies. Contact the departmental chairperson for more information.

Associate of Arts Degree Options

Area of Concentration (Associate of Arts in Agriculture) See the "Academic Program" section for the general requirements for all A.A. programs.

Agriculture 101, 105, 111, 221, 290; one course from Agriculture 201, 232; three elective credits of agriculture; Communication 110; Chemistry 101. Prescribed general education requirements include English 101, History 100, Philosophy 201, Theology 101; mathematics requirement may be met by an ACT score of 70 or higher or Mathematics 106 or 107.

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- 101 Introduction to Animal Science (4)** Spring
Management, physiology, breeding, feeding and marketing of cattle, swine, sheep, poultry, and other animals. Three lectures and one three-hour laboratory period per week.
- 105 Orientation and Agricultural Safety (1.5)** Fall, Spring
Classroom discussion and practical experience are used to familiarize students with the ASC and greenhouse, and to develop understanding and competency in the areas of current agricultural production

practices and safety procedures. Students will be certified in CPR and will complete first aid training. The course meets for six weeks. Two lectures, a three-hour laboratory, and three hours of scheduled activity at the ASC per week.

- 106 Agricultural Operation and Experience (1.5)** Fall, Spring
A continuation of Agriculture 105 designed to give students the opportunity to develop additional skills and proficiencies in agricultural operations. Prior permission from the instructor(s) is required for enrollment. Class size is limited by activities available at the ASC and in the greenhouse. Prerequisite: Agriculture 105.
- 111 Introduction to Plant Science (4)** Fall
This course deals with the production, management, and utilization of the major groups of economically important plants—grains, forage crops, fruits, vegetables, ornamentals, fibers, and stimulants. The effects of soil, climate and plant pests are considered in relation to the management of various cropping situations. Three lectures and one three-hour laboratory per week.
- 201 Nature and Properties of Soils (3)** Spring
A comprehensive introduction to the field of soil science with emphasis on scientific principles and their application in solutions to practical soil management problems. Two lectures and one three-hour laboratory per week. Prerequisites: Agriculture 111; Chemistry 101.
- 221 Introduction to Farm Management and Accounting (3)** Spring
The study of decision making in the operation of an agricultural business using financial information and other criteria. Topics include current agricultural policy, goal setting, planning, organization of the farm business, systems management, record keeping, budgeting, balance sheets, income statements, cash flow statements, investment analysis, tax planning, and risk analysis. Two lectures and one three-hour laboratory per week. Prerequisite: Economics 200 or 202.
- 232 Feeds and Feeding (3)** Fall
The evaluation, composition, and values of feedstuffs as they relate to animal nutrient requirements will be considered. The basics of ration formulation and feeding management will be covered for the major livestock species. Two lectures and one two-hour laboratory per week. Prerequisites: Agriculture 101; Chemistry 101.
- 233 Principles of Dairy Science (3)** Spring
Dairy reproduction, physiology, lactation, breeding, nutrition, and genetics will be discussed with an emphasis on scientific principles and their application to dairy science. Two lectures and one three-hour laboratory period per week. Prerequisites: Agriculture 232; Chemistry 101.
- 234 Principles of Animal Health (3)** Spring
Animal care and facility sanitation will be discussed, focusing on care, disease prevention, disease detection, animal treatment, pharmacology, and health programs. Three lectures per week. Prerequisites: Agriculture 101, 232; Chemistry 101. Recommended: Biology 302.
- 235 Principles of Swine Science (3)** Spring Odd
A study of swine care and management, physiology, diseases, equipment, reproduction, and nutrition. Two lectures and one three-hour laboratory per week. Prerequisites: Agriculture 101; Chemistry 101. Recommended: Agriculture 232.

- 238 Beef and Sheep Science (3)** Fall Odd
A study of beef and sheep management, production, physiology, nutrition, reproduction, diseases, equipment, facilities and care. Two lectures and one three-hour laboratory per week. Prerequisites: Agriculture 101; Chemistry 101. Recommended: Agriculture 232.
- 251 Horticultural Plants (3)** Spring
The study of greenhouse, vegetable, and ornamental plants. The aesthetics, culture, physiology, and propagation of horticultural plants will be examined. Prerequisite: Agriculture 111 or Biology 115.)
- 255 Forage Crop Management (3)** Fall
The production and management of crops for livestock feed are considered and the establishment, growth, harvesting, preservation, and quality of these crops is examined. Primary emphasis is given to the value of major temperate region grasses and legumes as livestock feed, and the energy, protein, and other nutritional components they supply are considered. The identification of common and alternative forage species is an important component of the course. Two lectures and one three-hour laboratory per week. Prerequisites: Agriculture 101, 111.
- 290 Perspectives on Agricultural Economics, History, and Policy (3)** Fall, Spring
The historical changes in food production, management, and processing systems are examined, and the impacts of past philosophies, religions, and world views on contemporary agricultural systems are discussed. Domestic and international agricultural policy is also studied. Several views on these topics are examined, and a Reformed perspective is developed. Two lectures and a one hour small group discussion period per week. Prerequisites: Sophomore status; Philosophy 201. Economics 200 or 202 or Political Studies 201 is recommended.
- 291 Anatomy and Physiology of Animals (4)** Fall
The structures and functions of the major body systems will be studied as they work together in the life processes of an animal. The nervous, skeletal, muscle, circulatory, endocrine, digestive and reproductive systems will be examined. Three lectures and one three-hour laboratory per week. Prerequisites: Agriculture 101 or Biology 122; Chemistry 102 or 104.
- 311 Soil Fertility (3)** Spring Odd
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. Three lectures per week. Prerequisites: Agriculture 111, 201; Chemistry 101, 102.
- 312 Marketing of Agricultural Products (3)** Fall
An analysis of agricultural marketing systems, factors determining agricultural prices, and farmer marketing management. Topics include setting marketing goals, government price institutions, contract and futures markets, and marketing under risk and uncertainty. Three lectures per week. Prerequisite: Agriculture 221.
- 313 Weed Science (2)** Summer
A survey of weed species, weed biology and ecology, and the methods by which weed populations can be managed. Weed identification and methods of managing weed populations will be emphasized. Two lectures and one three-to-four-hour laboratory per week for five weeks. Prerequisites: Agriculture 111 or Biology 115; Chemistry 101, 102.
- 314 Plant Pathology (2)** Summer
An introduction to the principles of plant pathology. Attention will be given to the identification, physiology, ecology, life cycles, and appropriate control methods of major plant diseases. Nematodes,

- bacteria, fungi, viruses, and abiotic factors causing plant disease will be considered. Two lectures and one three-to-four hour laboratory per week for five weeks. Prerequisites: Agriculture 111 or Biology 115; Chemistry 101, 102.
- 315 Entomology and Pest Management (3)** Fall Odd
An introduction to entomology and insect-pest management including insect biology, taxonomy, ecology, life cycles, and integrated pest management. Three lectures per week. Prerequisites: junior standing, Agriculture 111 or Biology 115; Chemistry 101, 102.
- 321 Advanced Farm Management (3)** Fall
Christian concepts of stewardship and justice in agriculture, advanced planting techniques, investment analysis, agricultural finance, decision-making under risk and uncertainty, intergenerational transfer of the family business, governmental regulation and promotion of agriculture. Three lectures per week. Prerequisites: Agriculture 221; Economics 200 or 202.
- 331 Reproductive Physiology (1.5)** Summer
A study of the principles of reproductive physiology and lactation focusing on the major classes of livestock. Students will use these principles to develop an understanding of reproductive management techniques, and will examine the ethics of reproductive technologies. Two lectures and one three-to-four hour laboratory per week for five weeks. Prerequisites: Agriculture 291; Chemistry 101.
- 332 Advanced Animal Nutrition (1.5)** Summer Odd
A problem-solving approach will be taken to examine the nutrient requirements of animals in different production systems. The methods that can be used to meet those requirements will be evaluated. Ration formulation will be discussed as it relates to the different digestive systems and production requirements. Two lectures and one three-to-four hour laboratory per week for five weeks. Prerequisites: Agriculture 232, 291; Chemistry 102.
- 334 Applied Animal Breeding (1.5)** Spring Even
Quantitative genetic principles will be applied to livestock production systems. Improvement programs utilizing selection practices and mating systems will be discussed. Two lectures and one three-hour laboratory per week for seven weeks. Prerequisites: Agriculture 101; Chemistry 101. Recommended: Biology 213.
- 336 Meat Science (1.5)** Spring Odd
The processes of converting muscle tissue into meat, and factors affecting meat quality will be studied. The role of the producer, packer, USDA and consumer in quality and safety issues will be examined. Two lectures and one three-hour laboratory per week for seven weeks. Prerequisites: Agriculture 101; Chemistry 101.
- 341- Special Topics (3)** Occasional
348 These courses 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 Field Crop Production and Management (3)** Fall
Grain and forage production in the North Central Region of the US is investigated using lectures, group projects, field trips, and production and research experiences at the ASC. The role of grains in world food production is examined, and students are challenged to find solutions to the problems frequently

associated with grain production. Students collect and analyze field crop data, and explore sustainable crop production methods and systems. The investigation of new and innovative crop production strategies is an important component of the course. Two lectures and one three-hour laboratory per week. Prerequisites: Agriculture 111, 221, and one course from Agriculture 201, 251, 255, 311, 313, or 315.

- 352 Advanced Agricultural Operations (2)** Summer
Field trips, ASC involvement and responsibility, and class discussions are utilized to enhance student operational, decision-making, and management skills in plant and/or livestock production enterprises. One lecture/discussion period and eight hours of ASC contribution per week, plus one overnight and two day-long field trips. Prerequisites: Agriculture 101, 105, 111, 290.
- 353 Advanced Agricultural Operations (2)** Summer
A continuation of Agriculture 352.
- 361 Senior Seminar (3)** Spring
An integration of departmental courses, research, and analysis of current topics with emphasis on Christian perspective for persons involved in agriculture. Issues will include government policies, world hunger, the family farm, meat production, and others. Three lectures per week. Prerequisite: senior standing in the agriculture department.
- 370 Agroecology (4)** Fall
This course is an introduction to the principles of agricultural ecology, with an emphasis on the role of Christians as caretakers of creation. The characteristics of agroecosystems and natural ecosystems are compared. Topics include world food production, the development of agroecosystems, the hydrologic cycle, nutrient cycling, aquatic systems, diversity, and succession. The interaction of agroecosystems with surrounding ecosystems is studied, and the utilization of ecological principles in agroecosystem design and management are examined. Three lectures and one three-hour laboratory per week. Prerequisites: junior or senior standing, Agriculture 111 and 101 or Biology 115 and 122; Chemistry 101.
- 371 Practicum (3)** Fall, Spring
Students are given the opportunity to apply the principles of agriculture and business in an off-campus assignment. Ten hours per week at an off-campus site. Prerequisite: senior standing in the agriculture department.
- 380 Directed Study - Class Component (1.5)** Fall
Students, in groups of two or three, design a study of particular interest to them with the guidance of a faculty member in the agriculture department. The course involves identifying a relevant problem or question, reviewing background information, preparing a study proposal, and obtaining the agriculture department's approval of the proposal. Class meets one period per week (Tuesday or Thursday). Prerequisites: junior or senior standing and completion of four core courses in the agriculture department.
- 381 Directed Study - Project Component (2.5)** Fall, Spring, Summer
A continuation of Agriculture 380. Students, working in groups of two or three, will collect and analyze data, evaluate the findings from a Christian perspective, and present their results in written and oral form. Research will typically be conducted during the spring or summer semester with a presentation the following fall (for seniors taking the course the presentation will be at the end of spring semester). Prerequisite: Agriculture 380.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

American Studies

General Minor— History 201, 202; one course from English 201, 202, 203, 321; one course from Art 210, Music 345; one course outside the student's major discipline from Economics 309, Political Studies 212, 322, Social Work 322; one additional course outside the student's major discipline from Art 210, Music 345, English 201, 202, 203, 321, History 310, 314, 315.

Art

General Major— Fine Arts Studio emphasis: Art 201, 202, 216, 332, 370; three courses from Art 207, 208, 209, 210; two courses from Art 218, 220, 225, 228, 230, 240; two courses from 302, 316, 318, 320, 325, 328, 330, 340; Philosophy 206.

Graphic Design emphasis: Art 201, 202, 209, 225, 228, 230, 240, 332, 340, 370; one course from Art 207, 208, 210; Business Administration 206.

History emphasis: Art 201, 202, 207, 208, 209, 210, 216; two courses from Art 218, 220, 225, 228, 230; two courses from Art 302, 316, 318, 320, 325, 328, 330.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" on pages 100-115.

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- 201 Design Theory (3)** Fall
Manipulation of two-dimensional design through the use of the basic art elements: line, shape, value, color, texture, and space. The course is intended to develop a visual vocabulary and an imaginative approach to design. Required of all majors and minors.
- 202 Drawing (3)** Fall, Spring
Acquiring the basic skills of drawing through an objective investigation of reality. Common media and tools are used. Required of all art majors and minors.
- 207 Art History: Ancient and Medieval (3)** Fall Odd
This course is the first of a three-semester survey of the history of the visual arts. It investigates the role of the visual arts in the historical and cultural development of world civilization between prehistory and the 14th century.
- 208 Art History: 14th to 19th Centuries (3)** Spring Even
This course is the second part of a three-semester survey of the history of art. It covers the history of architecture, painting, and sculpture from the 14th century through the 19th century.
- 209 Art History: Contemporary Art and Architecture (3)** Fall Even
This is the third course in an historical survey of art and architecture. The course will begin with the foundations of modernism in the last half of the 19th century and then cover the plurality of styles in the 20th century.

- 210 Art History: North American Art Architecture (3)** Spring Odd
This course covers American art and artists not included in the survey courses. It includes the art of pre-revolutionary times to the regionalists of the 20th century. This survey includes the work of Mexican, Canadian, Black, and Native American artists.
- 216 Sculpture (3)** Spring
An introductory course emphasizing 3-D design, utilizing a variety of materials including clay, wood, plaster and mixed media.
- 218 Ceramics (3)** Fall
An introduction to clay and the basic process of slab, pinch, coil and wheel-thrown constructions. Class size is limited.
- 220 Fibers (3)** Spring
An introduction to a variety of techniques and processes dealing with fibers and textiles from a creative point of view. Class size is limited.
- 225 Painting (3)** Fall
An introduction to painting, emphasizing techniques and methods of communicating ideas visually. Work will give opportunity to experiment in various media and techniques including watercolor, acrylic, and tempera. Class size is limited. Prerequisite: Art 201 or 202.
- 228 Printmaking (3)** Spring
An introduction to some basic printmaking methods: serigraphy, linocuts, collographs, and intaglio. Class size is limited. Prerequisite: Art 201 or 202.
- 230 Photography (3)** Spring
An exploration of black and white photography as an art form. Students must provide their own 35mm camera. Class size is limited.
- 240 Graphic Design (3)** Fall
An introduction to basic design processes and lay-out procedures in the area of graphic design. The course explores combinations of design elements with copy and typography, development of ideas into visually dynamic designs, and the preparation of illustrations and copy into camera-ready lay-outs. Prerequisites: Art 201, 202, or permission from instructor.

Note: Courses 302-340 are continuations of the introductory media courses. Each 300-level media course has a corresponding 200-level media course as its prerequisite.

- 302 Advanced Drawing (3)** Fall
- 316 Advanced Sculpture (3)** Fall
- 318 Advanced Ceramics (3)** Spring
- 320 Advanced Fibers (3)** Spring
- 325 Advanced Painting (3)** Spring
- 328 Advanced Printmaking (3)** Fall

- 330 **Advanced Photography (3)** Fall
- 332 **Advanced Studio (3)** Fall, Spring
- 333 **Advanced Studio (3)** Fall, Spring
- 340 **Advanced Graphics (3)** Spring
- 341- **Special Topics (3)** Occasional
- 348 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)** Fall
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 a senior art show.
- 391- **Individual Studies (1-3)** Fall, Spring, Summer
- 393 See "Individual Studies" section of "Academic Offerings."

Astronomy

General Minor: Planetary Science—

Astronomy 121; Earth Science (Environmental Studies) 201; three additional courses in astronomy.

- 121 **Solar System Astronomy (4)** Fall
An advanced descriptive introduction to planetary astronomy, with emphasis on recent discoveries concerning planets and satellites, and their implications for an improved understanding of our Earth. Theories concerning the origin of the solar system will also be discussed. Three lectures a week, plus a weekly laboratory/discussion or observing session. Prerequisite: one year of high school algebra.
- 122 **Stellar and Galactic Astronomy (3)** Spring
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. Occasional observing sessions (weather permitting).
- 310 **The Giant Planets (3)** Occasional
The nature and structure of the four giant hydrogen planets (Jupiter, Saturn, Uranus, Neptune), their rings and satellite systems. Some attention also given to Pluto/Charon, Centaur planets, and Trans-Neptunian objects. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisite: Astronomy 121
- 320 **The Planet Mars (3)** Occasional
The nature and structure of Mars and its satellites; phenomena of the Martian atmosphere; the possibilities of life on Mars. Frequent comparisons with Earth, Moon, and other planets will be made. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisite: Astronomy 121.

- 330 The Minor Planets (3)** Occasional
 The study of minor planets (asteroids) in terms of their orbital distribution, physical composition, and their value in the study of the history of the solar system. Conducted as a weekly evening seminar, offered every third spring semester. Prerequisite: Astronomy 121.

Biology

The biology major is divided into a three-tier curriculum design. Integrative threads in biblical perspective, biological structure, unity and diversity, historical context and environmental stewardship are treated throughout the major. The major includes five cognate support courses in chemistry.

General Major– I FOUNDATION CORE/PRINCIPLES (4 courses): Biology 115- General Botany, Biology 122-General Zoology, Biology 200- Principles of Ecology, Biology 213/214-Genetics.

II DISTRIBUTION - EXPLORATION - (6 courses*): It is recommended that students select courses that contribute to their academic and professional goals.

- A. One course in botanical science from Biology 217, 316, 319, Agriculture 251, 313, 314.
- B. One course in zoological science from Biology 201, 202, 301, 304, 312, Agriculture 315, Environmental Studies 270.
- C. Four three-or four-credit courses including at least two biology courses from the following: Biology courses numbered 201 or above, Agriculture 251, 313, 314, 315, Environmental Studies 210, 270, and 320.

III FOCUS AND PERFORMANCE (1 course): Biology 380– Directed Senior Research (Note: Biology 358 is required as preparation for Biology 380.)

*Courses may be used from off campus study sites such as the Au Sable Institute or the Latin American Studies Program, if appropriate and approved.

CHEMISTRY COGNATE OPTIONS

- A. Students preparing for graduate school or one of the allied health professions: Chemistry 103, 104, 201, 202, 205. Also the following courses are recommended: Physics 115, 116; Mathematics 107 or 206.
- B. Students preparing for analytical, technical support work or a career in natural history: Chemistry 103, 104, 102, and two courses from 203, 212, 312.
- C. Students preparing for service in the pharmaceutical or molecular biology fields: Chemistry 103, 104, 201, 202, and one course from 203, 205, 212, 312.

For descriptions of the SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the “Teacher Education Program” section on pages 100-115.

- 101 Biological Science (3)** Fall
A study of the nature of organisms and their functioning based on an understanding of how the human body functions. Some bioethical questions (such as abortion and aging) are explored. The course also provides a brief survey of the plants and animals and a Christian perspective on the biotic world. A biology course designed for non-majors.
- 102 Biological Science (3)** Spring
A study of the functioning of organisms in the major terrestrial and aquatic environments. This ecological perspective emphasizes the interactions among the organisms and their physical environment. This includes the effect and responsibility man has in the ecosystem in which he has been placed. The biology of different types of organisms and the major biomes (environments) in which they can be found are studied. Past fossil communities and genetics are also covered. Designed for non-majors.
- 115 General Botany (4)** Fall
An introductory study of the anatomy, physiology, taxonomy, and ecological importance of major plant groups. Three lectures and one laboratory period of three hours per week.
- 122 General Zoology (4)** Spring
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 and Field Biology (3)** Fall
An introduction to ecological studies including topics in ecosystem and community structure, nutrient cycling, energy flow, limiting factors, and population interrelationships. The laboratory will emphasize study of local flora and fauna via field work. At least two Saturday field trips. Two lectures and one laboratory period per week or three lectures per week. Prerequisite: one year of college biology.
- 201 Human Anatomy and Physiology (3)** Fall
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 and non-majors with permission.
- 202 Human Anatomy and Physiology (3)** Spring
A continuation of Biology 201.
- 210 Nutrition (3)** Fall
A study of the essential nutrients and their functions. Attention will be given to meal planning, weight control, and diets for special conditions. Three lectures per week. Open to biology majors only when enrolled in the pre-nursing or secondary or elementary education programs. [Cross-listed: HPER 211.]
- 213 Genetics (3)** Spring
An introduction to the principles of inheritance and variation in plants, animals, microbes, and man. Three lectures per week. Prerequisites: Biology 115, 122, or permission of instructor.)
- 214 Genetics with Laboratory (4)** Spring Odd
An introduction to the principles of genetics using the lectures of Biology 213, with additional experience in the laboratory with live organisms. This course is designed for students who intend to go on to graduate school, medical school, or secondary education, or for those students who desire more work in genetics than is offered in Biology 213. Prerequisites: Biology 115, 122.

- 217 Plant Morphology (4)** Fall Odd
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.
- 227 Paleontology (3)** Fall Even
An introduction to the major fossil plants and animals, and the environments (paleoecology) in which they are found. Three lectures, or two lectures and a two-hour laboratory per week. The course includes several Saturday field trips and one weekend field trip to the Pella area. Prerequisite: Biology 122 or permission of instructor.
- 251 Perspectives on Origins (3)** Fall Odd
A study of some theories of the origin of life, of man, and of the universe, including the history of evolutionism, and examination of the evidences for and against various theories. Christian and non-Christian approaches are evaluated. Not open to freshmen. Prerequisite: one college science course.
- 300 Environmental Biology (3)** Spring Even
A second-level ecology course emphasizing principles of applied population and community biology, including the biology of endangered and threatened species, their conservation and restoration. The course will be developed in the context of Christian environmental stewardship principles. The class will meet in seminar/discussion format. Prerequisite: Biology 200. [Cross-listed: Environmental Studies 300.]
- 301 Embryology (3)** Fall
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 (4)** Spring
A study of the form, structure, and classification of micro-organisms, including an introduction to viruses. Course emphasis is on bacteria, general laboratory techniques, culturing and control of microbial growth. A substantial portion of the course will deal with immunologic processes: antibodies and antigens, host-antigen reaction, bursal and thymic influences on lymphoid cells, humoral and cellular response mechanisms, and non-specific host defense mechanisms. Three lectures and one laboratory period per week. Prerequisite: Biology 115, 122 or permission of instructor.
- 304 Histology (4)** Spring Even
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)** Spring Odd
A comparative study of the anatomy of chordate animals. Two lectures and two laboratory periods of three hours per week. Prerequisite: Biology 122.
- 316 Local Flora (3)** Fall Even
A course in field biology and taxonomy of local vascular plants. Emphasis will be on the native vegetation of the tall-grass prairie landscape and its associated gallery forests and wetlands. Based on local studies, comparisons will be made with other geographic plant complexes. Two class periods per week, plus extensive lab and field work including weekend field trips. Prerequisite: Biology 115 or equivalent.

- 319 Plant Physiology (3)** Spring Odd
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 phytohormones. Two lectures and one three-hour laboratory period per week. Prerequisite: Biology 115; Chemistry 103, 104.
- 335 Cell Biology (3)** Fall
A study of the morphology and physiology of the cell, its organelles, and its constituents. A unit on transmission electron microscopy will be a part of the course. Three lectures per week. Prerequisites: Biology 115, 122; Chemistry 103, 104.
- 341- Special Topics (3)** Occasional
- 348** 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.
- 355 Research (1)** Fall, Spring
Laboratory, field, or library research on an approved topic, supervised by the department staff. Strongly recommended for majors (sophomores, juniors, and seniors). This course can also be seen as preliminary to Biology 391.
- 356 Research (1)** Fall, Spring
A continuation of Biology 355.
- 357 Medical Terminology (1)** Spring
The course is designed for students in the pre-health professions and secretarial science—medical emphasis. Students will learn medical terminology and its meaning within the context of the healing professions. Programmed texts and computer software will be used, with regular testing periods throughout the semester. It is suggested that Biology 101 or its equivalent be completed before taking this course. Graded on a pass/no record basis.
- 358 Introduction to Biological Research (1)** Fall, Spring
This is a mini-course designed to prepare students for directed senior research. The course will introduce the idea and practice of biological research. It will include the nature and scope of a research project, how to conduct literature searches, and how to design methods and protocols for problem solving. The class will meet weekly in seminar or tutorial format. Students will be expected to make two short presentations, finalize their proposal for Biology 380, and (if appropriate) begin the work for the directed research project. Prerequisite for Biology 380. (Graded on a pass/fail basis.)
- 380 Directed Senior Research (3)** Fall, Spring
A senior-level research course which focuses on problem solving and critical thinking in the biological sciences. The project will be chosen and conducted interactively with a staff mentor(s). Research should begin in the context of earlier courses and library literature, and extend to the lab and field on or off campus. Project results are to be presented in a peer seminar. Prerequisites: Biology 358; junior or senior standing and an approved application and proposal prepared one semester before the work begins.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
- 393** See "Individual Studies" section of "Academic Offerings."

Business Administration

General Major—

Core (common to both emphases): Business Administration 100, 201, 202, 205, 206, 225, 301, 351; Economics 202, 203, 303.

Students must select one of the following emphases:

General Business: Core; three business administration electives; one economics elective; one elective from business administration or economics.

Within the general business emphasis students may consult with their advisors and arrange a sequence of courses specializing in the areas of finance, management, marketing, or economics. Students should select specific courses for such specializations in consultation with their advisors.

Information Systems: Core; one business administration course elective; Computer Science 111, 120, 131, 201, 210; Mathematics 107, 111.

Public Administration: Core; Political Studies 214, 245, 212 or 216, 333; Communication 228; Business Administration 320; Economics 315.

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- 100 Computer Literacy for Business/Accounting Majors (3)** Fall, Spring
This course teaches computer skills needed for an entry-level position in a technologically-oriented business. Students will demonstrate skills through proficiency tests in areas such as computer terminology, purchasing criteria, ethics, stewardship, operating systems, file management, information search and retrieval, word processing, Internet, spreadsheet, database, data interpretation and integration, and presentations. Students may take a regular one-semester class, or the requirements may be met by taking selected modules/labs (as needed) and independent study, and the subsequent passing of all skills tests. Required for, and preference given to, all accounting, business, and business education majors. Pass/fail basis.
- 201 Principles of Accounting (3)** Fall
Introduces the concepts and terminology of accounting and financial reporting for modern business enterprises. The course is centered around analyzing and interpreting accounting information for use in making decisions about organizations. There is a special emphasis on analyzing the balance sheet, the statement of income and expense, the statement of cash flows and the statement of stockholders' equity. Additional emphasis is placed on problem-solving, critical thinking, and communications skills that are necessary to form conclusions about business activities, and to communicate these conclusions to others.
- 202 Principles of Accounting (3)** Spring
An introduction to managerial accounting and presents basic accounting concepts that are important to management decisions. Emphasis is placed on analyzing and interpreting accounting information which enables management accountants to work with managers from other areas, particularly marketing and operations, and to make decisions about costing, pricing, and production. The tools and information that are important are described within the decision framework rather than as isolated accounting procedures.
- 205 Principles of Management (3)** Fall, Spring
An overview course that uses the case-study method to illuminate basic management principles, including planning and strategy, leadership techniques, organizational structure, and control. Discussions cover

- numerous management successes and failures and investigate the Christian perspective inherent or lacking in each. Prerequisite: sophomore standing.
- 206 Principles of Marketing (3)** Fall, Spring
A study of marketing institutions, channels of product distribution, problems of price determination, promotion methods, government influences, and ethical problems facing marketing personnel.
- 210 Information Processing and Management (3)** Spring
Designed to aid students in developing personal skills relative to efficient information processing and management. In addition to supervised drill work, classroom lectures will seek to clarify and identify the current procedures and electronic technology found in the business environment today. Credit will not be given for both Business Administration 210 and Business Education 105, 112, 321.
- 225 Introduction to Finance (3)** Fall
An introduction to the theory, issues, and practice of business finance. Key components include valuation of financial assets, financial planning and control, working capital management and capital budgeting. Prerequisite: Business Administration 201.
- 226 Personal Financial Management (3)** Spring
Designed to prepare students for the many personal/family financial decisions that they will be making during their lives, and to provide insight and encouragement for making those decisions in a way that glorifies God.
- 301 Business Law I (3)** Fall
Will you ever lease an apartment, sign a sales contract, need a will, be named in a lawsuit or be confronted by a high-pressure salesman? Both business and nonbusiness students will benefit from this basic course in law. Topics include criminal law, torts, contracts, bankruptcy, property, and wills.
- 302 Business Law II (3)** Spring
A continuation of Business Administration 301 with emphasis on negotiable instruments, sales, partnerships, corporations, secured transactions, agency, federal regulations, and the Uniform Commercial Code. Prerequisite: Business Administration 301 or permission of instructor.
- 305 Human Resource Management (3)** Fall
Prepares students to understand and appreciate the critical role that Human Resource (HR) Management plays in the success or failure of business organizations. Specific emphasis is placed on analyzing and applying HR practices and theory via case studies and field research. Course content is organized around the four core areas of HR expertise, namely staffing and recruitment, employee and organizational development, compensation and benefits administration, and employee/labor relations. Considerable emphasis is also placed on contemporary issues in the field. Prerequisites: Business Administration 205, junior or senior standing.
- 306 Marketing Management (3)** Spring
Prepares students to manage the interacting forces in the market to facilitate exchange processes between the producer and consumer. Strategic planning in relation to product development and its introduction in the market place within acceptable ethical standards will be discussed. Prerequisites: Business Administration 205 and 206, junior or senior standing.

- 307 Production and Operations Management (3)** Fall Odd
Designed to acquaint students with the theory underlying production and operations management, to give them practice in solving the kinds of problems confronted by managers of production and service operations, and to inform them of the opportunities and challenges in the field. Prerequisites: Business Administration 202, junior or senior standing.
- 308 Advertising (3)** Fall
A study of the principles and practices 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. Prerequisites: Business Administration 206, junior or senior standing.
- 310 Intermediate Accounting I (3)** Fall
Analysis of financial accounting theory and current practice. Analysis of problems concerning valuation of assets, evaluation of liabilities and capital structure, communication and reporting of financial information. Prerequisite: Business Administration 202.
- 311 Intermediate Accounting II (3)** Spring
Continuation of Business Administration 310, includes special financial reports and financial analysis.
- 312 Advanced Accounting (3)** Fall
A comprehensive study of accounting problems of partnerships, consolidations, branch operations, bankruptcies, estates, trusts, etc. Prerequisite: Business Administration 202.
- 313 Cost Accounting (3)** Spring Even
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)** Spring
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 (3)** Fall
A study of federal income tax regulations and forms, based on the Internal Revenue Code, with primary emphasis on tax problems for the individual. Prerequisite: Business Administration 201 or Business Education 203, or permission of instructor.
- 316 Advanced Federal Income Tax (3)** Spring Odd
This course will study federal income tax regulations and forms, based on the Internal Revenue Code, with primary emphasis on corporations, partnerships, S corporations, estates and trusts. Prerequisite: Business Administration 315.
- 320 Not-For-Profit-Accounting (3)** Fall Odd
Accounting methods and managerial analyses employed for governmental bodies and private and public not-for-profit institutions. Prerequisites: Business Administration 201 and 202.
- 325 Advanced Financial Management (3)** Spring Even
The study of advanced topics in financial management, such as risk analysis, capital structure, dividend policy, mergers, acquisitions, foreign investment, etc. Case analysis will be used extensively. Prerequisites: Business Administration 202 and 225.

- 326 Investments Management (3)** Spring
The study of all types of investments with primary emphasis on stocks, bonds, and related securities. Includes a discussion of the function of securities markets and institutions, and portfolio management. Prerequisite: Business Administration 225 or permission of instructor.
- 330 International Business (3)** Spring Odd
A study of the special problems involved in doing business across national boundaries, with emphasis on the economic basis for trade, and the impact of religious, cultural, and political environments on business practice. Includes an evaluation of the management, marketing, and financial practices of multinational corporations from a Christian perspective. (Credit will be granted for either this course or the International Marketing course taught in the Netherlands, but not both.) Prerequisites: Business Administration 206, Economics 202, junior or senior standing.
- 341- Special Topics (3)** Occasional
348 Courses on different topics of special interest, utilizing individual instructor strengths, interests, and competencies. Each course selected will involve a topic not usually treated in depth in regularly scheduled courses.
- 351 Senior Business Seminar (3)** Fall, Spring
An integration of departmental courses involving student research and analysis on current topics in business and economics, with primary emphasis on Christian perspectives for the businessperson. Required of all senior students in business administration.
- 371- Business Administration Internship (3-9)** Fall, Spring, Summer
373 Intended to provide the business administration major the opportunity to apply the knowledge, principles, and skills gained in the classroom in an actual business environment. Prerequisite: completion of 12 or more courses in the major area.
- 375- Accounting Internship (3-9)** Fall, Spring, Summer
377 Intended to provide the accounting major the opportunity to apply the knowledge, principles, and skills gained in the classroom in an actual accounting environment. Prerequisite: completion of 12 or more courses in the major area.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Business Education

For descriptions of SECONDARY majors, minors, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

Associate of Arts Degree Option

Area of Concentration (Associate of Arts in Secretarial Science) See the "Academic Program" section for the general requirements for all A.A. programs.

Business Education 105, 112, 113, 321, 322, 323, 324; one course from Business Education 203 or Business Administration 201; one elective from business administration; two electives in any combination of business administration, communication, or English writing courses; Communication 110. (General

education requirements must be met by the following specific courses: English 101, 200. Students must meet the general education mathematics requirement.)

Note: Medical Emphasis Option includes Biology 201 and 202, or 357.

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- 105 Calculating Machines/Records Management (3)** Fall
The development of job-level skill in the operation of the electronic calculator emphasizing the application to the solution of typical problems in business Mathematics. Includes an overview of records management principles and procedures and an introduction to database application software. (Priority is given to business education majors and secretarial science majors.)
- 112 Keyboarding and Document Formatting II (3)** Fall
Development of accuracy and speed. Application of skill to more complex tabulations, correspondence, reports, business forms, and composition at the keyboard. This course will also introduce students to the college network word processing software. (Priority is given to business education majors and secretarial science majors.)
- 113 Keyboarding and Document Production III (3)** Spring
Development of skill to production level. Emphasis upon office-type work assignments with evaluations based on office standards of production. Prerequisite: Business Education 112 or equivalent.
- 203 Introduction to Accounting (3)** Fall
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 should begin with Business Administration 201.
- 211 Shorthand I (3)** Occasional
A study of Speedwriting shorthand, including the abbreviations and brief forms, principles of reading and writing shorthand, and taking dictation. (Open only to majors in business education and to students in the associate of arts program in secretarial science.)
- 212 Shorthand II (3)** Occasional
A review of Speedwriting shorthand principles, building increased speed on new-matter dictation, and transcription skill development in the production of mailable copy; language arts skills necessary for transcription are also emphasized.
- 321 Office Procedures and Administration (3)** Fall
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 112.
- 322 Advanced Secretarial Procedures and Communications (3)** Spring
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. Prerequisite: Business Education 321.
- 323 Information Technology and Word Processing (3)** Fall
An introduction to the concepts, systems, hardware and software related to information technology and

word processing in today's office. In addition to the textbook material, students are required to complete units using word processing software to produce mailable business documents. The advantages of information technology will be emphasized for students in their personal lives, their careers, and organizations of which they may be a part. Correlations will be drawn between technological concepts and the reformed world view. Pre- or co-requisite: Business Education 112.

- 324 Information Technology and Computer Applications (3)** Spring
A continuation of Business Education 323. Course emphasis will center on becoming proficient with intermediate concepts of various spreadsheet, presentation and database software from multiple office suites. Attention will be given to computer networking and communications, social and ethical issues, business use of information technology and careers. Students will complete an office simulation and participate in tours of local businesses. Prerequisite: Business Education 323.

Chemistry

General Major— Chemistry 103, 104, 201, 202, 212, 301, 302; four courses from Chemistry 205, 311, 312, 321, 393, Au Sable 332 (see pages 63-65); Mathematics 111 or 112; Physics 115 or 201, 116 or 202.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

- 101 General Chemistry (4)** Fall
A study of the basic concepts of general chemistry. Atomic structures and chemical bonding, states of matter, chemical reactions, solutions, rates of reactions and equilibria, acids and bases, and oxidation reactions will be studied. Three lectures and one laboratory period of three hours per week. The laboratory experiments will parallel the lecture content.
- 102 Organic and Biological Chemistry (4)** Spring
A continuation of Chemistry 101. Organic molecules and their functional groups, and biomolecules and their function in living cells will be studied. Three lectures and one laboratory period of three hours per week. The laboratory will include experiments in organic and biological chemistry.
- 103 General and Analytical Chemistry (4)** Fall
A study of the fundamental principles of chemistry. The lecture portion will include discussion of the mole, reaction stoichiometry, solutions, gases, the first law of thermodynamics, and atomic structure. Laboratory work will consist of experiments related to lecture topics, as well as an introduction to analytical chemistry. Three lectures and one three-hour laboratory period per week.
- 104 General and Analytical Chemistry (4)** Spring
A continuation of Chemistry 103. Topics included are bonding theory, structure of solids and liquids, chemical equilibria, chemical kinetics, the second law of thermodynamics, and electrochemistry. Three lectures and one three-hour laboratory period per week.
- 201 Organic Chemistry (4)** Fall
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 of three hours per week. Prerequisite: Chemistry 104.

- 202 Organic Chemistry (4)** Spring
A study of the various organic functional groups. The study of organic reaction mechanisms is continued. Three lectures and one laboratory period of three hours per week. Prerequisite: Chemistry 201.
- 203 Advanced Chemistry for the Life Sciences (3)** Occasional
Covers, on a deeper level, some topics previously encountered, such as solution chemistry, with emphasis on pH and buffers; thermochemistry; and kinetics. Other topics may include radioactivity and its uses, spectroscopy, and the role of enzymes in thermodynamics and kinetics. The course is intended for those in pre-professional programs, such as the pre-medical, pre-dental, pre-optometry programs, etc., and biology or environmental studies majors. Prerequisite: Chemistry 102 or 104.
- 205 Biochemistry (3)** Fall
An introduction to the chemistry of living systems. Some topics discussed include 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.
- 212 Quantitative Analysis (3)** Fall Even
An in-depth study of the theory and practice of quantitative methods of chemical analysis. Includes discussion of proper laboratory techniques, theory of operation of common laboratory equipment, and discussion of various analytical methods. Two lectures and one laboratory period per week. Prerequisite: Chemistry 104.
- 301 Physical Chemistry (4)** Fall Odd
An introduction to thermodynamics with application to physical and chemical systems. This introduction includes a study of solution chemistry. Three lectures and one laboratory period per week. Prerequisites: Chemistry 104; Physics 116 or 202; Mathematics 111 or 112; junior or senior standing.
- 302 Physical Chemistry (4)** Spring Even
A continuation of Chemistry 301, quantum mechanics and kinetics. Three lectures and one laboratory period per week.
- 311 Advanced Inorganic Chemistry (3)** Spring Odd
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)** Spring Odd
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 of instructor.
- 321 Advanced Organic Chemistry (3)** Spring Even
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. Prerequisite: Chemistry 202.
- 341-348 Special Topics (3)** Occasional
This course will consist of topics not normally covered in other chemistry courses. Specially designed to focus on more specific topics utilizing instructor strengths and consideration of student needs.

- 391- **Individual Studies (1-3)** Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

Communication

General Major—

Core (common to all emphases): Communication 201, 220, 222, 228, 301, 311 or 314, 380

Students must select one of the following emphases:

- General:** Core plus five courses designed to fit the vocational choice of the student. Two of these courses must be communication courses and all five must be approved by the communication department advisor. Communication 372 and 373 will not be counted toward the major.
- Human Resources:** Core plus Communication 260, and one course in communication numbered 200 or above; Business Administration 205, 301, 305.
- Journalism:** Core plus Communication 240, 241, 242, 245, 256.
- Public Relations:** Core plus Communication 241, 260; Business Administration 205, 206, 306.
- Radio/TV:** Core plus Communication 240, 241, 245, 258, 352.
- Speech:** Core plus Communication 311, 314, 393; Communication 302 or English 305; Theatre Arts 212.

Students are advised to select an emphasis and courses in consultation with a member of the communication department. See also the student handbook of the communication department for elective and general education course selection.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

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- 41 **Student Publications Production (1)** Fall, Spring
 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 pass/no record basis.)
- 110 **Fundamentals of Speaking and Listening (3)** Fall, Spring
 The study of the basic concepts and designs of public speaking such as organization, style, content, and delivery. An important part of the course will concentrate on listening concepts and abilities. This course emphasizes the presentation of speeches and exercises in listening.

- 201 Principles of Communication (3)** Spring
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.
- 220 Small Group Discussion and Communication (3)** Fall, Spring
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 panel, symposium, and dialogue.
- 222 Interpersonal Communication (3)** Fall, Spring
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)** Spring
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.
- 230 Television and Society (3)** Fall
Designed for the general student, the course will offer a study of television as information, persuasion, and entertainment. Students will observe and evaluate various television programs and discuss a number of important issues such as television violence, television advertising, and the relationships between television and other entertainment or news industries. All issues will be studied within the context of the history of television and a Christian perspective of television.
- 240 Introduction to Mass Communication (3)** Fall
An introduction to the concept of mass communication and its application to electronic and written media. The course will survey the historical development of the technology, effects, and theory of the media through major issues.
- 241 Introduction to Journalism (3)** Fall
An introduction to reporting and writing news for the print and broadcast media. The course includes practice in writing several types of news stories, an overview of the historical, cultural foundations of journalism, and a critical examination of the theoretical foundations of journalism.
- 242 Print Journalism (4)** Spring Odd
Students will study interviewing, editing, in-depth reporting, critical and feature writing, developing headlines and titles, copy-editing. They will explore the way text and design work together. Students will be introduced to production and layout, using the *Diamond* as laboratory. Prerequisite: Communication 241 or permission of instructor.
- 245 Broadcast Journalism (3)** Spring Odd
A study of journalism for the broadcast media, including news gathering, writing, editing, and presenting broadcast news. Issues relative to these processes will be analyzed from a Christian perspective. Prerequisite: Communication 241.
- 246 Advanced Journalism Production (3)** Spring Even
Journalism production in magazine or newspaper with work for various publications. The course will

be designed for each individual to extend his/her knowledge and skills beyond the basic course. Prerequisite: Communication 241 or consent of the instructor.

- 256 Advanced Reporting (3)** Spring Even
A study of project reporting including public affairs and investigative reporting. Students will be introduced to and gain experience in advanced research techniques, including computer-assisted reporting and use of the Freedom of Information Act. The relationship of project reporting and the First Amendment will be explored. Students will produce an extensive project report. Prerequisites: Communication 241 and 242.
- 258 Broadcast Announcing (3)** Spring Even
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 programs. Prerequisite: Communication 240.
- 260 Public Relations (3)** Fall
As an introduction to public relations, this course will set the background for additional courses in communication and business administration. After a study of the history of public relations, the student will learn what is expected of public relations workers, study the various publics, become familiar with current problems and issues in public relations, analyze several cases, and develop a Christian perspective for the continued study of public relations. Prerequisite: Communication 201 or permission of the instructor.
- 301 Advanced Expository Writing I (3)** Fall
This course is designed to introduce students to types of non-fiction writing frequently sought by magazines and journals. Major assignments include the interview, the narrative essay, and the review. Especially featured is the personal narrative. In addition to writing, students will read and react to various types of non-fiction writing—both essays and longer works. Significant class time is spent in workshop format with students reading and discussing their own work. [Cross-listed: English 301]
- 302 Advanced Expository Writing II (3)** Spring
The primary goal of this course is to help students write with clarity, grace and power. To achieve this goal, they will write expository essays, hone research skills, work style exercises, and critique one another's papers. Note: Advanced Expository Writing I emphasizes narrative prose, while Advanced Expository Writing II emphasizes argumentative and explanatory prose. [Cross-listed: English 302]
- 311 Advanced Public Speaking (3)** Fall Odd
An emphasis upon proper speech construction and delivery with application of communication concepts. Includes analysis of some public addresses. Prerequisite: Communication 110 or permission of instructor.
- 314 Argumentation and Persuasion (4)** Spring Even
After a study of the history of argumentation and persuasion and the relationship of argumentation and persuasion, this course will focus on various theories of attitude change, the structure of argument, and the development of a Christian perspective. Various applications of argument and persuasion to be considered are: propaganda, advertising, political campaigns, and political debate. The student will be expected to apply the course studies to his/her specific vocational decisions. Prerequisite: Communication 201.

- 341- Special Topics (3)** Occasional
- 348** Courses 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 Broadcast Production (3)** Spring Odd
- An introduction to the fundamentals of audio and video production. Students will gain experience with broadcast equipment and production techniques. The course challenges students to cultivate technical skills and aesthetic judgment in a variety of broadcast production settings. Prerequisite: Communication 240
- 371- Communication Internship (3-9)** Fall, Spring, Summer
- 373** A supervised work experience designed to provide the student with the opportunity to apply principles and skills gained through course work. Open to qualified juniors and seniors. Communication 372 and 373 may not be applied toward the major.
- 380 Senior Seminar (3)** Fall
- The capstone for the communication major. Communication majors will research, discuss, and struggle with major issues in communication such as freedom of speech, media impact, modern technology, and the information superhighway. Students will be pressed to expand and refine their Christian perspectives regarding communication with the study of the role and responsibility of communication in society. Students will examine current communication theories, research, and research design. Prerequisite: senior standing and completion of all core courses in the major.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
- 393** See "Individual Studies" section of "Academic Offerings."

Computer Science

General Major—

Core (common to all emphases):

Computer Science 111, 112, 120, 131, 202, 301, and Mathematics 212

Students must select one of the following emphases:

General Computer Science: Core; ten courses approved by a computer science department advisor. The ten courses must include Mathematics 112, 113; one course from Computer Science 201, 205, 208; one course from Mathematics 203, 204, 206, 207, 209, 304; one course from Communication 220, 222, English 305, Linguistics 201.

Hardware Systems: Core; Computer Science 205, 305; Engineering 204, 220, 304; Mathematics 112, 113, 204, 209; Physics 115 and 116 or 201 and 202; one course from Communication 220, 222, English 305.

Information Systems: Core; Business Administration 201, 202, and two courses from 205, 206, 225; Computer Science 201, 210, 371; Mathematics 107, 111; one course from Communication 220, 222, English 305; Economics 202 or 203.

Systems Administration: Core; Computer Science 201, 205, 208, 305, 371; Mathematics 112, 113, 209; one course from Computer Science 210, Mathematics 203, 206; one course from Communication 220, 222, English 305.

Associate of Arts Degree Option

Area of Concentration (Associate of Arts in Data Processing) See the "Academic Program" section for the general requirements for all A.A. programs.

Computer Science 111, 115, 120, 201; one additional three-hour course in computer science; Mathematics 107; Business Administration 201; Business Education 112, 321, 323.

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- 111 Structured Programming I (3)** Fall, Spring
An introduction to systematic and analytical methods of problem solving. Three basic phases of problem solving are emphasized: the analysis of the problem, the stepwise refinement of the algorithm, and the implementation in a computer language. Basic notions of computer programming, elementary composition principles, and the fundamental data structures are introduced.
- 112 Structured Programming II (3)** Spring
A continuation of Computer Science 111. Advanced programming and problem-solving methods are introduced. The topics include string manipulation, linked lists, file handling, recursion, program modularity, and programming style. Prerequisite: Computer Science 111 or permission of instructor.
- 115 Programming for Business (3)** Occasional
An introduction to COBOL computer language and programming in this language. Topics include file development and maintenance with emphasis on business applications. Prerequisite: Computer Science 111.
- 120 Information Systems Design (3)** Fall
An introduction to the nature of information systems, the conceptual foundations and use of such systems. Topics include information system planning, system flowcharts, input/output design, data dictionaries, and database queries. Prerequisite: any college level computer science course.
- 131 Data Communications (3)** Fall
A study of the concepts, issues, and technology involved in the transmission of data. Topics include network configurations, communications protocols, data coding schemes, and transmission hardware. Prerequisite: the college mathematics requirement.
- 201 Database Systems Design (3)** Spring
A study of the design, development, and implementation of an information system for management. Topics include database architecture, data definition and manipulation, report generation, and high-level language interface. Prerequisites: Computer Science 111 and 120.
- 202 Data Structures (3)** Fall Even
A study of the various types of information forms handled by a computer. This includes the format of data and the design and analysis of algorithms to manipulate data. Prerequisites: Computer Science 112; Mathematics 111 or 112.

- 205 Computer Architecture and Assembly Language Programming (3)** Fall Odd
The topics of this course cover the design of a computer, how data is converted and represented, CPU organization, addressing, relocatability, use of base registers, multiple radix arithmetic, and programming in machine language. Prerequisite: Computer Science 111 or permission of instructor.
- 208 Programming Language Concepts (3)** Spring Even
A study of the syntax, design, and history of programming languages and programming language structures. Topics discussed include variables, expressions, data types, scoping, and procedures. Prerequisite: Computer Science 112 or permission of instructor.
- 210 Information Systems for Decision Support (3)** Spring
A study of decision support systems for organizational planning and management. Topics include modeling and simulation methods for problem solving and decision making, incorporating the use of advanced integration tools. Corequisite: Computer Science 201.
- 301 Computer Technology and Society (3)** Spring
An examination and critique of the relationship of technology to other areas of Western society. During the first half of the course a Christian philosophy of technology is carefully studied and application is made to such problems as the role of the computer, technocracy, and the historical two-culture dualism. During the second half, the course focuses on the question of engineering ethics, with particular emphasis on such questions as safety and risk, professional responsibility and authority, whistleblowing, responsible salary structures, and morality in career choice. This course requires the student to write and present orally a significant research paper. Prerequisites: Philosophy 201; two 200-level or higher computer science courses, junior or senior standing. [Cross-listed: Engineering 390]
- 305 Operating Systems (3)** Spring Odd
A study of the basic principles of modern multi-programming operating systems and the interrelationships between the operating system and the architecture of the computer system. Topics include concurrent processes and deadlock, memory management and virtual storage, multiprocessing, auxiliary storage management, and systems security. Prerequisite: Computer Science 202.
- 341- Special Topics (3)** Occasional
348 These computer science courses cover different topics which maximize individual instructor strengths, interests, and competencies. Each course will deal with a topic in computer science not usually treated to any great extent in regularly scheduled courses.
- 371 Practicum (3)** Fall, Spring, Summer
Students will be given opportunity to apply the principles of management information systems in an on-campus or off-campus assignment. Prerequisite: senior standing. Corequisite: Computer Science 210.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Dutch

General Major— Dutch 201, 202, 206, 302; Linguistics 201; five courses from Dutch 101, 102, 207, 208, 301, 341-348, 393; four semesters of Dutch conversation 251-258. Study-abroad courses are recommended.

General Minor— Dutch 201, 202, 206, 302; one course from Dutch 102, 341-348, 393; three semesters of Dutch conversation 251-258. Study-abroad courses are recommended.

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- 101 Introductory Dutch (4)** Fall
An introductory study of the language and culture of the Dutch-speaking people. Emphasis on the acquisition of oral and written language skills in a communicative context combined with the study of cultural etiquette and social customs. The course includes weekly sessions with advanced students (often native speakers) to practice oral skills.
- 102 Elementary Dutch (3)** Spring
Continuation of 101. Prerequisite: Dutch 101 or its equivalent.
- 201 Intermediate Dutch (3)** Fall
An intermediate course which continues the study of the language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills. Some attention given to the nature of language. Emphasis on the development of cultural understanding and sensitivity, with a study of the people's values and beliefs as expressed in their economic, political, and religious systems. Comparison of this culture with our culture in the light of the cultural mandate. Prerequisite: Dutch 102 or its equivalent.
- 202 Literary and Cultural Readings (3)** Occasional
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 department approval.
- 206 Dutch Culture (3)** Occasional
Designed to cover many aspects of the Dutch way of life. Listening and speaking skills will be developed through the classroom activities. Prerequisite: Dutch 201 or departmental approval.
- 207 World Literature (3)** Occasional
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)** Occasional
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)** Fall, Spring
Designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week. Prerequisite: Dutch 102. (Graded on a pass/no record basis).
- 301 Dutch Phonology (3)** Occasional
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)** Occasional
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- Special Topics (3)** Occasional
348 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 (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Earth Science

- 201 Physical Geography; Earth Structures and Processes (3)** Fall Even
Provides a general introduction to the physical nature and structure of the solid Earth, including, briefly, its physical geography and a more detailed look at its geology. The environmental implications of these subjects are detailed. One or two field trips are usually made in the early part of the semester. [Cross-listed: Environmental Studies 201]
- 202 Oceanography, Meteorology, Climate, and Climate Change (3)** Fall Odd
Provides a general introduction to oceanography and to the physical geography of ocean floor landforms. Briefer attention is given to meteorology and weather, with focus on violent conditions. Climate and climate change in Quaternary times to the present are also considered. Recent humanly-caused changes (which are ongoing) in Earth's atmosphere, and the implications of an anthropogenetically enhanced greenhouse effect for the future will be discussed. Attention will also be given to the deterioration of the stratospheric ozone layer. Prior completion of Earth Science/Environmental Studies 201 is helpful, but is not required. [Cross-listed: Environmental Studies 202]

Economics

For descriptions of the SECONDARY minors, teaching endorsements, and the ELEMENTARY fields of specialization, see the "Teacher Education Program" section on pages 100-115.

- 200 Economics and Christian Stewardship (3)** Fall, Spring
Seeks to expose students who are **not** majoring in business administration or accounting to a wide variety of principles, policies, institutions and problems within the field of economics. It includes the discussion of concepts such as property, value, work, wages, prices, profits, Christian stewardship in the marketplace, and comparative economic systems.

NOTE: Credit will not be given for both Economics 200 and Economics 202 or 203.

- 202 Principles of Economics: Micro (3)** Fall
The study of allocation of scarce resources at the level of the individual, the household, and the firm. Included are human motivation and preferences, the market, the function of prices, supply, demand, perfect and imperfect competition, and selected policy questions. Also studied are Christian views on the nature of humanity, human motivation, and the market.

- 203 Principles of Economics: Macro (3)** Spring
An introduction to the study of human choice in the allocation of scarce resources, concentrating on the aggregate or national level. Economic systems, national income accounts and analysis, income distribution, fiscal and monetary policy, banking systems, economic growth, and selected economic policy problems are covered. Christian views on the origin and nature of economic resources and man's stewardship responsibilities are discussed. This course was previously numbered Economics 201. Prerequisite: Economics 202 or permission of the instructor.
- 303 Money and Banking (3)** Fall
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. Also included is a study of the principles of monetary policy and their application in our economy. Prerequisites: Economics 202, 203.
- 305 Labor Economics (3)** Fall Even
A study of the labor force and market, organized labor, collective bargaining, labor legislation, and regulatory institutions. Christian views and the responsibilities of labor and management are studied as well as Christian norms on appropriate labor policies. Prerequisite: Economics 202.
- 309 Economic History of the United States (3)** Spring Odd
A history of the development of the United States from the economic point of view. To set the context for the U.S. experience, the course will trace the roots of American economic development back to European and Medieval Economic thought. The causes and effects of major historical events are analyzed using contemporary economic thought. Some of the economic institutions and policies that played an important role in U.S. economic history will be evaluated from a Christian perspective. Prerequisite: Economics 200 or 203. [Cross-listed: History 309]
- 315 Government Finance (3)** Spring Odd
A study of government taxing and spending at the local, state, and federal levels. Christian and secular views on governmental economic activity, benefit-cost analysis, forms of taxation and their effects, debt financing, budget processes and problems are studied. Prerequisites: Economics 203.
- 321 Economic Development in the Third World (3)** Fall Odd
A study of economic aspects of poverty and underdevelopment in the modern world. Specific topics include the dimensions and nature of poverty in the world, characteristics and types of developing nations, theories of development and emerging issues in development. We will also consider the implications of biblical principles for policy to promote economic development and alleviate poverty. Prerequisite: Economics 200, 202, or 203 or permission of instructor.
- 334 Economics of Natural Resources and the Environment (3)** Spring Even
A study of economic aspects of Christian stewardship in relation to the environment and use of natural resources. Major topics include biblical norms on creation, property rights, economic justice, the economic dimensions of current environmental problems and trends in resource use, institutions and social structures that affect environmental policy, economic theories related to resource use and environmental quality, and evaluation of current and proposed policies from a Christian point of view. Prerequisite: Economics 200, 202 or 203 [Cross-listed: Environmental Studies 334]

Education

Master of Education Program See pages 115, 122-123.

Teacher Education Program The teacher education program is built on a liberal-arts base and on professional courses that prepare students for teaching in the elementary, the middle, and the secondary school. Following successful completion of either an elementary or a secondary education program, students are recommended for the first level of licensure granted by the State of Iowa.

Admission to the Program Formal application for admission to the teacher education program is required. Application forms are distributed by or may be obtained from the director of the teacher education program.

The standards for admission to the teacher education program are:

1. A minimum cumulative GPA of 2.50 after 60 credits completed.
2. Minimum skill proficiencies in the language arts and mathematics. (See requirements under Approval for Student Teaching.) See special GPA requirements for the subject area minor in reading (p. 105), the major or minor in special education (p. 113), and the ESL endorsement (p. 114).
3. Effective oral communication skills.
4. Recommendation of faculty member.
5. Completion of Education 201 and 104.
6. Acceptable physical and psychological health.
7. Acceptable Christian life style.

Completed applications are evaluated by the education department and then by the teacher education committee. The committee takes the following formal actions:

1. Admits applicants who have met all the criteria for admission.
2. Conditionally admits applicants whose deficiencies can be remediated.
3. Rejects applicants who do not meet the standards for admission. If denied admission a student may reapply for admission after one semester by contacting the director of the teacher education program. Generally, acceptance into the teacher education program must precede student teaching by at least one semester. Each applicant is informed of the decision of the teacher education committee regarding admission to the program.

Retention in the Teacher Education Program The progress of students in the program is regularly reviewed by the teacher education committee. Retention in the program requires the following:

1. Meeting the minimum admission standards.
2. A minimum cumulative GPA of 2.40 after 30 credits completed, 2.50 after at least 60 credits completed. See special GPA requirements for subject area minor in reading (p. 105), major or minor in special education (p. 113), and ESL (p. 114).
3. Acceptable completion of professional education courses and field experiences.
4. Acceptable progress in endorsement areas.

If a student's status in the program changes, the student is asked to meet with a member of the

teacher education committee. If a student is dismissed from the program, readmission will be considered when the student requests it through the director of teacher education.

Approval for Student Teaching Student teaching is required of all students preparing for licensure. To receive graduation credit and a recommendation for licensure, student teaching must be taken at Dordt College. Students must apply for student teaching toward the end of the junior year. Applications for student teaching are approved by the teacher education committee. Approval for student teaching is based on the following guidelines:

1. Elementary education students
 - a. Completion of a minimum of 90 credits applicable to an approved program in teacher education.
 - b. Completion of Education 101, 201, 104, 203, 215, 230, 301, 321, 322, 323, 324, and 325 prior to student teaching.
 - c. Successful completion of proficiencies in the language arts and mathematics.
 - d. Unconditional status in the teacher education program.
 - e. Achievement of a cumulative minimum GPA of 2.50. See special GPA requirements for subject area minor in reading (p. 105) and major or minor in special education (p. 113), and ESL (p. 114).
 - f. Recommendation on the basis of performance in professional education courses, professional experiences, and in endorsement areas.
2. Secondary education students
 - a. Completion of a minimum of 90 credits applicable to an approved program in teacher education.
 - b. Completion of Education 101, 201, 104, 203, 215, 230, 301, and methods in the major area of study prior to student teaching.
 - c. Successful completion of proficiencies in the language arts and mathematics.
 - d. Unconditional status in the teacher education program.
 - e. Achievement of a minimum cumulative GPA of 2.50. See special GPA requirements for major or minor in special education (p. 113), and ESL (p. 114).
 - f. Recommendation on the basis of performance in professional education courses, professional experiences, and courses in the major.
3. Special education students
 - a. Completion of all the requirements for either an elementary or a secondary program.
 - b. Completion of all the requirements for the selected area of special education endorsement.

Requirements for Institutional Recommendation for Licensure To be recommended by the teacher education committee for licensure, the student must have completed all program requirements and all B.A. degree requirements.

To qualify for licensure each student must have unconditional status in the teacher education program, a minimum cumulative GPA of 2.50, and a successful student teaching experience.

Program Options and Requirements The program of courses in teacher education meets the minimum requirements both for graduation and for initial licensure. Each program option in teacher education includes:

- general education requirements
- professional education or licensure requirements
- content courses in the selected major
- a human relations component
- electives (depending on the program option selected)

Note the following general education requirements for education students:

- a. Mathematics—Secondary teacher education students must take at least one mathematics course; Mathematics 106, 107, 110 or 111 are suggested. Elementary education students must take Mathematics 108. Mathematics 108 should be taken in the fall, followed by Education 322 in the spring of the sophomore or junior year. Students taking the middle school endorsement must take Mathematics 108 and 109.
- b. Natural Sciences—Teacher education students must take one course from the biological sciences and one course from the physical sciences. Environmental Studies 151 may fulfill the biological science requirement.
- c. Psychology 205 meets both the general education social science requirement (in place of Psychology 201) and a professional education requirement.

The following professional education core courses are required of all elementary education students regardless of the option selected:

- Education 101 - Introduction to Education (3)
- Education 201 - Curriculum and Instruction (3)
- Education 104 - Pre-Student-Teaching Field Experience I (1)
- Education 203 - Media and Technology in Education (1.5)
- Education 215 - Educational Psychology (3)
- Education 241 - Service Learning Field Experience (1.5)
- Education 301 - Introduction to the Education of Exceptional Students (3)
- Education 372 - Student Teaching: Elementary (15)
- Education 330 or 230 - Human Relations (3 or 1.5) plus units from other coursework
- Psychology 205 - Developmental Psychology I (3)

Options I, II, and III below list the academic requirements for elementary education teaching endorsements. See also special programs under options VII and VIII.

Option I: General Elementary Classroom Teacher Endorsement K-6; Endorsement 102 (The term “endorsement” and the endorsement numbers are part of the Iowa licensure code.)

Program Content Courses (Credit Hours) (required for options I and II)

- Education 205 - Children’s Literature (3)
- Education 223 - Teaching Bible in the Elementary School (1.5)

Education 321 - Teaching Social Studies in the Elementary School (1.5)

Education 322 - Teaching Mathematics in the Elementary School (3)

Education 323 - Teaching Reading in the Elementary School (3)

Education 324 - Teaching Language Arts in the Elementary School (1.5)

Education 325 - Teaching Science in the Elementary School (1.5)

Two courses selected from:

Education 111 - Elementary School Health and Physical Education (3)

Education 211 - Art for the Elementary Teacher (3)

Education 311 - Materials of Elementary Music Education (3)

The professional education core listed previously and the program content courses constitute a major in elementary education. The program content includes the courses listed above and either a field of specialization or an endorsement.

Fields of Specialization

1. ART: Art 201, 202, 210; Art 216 or 218.
2. BIOLOGY: Biology 115, 122, 200, and one elective course in biology.
3. CHEMISTRY: Chemistry 103, 104, 201, 202.
4. COMPUTER SCIENCE: Business Administration 210, Computer Science 111, 131, and one course from Computer Science 112, 120, 201.
5. ECONOMICS: Economics 202, 203, and two economics electives.
6. ENGLISH/LANGUAGE ARTS: one course from English 201, 202, 321; one course from English 205, 221, 222, 225; English 336; one course from English 301, 302, 303, 304, 305.
7. ESL: Four courses from Foreign Language 201, Linguistics 201, 301, TESL 371, 372.
8. GERMAN: German 201, 202, 206, three hours of German 251-258 or German 301.
9. HISTORY: History 201, 202; one course from History 212, 213, 214; one course from History 203, 205, 209, 210, 211.
10. LANGUAGE ARTS: Education 232, 262; English 336; one course from English 201, 202, 203, 221, 222.
11. MATHEMATICS: Mathematics 108, 109, and any two elective mathematics courses. One three-hour computer science course may be substituted for one of the elective mathematics courses.
12. MUSIC: Music 103, 104, 312, one semester each of Music 14 and Music 15. (Do not take Education 311 as part of the program.)
13. PHYSICAL EDUCATION: HPER 204 (203 prerequisite is waived), 207, 209, 306. (Do not take Education 111 as part of the program.)
14. POLITICAL STUDIES: Political Studies 201, 212, 214, 333.
15. PSYCHOLOGY: Psychology 201, 210, 302; one course from Psychology 225, 303, 315.
16. READING: Education 205, 326, 327; one course from Education 329, Linguistics 301, TESL 371.

17. SCIENCE–BASIC: Biology 101 and 102 or 115 and 122; Physical Science 107; one course from Physical Science 201, Environmental Studies 151, Biology 251.
18. SOCIAL STUDIES: Economics 200; Geography 201; History 201 or 202; one course from Political Studies 201, Psychology 201, or Sociology 201.
19. SOCIOLOGY: Sociology 201, 210, 216; one sociology elective.
20. SPANISH: Spanish 201, 202, 206, three hours of Spanish 251-258 or Spanish 301. Study-abroad courses are recommended.
21. SPECIAL EDUCATION: Education 301 and three electives from Education 303, 304, 305, 306, 312.
22. SPEECH COMMUNICATION/THEATRE: Communication 220; Theatre Arts 212; Education 232; Education 262 or Theatre Arts 201.
23. THEATRE ARTS: Education 262; Theatre Arts 201, 310; Theatre Arts 202 or 304.
24. THEOLOGY: Theology 201 or 204, 203, one course from 211-219; 307 or 311.

Option II: General Elementary Classroom Teacher Endorsement K-6 and a Subject Area Minor; Additional Endorsement (The term “endorsement” and the endorsement numbers are part of the Iowa licensure code.)

The program content courses must be completed as described in option I. Students completing option II will earn endorsement 102, and by completing one of the following K-6 subject area minors, obtain the additional endorsement listed.

1. ART: Endorsement 113. Art 201, 202, 210, 216; one course from 207, 208, 209; two courses from Art 218, 220, 225, 228, 230; one course from Art 302, 316, 318, 320, 325, 328, 330. (Education 211 is required as a professional education course.)
2. COMPUTER SCIENCE: No state endorsement available. Business Administration 210; Computer Science 111, 112, 120, 131, and 301 or 393; Mathematics 107 and one mathematics course numbered 109 or higher. This minor equips persons with the knowledge and skills necessary to use computer applications in the classroom, to investigate and develop additional uses, and to aid other staff members in computer uses.
3. ENGLISH/LANGUAGE ARTS: Endorsement 119. Theatre Arts 212 or Education 262; Education 205; English 200; English 201 or 202; English 301 or 302; English 336; two English courses numbered above 200. (Education 324 is required as a professional education course.)
4. GERMAN: Endorsement 125. German 201, 202, 206, 301, 302; three semesters of German 251-258; two courses from 341-348, 393. Study-abroad courses are recommended. (Education 355 is required as a professional education course.)
5. HISTORY: Endorsement 162. History 201, 202; one course from History 212, 213, 214; three courses from History 203, 205, 209, 210, 211, 212, 213, 214, 215, 303, 304, 307, 332, 341-348,

- 393; two courses from History 305, 309, 310, 313, 314, 315, 322. (Education 321 is required as a professional education course.)
6. HEALTH: Endorsement 137. HPER 101, 202, 204, 205, 207, 209, 211; Education 111 or HPER 306; Sociology 302.
 7. MATHEMATICS: Endorsement 142. Mathematics 107, 108, 109, 111 (or 112), 207, 208, 210; Computer Science 111 or 112. (Education 322 is required as a professional education course.)
 8. MUSIC: Endorsement 144. Music 103, 104, 207 or 208, 308, 315; one semester each of Music 14 and Music 15; Music 19; *Either* four ensemble credits and one course chosen from Music 203, 207 or 208, 305, 306, 316-319, *or* two courses chosen from Music 203, 207 or 208, 305, 306, 316-319;* 312 (*This course required as part of the professional education sequence but not counted as part of the music major or minor.)
 9. PHYSICAL EDUCATION: Endorsement 146. HPER 22, 26 or 30, 101, 203, 204, 207, 208, 306, 325; one course from HPER 205, 209, 212, 213, 214, 215, 304. (Note: HPER 212-215 are half-courses.) (Do not take Education 111 as part of the program.)
 10. READING: Endorsement 148. Education 205, 232, 306, 323, 326, 327, 328, 329, 371; Communication 301 or 302; A GPA of 3.0 or above is required for those seeking this endorsement.
 11. SCIENCE-BASIC: Endorsement 150 (total semester hours must equal twenty-four or more) Biology 101 and 102 or 115 and 122; Biology 200; one course from Environmental Studies 151, Physical Science 201, Biology 251; three or four courses from Biology 227, Earth Science 201, 202, Chemistry 101, 102, Physics 115, 116, Astronomy 121. (Education 325 is required as a professional education course.)
 12. SOCIAL STUDIES: Endorsement 164. Economics 200; Geography 201; two courses from Political Studies 201, 212, 214, 312; History 201, 202; one course from History 212, 213, 214; one course from History 203, 205, 209, 210, 211, 215. (Education 321 is required as a professional education course.)
 13. SPANISH: Endorsement 133. Spanish 201, 202, 206, 301, 302; three semesters of Spanish 251-258; two courses from 205, 304, 341-348, 393. Three credits in study-abroad courses are required. (Education 355 is required as a professional education course.)
 14. SPEECH COMMUNICATION/THEATRE: Endorsement 167. Communication 201, 220, Education 232, 262; Theatre Arts 201, 202, 212. (Education 324 is required as a professional education course.)

Option III: K-6 Subject Area Major

Completion of the core courses (p. 102) with an appropriate methods course, along with one of the following majors, prepares the student for specialized subject area teaching in K-6, and allows the student to obtain the endorsement listed. (The term “endorsement” and the endorsement numbers are part of the Iowa licensure code.)

1. **ART:** Endorsement 113. Art 201, 202, 216, 370; three courses from Art 207, 208, 209, 210; three courses from Art 218, 220, 225, 228, 230; two courses from Art 302, 316, 318, 320, 325, 328, 330. (Education 211 is required as a professional education course.)
2. **ENGLISH/LANGUAGE ARTS:** Endorsement 119. Education 205, 232, 262, 326; English 201, 202, 301 or 302, 336; two three-hour elective courses in English. (Education 324 is required as a professional education course.)
3. **GERMAN:** Endorsement 125. German 201, 202, 206, 301, 302; Linguistics 201; three courses from German 102, 207, 208, 341-348, 393; four semesters of German 251-258. One semester of study abroad is required. (Education 355 is required as a professional education course.)
4. **HISTORY:** Endorsement 162. History 201, 202; one course from History 212, 213, 214; four courses from History 203, 205, 209-215, 303, 304, 307, 332, 341-348, 393; three courses from History 305, 309, 310, 313, 314, 315, 322. (Education 321 is required as a professional education course.)
5. **MATHEMATICS:** Endorsement 142. Mathematics 107, 108, 109, 111 or 112, 207, 208, 210; two three-hour electives in mathematics numbered 113 or above; Computer Science 111 or 112. (Education 322 is required as a professional education course.)
6. **MUSIC:** Endorsement 144. Music 103, 104, 207 or 208, 308, 315; two semesters each of Music 14 and Music 15; Music 19; two courses from Music 203, 207 or 208, 305, 306; four ensemble credits; *Music 312, *Music 314 or 316-319. (*These courses are required as professional education.) (Music 313 is recommended as a professional education course.)
7. **PHYSICAL EDUCATION:** Endorsements 146 and 101–Coaching. HPER 22, 26 or 30, 101, 203, 204, 205, 207, 208, 209, 306, 325; two courses from HPER 212-215. (Note: HPER 212-215 are half-courses.)
8. **SCIENCE–BASIC:** Endorsement 150. Biology 101 and 102 or 115 and 122; Biology 200; Environmental Studies 151; Physical Science 201; four courses from Biology 227, Earth Science 201, 202, Chemistry 101, 102, Physics 115, 116, Astronomy 121. (Education 325 is required as a professional education course.)
9. **SOCIAL STUDIES:** Endorsement 164. Geography 201; Economics 200; two courses from Political Studies 201, 212, 214, 312; History 201, 202; one course from History 212, 213, 214; one course from History 203, 205, 209, 210, 211, 215; Psychology 201 and 210 or Sociology 201 and 210. (Education 321 is required as a professional education course.)

10. SPANISH: Endorsement 133. Spanish 201, 202, 206, 301, 302; Linguistics 201; three courses from Spanish 102, 205, 207, 208, 304, 341-348, 393; four semesters of Spanish 251-258. Six credits in study-abroad courses are required. (Education 355 is required as a professional education course.)
11. SPEECH COMMUNICATION/THEATRE: Endorsement 167. Communication 201, 220, 311; Education 232, 262; Theatre Arts 201, 202, 203, 212, 310. (Education 324 is required as a professional education course.)

Option IV: Middle School Classroom Teaching Endorsement (K-8 or 5-12); Endorsement 182

The professional education core (as listed on page 102) must be completed by all elementary and secondary students seeking the middle school classroom teaching endorsement. Student teaching will be one-half Education 373 (elementary) or Education 375 (secondary) and one-half Education 376 (middle level).

The elementary education major must be completed as described in option I. The Middle School endorsement will replace the field requirement. Students will earn the middle school classroom teaching endorsement by completing the program content courses listed.

The secondary education major must be completed as described in option V. Students will earn the middle school classroom teaching endorsement by completing the program content courses listed.

Program Content Courses (Credit Hours)

- Education 202 - Middle School Curriculum and Instruction (3)
- Education 216 - The Middle Level Child (3)
- Education 326 - Reading in the Content Areas (3) or
Education 206 - Adolescent Reading Interests (3)
- English 101 - Grammar and Composition (3)
- English 200 - Responding to Literature (3)
- Communication 110 - Fundamentals of Speaking and Listening (3)
- History 100 - Western Civilization Since the Renaissance (3)
- History 201 or 202 - American History (3)
- Geography 201 - World Regional Geography (3)
- Biology 101 or 102 - Biological Science (3)
- Physical Science 107 - Introduction to Physical Science (3)
- Mathematics 108 - Mathematics for the Elementary and Middle School Teacher (3)
- Mathematics 109 - Theory and Context of Middle Level Mathematics (3)
- Education 376 - Student Teaching—Middle Level (7.5)

Option V: 7-12 Secondary Subject Area Major

The following professional education core or certification requirements must be completed by all secondary education students:

Education 101 - Introduction to Education (3)
Education 201 - Curriculum and Instruction (3)
Education 104 - Pre-Student Teaching Field Experience I (1)
Education 203 - Media and Technology in Education (1.5)
Education 241 - Service Learning Field Experience (1.5)
Education 215 - Educational Psychology (3)
Education 301 - Introduction to the Education of Exceptional Students (3)
Education 374 - Student Teaching: Secondary (15)
Education 330 or 230 - Human Relations (3 or 1.5) plus units from other course work
Subject-specific methods course (3) - one from Education 350 - 359
Psychology 205 - Developmental Psychology I (3)
(In many states, Education 326 - Reading in the Content Areas, is required for licensure).

Secondary education students must also complete one of the following majors in order to fulfill the requirements for a teaching endorsement. (The term "endorsement" and the endorsement numbers are part of the Iowa licensure code.)

1. ART: Endorsement 114. Art 201, 202, 216, 370; three courses from Art 207, 208, 209, 210; three courses from Art 218, 220, 225, 228, 230, 240; two courses from Art 302, 316, 318, 320, 325, 328, 330, 340. (Education 350 is required as a professional education course.)
2. BIOLOGY
 - A. BIOLOGY: Endorsements 151 and 152 - Chemistry. Biology 115, 122, 200, 213; one course in botanical science from Biology 217, 316, 319, Agriculture 251, 313; one course in zoological science from Biology 201, 202, 301, 304, 312, Agriculture 315; four three-or four-credit elective courses in biology numbered above 200, with a strong recommendation that Biology 335 and either Biology 380 or 393 be included; one of the following sets of chemistry courses:
 - 1) Chemistry 103, 104, 201, and 202. Chemistry 205 is also strongly recommended.
 - 2) Chemistry 103, 104, followed by 102, and one from 203, 212, or 332 (Au Sable). Education 351 is required as a professional education course.)
 - B. BIOLOGY/GENERAL SCIENCE: Endorsements 151 and 154—General Science. Biology 115, 122, 200, 213, with a strong recommendation that Biology 335 and either Biology 380 or 393 be included; two elective courses in Biology numbered above 200; Chemistry 101, 102; Environmental Studies 151; one course from Astronomy 121, Biology 227, Earth Science 201, 202; Physics 115, 116. (Education 351 is required as a professional education course.)
 - C. Endorsement 154—General Science. This endorsement may be obtained by completing one of the following: the biology major with the addition of Physics 115 and 116; the biology/general science major; the chemistry/general science major; or the physics/general science major. (Education 351 or 353 is required as a professional education course.)
3. BUSINESS EDUCATION
 - A. BUSINESS—GENERAL: Endorsement 115. Business Administration 201, 202, 206, 301, 302; Business Education 112; Economics 200; one course from Business Education 323

or Computer Science 111; two three-hour course electives from business administration or business education. (Education 352 is required as a professional education course.)

- B. BUSINESS-MARKETING/MANAGEMENT: Endorsement 117. Business Administration 205, 206, 305, 308; Economics 202, 203; four courses from Business Administration 201, 202, 301, 302, Business Education 323, or Computer Science 111. (Education 352 is required as a professional education course.)
- C. BUSINESS-OFFICE: Endorsement 116. Business Administration 205; Business Education 112, 113, 211, 212, 321; two courses from the following combinations—Business Education 323 and 324 or Computer Science 111 with one advanced course in Computer Science from 112 or 120; two three-hour elective courses in business administration or business education. (Education 352 is required as a professional education course.)

4. CHEMISTRY

- A. CHEMISTRY: Endorsement 152. Chemistry 103, 104, 201, 202, 205, 301, 302; one course from Chemistry 311, 312, 321, 393; Mathematics 111 or 112; Physics 115, 116. (Education 353 is required as a professional education course.)
- B. CHEMISTRY/GENERAL SCIENCE: Endorsements 152 and 154—General Science. Chemistry 103, 104, 201, 202, 205 or 312, 311, 393; Biology 101, 102; Environmental Studies 151; one course from Astronomy 121, Biology 227, Earth Science 201, 202; Physics 115, 116. (Education 353 is required as a professional education course.)
- C. CHEMISTRY/PHYSICS: Endorsements 152 and 156—Physics. Chemistry 103, 104, 201, 202, and one course from 203, 205, 311, or 312; Physics 201, 202, 203, 206; Mathematics 112, 113; Chemistry 393 or Physics 393. (Education 353 or 359 is a required professional education course.)

Endorsement 155—Physical Science. This endorsement may be obtained by completing one of the following: the chemistry major with the addition of Astronomy 121 and 122, or Physical Science 201; the physics major with the addition of Astronomy 121 and 122, or Physical Science 201; or the chemistry/physics major with the addition of Astronomy 121. (Education 353 or 359 is required as a professional education course.)

- 5. ENGLISH/LANGUAGE ARTS: Endorsement 120. Education 206; English 201, 202, 301 or 302, 336; two courses from English 312, 314, 316, 318; three English courses above 200. (Education 326 is recommended; Education 354 is required as a professional education course.)
- 6. GERMAN: Endorsement 126. German 201, 202, 206, 301, 302; Linguistics 201; three courses from German 102, 207, 208, 341-348, 393; four semesters of German 251-258. One semester of study abroad is required. (Education 355 is required as a professional education course.)
- 7. HISTORY:
 - A. HISTORY—AMERICAN and WORLD: Endorsements 158 and 166. History 201, 202; one course from History 212, 213, 214; History 338 or 339; three world history electives from History 203, 205, 209-215, 303, 304, 307, 332, 341-348, 393; three American history electives from History 305, 309, 310, 313, 314, 315, 322, 341-348, 393. (NOTE: If History 338- United States History Seminar is chosen, one American history elective should be

deleted and one world history elective should be added.) (Education 356 is required as a professional education course.)

- B. HISTORY–WORLD: Endorsement 166. History 201, 202; one course from History 212, 213, 214; History 339; six courses from History 203, 205, 209, 210, 211, 212, 213, 214, 215, 303, 304, 307, 332, 341-348, 393. (Education 356 is required as a professional education course.)

Students who complete a history major can add an endorsement in American government, economics, psychology, or sociology by completing 15 semester hours in one of these social sciences:

- Endorsement 157–American Government. Five courses from Political Studies 212, 214, 322, 333, 370. (NOTE: One course taken on the American Studies Program may be substituted for one of the courses.)
 - Endorsement 160–Economics. Economics 202, 203, 303; two courses from Economics 305, 309, 315, 321, 333. (NOTE: 305, 309, 315, 321, and 333 are offered in alternate years.)
 - Endorsement 163–Psychology. Psychology 201, 210, 302; two courses from Psychology 206, 221, 225, 303, 315.
 - Endorsement 165–Sociology. Sociology 201, 216; three electives in sociology.
8. MATHEMATICS: Endorsement 143. Mathematics 112, 113, 200, 203, 206, 207, 208, 210, 304, 393; two courses from Mathematics 291-294; Computer Science 111. (Education 357 is required as a professional education course.)
9. MUSIC:
- A. MUSIC–CHORAL MUSIC EDUCATION: Endorsement 145. Music 103, 104, 203, 204, 207, 208, 315; one course from Music 306, 308, or 309; one course from Music 210, 211, 212, 305; Music 241-244; two semesters from Music 245, 246, 251, 252, 261, 262, 271, 272; Music 19; six semesters of Concert Choir or Chorale. (Music 312, 313, 323, and two semesters from 316-319 are required as professional education courses.)
 - B. MUSIC–INSTRUMENTAL MUSIC EDUCATION: Endorsement 145. Music 103, 104, 203, 204, 207, 208, 315; Music 305 or 306; Music 308 or 309; Music 271-274; two semesters from Music 241, 242, 251, 252, 261, 262, 275, 276; Music 14, 19; six semesters of Band or Orchestra. (Music 312, 314, 316-319 are required as professional education courses.)
 - C. MUSIC–CHORAL/INSTRUMENTAL MUSIC EDUCATION: Endorsement 145. Music 103, 104, 203, 204, 207, 208, 315, 241-244, 271-274; Music 305 or 306; Music 308 or 309; six semesters of Concert Choir or Chorale; six semesters of Band or Orchestra; Music 19. (Music 312, 313, 314, 316-319, and 323 are required as professional education courses.)
10. PHYSICAL EDUCATION: Endorsements 147 and 101–Coaching K-12. HPER 22, 26 or 30, 101, 203, 204, 205, 207, 208, 209, 304, 305, 325; two courses from HPER 212-215. (NOTE: HPER 212-215 are half-courses.)
11. PHYSICS
- A. PHYSICS: Endorsement 156. Physics 201, 202, 203, 206, 325, 335, 336; Chemistry 301;

- Mathematics 112, 113, 201, 204; one course from Physics 301-305, 326, 393. (Education 359 is required as a professional education course.)
- B. PHYSICS/GENERAL SCIENCE: Endorsements 156 and 154—General Science. Physics 201, 202, 203, 206; Chemistry 101, 102; Biology 101, 102; one course from Astronomy 121, Biology 227, Earth Science 201, 202; Mathematics 112, 113. (Education 359 is required as a professional education course.)
12. SPANISH: Endorsement 134. Spanish 201, 202, 206, 301, 302; Linguistics 201; three courses from Spanish 102, 205, 207, 208, 304, 341-348, 393; four semesters of Spanish 251-258. Six credits of study abroad courses are required. (Education 355 is required as a professional education course.)
13. SPEECH COMMUNICATION/THEATRE: Endorsement 168. Communication 201, 240, 241, 301, 314; Theatre Arts 201, 202, 203, 212, 310; one course from Communication 242, 246; one course from Communication 220, 230, Education 206, Theatre Arts 304. (Education 358 is required as a professional education course.)

Option VI: Secondary Certification 7-12 With an Added Minor

An academic minor provides an added teaching endorsement (The term “endorsement” and the endorsement numbers are part of the Iowa licensure code.) Minors may be selected from the following. See also options VII and VIII.

1. AMERICAN GOVERNMENT: Endorsement 157. Political Studies 201, 212, 214, 322, 333, 370. (Note: Political Studies 393 or a semester of participation in the American Studies Program may be substituted for one of the courses above.) (Education 356 is required as a professional education course.)
2. ART: Endorsement 114. Art 201, 202, 210, 216; one course from Art 207, 208, 209; two courses from Art 218, 220, 225, 228, 230; one course from Art 302, 316, 318, 320, 325, 328, 330. (Education 350 is required as a professional education course.)
3. BIBLE: No state endorsement is available. Theology 204 and 307 or 311; two courses from Theology 211-214; two courses from Theology 215-219; Education 224.
4. BIOLOGY: Endorsement 151. Biology 115, 122, 200, 213; four three- or four-credit courses or minimum of ten semester hours of biology numbered above 200. (Education 351 is required as a professional education course.)
5. BUSINESS—GENERAL: Endorsement 115. Business Administration 201, 202, 206, 301, 302; Business Education 112; Economics 200; Business Education 323 or Computer Science 111. (Education 352 is required as a professional education course.)
6. BUSINESS—MARKETING/MANAGEMENT: Endorsement 117. Business Administration 205, 206, 305, 308; Economics 202, 203; two courses from Business Administration 201, 202, 301,

- 302, Business Education 323 or Computer Science 111. (Education 352 is required as a professional education course.)
7. BUSINESS—OFFICE: Endorsement 116. Business Administration 205; Business Education 112, 113, 211, 212, 321; two courses from the following combinations—Business Education 323 and 324 or Computer Science 111 with one advanced course in computer science from 112 or 120; (Education 352 is required as a professional education course.)
 8. CHEMISTRY: Endorsement 152. Chemistry 103, 104, 201, 202, 205, and two electives (suggested from 203, 212, 312, Au Sable 332). (Education 353 is required as a professional education course.)
 9. COMPUTER SCIENCE: No state endorsement available. Business Administration 210; Computer Science 111, 112, 120, 131, and 301 or 393. Mathematics 107 and one mathematics course numbered 109 or higher. This minor equips persons with the knowledge and skills necessary to use computer applications in the classroom, to investigate and develop additional uses, and to aid other staff members in computer uses.
 10. ECONOMICS: Endorsement 160. Economics 202, 203, 303, 305, 309, 315, 321, 334. (Note: 305, 309, 315, 321, and 334 are offered in alternate years.)
 11. ENGLISH/LANGUAGE ARTS: Endorsement 120. Education 206, 326; English 201 or 202; English 301 or 302; English 336; two courses from English 312, 314, 316, 318; two English courses numbered above 200. (Education 354 is required as a professional education course.)
 12. GENERAL SCIENCE: Endorsement 154. Biology 115, 122; Chemistry 101; Environmental Studies 151; Physics 115, 116; two elective courses in biology, chemistry, earth science, or physics. (Education 351 or 353 is required as a professional education course.)
 13. GERMAN: Endorsement 126. German 201, 202, 206, 301, 302; three semesters of German 251-258; two courses from German 341-348, 393. Study-abroad courses are recommended. (Education 355 is required as a professional education course.)
 14. HEALTH: Endorsement 138. HPER 101, 202, 204, 205, 207, 209, 211, 304; Sociology 302.
 15. HISTORY—AMERICAN: Endorsement 158. History 201, 202; six courses from History 305, 309, 310, 313, 314, 315, 322, 341-348, 393. (Education 356 is required as a professional education course.)
 16. HISTORY—WORLD: Endorsement 166. Eight courses from the following: History 203, 205, 209-215, 303, 304, 341-348. (Education 356 is required as a professional education course.)
 17. JOURNALISM: Endorsement 141. Communication 240, 241, 242, 246, 301. (Education 354 or 358 is required as a professional education course.)

18. MATHEMATICS: Endorsement 143. Mathematics 112, 113, 203, 208, 210; three mathematics courses numbered 200 or above; Computer Science 111. (Education 357 is required as a professional education course.)
19. PHYSICAL EDUCATION: Endorsement 147. HPER 22, 26 or 30, 101, 203, 204, 205, 207, 208, 304 or 305; two courses from HPER 209, 212-215, 325. (Note: HPER 212-215 are half-courses. Only two may be applied to the minor.)
20. PHYSICAL SCIENCE: Endorsement 155. Chemistry 103, 104; Physics 201, 202; Astronomy 121; Physical Science 201. (Education 353 or 359 is required as a professional education course.)
21. PHYSICS: Endorsement 156. Physics 201, 202, 203, 206, 325; two elective courses in physics. (Education 359 is required as a professional education course.)
22. PSYCHOLOGY: Endorsement 163. Psychology 201, 205, 207, 210; four three-hour elective courses in psychology. (Education 356 is required as a professional education course.)
23. SOCIOLOGY: Endorsement 165. Sociology 201, 207, 210, 215, 216; three three-hour elective courses in sociology and/or social work. (Education 356 is required as a professional education course.)
24. SPANISH: Endorsement 134. Spanish 201, 202, 206, 301, 302; three semesters of Spanish 251-258; two courses from Spanish 205, 304, 341-348, 393. Three credits in study-abroad courses are required. (Education 355 is required as a professional education course.)
25. SPEECH COMMUNICATION/THEATRE: Endorsement 168. Communication 201, 240, 241, 314; Education 262 or Theatre Arts 202; Theatre Arts 201, 212, 310; one course from Communication 242, 246, or Theatre Arts 203. (Education 358 is required as a professional education course.)

Option VII: Special Education K-6 or 7-12 Major or Minor

Completion of the special education major or minor will allow students to serve as a multicategorical resource room teacher for students with mild disabilities. Students seeking the endorsement in special education must also complete all requirements for the general elementary teaching endorsement (Option I) or a secondary major endorsement (Option V). (The term "endorsement" and the endorsement numbers are part of the Iowa licensure code.) A GPA of 3.00 or above is required for a major or minor in special education.

Special Education K-6 or 7-12 (Major)

1. K-6 MULTICATEGORICAL RESOURCE TEACHER—MILDLY DISABLED: Endorsement 221. Education 232, 301, 303, 304, 305, 306, 309, 312, 326, 327, 329, 378.
2. 7-12 MULTICATEGORICAL RESOURCE TEACHER—MILDLY DISABLED: Endorsement 222. Education 232, 301, 304, 305, 306, 308, 309, 312, 313, 326, 327, 379.

Special Education K-6 or 7-12 (Minor)

1. K-6 MULTICATEGORICAL RESOURCE TEACHER—MILDLY DISABLED: Endorsement 221. Education 301, 303, 304, 305, 306, 309, 312, 327, 378 and one course from Education 232, 326, 329.
2. 7-12 MULTICATEGORICAL RESOURCE TEACHER—MILDLY DISABLED: Endorsement 222. Education 301, 304, 305, 306, 308, 309, 312, 313, 327, 379.

Option VIII: Special Endorsements**1. ENDORSEMENTS ON BOTH ELEMENTARY AND SECONDARY LEVELS**

A K-6 endorsement and a 7-12 endorsement to teach in a selected academic area may be obtained by completing the major and the professional requirements on both levels. The K-6 and 7-12 majors are similar in most academic areas. The professional education requirements are as listed under Option I and include an appropriate methods course and student teaching on both elementary and secondary levels. This option is intended primarily for art, music, and physical education majors.

2. ATHLETIC COACH K-12: Endorsement 101

The following courses with an education degree qualify an applicant to be a *head coach* or *assistant coach* in all sports at all levels.

HPER 204 - Physiology of Physical Activity

HPER 207 - First Aid and Athletic Injuries

HPER - Coaching Theory (any two from 212-215)

Psychology 205 - Developmental Psychology

These courses also meet the State of Iowa's requirement for the coaching authorization available for those who have not completed an education degree. The coaching authorization allows the holder to be head coach or assistant coach in all sports at all levels.

3. ENGLISH AS A SECOND LANGUAGE K-12: Endorsement 104

This endorsement may be obtained by completing a major in either elementary education or in one of the secondary programs, student teaching ESL on both the elementary and secondary levels, and completion of the courses indicated below. A GPA of 3.00 is required for students seeking this endorsement.

Linguistics 201 - Introduction to Linguistics

Linguistics 301 - Phonology

TESL 371 - Foundations of ESL/EFL Teaching

TESL 372 - Teaching ESL/EFL: A Practicum

Foreign Language 201 - Intermediate Foreign Language

Education 355 - Methods of Teaching a Foreign Language

English 336 - English Grammar

Sociology 216 - Racial and Ethnic Minorities in Society

One course from the following:

English 203 - Ethnic American Literature

English 335 - History of the English Language

Foreign Language 202 - Literature and Cultural Readings

Foreign Language 206 - Foreign Language Culture

Student Teaching

- I Elementary education majors and ESL endorsement 104:
Student teaching in ESL must be split into teaching ESL at the elementary level and the secondary level for one part of the student teaching period; the other part of the student teaching period must be in the regular elementary education classroom.
- II Secondary education students and ESL endorsement 104:
Student teaching must be split into elementary and secondary ESL for one period of the student teaching period; the other part of the student teaching period will have to be in the other endorsement area.

Master of Education Degree

The following program in school curriculum and instruction meets the master's degree requirement in a recognized endorsement area for a Professional Teacher's License in the State of Iowa.

- Education 500 - Introduction to Graduate Research
- Education 501 - Current Issues in Education
- Education 502 - Learning Theories for Today's Student
- Education 521 - Structuring School Curriculum
- Education 522 - Constructing Thematic Units
- Education 531 - Implementing Instructional Strategies
- Education 532 - Inclusion of Students with Special Needs
- Education 533 - Integrating Technology and Education
- Education 540 - Practicum in Curriculum and Instruction
- Education 590 - Master's Project

Associate of Arts Degree Options

The education department offers the following areas of concentration for an A.A. degree. See the "Academic Program" section for the general requirements for all A.A. programs.

Associate of Arts/Special Education Aide:

Education 101, 201, 104, 301, 309; four courses from Education 303 or 313, 304, 305, 306, 308, 312; two courses from Education 111, 205, 211, 215, 232, 262, 311, 203/321, 322, Geography 201, Mathematics 108, HPER 207; Communication 110; Psychology 205; two HPER activities.

Associate of Arts/Teacher Aide:

Education 101, 111, 201, 104, 301; five courses from Education 203/321, 205, 211, 215, 232, 262, 311, 322, HPER 207, Geography 201, Mathematics 108; Communication 110; Psychology 205; two HPER activities.

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- 101 **Introduction to Education (3)** Fall, Spring
Designed to introduce students to the domain of education and to induct them into initial understanding of teaching and the teaching profession. Emphasis is on the development of a distinctively Christian

approach to education. Topics considered include the philosophical, historical, social, and political contexts of education. Introductory attention is given to curricular and instructional issues.

- 104 Pre-Student Teaching Field Experience I (1)** Fall, Spring
A field experience of at least 20 hours in a local school. Required of all elementary, middle, and secondary education students. Prerequisites: Education 101 and concurrent enrollment in Education 201. Graded on a Pass/No-record basis.
- 111 Elementary School Health and Physical Education (3)** Fall, Spring
Provides general background and information needed for formulating and teaching a suitable program in health and physical education. This class is not open to elementary education students pursuing physical education teaching minors.
- 201 Curriculum and Instruction (3)** Fall
Introduces students to an understanding of curricular and instructional theory and practice. Emphasis is on the development of a distinctively Christian approach to the classroom. Various perspectives on curriculum and instruction are critically examined. Students practice curriculum construction and lesson planning. Prerequisites: Education 101 and concurrent enrollment in 104 or admission into T.E.P. or departmental approval.
- 202 Middle School Curriculum and Instruction (3)** Fall Odd
Introduces students to curriculum design and instruction for the middle school. Emphasis is on pedagogy and methods appropriate to the developmental needs of the middle-level child. Attention is given to traditional and emerging techniques and innovations including interdisciplinary teaming, advisor/advisee relationship, exploratory curriculum, and integrated curriculum. The course also provides a study of the middle school concept, its philosophy and the distinctive components and characteristics of exemplary middle schools. Prerequisite: Education 101 or departmental approval.
- 203 Media and Technology in Education (1.5)** Fall, Spring
An opportunity to use technology to more effectively achieve educational objectives. Students review and use current software packages, prepare a lesson on videotape (microteaching), and consider the implications of technological change for teaching. Prerequisite: Education 101
- 204 Pre-Student Teaching Field Experience II (1)** Fall, Spring
A field experience of at least 40 hours completed by elementary, middle, and secondary education students in schools of their choice. Prerequisite: Education 104 or its equivalent and admission to the teacher education program. Graded on a Pass/No-record basis.
- 205 Children's Literature (3)** Fall, Spring
A wide selection of children's books is read and examined for use in the elementary and middle level curriculum. Emphasis is put on reading and responding to books from many different genres. Ways to encourage reading and interacting with texts are discussed and practiced. Prerequisite: Education 101.
- 206 Adolescent Reading Interests (3)** Fall Even
Examines the development of adolescent literature as a genre and exposes the student to a wide selection of writing and authors. The course emphasizes appreciation for literature that endures and that promotes Christian perspectives, and it provides the student with a background for implementing reading programs at the middle school and high school levels. Offered in alternate years. Prerequisite: Education 101.

- 211 Art for the Elementary Teacher (3)** Fall
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. Prerequisite: Education 201.
- 215 Educational Psychology (3)** Fall, Spring
An application of psychology to various aspects of the field of education. Emphasis is placed on developing a biblical view of the student, motivation, classroom management, learning theory, and evaluation, and how each area influences teaching strategies. Prerequisite: Psychology 205 or enrollment in the youth ministry emphasis of the theology major.
- 216 The Middle-Level Child (3)** Fall, Spring
Addresses the unique emotional, physical, intellectual, social and spiritual characteristics and needs of the middle-level child. Emphasis is on developing a biblical view of the student, motivation techniques, classroom management, learning theory, principles of guidance, assessment of ability and achievement, and teaching strategies. Prerequisites: Education 101; Psychology 205.
- 223 Teaching Bible in the Elementary and Middle School (1.5)** Fall, Spring
Designed to discuss the role of Bible teaching in the Christian school, to examine curriculum materials, to develop pedagogical skills for teaching Bible, and to involve students in the designing of their own appropriate curriculum materials. Prerequisite: Education 101.
- 224 Teaching Bible to Adolescents (3)** Fall Even
Discussion of a Reformed approach to the teaching of Bible. This course includes the study of the nature of faith, adolescent faith development, Reformed hermeneutics, pedagogical skills for teaching the Scriptures, and methods and content of the secondary (7-12) Bible curriculum. The course will cover theological and pedagogical foundations and the practical content of teaching Bible. Prerequisite: Open to upperclassmen. [Cross-listed: Theology 224]
- 230 Multicultural Issues in Education (1.5)** Fall, Spring
Intended to familiarize prospective teachers with issues of race, gender, social class, and culture as they relate to the educational process. Specifically, students will become familiar with historical and current practices in schools and society which reflect dehumanizing and unbiblical biases such as sexism, racism, prejudice, and discrimination. In addition, students will become aware of ways in which teachers can promote a curriculum and an educational environment which is free of such biases and will instead reflect a perspective which is pluralistic in its orientation and promote a biblical view of the person. Prerequisite: Education 101.
- 232 Interpersonal Communication for the Classroom Teacher (3)** Fall
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. Prerequisite: Education 201.
- 241 Service Learning Field Experience (1.5)** Fall
A second teacher education field experience, designed to be taken in conjunction with Education 215, 230, and 301 in the fall semester of an education student's junior year. Students assist in classrooms for a total of 60 hours. Experiences gained in the field are addressed in the concurrent education courses. Prerequisite: Education 104 or its equivalent and admission to the teacher education program. Graded on a pass/fail basis.

- 262 Creative Dramatics for Children (3)** Spring
An introduction to informal dramatics for the classroom, especially elementary and middle school. Emphasis is on dramatic activity requiring minimal equipment and facilities. Field experience required in area schools. Prerequisite: Education 101.
- 301 Introduction to the Education of Exceptional Students (3)** Fall, Spring
An introduction to the education of those who have special needs or talents. Emphasis is on current and future trends in both special and regular education and their implications for learners who have special needs. Instructional approaches which increase integration between regular and special education students are presented. Prerequisite: Education 101.
- 303 Instructional Methods and Strategies for the Education of Students with Mild Disabilities—Elementary and Middle Grades (3)** Fall Even
Deals with the instruction of students with mild disabilities such as learning disabilities, mild behavior disorders and mild mental retardation. Focus is on strategies directed toward the successful integration of students with mild disabilities into the regular elementary and middle level classroom. Prerequisite: Education 301.
- 304 Introduction to Behavior Management (3)** Fall Odd
An introduction to understanding and working with behavior problems commonly found in children and adolescents. Students will become familiar with the identification and assessment of problem behaviors, planning classroom interventions, monitoring progress, choosing corrective strategies, and supporting interventions beyond the classroom. This course has implications for both the regular and special education teacher. Prerequisite: Education 301 or Psychology 205.
- 305 Methods and Strategies for the Education of Students with Mental Disabilities (3)** ... Fall Even
Deals with the instruction of students who have been identified as having a mental disability. Special focus is on the use of instructional strategies and the development of curriculum which is directed toward those with mild or moderate mental disabilities. Prerequisite: Education 301.
- 306 Assessment and Diagnosis in Special and Remedial Education (3)** Fall
Introductory course in the use of assessment techniques in special and remedial education. Various formal and informal assessment techniques are examined and applied to the development of educational programs which meet the needs of the handicapped. Prerequisite: Education 301.
- 308 Career and Vocational Education for the Disabled (3)** Occasional
Designed to examine vocational and career programming for the mentally disabled adolescent. Emphasis is on the examination of work experience programs, vocational training, and vocational evaluation. Prerequisite: Education 302.
- 309 Supervised Practicum in Special Education (1)** Fall, Spring
A supervised field experience that allows the student to aid/observe in a special education classroom. The practicum is provided in a setting appropriate for the endorsement sought. Prerequisite: Education 301. Graded on a pass/no-record basis.
- 311 Materials of Elementary Music Education (3)** Spring
Provides background skills and materials necessary for the prospective elementary teacher. Not open to those majoring or minoring in music. Prerequisite: Education 201
- 312 Introduction to the Education of Children and Youth with Mild Disabilities (3)** Fall Odd
A survey course dealing with the provision of educational services to mildly handicapped children and

youth, with a special focus on issues and approaches related to a multicategorical approach. Prerequisite: Education 301.

- 313 Instructional Methods and Strategies for the Education of Students with Mild Disabilities—Middle Grades and Secondary (3)** Fall Even
Deals with the instruction of students with mild disabilities such as learning disabilities, mild behavior disorders, and mild mental retardation. Focus of the course is on strategies directed toward the successful integration of students with mild disabilities into the regular middle level and senior high classroom. Prerequisite: Education 301.
- 321 Teaching Social Studies in the Elementary and Middle School (1.5)** Fall, Spring
An introduction to a basic framework for social studies teaching with focus on methodologies, lesson and unit planning, learning resources, classroom organization, and new-tech media. Includes practical applicatory activities for each major topic. Pre- or co-requisite: Education 201.
- 322 Teaching Mathematics in the Elementary and Middle School (3)** Spring
Mathematics for the student who plans to teach in the elementary and middle school. Mathematics foundations, the number systems, and different methods of calculation are taught. Methods, materials, goals, and means of evaluating the teaching of mathematics are emphasized. Prerequisites: Education 201; Mathematics 108.
- 323 Teaching Reading in the Elementary School (3)** Fall
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. Prerequisite: Education 201.
- 324 Teaching Language Arts in the Elementary and Middle School (1.5)** Fall, Spring
A basic course in the principles, techniques, materials, and methods of teaching English grammar and composition, spelling, handwriting, listening, and speaking. Prerequisite: Education 201.
- 325 Teaching Sciences in the Elementary and Middle School (1.5)** Fall, Spring
A basic course in the principles and techniques of teaching natural sciences. The primary focus is on the development of materials for use in the elementary and middle-level science classroom. Prerequisite: Education 201.
- 326 Reading in the Content Areas (3)** Fall
Designed to enhance the use of text materials in the elementary and secondary classroom. Attention is given to organizational and study skills necessary for content learning and to the development of functional techniques for teaching content materials. Prerequisite: Education 201.
- 327 Diagnosis and Remediation of Reading Difficulties (3)** Spring
A study of the causes of reading difficulties in the elementary, middle-level, and secondary school, their diagnosis and correction in both classroom and remedial setting. Prerequisite: Education 323 for elementary education students; secondary education students must see the instructor.
- 328 Supervised Practicum in Reading (1)** Spring
This course gives the pre-service teacher an opportunity to work with a student who is experiencing reading difficulties. Prerequisites: Education 323 and concurrent enrollment in Education 327. Graded on a pass/fail basis.

- 329 Reading in Early Childhood (3)** Spring
Designed to cover the methods and materials appropriate for developing literacy in children up to age eight. Special attention is given to oral and written language development and to reading. Phonics and other beginning reading strategies are emphasized. Prerequisites: Education 201 and 323.
- 330 Human Relations in Education (3)** Occasional
Designed to develop an awareness of the responsibility of educators to establish educational programs that develop a sensitivity to and understanding of the different culture/ethnic groups in a pluralistic society. Includes a history of the discrimination that many minority groups have encountered in North America and educational strategies for dealing with problems minority groups have experienced in the educational process.

Note: Education 201 is prerequisite to all secondary methods courses numbered from 350 to 359.

- 350 Methods of Teaching Art (3)** Fall Even
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)** Fall
A review of recent trends in biology teaching in the middle-level and secondary classroom. 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)** Fall
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)** Fall
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)** Fall
Discussion of a Christian approach to the teaching of English in middle and secondary schools. Methods and approaches to teaching literature, reading, 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)** Fall Odd
Presentation of various methods of teaching a second language in middle and secondary schools. This course includes teaching of listening, speaking, reading, and writing skills. Phonetics, morphology, syntax, meaning, vocabulary, culture, and literature are emphasized. A survey of ESL and foreign language materials is included.
- 356 Methods of Teaching History and Social Studies (3)** Fall
Discussion of a Christian approach to the teaching of history in middle and secondary schools. Emphasis is on current methods of teaching history and consideration of practical suggestions in classroom procedure.

- 357 Methods of Teaching Mathematics (3)** Spring
Methods of effective teaching of mathematics in middle and secondary schools. Prospective teachers attain understanding of the basic mathematics taught at the secondary level.
- 358 Methods of Teaching Speech (3)** Occasional
A study of the concerns of the speech teacher in the middle and 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)** Fall
A review of recent trends in physics teaching in middle and secondary schools. 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.

Note: See page 101 for prerequisites to all courses numbered from 371 to 379.

- 371 Student Teaching—Reading (7.5)** Fall, Spring
Students will work with qualified cooperating teachers in an elementary remedial reading classroom. Intended for those who student teach in both the regular elementary classroom and the remedial reading classroom. Prerequisite: Education 327.
- 372 Student Teaching—Elementary (15)** Fall, Spring
Students work full days with qualified cooperating teachers in the elementary school.
- 373 Student Teaching—Elementary (7.5)** Fall, Spring
Same as above except for fewer hours of credit. Intended for those who student teach on two levels or for those who student teach both in the regular elementary classroom and in the special education classroom.
- 374 Student Teaching—Secondary (15)** Fall, Spring
Students work full days with qualified cooperating teachers in the secondary school.
- 375 Student Teaching—Secondary (7.5)** Fall, Spring
Same as above except for fewer hours of credit. Intended for those who student teach on two levels or for those who student teach both in the regular secondary classroom and in the special education classroom.
- 376 Student Teaching—Middle Level (7.5)** Fall, Spring
Students work full days with qualified teachers in a middle-level grade (5-8) or multigrade situation.
- 378 Student Teaching—Multicategorical Resource K-6 (7.5)** Fall, Spring
Students work full days with qualified teachers in K-6 multicategorical resource rooms.
- 379 Student Teaching—Multicategorical Resource 7-12 (7.5)** Fall, Spring
Same as Education 378 except that teaching is done in a secondary program.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Graduate Courses

The following 500-level courses are graduate education courses, closed to undergraduate students unless they have completed all degree requirements except student teaching.

- 500 Introduction to Graduate Research (3)** Spring, Summer
An introduction to the search, retrieval, and review of educational literature, including the use of the Educational Resources Information Center (ERIC) data base. The course also deals with basic statistical concepts and the APA format for writing research papers. The purpose of the course is to prepare students to research, analyze, and interpret educational literature and to become familiar with the writing requirements associated with graduate-level course work.
- 501 Current Issues in Education (3)** Summer
Critically examines the philosophical and historical background and context of contemporary educational practice. The focus is on the key issues currently affecting the areas of teaching, curriculum, learning, and the school as an institution. Emphasis falls on relating philosophical and historical contexts to daily classroom practice. The course is not designed for philosophers or historians, but for school teachers and advanced education students.
- 502 Learning Theories for Today's Student (3)** Summer
Presents a biblical model of the student, develops a theory of learning based on this model, and extrapolates these into instructional practices for the classroom. Contemporary models of humankind and their theories of learning are examined and evaluated against a biblical framework.
- 521 Structuring School Curriculum (3)** Summer
Examines and develops curricular structure for the school. State or provincial standards are examined. A school-wide course of study with a scope and sequence is developed, based on a biblical orientation and creational structure. The structure of each sphere of reality and its relationship to other spheres are examined.
- 522 Constructing Thematic Units (3)** Summer
Examines and develops curriculum materials as they are used within a particular classroom or grade level. Textbooks, software, and other curricular materials are evaluated against Christian pedagogical criteria. Integrated units of study are written for use in the students' classrooms.
- 531 Implementing Instructional Strategies (3)** Summer
Introduces instructional strategies which acknowledge both the biblical nature of the student and the structure of knowledge within each sphere of study. The work of the Dordt College Center for Educational Services is shared, examined, and practiced as it relates to instructional strategies in the classroom. The guiding-unfolding-enabling model serves as a framework in the development of distinctively Christian pedagogy.
- 532 Inclusion of Students with Special Needs (3)** Summer
Designed to increase the abilities of regular classroom teachers to identify and meet the instructional and social behavioral needs of all students, including those who have mild disabilities or who may be identified as talented and gifted. Students become familiar with classroom-based procedures for identifying which students have difficulties in class, what those difficulties are, and why the difficulties persist. This course helps students discover strategies that allow all students to succeed in the general class. This course assumes that students have taken an overview of exceptionalities course previously.

- 533 Integrating Technology and Education (3)** Fall, Summer
Deals with the integration of computer usage into each subject area to enhance and expand the learning mode. Such usage includes keyboarding, word processing, desk-top publishing, information retrieval telecommunications, computer-assisted drawing or graphics, simulations, and computer-assisted instruction. Plans are developed on how to move from the present realities of computer usage to an ideal setup within a school.
- 540 Practicum in Curriculum and Instruction (3)** Summer
Deals with the practice of biblical servant leadership within professional and curriculum development in the school. Specifically, it examines how teachers may help other experienced or inexperienced teachers develop teaching skills or curriculum. It suggests ways of mentoring other teachers and helping them establish guidelines for writing and evaluating curriculum. It examines how curriculum coordinators can help teachers discover sound principles of teaching, organizing, and evaluating learning experiences. Prerequisite: Completion of (or in process of completing) the first eight courses in the program.
- 541 The Administrator's Role in Staff Leadership and Development (3)** Summer
Designed for those whose responsibilities include staff leadership and development. It focuses on the management of teachers, the orientation of a faculty to the teaching profession, helps set measurable goals for teachers, develops a teacher-mentor program, and considers innovative ideas and trends in the area of teacher development.
- 542 Reformed Christian Worldview in Education (3)** Summer
Explores general purposes of education, particularly Christian ones. The course will include a study of the nuances of a Reformed Christian view of the world as it relates directly to education. It is designed for leaders or prospective leaders (curriculum chairs, principals, or assistant principals) in Christian schools. The key instructional means will be reactions (discussion and writing) to readings, lecture, trial presentations of making a worldview clear to followers, and a paper in which the writer expresses a Reformed Christian worldview and how that view colors a crucial area of schooling.
- 590 Master's Thesis (3)** Summer
The master's thesis is the culmination of a student's program. It includes an introduction of the issues for a particular curricular or instructional area, a thorough review of the literature, analysis and evaluation of major research findings on the topic of concern, and a discussion of the implications of the research on the student's own teaching.

Engineering

The mission of faculty in the engineering department is based on an awareness of a calling that Christian engineers have as God's covenant people to bring every area of life under the lordship of Christ. Our mission then, is to educate engineers who can operate across traditional dualisms such as sacred versus secular, humanities versus sciences, body versus spirit, professional versus layperson.

Dordt engineering professors hear repeatedly at professional conferences that companies and graduate schools want broadly educated engineers who can speak and write as well as they can solve equations—engineers who have technical insight as well as good interpersonal skills—engineers who can manage their time and priorities as well as find a clever solution to a problem. Set in the context of a liberal-arts college, Dordt's rigorous engineering major is designed to provide this type of broad education. Communication skills, social awareness, Christian perspective, aesthetic sensitivity, and technical expertise are important outcomes of our four-year engineering curriculum.

Engineering design work involving the integration mentioned above starts in the freshman year with a design project that introduces students to the process of engineering design. Sophomore and junior engineering course work involves some laboratory projects that focus on particular elements of design work, especially the technical elements. Some junior-level labs require students to present their design work. This is intended to serve as preparation for the senior project course. Although the time needed to complete these junior-level labs is much less than a senior project requires, many of the elements of a senior design project are present. A capstone senior design project provides students with an opportunity to put into practice all that they have learned. All senior projects are done in teams, and some senior projects are done in cooperation with industry. Therefore, teamwork and project management are also necessary to the successful completion of the senior project.

Every student in the engineering major must also choose an engineering faculty member as his or her advisor.

The engineering curriculum was revised in the fall of 1999. For background information on the revision refer to the Engineering Department's World Wide Web pages or contact a department faculty member. (The URL is <http://www.dordt.edu/dept/engineering>.)

(The engineering major is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.)

General Major—

Core: (common to all emphases) Chemistry 103; Mathematics 112, 113, 201, 204; Physics 201, 202; Engineering 103, 104, 202, 204, 220, 221, 299, 310, 362, 379, 380, 390; two courses including one mathematics course from Mathematics 203, 206, 209, 311, 315, Biology 115, 122, Chemistry 104, or Environmental Studies 151 (students in the mechanical emphasis may also take Physics 203 for this requirement.).

Students must select one of the following emphases:

Electrical: Core; Physics 203; Engineering 304, 322, 323; Engineering 306 or 366; Engineering 360 or 363.

Mechanical: Core; Engineering 208, 209, 302, 303, 315; Engineering 320 or 350 or 351.

Engineering Science

The engineering science major shares the same mission as the engineering major but puts greater emphasis on basic science and allows more flexibility in course selection.

The engineering curriculum was revised in the fall of 1999. For background information on the revision refer to the engineering department's World Wide Web pages or contact a department faculty member. (The URL is <http://www.dordt.edu/dept/engineering>.)

(The Engineering Science major has not been examined nor accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.)

General Major—

Core: (common to all emphases) Chemistry 103, 104; Mathematics 112, 113, 201, 204; Physics 201, 202; Engineering 103, 104, 202, 390; a mathematics/ science elective consisting of one course from Mathematics 203, 206, 209, 311, 315, Biology 115, 122, Physics 203, Environmental Studies 151.

Students must select one of the following emphases:

General: Core; six engineering courses providing a coherent sequence as approved by the engineering department; three courses from the natural sciences and having approval of the engineering department; one course from Mathematics 203, 206, 209, 311, 315 (in addition to the core mathematics/ science elective).

Agricultural: Core; Engineering 208, 209, 315; Agriculture 101, 111, 221; three elective courses in agriculture; three engineering courses providing a coherent sequence as approved by the engineering department; one course from Mathematics 203, 206, 209, 311, 315 (in addition to the core mathematics/science elective).

Business Administration: Core; Business Administration 201, 202, 205, 225, 313; one business administration elective or one course from Mathematics 203, 206, 209, 311, 315 (in addition to the core mathematics/science elective); Economics 202, 203, 305; six engineering courses providing a coherent sequence as approved by the engineering department.

Chemistry: Core; Chemistry 104, 201, 202, 212, 301, 302; two courses from Chemistry 205, 311, 312, 321; one course from Mathematics 203, 206, 209, 311, 315 (in addition to the core mathematics/science elective); Engineering 208, 209; three engineering courses providing a coherent sequence as approved by the engineering department.

Computer: Core; Computer Science 111, 112, 202, 205, 208; Mathematics 212; one course from Mathematics 203, 204, 206, 209, 311, 315; Engineering 204, 220, 304; three engineering courses providing a coherent sequence as approved by the engineering department.

Physics: Core; Physics 203, 325, 326, 335, 336; Chemistry 301, 302; Engineering 220, three engineering courses providing a coherent sequence as approved by the engineering department.

103 Introduction to Engineering I (4) Fall
 An introductory course for freshman students in engineering dealing with Christian perspectives of technology, introductions to statics, electric circuits, linear algebra, complex numbers, and vectors. Students will also gain facility with the computer by using computational software. In the laboratory portion of the course students will learn uncertainty analysis and report writing, motivated by hands-on activities involving mechanics and electric circuits.

- 104 Introduction to Engineering II (4)** Spring
The second course in the freshman sequence is an introduction to engineering design and graphics. It includes discussion of the economic, aesthetic, social, and ethical aspects of design, as well as project management and team building. The course culminates in small-group design projects. An introduction to computer-aided drawing and solid modeling is given utilizing AutoCAD software in the laboratory portion of the course. Included are various aspects of technical drawings, such as orthographic projection and auxiliary views, isometric and oblique pictorials, sections, dimensioning, and tolerances.
- 202 Elements of Materials Science (3)** Spring
Introduces the chemistry and physics of engineered materials including crystalline, amorphous ceramic, and polymeric materials. Introductory topics in metallurgy in this course include the examination of effects of processing (heat treatment and manufacturing) and service environment on microstructure and properties. Prerequisites: Chemistry 103; Physics 201.
- 204 Introduction to Microprocessors and Digital Circuits (4)** Fall
Digital circuits are covered, from simple logic gates through elementary microprocessor architecture. The course begins with elementary logic for binary systems, Boolean algebra, binary integer number formats and arithmetic and combinational design. Intermediate topics include synchronous state machine design and register level concepts. The course concludes with topics in microprocessor architecture which include elementary assembly language and interfacing. Laboratory exercises provide experience in logic design and microprocessor interfacing. This course serves both computer science and engineering students. Prerequisite: Physics 116 or 202 or Engineering 103.
- 208 Statics and Strength of Materials (4)** Fall
The first in a series of engineering mechanics courses (209, 315), this course covers the effects of forces and moments applied to mechanical systems at rest. The first part of the course covers analysis of both concentrated and distributed force systems applied to static particles, rigid bodies, trusses, frames, and machines. This is followed by an analysis of the types of stress and deformation in materials. The Mohr Circle technique is used to examine the reactions of materials under a variety of loading conditions, including multiaxial loads, shear and bending in beams, torsion, and loading of columns. Failure theories are introduced. Beam design and column design are considered in some detail. Prerequisite: Physics 201.
- 209 Kinematics and Dynamics (4)** Spring
Deals with the kinematics and dynamics of particles and rigid bodies with application to mechanisms such as the slider crank, four-bar mechanism, gears, and cams. Extensive use is made of computer software for working with vectors and matrices. Prerequisite: Engineering 208.
- 220 Linear Circuits and Electronics (4)** Fall
Assumes a prerequisite knowledge of DC electrical circuits including the definitions of electrical quantities, circuit elements (sources, resistors, capacitors, inductors), understanding of Kirchhoff's laws and basic concepts in AC circuits such as frequency and phase. Topics in this course include general linear circuit analysis including Norton's and Thevenin's theorems, superposition, nodal and loop analysis, natural and forced responses in RLC circuits, and sinusoidal steady state analysis. The course also gives introductions to operational amplifier circuits, single stage BJT and FET transistor circuits and steady-state balanced 3-phase power calculations. Prerequisites: Mathematics 113 and one of Engineering 104 or Physics 116 or 201.
- 221 Linear Systems Analysis (4)** Spring
This is a course in the characterization of linear systems in terms of differential and difference equations, superposition, convolution, transfer function and frequency response. Emphasis is on continuous-time

signals and systems. Specific topics include systematic methods for writing systems of equations, solutions of simultaneous linear differential equations, Fourier Series and Transforms, Laplace Transforms, sampling theory and aliasing. Prerequisites: Engineering 220; Mathematics 204.

- 299 **Thermodynamics (3)** Spring
An introduction to thermodynamic principles including work, heat, properties of pure substances, the first and second laws, entropy, availability, and thermodynamic relations. Prerequisites: Physics 201, Mathematics 113.
- 302 **Fluid Mechanics (3)** Fall
A comprehensive, introductory course in fluid mechanics covering hydrostatics; control volume approach to the continuity, momentum, and energy equations; dimensional analysis, similitude, and modeling; introductory boundary layer theory; fluid drag and lift; flow through conduits, pumps and compressors; and introductory compressible flow. Prerequisite: Physics 202.
- 303 **Heat Transfer (4)** Spring
A study of the three modes of heat transfer—conduction, convection, and radiation—with application to heat exchangers. Computer methods of solution are used extensively. A three-hour-per-week thermal-fluids laboratory accompanies this course. Prerequisite: Engineering 302.
- 304 **Microprocessor Interfacing (4)** Spring
An in-depth study of design of microprocessor and microcontroller-based circuits and systems. Hardware issues such as parallel and serial I/O, bus structure, grounding and shielding, and D/A and A/D conversion are studied. Software topics such as assembly language, structured programming, and interrupt driven systems are also covered. Lab exercises provide design experience using a particular microprocessor or microcontroller. Prerequisites: Engineering 204, 220.
- 306 **Analog Circuit Design (4)** Fall
Operational amplifiers, voltage regulators, power amplifiers, modulators, demodulators, phase-locked loops, and other analog circuits are studied. Emphasis is on practical applications to open-ended problems and the formulation of design objectives. The laboratory consists of short design problems. Prerequisite: Engineering 323.
- 310 **History of Science and Technology (3)** Spring
Enables the student to develop an understanding of the history of science and technology as those two human activities developed in Western culture from pre-Socratic times to the present. Emphasis is on the major ideas and events that characterize the development of science and technology in the West. These include the Copernican revolution, the birth and development of Enlightenment rationalism through twentieth century positivism, the industrial revolution and the genesis of engineering colleges, the Einsteinian revolution, and, as a case study in modern technology, the birth and development of the automobile. A neo-Calvinist perspective is used throughout to provide a unified understanding of these diverse events and the systems of thought that they produced. One major result of the course is the student's ability to understand the distinction between modernism and post-modernism while bringing a biblically informed judgment to bear on related issues. Prerequisite: History 100.
- 315 **Machine Design (3)** Fall
This senior-level design course deals with the fundamentals of mechanical design and the design of machine elements. It assumes the student has a basic knowledge of statics, strength of materials, and kinematics of machine elements. The first half of the course covers the analysis of stress, static strength

and fatigue strength, and stochastic methods of failure analysis. The second half of the course covers the kinematics of machine elements such as gears, gear trains, and cams and then uses the analytical tools developed in the first half to establish design procedures for those and other machine elements. Prerequisites: Engineering 202, 209.

- 320 Metallurgy (3)** Spring
The metallurgical fundamentals of structure at the grain, crystal, and atomic levels are considered in relation to material behavior, including deformation and failure mechanisms. The metallurgy of heat treatments and manufacturing methods are studied, and the methods of metallography and materials testing are covered. Prerequisite: Engineering 202.
- 322 Electronics I (4)** Fall
A study of the flow of electricity in, and application of semiconductor devices. Topics include operational amplifiers and frequency response, diode circuits, bipolar frequency response, diode circuits, bipolar junction and field effect transistors, current sources, biasing, current mirrors, small signal analysis, single and multi-stage amplifiers, and feedback. The laboratory includes a number of short design problems. Prerequisite: Engineering 221. [Cross-listed: Physics 206]
- 323 Electronics II (4)** Spring
A continuation of Engineering 322. Topics include differential and multistage amplifiers, frequency response, feedback and stability, output stages and power amplifiers. The course includes a laboratory. Prerequisite: Engineering 322.
- 341- Special Topics in Engineering (3)** Occasional
348 Elective courses designed to treat particular topics in more detail than would be done in any of the above courses. Topics will depend on the mutual interest of students and staff.
- 350 Solar Energy Engineering (3)** Spring
A senior-level design course focusing on solar energy as an alternative form of energy for meeting distillation, space heating, domestic hot water, air conditioning, and industrial needs. The thermal processes by which solar radiation is transmitted to and absorbed by a surface, converted into heat, and stored and distributed will be studied. Auditing of building energy loads, conservation procedures, and design of appropriate passive or active solar energy systems are explored. The F-Chart method is studied in detail, with heavy use being made of computer methods, both for load determination and system design. Prerequisite: Engineering 303.
- 351 Heating, Ventilating and Air Conditioning (3)** Occasional
A study of the design of HVAC systems. Topics covered include heating and cooling load calculations, energy conservation, solar energy, air handling systems, use of ASHRAE handbooks, space heating design, and air conditioning design. Prerequisite: Engineering 303.
- 360 Introduction to Power System Analysis (3)** Spring
An introduction to the design, planning, and operation of electric power utilities, including principles of economic dispatch and politics which impact design and operating strategies. Topics include power transmission lines, transformers, generators, system modeling, load flow analysis, faults, and system stability. Prerequisites: Engineering 221; Mathematics 201, 204.
- 362 Control Systems (3)** Spring
A study of the dynamics and automatic control of systems. Topics include feedback, steady-state operation, transient response, root loci, state-space representation, frequency response, stability criteria and compensation. Many kinds of systems are considered including mechanical, electrical, hydraulic,

- pneumatic, thermal, and chemical. Structured modeling approaches, state equations, and Laplace transforms are used. Prerequisites: Engineering 221; Physics 202.
- 363 Introduction to Communication Systems (3)** Spring
A study of modern communication systems performance and theory with applications in radio, satellite and telephone systems. Topics include linear modulation (AM, SSB, etc.), exponential modulation (FM and PM), sampling theory, pulse modulation (PAM, PWM, PCM, etc.). Elementary consideration is given to noise. Prerequisites: Engineering 221; Mathematics 201.
- 366 Digital Signal Processing (3)** Fall
An introduction to the basic techniques used for processing digital signals. Topics include properties of digital signals and systems, the z-transform, digital filter design using frequency and impulse response techniques, structures for finite and infinite impulse response filters including lattice structures, spectrum analysis using discrete and fast Fourier transform techniques, discussion of applications (audio, video, radar, signal processing, for example). Prerequisites: Mathematics 204; Engineering 304.
- 371 Engineering Internship (3)** Fall, Spring, Summer
An off-campus experience that is intended to provide the engineering major with the opportunity to apply knowledge, principles, and skills gained in the classroom in an engineering workplace environment. Written and oral summary reports by participants bring reflection on the technical experience into subsequent classes. Pass/fail. Prerequisite: completion of six engineering courses or junior standing in the engineering program.
- 379 Senior Design (4)** Fall
Prepares students for their senior design project and provides treatment of critical topics that do not justify a full three-credit course. These topics include engineering economics, technical writing, design aesthetics, project planning, engineering statistics, technical literature research, safety, ergonomics, and practical finite element analysis. The laboratory portion of the course focuses on uncertainty analysis, report writing, and the integration of topics from previous engineering science courses toward the design of whole, experimental systems. Prerequisites: senior standing; Engineering 362, one of Engineering 303 or 304.
- 380 Senior Design Project (3)** Spring
A three-hour-per-week advanced laboratory project course providing students with the opportunity to use, in an integrated manner, the knowledge and skills which have been acquired to this point in their education. The project requires students to be involved in research, design, experimentation, analysis, and communication. Students work in teams of two or three on a project of their mutual interest. Planning for the project begins late in the junior year. Work on the project, while culminating in this course, starts in Engineering 379 the previous semester. Teams confer weekly with members of the engineering department staff. Prerequisite: Engineering 379.
- 390 Technology and Society (3)** Spring
An examination and critique of the relationship of technology to other areas of Western society. During the first half of the course a Christian philosophy of technology is carefully studied and application is made to such problems as the role of the computer, technocracy, appropriate technology, and the historical two-cultures dualism. During the second half, the course focuses on the question of engineering ethics, with particular emphasis on such questions as safety and risk, professional responsibility and authority, whistleblowing, responsible salary structures, and morality in career choice.

This course requires the student to write and orally present a significant research paper. Prerequisites: Philosophy 201; junior or senior standing. [Cross-listed: Computer Science 301]

- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

English

General Major— Literature Emphasis: English 201-202, or 207-208; English 314, 316, 318; five courses beyond English 200 and one from Theatre Arts 265, 266, 267 or six courses beyond English 200.

Writing Emphasis: English 201-202; English 314, 316, 318; two courses from English 203, 205, 221, 222, 323; two courses from Communication 241, 242, and 246; two courses from English 303, 304, or Theatre Arts 380; two courses from English 301, 302, 305; English 335 or 336; English 393.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

- 101 Grammar and Composition (3)** Fall, Spring
 Students will write a number of essays and a research paper. As they work on these, they will become aware of writing as a process and develop skills in generating ideas, revising, and editing. They will also review traditional grammar and principles of usage and style.
- 200 Responding to Literature (3)** Fall, Spring
 This course asks students to respond to poems, essays, stories, plays, a novel, and perhaps a film. Its purpose is to teach students how to understand these various forms and how to evaluate the moral vision when the imaginative world intersects with their own lives.
- 201 American Literature (3)** Fall
 Selected prose and poetry of the Puritans and Neo-Classicals, and an extensive study of the American Romantics: Poe, Hawthorne, Emerson, Thoreau, and Whitman.
- 202 American Literature (3)** Spring
 Surveys American writers from 1860 to the present. It aims to show the rise of realism and naturalism, the effect of world view on literature, and the way in which writers responded to historical movements or crises. Students will be expected to respond to the literature from their own Christian angle of vision.
- 203 Ethnic American Literature (3)** Spring Even
 We will read, discuss, and write about literature from four different ethnic American groups: African-Americans, Native Americans, Asian-Americans, and Mexican-Americans. Major writers from the four different groups will be read, including Douglass, Ellison, Wright, Walker, Erdrich, Silko, Momaday, Cisneros, Gilb, Chavez, Yamamoto, Tan, Mura.

- 205 Canadian Literature (3)** Fall Even
A study of major Canadian fiction writers and poets since 1945, with particular attention paid to recurring themes in modern Canadian literature.
- 207 World Literature (3)** Occasional
The literature studied is from the Greek, Roman, Medieval, and Renaissance periods. All writings are studied in English translation. A paper is required. [Cross-listed: Foreign Languages 207]
- 208 World Literature (3)** Occasional
Masterpieces of European authors from the 17th to the 20th century will be read and discussed. All readings are in English. A paper is required. [Cross-listed: Foreign Languages 208]
- 221 The Short Story (3)** Fall Even
Introduces students to the contemporary short story. In addition to reading broadly in the genre through anthologies, students will study specific contemporary writers such as Alice Munro, Raymond Carver, Jane Smiley, Larry Woiwode, Carol Bly, or John Gardner via collections of their work. Tests and short papers will be required.
- 222 Themes in Literature (3)** Spring Odd
The aim of this course is 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.
- 225 Film and Novel (3)** Spring Even
Introduces students to film art and film criticism, compares and contrasts films to novels and stories, and examines world views of the various artists. The course will examine how filmmakers and writers use film language or print to imply or express their views. It will also examine the degree to which filmmakers merely reproduce the themes of a book or make their own statements, even undercutting the source.
- 301 Advanced Expository Writing I (3)** Fall
Designed to introduce students to types of non-fiction writing frequently sought by magazines and journals. Major assignments include the interview, the narrative essay, and the review. Especially featured is the personal narrative. In addition to writing, students will read and react to various types of non-fiction writing—both essays and longer works. Significant class time is spent in workshop format, students reading and discussing their own work. [Cross-listed: Communication 301]
- 302 Advanced Expository Writing II (3)** Spring
The primary goal of this course is to help students write with clarity, grace and power. To achieve this goal, they will write expository essays, hone research skills, work style exercises, and critique one another's papers. (Note: Advanced Expository Writing I emphasizes narrative prose, while Advanced Expository Writing II emphasizes argumentative and explanatory prose.) [Cross-listed: Communication 302]
- 303 Reading and Writing of Poetry (3)** Fall Even
Students read and write various poems with fixed forms and in free verse. We will explore how other poets get started and where they get their ideas for poems. We will spend much time in class discussing each other's poems, and each student will have at least three personal conferences with the instructor. By the end of the semester, each student will have a portfolio of at least a dozen poems.

- 304 Fiction Writing (3)** Spring Odd
Introduces students to the task of writing fiction. In addition to significant reading in the genre, the course will require several exercises in various aspects of the craft, as well as the completion of one original short story. Time will be spent in workshop format and discussing technique, as well as the ways in which one's faith affects the work of writing fiction.
- 305 Business and Technical Writing (3)** Spring
Students will study the process, application, and characteristics of business and technical writing, and the way in which writing style, strategies, content, and clarity will relate practically to one's profession. The course will concentrate on developing competence in a variety of writing tasks commonly performed in business, law, industry, social work, engineering, agriculture, and medicine.
- 312 Shakespeare and Elizabethan Drama (3)** Fall Odd
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 Earlier British Literature (3)** Fall Even
A survey of earlier British literature from the beginnings through the 17th century, including Beowulf, Chaucer, Sidney, Spenser, Shakespeare (his poems), Donne, Herbert, Jonson, and Bunyan. Special attention will be paid to the Scriptural tradition which this literature evokes. Throughout, the course focuses on how the literature of these eras addresses fundamental questions about human nature.
- 316 Later British Literature (3)** Spring Odd
A survey of later British literature from the beginning of the 18th century through the 19th century. The course will trace and critique the subsequent developments of Neo-classicism, Romanticism, and the Victorian age in the poetry, essays, and fiction of such writers as Pope, Goldsmith, Gray, Blake, Wordsworth, Coleridge, Keats, the Shelleys, Tennyson, the Brownings, Austen, Dickens, the Brontes, and Hopkins.
- 318 Modern British Literature (3)** Fall Odd
Offers a glimpse of modern thinking as exemplified in 20th century British writers such as Hardy, Conrad, Housman, the War poets, Yeats, Forster, Waugh, Spender, Orwell, Auden, Thomas, and Lessing. It also includes some classic Christian responses—selections from C.S. Lewis, J.R.R. Tolkien, G.G. Chesterton, Hopkins, Thompson, and T.S. Eliot.
- 321 The American Novel (3)** Fall Odd
A study of the American novel beginning with Charles Brockden Brown and extending through the 19th and 20th centuries. Such authors as Hawthorne, Melville, Crane, Lewis, Hemingway, Faulkner, and Steinbeck will be studied. Lectures, discussions, papers are required.
- 322 The English Novel (3)** Occasional
The study of the beginning of the English novel with Defoe, Richardson, and Fielding, followed by a survey of 19th and early 20th century novelists such as Bronte, Thackeray, Trollope, Dickens, Conrad, and Forster.
- 323 Modern and Contemporary English and American Novels (3)** Spring Odd
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)** Spring Even
We will analyze major works of literary criticism and theory of criticism, both classic works from Plato through Eliot and key works drawn from the ferment of contemporary theory, with the aim of formulating clearer Christian theories of literature.
- 335 History of the English Language (3)** Fall Even
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)** Fall
Through the study of both traditional and transformational grammar, students learn how grammar shapes language. They examine the structure of sentences, practice writing a variety of structures, examine the elements of style, and try to eliminate their own usage problems.
- 341- Special Topics (3)** Occasional
348 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 (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

English as a Second Language

For information on an ESL teaching endorsement, see the "Teacher Education Program," Option VIII: Special Endorsements, page 114.

- 101 Academic Interaction for ESL Students (3)** Occasional
Develops academic speaking and listening skills, enabling students to participate to the best of their ability in the college classroom. Note taking, class discussions, oral presentations, and interviewing skills are developed. Listening to authentic lectures and preparing notes on them will be an essential part of this course. Vocabulary is expanded throughout the course.
- 102 Academic Writing for ESL Students (3)** Occasional
Explores and practices the various types of writing forms and styles that students will be expected to employ in their course work across the curriculum. Summarizing, paraphrasing, proper citation, and test-writing skills are included. Vocabulary is expanded throughout the course.

Environmental Studies

The major in environmental studies seeks to cultivate stewardship of the creation as a lifestyle and profession through an interdisciplinary program of study. This program asks (1) how does the world work, (2) what is right for us as Christians in our relationship to the rest of creation, and (3) how should we then live and work to be obedient stewards?

General Major—

Emphasis on the Biotic and Physical World (23 courses):

- I. FOUNDATION AND PERSPECTIVE (3 courses): Environmental Studies 151, 152, Philosophy/Environmental Studies 333.
- II. THE CREATION ENTRUSTED TO OUR CARE (11 courses)
 - A. Creatures: Biology 115, 122; one course from Agriculture 315, Biology 302, 316, or Environmental Studies 270.
 - B. The Physical World—
 1. Atoms and Molecules: Chemistry 103, 104; one course from Chemistry 102, 201, 202, 203, 212, 312.
 2. The Earth: one course from Agriculture 201, Earth Science/Environmental Studies 201, 202.
 - C. Exploration and Intensification: two additional courses from A and/or B.
 - D. Human Social Structures—
 1. The Political Arena: one course from Political Studies 212, 332 333.
 2. The Ecosphere: one course from Economics 200 or 202.
- III. INTERACTIONS, CONNECTIONS, AND PLACE (5 courses)
 - A. Biotic/Physical: Biology 200; Chemistry/Environmental Studies 251; one course from Agriculture 370, Environmental Studies 210.
 - B. Social: Economics/Environmental Studies 334, Political Studies/Environmental Studies 335.
- IV. STEWARDSHIP IN ANALYSIS AND PRACTICE (4 courses)
 - A. Analysis: Environmental Studies 380; one course from Mathematics 107, 111.
 - B. Restoration/Praxis: Environmental Studies 396; one course from Biology/Environmental Studies 300, Environmental Studies 320.

Courses in the following off-campus programs may substitute for up to four of the above with the approval of the chairperson of environmental studies: Au Sable Institute of Environmental Studies, Latin American Studies Program, or other approved off-campus study.

Emphasis on Human Social Structures (23 courses)

- I. FOUNDATION AND PERSPECTIVE (4 courses): Engineering 390, Environmental Studies 151, 152, Philosophy/Environmental Studies 333.
- II. THE CREATION ENTRUSTED TO OUR CARE (10 courses)
 - A. Creatures: Biology 115, 122
 - B. The Physical World: Chemistry 101, 102
 - C. Human Social Structures—
 1. The Political Arena: Political Studies, 245, 312, 333; one course from Political Studies 212, 332; one course from Political Studies 210, 233.
 2. The Ecosphere: one course from Economics 200 or 202.
- III. INTERACTIONS, CONNECTIONS, AND PLACE (5 courses)
 - A. Biotic/Physical: Biology 200
 - B. Social: Economics/Environmental Studies 334, Political Studies 370, Political Studies/Environmental Studies 335; one course from Agriculture 290, Economics 321.

IV. STEWARDSHIP IN ANALYSIS AND PRACTICE (4 courses)

- A. Analysis: Environmental Studies 380; one course from Mathematics 107, 111.
- B. Restoration/Praxis: Environmental Studies 396; one course from Communication 311, 314.

Courses in the following off-campus programs may substitute for up to four of the above with the approval of the chairperson of environmental studies: American Studies Program, Latin American Studies Program, Au Sable Institute of Environmental Studies, Chicago Metropolitan Center Program, or other approved off-campus study.

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- 151 **Introduction to Environmental Studies (3)** Fall
An introduction to contemporary environmental studies, with emphasis on class discussion of relationships between human population, resource use, and pollution, in the light of biblical teaching about environmental stewardship. Particular attention is given to the biotic and physical dimensions of creation stewardship and planetary distress.
 - 152 **Introduction to Environmental Studies II (3)** Spring
Further exploration of the foundations of contemporary environmental studies. Particular attention is given to the human social dimensions of creation stewardship and planetary distress. Environmental Studies 151 is not a prerequisite.
 - 201 **Physical Geography: Earth Structures and Processes (3)** Fall Even
Provides a general introduction to the physical nature and structure of the solid Earth, including, briefly, its physical geography and a more detailed look at its geology. The environmental implications of these subjects are detailed. One or two field trips are usually made in the early part of the semester. [Cross-listed: Earth Science 201]
 - 202 **Oceanography, Meteorology, Climate, and Climate Change (3)** Fall Odd
Provides a general introduction to oceanography, and to the physical geography of ocean floor landforms. Briefer attention is given to meteorology and weather, with focus on violent conditions. Climate and climate change in Quaternary times to the present are also considered. Recent humanly-caused changes (which are ongoing) in Earth's atmosphere, and the implications of an anthropogenetically enhanced greenhouse effect for the future will be discussed. Attention will also be given to the deterioration of the stratospheric ozone layer. Prior completion of Earth Science/Environmental Studies 201 is helpful, but is not required. [Cross-listed: Earth Science 202]
 - 210 **Ecology of Fresh Waters and Watersheds (4)** Fall Odd
A study of inland aquatic ecosystems (lakes, streams, wetlands) and their watersheds. Focus will be on the major groups of biota which live in these systems, the physical and chemical challenges of aquatic living, and the nature of the watershed and how the stewardship practices (or lack thereof) there influence the biota and the water they inhabit. Three lecture/discussion sessions and one three-hour lab per week. Intensive field component involving visits to local (and some more distant) systems for sampling, measurement, and description. Prerequisites: Biology 115 and 122.
 - 251 **Environmental Chemistry (4)** Spring Odd
A study of the nature and transport of chemical species—both natural and human-introduced—in the natural environment (atmosphere, hydrosphere, geosphere, and biosphere). The lab will include methods of sampling and analysis of samples from natural and/or human influenced environments. Three lectures

and one three-hour lab per week. Prerequisites: Chemistry 101, 102 or 103, 104. Prior completion of Chemistry 201 recommended but not required. [Cross-listed: Chemistry 341]

- 270 Avian Biology and Conservation (3)** Spring Even
The natural history, ecology, identification, and stewardship of birds. Topics include morphological and physiological ecology of birds, habitat selection, communication, migration, reproductive ecology, territoriality, foraging ecology, biogeography, taxonomy, and conservation. Special attention will be given to how interest in and study of birds have contributed to an understanding of fundamental ecological principles and to the development of environmental consciousness. Two lecture/discussion sessions and one three-hour lab per week. Field work will concentrate on local birds, but at least one trip to a distant site will be included. Prerequisite: Biology 101 or 102 or 122.
- 300 Environmental Biology (3)** Spring Even
A second-level ecology course emphasizing principles of applied population and community biology, including the biology of endangered and threatened species, their conservation and restoration. The course will be developed in the context of Christian environmental stewardship principles. The class will meet in seminar/discussion format. Prerequisite: Biology 200. [Cross-listed: Biology 300]
- 320 Wildlife Ecology and Stewardship (3)** Spring Even
Advanced examination of animal (especially terrestrial vertebrate) populations, communities, and habitats, particularly as such analysis is applied to the manipulation and exploitation of animal populations and communities to regulate their abundance and distribution and/or to restore them. Considerable exploration and critique of the development and practice of wildlife management, particularly as it compares to biblical principles for creation stewardship. Two lecture/discussion sessions and one three-hour lab per week. Prerequisites: Biology 115, 122, 200.
- 333 Philosophy of the Environment (3)** Spring Odd
A historical and systematic study of the structure and normed character of the various relationships between human beings and their environment. Prerequisites: Philosophy 201; junior or senior standing. [Cross-listed: Philosophy 333]
- 334 Economics of Natural Resources and the Environment (3)** Spring Even
A study of economic aspects of Christian stewardship in relation to the environment and use of natural resources. Major topics include biblical norms on creation, property rights, economic justice, the economic dimensions of current environmental problems and trends in resource use, institutions and social structures that affect environmental policy, economic theories related to resource use and environmental quality, and evaluation of current and proposed policies from a Christian point of view. Prerequisite: Economics 200 or 202. [Cross-listed: Economics 334]
- 335 Environmental Policy and Politics (3)** Spring
An introduction to environmental policy in North America with an emphasis on the United States. The course will focus on key environmental policies and the political process and actors involved in the making of policies. This will include a discussion of environmental regulation and other public policy instruments used to care for creation. [Cross-listed: Political Studies 335]
- 341-348 Special Topics (3)** Occasional
Courses on topics of special interest and importance in creation stewardship, depending on student demand and instructor availability. These courses address topics that are not treated in depth in established courses.

- 380 Directed Research (3)** Fall, Spring
Focuses on identifying a stewardship problem and bringing rigorous analytical and critical thinking to bear in examining the problem, reporting on it, and making recommendations for its resolution. The research project will be chosen and conducted under the guidance of a faculty mentor and may investigate a problem from a natural science perspective in the field and/or laboratory or from a social science perspective. With approval, the research may be conducted at an off-campus location. Prerequisites: junior or senior standing and approval of a written proposal completed in the semester before the project begins.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."
- 396 Seminar on Creation Stewardship (3)** Spring Odd
An interdisciplinary, capstone seminar designed to explore current research, thought, and issues in environmental stewardship. The seminar will emphasize holistic thinking that seeks connections; that desires sustainable, just living; and that moves participants from understanding and commitment toward stewardly living in a place. A significant portion of the course will comprise hands-on, group analysis of a campus or community stewardship issue involving human-designed systems and leading to recommendations for stewardly design and life. Prerequisites: Environmental Studies 151 and junior or senior standing.

French

- 101 Introductory French (4)** Fall
An introductory study of the language and culture of French-speaking people. Emphasis is on the acquisition of oral and written language skills in a communicative context combined with the study of cultural etiquette and social customs.
- 102 Elementary French (3)** Spring Even
Continuation of French 101. Prerequisite: one year of high school French or French 101.
- 201 Intermediate French (3)** Occasional
An intermediate course which continues the study of the language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills. Some attention given to the nature of language. Emphasis on the development of cultural understanding and sensitivity, with a study of the people's values and beliefs as expressed in their economic, political, and religious systems. Comparison of this culture with our culture in the light of the cultural mandate. Prerequisite: two years of high school French or French 102.
- 207 World Literature (3)** Occasional
See English 207. Students who wish this course to be listed as a French course will be assigned their paper based on French writings.
- 208 World Literature (3)** Occasional
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- Conversation (1)** Fall, Spring
258 These courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week. Prerequisite: French 102. (Graded on a pass/no-record basis.)

General Education

Associate of Arts Degree Options See the "Academic Program" section for the general requirements for all A.A. programs.

Area of Concentration (Associate of Arts in General Studies)

Option A: Any six courses from a single department.

Option B: Any three courses from one department plus any three courses from a second department in the same division.

Option C: Any four courses from one department plus three courses from a department in another division.

Option D: An individualized concentration of eight courses that has been designed in consultation with and approved by the registrar to meet specific education goals of the student.

NOTE: In all options (A-D), courses taken to meet general education requirements may also be used to meet the requirements of the concentration option.

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- 200 Introduction to the Arts (3)** Fall, Spring
 Specifically designed for meeting the general education requirement. The design allows for considerable flexibility. Students choose from a variety of sub-courses in art, drama, and music topics which are of interest to them. Students also fulfill requirements by attending special arts events and lectures.
- 211 Values and Justice in World Cultures (3)** Fall
 Exposes students to various world cultures, to their ways of thinking, and to their ways of following or defying tradition. This will be done by examining various films made in and about these cultures by, when possible, native film directors. The focus of this course will be on assessing the cultures, not on evaluating film techniques or distinguishing between film genres. Limited to 35 students. Prerequisites: English 101 or 200; History 100; sophomore standing.
- 231 Ethnic and Religious Conflict and its Resolution: The Challenge of Multiethnic Peaceful Coexistence (3)** Spring
 Some multiethnic societies live in peace, whereas others erupt into periodic episodes of violence. In some places, religious differences result in bloodshed, whereas in others co-existence is possible. This course aims to introduce students to the sources of conflict, and will discuss strategies for conflict resolution. By means of a country case study (Cyprus, in this case), students will study the role Reformed Christians can play in mediating Christ's message of forgiveness and reconciliation to a world riven by long-lasting disputes.
- 251 Mexican Culture (3)** Summer
 This course is designed to provide a study of Mexican culture and civilization while students are in Mexico. The historical roots of present-day Mexican society will be examined, with the focus being how

the pre-columbian civilizations and the colonial culture are reflected in contemporary Mexican society. Special emphasis will be placed on the problems and potential of Mexico today. Students will experience the culture by living with Mexican families and having extensive contact with the Mexican people. Students will spend three weeks in Mexico, with classes taking place on Monday through Friday and travel on Saturdays. Prerequisites: sophomore standing; previous Spanish courses are not required.

- 252 Cyprus: Crossroads of Civilizations (3)** First offered Summer 2002
This course will include a three week visit to the island of Cyprus. Students will visit Cypriot individuals, groups, and sites of historic, cultural, political, and environmental significance. Students will learn about the ongoing ethnic conflict that divides the island and work toward understanding the forces that have given rise to it and the possibilities for resolution.
- 271 Serving and Learning in Romania (3)** Summer
An intensive 3-week summer course in Romania involving service projects with persons with disabilities (children and adults) in two culturally distinct regions of Romania. This course will include direct service to clients and agencies, interaction with Romanian staff and professionals.
- 300 Calling, Task, and Culture (3)** Fall, Spring
A study of common issues involved in being Christ-centered disciples who, after graduating from college, are called upon to implement in practical life (and graduate studies) the "serviceable insights" they have learned. Emphasis will be placed on the nature of Christian witness, need for responsible strategy, and effects of concrete service. Prerequisites: History 100, Theology 101, Philosophy 201, junior or senior standing.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

General Science

General Major— Biology 115, 122, 200, 213, 335; two elective courses in biology; Chemistry 103, 104, 201, 202, 203, 205, 311; Physics 115, 116; Mathematics 112.

For the teaching endorsement options in the sciences, see the "Teacher Education Program" section on pages 100-115.

Geography

- 201 World Regional Geography (3)** Fall
A geographic survey of major world regions. Emphasis is placed on both human and physical geography as each region is surveyed as to location, component countries, world role, distinctive physical and cultural characteristics, and major problems.

German

General Major— German 201, 202, 206, 302; Linguistics 201; five courses from German 101, 102, 207, 208, 301, 341-348, 393; four semesters of German conversation 251-258. One semester of study abroad required.

General Minor— German 201, 202, 206, 302; one course from German 102, 341-348, 393; three semesters of German conversation 251-258. Study-abroad courses are recommended.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

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- 101 Introductory German (4)** Fall Even
An introductory study of the language and culture of the German-speaking people. Emphasis on the acquisition of oral and written language skills in a communicative context combined with the study of cultural etiquette and social customs.
- 102 Elementary German (3)** Spring Odd
Continuation of German 101. Prerequisite: one year of high school German or German 101.
- 201 Intermediate German (3)** Fall
An intermediate course which continues the study of the language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills. Some attention given to the nature of language. Emphasis on the development of cultural understanding and sensitivity, with a study of the people's values and beliefs as expressed in their economic, political, and religious systems. Comparison of this culture with our culture in the light of the cultural mandate. Prerequisite: two years of high school German or German 102.
- 202 Literary and Cultural Readings (3)** Spring Even
Designed to develop 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)** Spring Odd
This course is designed to cover many aspects of the German way of life. Listening and speaking skills will be developed through the classroom activities. Prerequisite: German 201 or its equivalent.
- 207 World Literature (3)** Occasional
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)** Occasional
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- Conversation (1)** Fall, Spring
258 These courses are designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week. Prerequisite: German 102. (Graded on a pass/no-record basis.)
- 301 German Phonology (3)** Occasional
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)** Occasional
Designed for those 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- Special Topics (3)** Occasional
348 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: department approval.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Greek

- 101 Elementary Greek (4)** Fall Odd
Briefly surveys the historical phases of the Greek language. Students are introduced to the basic forms of the Greek language, a foundational vocabulary and elementary grammar. Selections from the Gospel of John are read.
- 102 Elementary Greek (4)** Spring Even
Continues Greek 101 with an emphasis on review of forms, expansion of vocabulary, and development of reading skills. Selections from classical Greek authors are read.
- 201 New Testament Greek (3)** Fall Even
Systematically deals with syntax of Hellenistic Greek. Selections from the Gospels are read. Prerequisite: Greek 102.
- 202 New Testament Greek (3)** Spring Odd
A continuation of Greek 201. Selections from the Epistles, Acts, and the earliest church fathers are read.
- 241- Readings in New Testament Greek (1)** Fall, Spring
244 Provide students with readings in order to retain and develop their Greek translation skills after they have completed Greek 202. They are graded on a pass/no-record basis. Prerequisite: Greek 202.
- 301 Patristic Greek Authors (3)** Occasional
Selections from the Greek church fathers are read. This course both develops Greek reading skills and introduces students to the earliest post-New Testament Christian writers. Prerequisite: Greek 201.
- 302 Hellenistic Greek Authors (3)** Occasional
Selections from Hellenistic writers and from Jewish Greek writers of this period are read. This course develops both Greek reading skills and introduces students to non-Christian writers who were part of the world of early Christianity. Prerequisites: Greek 201 and 202.
- 341- Special Topics** Occasional
348 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 (1-3) Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

Health, Physical Education, Recreation

General Major—

Core (common to all emphases): Health, Physical Education, Recreation 101, 203, 204, 207, 208.

Students must select one of the following emphases:

Exercise Science: Core; Health, Physical Education, Recreation 211, 325 or Psychology 305, and one from 361, 362, 371, 393; Biology 201, 202. (Chemistry 101 and 102 are strongly recommended.)

Physical Education: Core; Health, Physical Education, Recreation 325; and four elective courses from 202, 205, 206, 209, 210, 211, 212, 213, 214, 215, 304, 305, 306, 371, 393. (Note: 212-215 are half courses.)

Recreation: Core; Health, Physical Education, Recreation 206, 210, 325, 362 or 371, and Business Administration 205.

General Minors—

General: Six approved courses within the HPER course offerings. Courses may be tailored to meet individual goals. The six courses must be approved by the HPER department chairperson.

Recreation: Health, Physical Education, Recreation 206, 207, 210, 362; Business Administration 205; two courses from Business Administration 206, Communication 222, 228, Political Studies 214, Psychology 210.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

- 10 **Concepts in Physical Education (1)** Fall, Spring
 A study of the concept of fitness and health from a Christian view of humankind. Designed to help students evaluate their own physical needs and strengths. This course assists students in developing their personal exercise and activity program. Preferably should be taken in the freshman year. Graded.

ACTIVITIES AND INTERCOLLEGIATE SPORTS PARTICIPATION

As part of the general education requirements every student is required to take one activity from categories I, II, and III. A student may substitute one approved intercollegiate athletic participation in one of the three categories. *Courses numbered 20 - 55 are graded on a pass/no-record basis.*

I. INDIVIDUAL SPORT ACTIVITIES

- 20 **Badminton (.5)** Fall, Spring
 Development of skills, techniques, and participation in beginning badminton.

- 21 **Bowling (.5)** Fall, Spring
Development of skills and knowledge in bowling necessary for the recreational purposes of the beginner.
Not open to freshmen.
- 22 **Tumbling/Gymnastics (.5)** Fall, Spring
Development of beginning and intermediate skills and techniques in gymnastics and tumbling, including
work in free exercise.
- 23 **Golf (.5)** Fall, Spring
Beginning golf in which students will be taught the skills of the sport. Students must furnish their own
clubs. No green fees for class work. Not open to freshmen.
- 24 **Racquetball (.5)** Fall, Spring
Skills and techniques of racquetball.
- 25 **Tennis (.5)** Fall, Spring
Development of skills and knowledge in tennis.
- 26 **Social Dance (.5)** Occasional
Development of skills in one or more recreational or artistic dance forms; e.g., country swing, square
dance, and folk dances from various countries.
- 29 **Intercollegiate Athletics (.5)** Fall, Spring
Arrangements must be made through the athletic director. Sports include golf, tennis.

II. FITNESS ACTIVITIES

- 30 **Aerobic Dance (.5)** Fall, Spring
An opportunity for students to work on a personal fitness program through vigorous exercises to music.
- 31 **Cross Country Skiing (.5)** Spring
The skills and techniques of this popular sport will be taught and practiced.
- 32 **Physical Fitness (.5)** Fall, Spring
Knowledge, development, and maintenance of personal physical fitness through the use of aerobics,
calisthenics, the "exergenie," etc.
- 33 **Swimming (.5)** Fall, Spring
Several sections are offered each semester. Each section is divided for non-swimmers, intermediate, and
advanced swimmers. WSI certification can be earned through special arrangements.
- 34 **Voice and Body Warm-ups (.5)** Fall, Spring
A program of regularly repeated exercises designed to improve the performer's physical flexibility and
vocal strength and range.
- 35 **Water Aerobics (.5)** Fall, Spring
Application of the appropriate physiological principles to develop physical fitness using various water
aerobic exercise.

- 36 **Weight Training (.5)** Fall, Spring
A well-rounded weight-training program with carry-over recreational emphasis.

- 39 **Intercollegiate Athletics (.5)** Fall, Spring
Arrangements must be made through the athletic director. Sports include track and field, cross country.

III. TEAM SPORT ACTIVITIES

- 40 **Basketball (.5)** Fall, Spring
Development of skills in basketball with emphasis on rules, strategies and participation in a variety of sport-related roles.

- 41 **Floor Hockey (.5)** Fall, Spring
Development of skills in floor hockey with emphasis on rules, strategies and participation in a variety of sport-related roles.

- 42 **Slow-pitch Softball (.5)** Fall
Development of skills in softball and the opportunity to participate in a currently popular sport.

- 43 **Soccer (.5)** Fall, Spring
Development of skills in soccer with emphasis on rules, strategies and participation in a variety of sport-related roles.

- 44 **Volleyball (.5)** Fall, Spring
Development of skills and techniques, and participation in power volleyball.

- 49 **Intercollegiate Athletics (.5)** Fall, Spring
Arrangements must be made through the athletic director. Sports include basketball, baseball, softball, soccer, ice hockey club, and volleyball.

IV. INDIVIDUALIZED ACTIVITIES

Enrollment in 50 or 55 must be approved by the HPER department or the instructor.

- 50 **Adaptive Program (.5)** Fall, Spring
Restricted activity for students with physical disabilities. Prerequisite: recommendation by a medical doctor.

- 55 **Personal Program (.5)** Fall, Spring
A student may earn credit in a unique skill area that is not taught at Dordt. Examples: judo, karate, scuba diving, etc.

- 101 **Introduction to Health, Physical Education, and Recreation (3)** Fall
Designed to be the entry-level course for those interested in exploring the areas of health, physical education, and recreation. The course will provide the student with an overview of the body of knowledge, the historical background, and career opportunities in each of the areas. The student will also develop and articulate a Christian perspective on health, physical education, and recreation.

- 202 **Substance Abuse and Consumer Health (3)** Spring
The first half of the course is devoted to introducing the student to the use, misuse, and abuse of drugs. Emphasis is placed on the psychological and physiological effects of drugs. The second half of the course will provide the student with basic health-related information which will aid the student in making sound decisions regarding personal health.

- 203 Anatomy, Kinesiology, and Biomechanics (3)** Fall
A study of the anatomical and mechanical phenomena which underlie human movement. Particular attention is given to bone, joint, muscle, and connective structures; and to the application of physical laws of motion to the human body and specific sports skills.
- 204 Exercise Physiology (3)** Spring
A study of how normal body functions (homeostasis) are altered, and subsequently restored, in response to the stress of exercise. Emphasis will be placed on the respiratory, cardiovascular and muscular systems. The course includes the practical application of physiological concepts and principles to physical education and sport.
- 205 Curriculum in Physical Education and Health (3)** Spring
Provides the student with the necessary background in organizing and administering a desirable curriculum in physical education and health (elementary and high school) including intramurals and adaptive programs.
- 206 Recreational Leadership (3)** Spring Even
A study of leadership principles and their relationship to the field of recreation. The course is intended to give the necessary background and experience which would enable the student to work in a variety of recreational settings.
- 207 First Aid and Athletic Injuries (3)** Fall, Spring
A study of accepted methods used to prevent athletic injuries. Instruction in administering first aid practices in emergencies. Fall semester emphasizes the elementary school child; spring semester focuses on participants in interscholastic sports. (Either semester meets the requirements for a coaching endorsement. This course is not open to freshmen. It is intended during the second semester for physical education majors and minors only.)
- 208 Assessment in Physical Education and Health (3)** Fall
A study of elementary statistical procedures, the preparation and administration of physical fitness tests, health assessment procedures, and various athletic skills. A grading system in physical education and health is formulated.
- 209 Personal and Community Health (3)** Fall
This course studies the physical, mental, social, emotional, and spiritual dynamics of health. Emphasis is placed on the utilization of health information in making good health choices.
- 210 Community Recreation (3)** Spring Odd
The development of the principles, history, and philosophy governing recreation in the community along with the place of the agencies that are involved in community recreation will be studied.
- 211 Nutrition (3)** Fall
A study of the structure and function of the essential nutrients. Attention will be given to diet analysis and personal food choices. [Cross-listed: Biology 210]
- 212 Coaching Theory of Basketball (1.5)** Spring
Seven-week course with emphasis on coaching skills, philosophies, and techniques of basketball. Not open to freshmen.

- 213 Coaching Theory of Track and Field (1.5)** Spring
Seven-week course with emphasis on coaching skills, philosophies, and techniques of track and field. Not open to freshmen.
- 214 Coaching Theory of Volleyball (1.5)** Spring
Seven-week course with emphasis on coaching skills, philosophies, and techniques of volleyball. Not open to freshmen.
- 215 Coaching Theory of Baseball/Softball (1.5)** Spring
Seven-week course with emphasis on coaching skills, philosophies, and techniques of baseball and softball. Not open to freshmen.
- 304 Teaching Physical Education and Health (3)** Spring
Provides the student with effective teaching skills and methods in physical education and health instruction. Various concepts are discussed that will assist the student in the understanding of teaching physical education and health.
- 305 Peer Teaching in Physical Education (3)** Fall
Provides the student the opportunity to apply the teaching skills and methods learned in HPER 304 in a peer-teaching environment. It also provides the opportunity to learn personal participation skills in a variety of physical activities. Prerequisite: HPER 304.
- 306 Elementary Physical Education Skills and Methods (3)** Fall
Provides a background for teaching physical education to elementary school children. Emphasis will be given in adaptive physical education. This course is only open to professional physical education students.
- 325 Psychosocial Dimensions of Physical Activity (3)** Fall
This course has a twofold purpose. The first is to add to the students' understanding of physical activity by exploring the psychological and sociological aspects of human physical activity. Second, the student will demonstrate a Reformed Christian understanding of human movement in discussion of a variety of issues related to health, physical education and recreation. Open to juniors and seniors only. Prerequisite: Psychology 201, 205, or Sociology 201.
- 341 Sports Officiating (1)** Spring
This course is designed for students who desire to officiate interscholastic athletics. Students will become a registered official (in the sport of their choice) through either or both the Iowa High School Athletic Association (IHSAA) and the Iowa Girls High School Athletic Union (IGHSAU).
- 361 Field Experience in Physical Therapy (3)** Fall, Spring
Designed to give students enrolled in the prephysical therapy program a field experience in physical therapy. The student will work with a registered physical therapist for three hours each week of the semester. This course is open to junior and senior students enrolled in the prephysical therapy program.
- 362 Field Experience in Recreation (3)** Fall, Spring
Designed to give students the opportunity to do a practicum in a recreation setting. The student will work under the supervision of a professional recreation leader for three hours each week of the semester. This course is open to junior and senior students who are enrolled in the recreation minor program and who have completed two of the following courses: HPER 206, 207, or 210.

- 371- **Health, Physical Education, Recreation Internships (3-9)** Fall, Spring, Summer
 373 Intended to provide the HPER major the opportunity to apply knowledge principles and skills gained from the classroom into a workplace environment. Prerequisite: Completion of no less than seven courses in the major. See HPER chairman for approval.
- 391- **Individual Studies (1-3)** Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

History

General Major– History 201, 202; one course from History 212, 213, 214; History 338 or 339; six history courses beyond History 100.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

- 100 **Western Civilization Since the Renaissance (3)** Fall, Spring
 A survey of the highlights in the growth and development in western civilization from the Renaissance to the present day.
- 201 **American History (3)** Fall
 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.
- 202 **American History (3)** Spring
 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.
- 203 **Ancient History (3)** Fall Even
 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.
- 205 **Medieval Europe (3)** Fall Odd
 History of Europe from the height of the Roman Empire in the second century to approximately 1300. The decline of the Roman Empire, the rise of Islam, the development of medieval institutions and the rise of cities will be emphasized.
- 209 **Nineteenth Century Europe (3)** Fall
 The history of Europe from the Congress of Vienna to the outbreak of the First World War in 1914. The primary emphasis will be on the cultural, political, social and economic developments in this period, with particular reference to the relations between the great powers and between Europe and other parts of the world. Not open to freshmen except by permission of the instructor.
- 210 **Twentieth Century Europe (3)** Spring
 The history of Europe from the immediate pre-First World War period to the end of the post-Second World War period as marked by the reunification of Germany and the 1991 Maastricht Treaty on European Union. The primary emphasis will be on the cultural, political, social and economic

developments in this period, with particular reference to the destructiveness of nationalism, the cold war and the processes of European integration.

- 211 History of Canada (3)** Fall Even
A survey of Canada's history from the age of discovery and exploration to the present. The various forces and individuals which contribute to the making of Canadian nationhood will be stressed, but due time will also be devoted to the racial and sectional issues that have worked against national unity.
- 212 Africa and the Middle East (3)** Alternates with History 213 and 214
The roots of contemporary problems and development in Africa and the Middle East are explored and analyzed. The transition from the traditional political, economic and social institutions to the present institutions will be emphasized. Not open to first-semester freshmen.
- 213 Latin America (3)** Alternates with History 212 and 214
A selective survey of the history of Latin America from pre-Columbian times to the present. Attention will be given to the indigenous and colonial origins of Latin American culture and society. Twentieth-century developments will be explored through a series of case studies. Not open to first-semester freshmen.
- 214 The Far East (3)** Alternates with History 212 and 213
A survey of the history of the Far East, with primary emphasis on China and Japan. Not open to first-semester freshmen.
- 215 History of Mexico (3)** Occasional
A survey of the history of Mexico from the time of the Spanish conquest to the present. Attention will be given to colonial life, to the reform era of the early republic, and to 20th century revolutions. Emphasis will also be given to the interaction, development and change of political, economic, and social institutions in Mexico.
- 303 Modern Russia (3)** Spring Odd
Study of Russia in the 19th and 20th 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 evolved since 1917. Prerequisite: junior or senior standing or permission of instructor.
- 304 Renaissance and Reformation (3)** Fall Odd
History of Europe from approximately 1300 to 1648. Such themes as humanism, the cultural renaissance, the rise of Protestantism, the Counter-Reformation, and the development of the modern secular state will be studied.
- 305 American Problems (3)** Fall
Offers an in-depth exploration into selected problems in the history and historiography of American history. Topics vary. The course is organized as a colloquium. Prerequisites: History 201 and 202 or permission of the instructor.
- 307 Historiography (3)** Spring Odd
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. Prerequisite: assumes a general knowledge of history.

- 309 Economic History of the U.S. (3)** Spring Odd
See Economics 309. This course may be taken for either history or economics credit. Prerequisite: permission of instructor.
- 310 History of Native Americans (3)** Spring Odd
This course selectively surveys the history of Native Americans, focusing upon questions of identity, cultural development, intercultural relations, and relations with the federal government. When possible, the course analyzes film representations of Native Americans. Assumes some knowledge of American history. Not open to freshmen.
- 314 Themes in American Thought (3)** Occasional
Examines the development of ideas by which Americans interpreted their experience, and which they employed in shaping American society and culture, from the colonial period to the 1960s. Major components in this study include the ideas of Puritan Calvinism; evangelicals and the Enlightenment; liberalism and constitutional theory; the development of social theory and historical consciousness in the 19th century; modernism and fundamentalism; and 20th century pragmatism and post-modernism. Previous study of American history is advised.
- 315 History of American Evangelicalism (3)** Spring Odd
Studies the development of evangelical Protestantism in the context of American history. More specifically, it examines how evangelicalism was developed through its main institutions, ideas, and assumptions, and beyond these, how evangelicals participated in forming American social, political, and intellectual culture. A special theme will be the relationship between the Reformed tradition and American evangelicalism. Previous study of American history is advised.
- 322 American Constitutional Law (3)** Fall
See Political Studies 322. This course may be taken for either history or political studies credit.
- 332 Canadian Government and Politics (3)** Fall Odd
See Political Studies 332. This course may be taken for either history or political studies credit.
- 338 History Seminar–United States History Emphasis (3)** Fall
Focuses on the writing of a research paper about some aspect of the history of the United States. Students will select a topic for in-depth study in order to become familiar with the essential ingredients for historical study such as reading, research, and writing. Emphasis will be upon such matters as how to use a library for research purposes, evaluation of evidence, and constructing a narrative depicting the results of their investigation. Can be used to meet the teaching certification requirements for an American history endorsement. Either History 338 or 339 is required of all history majors. Open only to juniors and seniors.
- 339 History Seminar–World History Emphasis (3)** Fall
Focuses on the writing of a research paper about some aspect of world history. The course description and requirements are the same as for History 338. Can be used to meet the teaching certification requirements for a world history endorsement but not for an American history endorsement. Either History 338 or 339 is required of all history majors. Open only to juniors and seniors.
- 341- Special Topics (3)** Occasional
348 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 (1-3)** Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

Individual Studies

- 391 **Individual Studies (1)** Fall, Spring, Summer
 Open to qualified students with permission from the department and the registrar. See catalog section "Individual Studies" on page 56 for application procedures and policies governing individual studies. The student will study a topic not normally included in regular course offerings, that is interdepartmental in nature, or that has a service-learning component. (Graded on a pass/no-record basis.)
- 392 **Individual Studies (2)** Fall, Spring, Summer
 Open to qualified juniors and seniors with permission from the department and the registrar. See catalog section "Individual Studies" for application procedures and policies governing individual studies. The student will study a topic not normally included in regular course offerings, that is interdepartmental in nature, or that has a service-learning component. (Graded on an A-F scale.)
- 393 **Individual Studies (3)** Fall, Spring, Summer
 Same as Individual Studies 392.

Latin

- 101 **Elementary Latin (4)** Occasional, scheduled to be offered fall, 2000
 Covers the basic structures of Latin with introductory prose readings.
- 201 **Intermediate Latin (4)** Occasional, scheduled to be offered spring, 2001
 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. Prerequisite: two years of high school Latin or Latin 101.

Linguistics

- 201 **Introduction to Linguistics (3)** Fall
 A study of the nature of language as it relates to linguistic theories and speakers of languages. Using data taken from English and a variety of other languages, primary attention is given to the sounds and forms of language. Opportunity is provided for students to research a variety of cultural topics related to their major field or personal interest. Prerequisite: Foreign Language 102 or its equivalent. The course is open to freshmen with permission of the language department.
- 301 **Phonology (3)** Fall Even
 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.)

Mathematics

General Major— Mathematics 112, 113, 200, 201, 203, 304, 311; three mathematics courses numbered 200 or above; two courses from Mathematics 291-294. (Computer Science 111 or 112 may be substituted for one of the three mathematics electives.)

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the “Teacher Education Program” section on pages 100-115.

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- 106 Elements of Mathematics (3)** Fall
An introduction to the contents and methods of mathematics, including some discussion of its historical development.
- 107 Elementary Statistics (3)** Fall, Spring
An elementary course in statistical techniques and methods and their application to a variety of fields. Spreadsheet knowledge is suggested. [Cross-listed: Psychology 207, Sociology 207]
- 108 Mathematics for the Elementary Teacher (3)** Fall
An introduction to the role of numbers, basic computational techniques, operations, properties and uses of numbers. A variety of tools, physical models, and appropriate technologies will be used. Students will trace historical developments, formulate and solve problems, study patterns, and develop the use of variable. Some attention will be given to the methods of teaching these topics at the elementary school level. Prerequisite: Open to elementary education students; others by permission of instructor.
- 109 Theory and Context of Middle School Mathematics (3)** Spring Odd
A study of the techniques, concepts, theories, educational trends and historical background underlying middle-level mathematics. Topics include logic, set theory, natural number system, numeration systems, integers, number theory, real numbers, algebra, and geometry. This course is intended to develop teachers to serve as mathematics resource specialists in elementary or middle schools. Prerequisite: Mathematics 108.
- 110 College Algebra (3)** Spring
A study of standard pre-calculus topics in algebra and trigonometry, elementary functions and functional notation are emphasized in preparation for calculus. Prerequisite: three semesters of high school algebra.
- 111 Calculus for Business, Social, and Life Sciences (4)** Fall
A study of the basic concepts and techniques of calculus for students majoring in business, social sciences, or life sciences. Topics include limits, differentiation, integration, exponential and logarithmic functions, partial derivatives, multiple integrals, and applications. Credit will not be given for both Mathematics 111 and 112. Prerequisite: Mathematics 110 or equivalent.
- 112 Calculus I (4)** Fall
A study of the basic concepts and techniques of calculus for students majoring in mathematics, computer science, engineering, or the physical sciences. Topics include limits, differentiation, integration, and applications. This course is intended for students without any previous calculus credit. Credit will not be given for both Mathematics 111 and 112. Prerequisite: Mathematics 110 or equivalent.

- 113 Calculus II (4)** Fall, Spring
Continuation of Mathematics 112; a study of definite integrals, formal differentiation and integration, transcendental functions, sequences, series, and applications. Students who have a semester of calculus credit should take this course instead of Mathematics 112. Prerequisite: Mathematics 112 or equivalent.
- 200 Mathematical Proof and Calculus Theory (3)** Spring
An introductory study of logic and the various methods of proof in mathematics, with application to and development of the theory of single variable calculus. Prerequisite: Mathematics 113.
- 201 Multivariable Calculus (3)** Spring
A study of the algebra and calculus of vector-valued functions, three-dimensional analytic geometry, differential and integral calculus of functions of several variables, line and surface integrals. Prerequisite: Mathematics 113.
- 203 Elementary Linear Algebra (3)** Fall
An introductory study of vector spaces, linear transformations, matrices, and determinants, with particular emphasis upon solving systems of linear equations. Prerequisite: Mathematics 113.
- 204 Differential Equations (3)** Fall
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 Introduction to Mathematical Statistics (3)** Spring Odd
An introduction to the theory and techniques of statistical analysis; probability, random variables, discrete and continuous distributions, estimation, and statistical hypothesis testing. Prerequisite: Mathematics 113.
- 207 Number Theory (3)** Spring Even
An introduction to number theory including congruences, residues, Diophantine equations, prime numbers and their distribution, and properties of number-theoretic functions. Prerequisite: Mathematics 111 or 112 or permission of instructor.
- 208 Modern Geometry (3)** Fall Even
A study of the basic concepts of modern geometry, both Euclidean and non-Euclidean, with some attention given to finite and projective geometry as well. Prerequisite: Mathematics 111 or 112 or permission of instructor.
- 209 Numerical Analysis (3)** Spring Even
A study of numerical methods for integration, differentiation, calculus of finite differences, and applications, using the computer. Prerequisites: Mathematics 113; Computer Science 111.
- 210 History of Mathematics (3)** Fall Odd
A survey of the history of mathematical thought and institutions from ancient times throughout the 17th century, supplemented by a study of various topics chosen from the 18th through 20th centuries. Prerequisite: Mathematics 111 or 112 or permission of instructor.
- 212 Discrete Structures (3)** Spring Odd
A course relating discrete mathematical structure to computing. Topics included are sets, relations, functions, equivalence and congruence relations, Boolean algebra, graph theory and matrices. Prerequisite: Mathematics 111 or 112 or permission of instructor.

- 291- **Problem-solving Seminar (1)** Fall
 294 A study of various mathematical problem-solving techniques. Weekly sessions will be devoted primarily to presenting and solving Putnam Examination problems. Open to qualified freshmen and sophomores with permission of instructor. Prerequisite: Mathematics 112 or permission of instructor. (Graded on a pass/no-record basis.)
- 304 **Abstract Algebra I (3)** Fall Even
 An introduction to algebraic structures: groups, rings, integral domains, and fields. Prerequisite: Mathematics 203 or permission of instructor.
- 305 **Abstract Algebra II (3)** Occasional
 Continuation of Mathematics 304. A more extensive study of algebraic structures. Prerequisite: Mathematics 304.
- 311 **Real Analysis I (3)** Fall Odd
 An introduction to the content and methods of single-variable real analysis: infinite sets, the real number system, sequences, limits, series, continuity, differentiation, and integration. Prerequisite: Mathematics 200 or permission of instructor.
- 312 **Real Analysis II (3)** Occasional
 A rigorous study of the theory of real and vector-valued functions of several variables: differentiability, multiple integrals, line and surface integrals, infinite series of functions. Prerequisites: Mathematics 201, 311.
- 315 **Complex Analysis (3)** Occasional
 A study of the complex number system, functions of complex numbers, integration, differentiation, power series, residues and poles, and conformal mappings. Prerequisite: Mathematics 201 or permission of instructor.
- 317 **Topology (3)** Occasional
 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 200 or 203.
- 341- **Special Topics (3)** Occasional
 348 These mathematics courses cover different topics that 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 (1-3)** Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

Medical Technology

To be certified by the Registry of Medical Technologists of the American Society of Clinical Pathologist or other certifying agencies, a student must complete three years of college work (90 credits) and one year of clinical education in a school of medical technology approved by the Council on Medical Education of the American Medical Association.

The three-year (90 credit) pre-clinical program must include:

1. All the general education courses required for the B.A. degree.
2. Course work prescribed by the registry—a minimum of 16 semester hours in chemistry; a minimum of 16 semester hours in biology, including microbiology; and 2 courses of college mathematics, one of which must be statistics. In addition, physics, human anatomy and physiology, and computer science are strongly recommended.
3. Elective courses to complete the 90 credit minimum. The college recommends that the electives include Chemistry 205 and Psychology 201. It is suggested that Latin, Spanish or French be used to meet the foreign language requirement.

In the junior year the medical technology student, working with the college medical technology coordinator, will complete the application procedures for admission to a school of medical technology approved by the Council on Medical Education.

At the end of the spring semester of the junior (or senior) year, the student must preregister for the entire year of hospital training in order to be properly enrolled at Dordt College and to ensure financial and insurance benefits. Forms are available from the medical technology advisor or the registrar.

Music

General Major—

Core (common to:
both emphases) Music 019, 103, 104, 203, 204, 207, 208, 308, 315; six large ensemble credits; general education requirements Psychology 201 and Philosophy 206.

Students must select one of the following emphases:

Church Music: Core; one course from Education 215, Psychology 205, or Psychology 206; one course from Theology 201, 203, 204; Sociology 216; Music 210, 211, 212, 312 or 313, 323 or 325; eight semesters from Music 241-276 selected in consultation with an advisor.

Performance and
Pedagogy: Core; Psychology 205 or 206; Education 215; Music 309; and all of the courses in one of the following performance categories:
1. Organ: Music 261-266, 360, 361, 325, and 211 or 212.
2. Piano: Music 251-256, 350, 351, 326, 393.
3. Voice: Music 241-246, 340, 341, 323, 393.
4. Instruments: Music 271-276, 370, 371, one course from 316-319; 393.

Note: Students in performance and pedagogy must audition for acceptance into the program by the end of the sophomore year. Students in performance and pedagogy are required to present a half junior recital and a full senior recital.

General Minor—

Church Music: Music 103, 104, 210, 211, 212, 315; six semesters from 241-266 selected in consultation with an advisor; two large ensemble credits.

Music Performance: Music 103, 104; two courses from Music 207, 208, 210, 308, 323, 325, or 326; five semesters in one area from 241-245, 251-255, 261-265, 271-275; one course from Music 340, 350, 360, 370; six large ensemble credits.

Note: Music performance minors must audition for acceptance into the minor program not later than their junior year. Music performance minors are required to present a half recital.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

Ensembles (Graded on a pass/no-record basis)

- | | | |
|-----------|---|--------------|
| 10 | Chorale (1) | Fall, Spring |
| 11 | Band (1) | Fall, Spring |
| 12 | Concert Choir (1) | Fall, Spring |
| 13 | Small Instrumental Ensemble (.5) | Fall, Spring |
| | A variety of small instrumental ensembles, including Jazz Band. | |
| 18 | Small Vocal Ensemble (.5) | Fall, Spring |
| | A variety of small vocal ensembles, including Kantorei. | |
| 20 | Orchestra (1) | Fall, Spring |

Classroom Courses

- | | | |
|------------|--|-----------|
| 103 | Music Theory I (4) | Fall |
| | A basic course in music theory which lays the foundation for basic musicianship and further study in music through development of basic skills in music reading, writing, and analysis; notation; aural perception; and keyboard. The materials and techniques of Western music are studied as a basis for the understanding of music, for discrimination in music, and for composition. | |
| 104 | Music Theory II (4) | Spring |
| | Continuation of Music 103. Prerequisite: Music 103. | |
| 203 | Music Theory III (4) | Fall |
| | A continuation of Music 103-104, with focus on advanced and chromatic harmony. Prerequisite: Music 104. | |
| 204 | Music Theory IV (4) | Spring |
| | An examination of the dissolution of the major-minor tonal system and the resulting new theoretical bases of 20 th -century music. Aural skills related to the analytical and written skills will be developed. Prerequisite: Music 203. | |
| 207 | Music History (3) | Fall Even |
| | The historical development of the art of music, showing the development of music through the great eras in history and the relationship of music to the political, economic, and cultural conditions of these eras. | |

- 208 Music History (3)** Spring Odd
Continuation of Music 207.
- 210 History of Music in the Church (3)** Fall Odd
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)** Spring Even
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)** Fall Even
A study of the organization of the church music program and appropriate music literature for organ, voice, and instruments.
- 305 Orchestration (3)** Spring Odd
A study of transposition, instrumental ranges, and balance by arranging keyboard and choral works for instrumental ensembles.
- 306 Music and Digital Technology (3)** Spring Even
Modern uses of digital technology relating to sound will be surveyed and skills relating to the most common types of the manipulation of digital sound will be taught. Each student will be required to complete a major project that demonstrates a useful application of the skills learned in the course. The course will be useful to anyone who plans to be engaged in composition, arranging, sound engineering, or music education.
- 308 Music Literature (3)** Fall Odd
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 genre will be explored. The compositions will be examined and discussed in terms of salient style features and form.
- 309 Form and Analysis (3)** Spring Even
A practical and analytical course in the structure of music forms.
- 312 Teaching Music in the Elementary School (3)** Fall
A course for music majors and minors designed to provide a detailed study of methods and materials of music education in the elementary school.
- 313 Choral Music Education (3)** Fall Odd
Teaching techniques and materials for the prospective vocal music educator. While designed for those preparing to teach choral music in the secondary school, this course also deals with repertoire selection and rehearsal planning and would therefore be of benefit to those preparing to enter the field of church music.
- 314 Instrumental Music Education (3)** Fall Even
Teaching techniques and materials for those planning to teach elementary and/or secondary instrumental music.

- 315 Conducting (3)** Fall Odd
A study of choral and instrumental conducting with corresponding literature.
- 341- Special Topics (3)** Occasional
- 348** 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.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
- 393** See "Individual Studies" section of "Academic Offerings."

Pedagogy

- 316 Brass Pedagogy (1)** Fall Even
Methods of teaching brass instruments.
- 317 Woodwind Pedagogy (1)** Spring Odd
Methods of teaching woodwind instruments.
- 318 String Pedagogy (1)** Spring Even
Methods of teaching string instruments.
- 319 Percussion Pedagogy (1)** Fall Odd
Methods of teaching percussion instruments.
- 323 Vocal Pedagogy (2)** Fall Even
Methods of teaching voice.
- 325 Organ Pedagogy and Literature (3)** Occasional
Study of the techniques and methods of teaching organ and survey of literature for the organ.
- 326 Piano Pedagogy and Literature (3)** Occasional
Study of techniques and methods of teaching piano and survey of literature for the piano.

Private Instruction

The following are courses of private instruction for non-music majors and may be repeated; graded on a pass/fail basis.

- 04 Group Voice (1)** Fall, Spring
- 05 Group Piano (1)** Fall, Spring
- 14 Private Voice (1)** Fall, Spring
- 15 Private Piano (1)** Fall, Spring
- 16 Private Organ (1)** Fall, Spring
- 17 Private Instruments (1)** Fall, Spring

- 19 Piano Proficiency (O credit)** Fall, Spring
 Passing the piano proficiency requirement is necessary for certain majors and minors in music. Piano proficiency is demonstrated by passing a test administered by the music department. Preparation for this test may be gained through the taking of piano lessons.

The following are courses of private instruction on their principal instrument for music majors. Semesters of private instruction are numbered consecutively from one to six. Each semester of private instruction is a prerequisite for the following semester; i.e., a student must successfully complete semester one before registering for semester two, etc. One hour of credit is awarded for each semester. Music majors may take a maximum of six semesters from the following:

- 241-246 Private Voice (1)** Fall, Spring
251-256 Private Piano (1) Fall, Spring
261-266 Private Organ (1) Fall, Spring
271-276 Private Instruments (1) Fall, Spring

The following advanced study courses are open only to students in major or minor programs of study requiring them. Admission is by audition; dates of the qualifying juries are posted in the music building.

- 340 Advanced Private Voice (3)** Fall, Spring
 Preparation of a half junior or senior recital.
- 341 Advanced Private Voice (3)** Fall, Spring
 Preparation of a full senior recital. Prerequisite: Music 340.
- 350 Advanced Private Piano (3)** Fall, Spring
 Preparation of a half junior or senior recital.
- 351 Advanced Private Piano (3)** Fall, Spring
 Preparation of a full senior recital. Prerequisite: Music 350.
- 360 Advanced Private Organ (3)** Fall, Spring
 Preparation of a half junior or senior recital.
- 361 Advanced Private Organ (3)** Fall, Spring
 Preparation of a full senior recital. Prerequisite: Music 360.
- 370 Advanced Private Instrumental (3)** Fall, Spring
 Preparation of a half junior or senior recital.
- 371 Advanced Private Instrumental (3)** Fall, Spring
 Preparation of a full senior recital. Prerequisite: Music 370.

Philosophy

- General Major— Philosophy 201, 301, 302, 303, 304, 309 and five elective courses in philosophy; electives may include Engineering 390 and/or one course from Political Studies 310 or 312, Theology 347.

- 201 Perspectives in Philosophy (3)** Fall, Spring
An introduction to the nature, task, and basic problems of philosophy, its relationship to worldview, and a survey of its history.
- 202 Logic (3)** Spring Even
An introduction to the study of logic, both deductive and inductive, focusing on its systematic, philosophical, and historical development.
- 206 Aesthetics (3)** Spring Even
A study of the aesthetic dimension of creation, nature and qualifying function of artistic activity and artifacts, and an introduction to general aesthetic theory and its history. Prerequisite: Philosophy 201.
- 301 Ancient Philosophy: The Dawn of Western Thought (3)** Fall Odd
A study of the pagan roots of the thought patterns that shape our contemporary world. Designed for students interested in the philosophical and historical origins of our modern scientific culture. Readings in primary sources and a paper.
- 302 Medieval Philosophy: Medieval Roots of Modern and Contemporary Thought (3)** . Spring Odd
A study of the medieval thought patterns that shaped our contemporary world. Designed for students interested in the history of philosophy, theology, and science. Readings in primary sources and a paper.
- 303 History of Modern Philosophy (3)** Fall
A survey of philosophical problems and movements in the Western world from the end of the 15th century to the middle of the 19th century. Readings in primary sources.
- 304 History of Contemporary Philosophy (3)** Spring
A survey of philosophical problems and movements in the Western world from the middle of the 19th century to the present. Readings mainly in primary sources.
- 309 History of Christian Philosophy (3)** Fall Even
An analysis of the origin and development of Christian philosophy since the Reformation, in the context of Western thought. Prerequisite: Philosophy 201. Philosophy majors are advised to complete the history of philosophy sequence before taking Philosophy 309.
- 310 Systematics of Christian Philosophy (3)** Fall Odd
An in-depth study of selected topics in the systematic philosophy of 20th century Christian philosophers. Specific attention will usually be given to the conceptions of such people as Dooyeweerd, Stoker, Vollenhoven and/or those who follow in their line. Prerequisite: Philosophy 201.
- 320 Philosophy of the Social Sciences (3)** Fall
A study of contemporary views of society (e.g., behaviorism, symbolic interactionism, neo-Marxism), of the philosophical foundations of the social sciences and their methods, and of current attempts on the part of Christians to address these matters. Prerequisites: Philosophy 201; preferably junior or senior standing, with at least one course in economics, psychology, sociology, or political studies.
- 333 Philosophy of the Environment (3)** Spring Odd
An historical and systematic study of the structure and normed character of the various relationships between human beings and their environment. Prerequisites: Philosophy 201; junior or senior standing. [Cross-listed: Environmental Studies 333]

- 341- Special Topics (3)** Occasional
- 348** Each of these courses is designed to be a special interest course utilizing individual instructor strengths, interests, and competencies. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.
- 350 Philosophical Anthropology (3)** Spring Even
A survey of different non-Christian views about the nature, place, and task of man, and a study of the main themes of a Christian theory of man. Prerequisite: Philosophy 201. Open to juniors and seniors in all disciplines.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
- 393** See "Individual Studies" section of "Academic Offerings."

Physical Science

For descriptions of the SECONDARY minor and the ELEMENTARY fields of specialization, see the "Teacher Education Program" section on pages 100-115.

- 107 Introduction to Physical Science (3)** Fall, Spring
An introductory survey of the physical sciences with particular emphasis upon topics selected from the areas of astronomy, chemistry, geology, meteorology, and physics. Attention will be given to the relationship between scientific discovery and theory in these sciences and the Christian faith. The course meets three hours per week.
- 201 Perspectives in Physical Science (3)** Fall Even
The coherence existing in the physical aspect of creation is used to develop a Christian attitude toward physical science. Various schools of thought are examined; differences between Christian and non-Christian approaches are explored. Prerequisite: one year of high school physical science or a college course in one of the sciences. Open only to upperclassmen.

Physics

General Major— Physics 201, 202, 203, 206, 325, 326, 335, 336; Chemistry 103, 104, 301, 302; Mathematics 112, 113, 201, 204.

For descriptions of SECONDARY majors, minors, and teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

- 115 General Physics (4)** Fall
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 per week.
- 116 General Physics (4)** Spring
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.

- 201 Introductory Physics I: Mechanics (4)** Spring
An introduction to the study of the physical aspect of reality for students intending to continue in the physical sciences and engineering. Statics, linear and rotational dynamics, and gravitation will be covered. Three lectures and one laboratory period per week. Pre- or corequisite: Mathematics 113.
- 202 Introductory Physics II: Fluids, Waves, Heat, Electricity, and Magnetism (4)** Fall
Continuation of Physics 201. Topics covered include fluid statics and dynamics, waves, heat and thermodynamics, and electricity and magnetism. Three lectures and one laboratory per week. Prerequisite: Physics 201.
- 203 Introductory Physics III: Electricity and Magnetism, Electromagnetic Waves, Optics, and Modern Physics (3)** Spring
Continuation of Physics 202. Topics covered include continuation of electricity and magnetism, electromagnetic waves, optics, quantum physics, and topics in modern physics. Three lectures per week. Prerequisite: Physics 202.
- 206 Electronics (4)** Fall
A study of the flow of electricity in, and application of semiconductor devices. Topics include operational amplifiers and frequency response, diode circuits, bipolar frequency response, diode circuits, bipolar junction and field effect transistors, current sources, biasing, current mirrors, small signal analysis, single and multi-stage amplifiers, and feedback. The laboratory includes a number of short design problems. Prerequisite: Physics 203. [Cross-listed: Engineering 322]
- 301- Research (1)** Fall, Spring
305 Original research in experimental or theoretical physics on an approved topic supervised by departmental staff. Prerequisites: Physics 116 or 202; permission of department. (Graded on a pass/no-record basis.)
- 325 Classical Mechanics (4)** Fall Even
Lagrangian and Hamiltonian dynamics, general rigid body motion, theory of vibrations and waves, relativistic particle mechanics are studied. Prerequisites: Physics 203; Mathematics 201, 204.
- 326 Electromagnetic Theory (4)** Spring Odd
Review of vector calculus; divergence, curl, Gauss' and Stoke's theorems; electro- and magneto-statics; polarization, boundary conditions, Laplace and Poisson equations, magnetic vector potential, energy, Maxwell's equations for time-varying fields, wave propagation, Poynting's theorem. Prerequisites: Physics 203; Mathematics 201, 204.
- 335 Modern Physics (4)** Fall Odd
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 203; Mathematics 201, 204.
- 336 Modern Physics (3)** Spring Even
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; Mathematics 201, 204.
- 341- Special Topics (3)** Occasional
348 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 background and availability. The prerequisite(s) will depend on the topics covered.

- 391- **Individual Studies (1-3)** Fall, Spring, Summer
 393 See "Individual Studies" section of "Academic Offerings."

Political Studies

General Major— Political Studies 201, 210, 212 or 332, 233, 310, 312, 333, 370, and two additional electives* in political studies.

General Minors—

General: Political Studies 201, 210 or 233, 212 or 332, 333, and two electives* in political studies.

(*one of these electives may be fulfilled by either Political Studies 373 or participation in a semester-long approved off-campus program).

Public Administration: Political Studies 245, 212 or 332, 333; one from Economics 203, 315 or Business Administration 320; Communication 228. With prior department approval, Political Studies 373 may be substituted for Economics 315, Business Administration 320, or Communication 228.

International Affairs: Political Studies 201, 210, 233, 370; Economics 321; one from History 210, 212, 213, 214; one from Theology 306, 307, 341 (Special Topics: Islam). With prior department approval, Political Studies 373 may be substituted for the history requirement.

For descriptions of the SECONDARY minors and teaching endorsements, and the ELEMENTARY fields of specialization, see the "Teacher Education Program" section on pages 100-115.

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- 201 **Introduction to Politics (3)** Fall, Spring
 An introduction to the political dimension of life from a biblically oriented perspective. Examines the components (political culture, ideology, institutions, etc.) which shape and direct the principles and practice of politics in the contemporary world. Special attention is given to a major world issue (e.g., nuclear arms) to stimulate students to develop a Christian political consciousness.
- 210 **International Relations (3)** Fall
 An introduction to the contemporary relations among states with a consideration of the issues of war and peace, international organizations, law, integration, political economy, interdependence, and relations among the superpowers.
- 212 **American National Politics (3)** Fall
 A general introduction to the American political process—its foundations, external influences, institutions, political actors, and policy making.
- 214 **Community Politics (3)** Spring Even
 Provides a basic introduction to the political process at the state and municipal level, examining the role of the individual citizen, various groups, and governmental institutions. Attention is given to the special policy needs at the state and community level, their links with the federal government, and the particular character of local politics.

- 233 Politics Around the World: A Comparative View (3)** Spring Even
Explores the rich diversity of politics by studying the political culture, institutions, and policy of selected countries in Europe, Asia, Africa, and Latin America.
- 245 Introduction to Public Administration (3)** Fall
Provides an introduction to the interdisciplinary field of Public Administration. Subjects to be considered include the role of the public service in society, public service values and ethics, accountability and political control of the public service, the budgetary process, organizational forms in government, human resources, principles of public management, and new forms of delivering government services.
- 310 Foundations of Political Thought (3)** Spring Odd
A study of the emergence and development of political thought, examining the contributions of Plato, Aristotle, Augustine, Aquinas, and others through the use of both primary and secondary sources.
- 312 Contemporary Political Ideologies (3)** Fall Even
Explores the competing views of the social order embodied in the major ideologies and movements of the 20th century; topics such as liberalism, conservatism, democratic socialism, feminism, environmentalism, and other contemporary variations are discussed.
- 322 American Constitutional Law (3)** Fall
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 developments in constitutional law in reference to civil liberties. [Cross-listed: History 322]
- 332 Canadian Government and Politics (3)** Fall Odd
An introduction to the Canadian political system including a study of Canadian federalism, national identity, political values and culture, institutions, policy, and process. [Cross-listed: History 332]
- 333 Public Policy (3)** Spring
Provides a general introduction to the public policy process in the United States, including an exploration of the socio-economic and cultural context, the defining characteristics of the political system, and various phases in the policy process. Special attention is given to selected policy issues such as energy and the environment, criminal justice, poverty, health care, and immigration.
- 335 Environmental Policy and Politics (3)** Spring
An introduction to environmental policy in North America with an emphasis on the United States. The course will focus on key environmental policies and the political process and actors involved in the making of policies. This will include a discussion of environmental regulation and other public policy instruments used to care for creation. [Cross-listed: Environmental Studies 335]
- 341- Special Topics (3)** Occasional
348 Each of these courses is designed to be of special interest and value to students utilizing strengths and skills of individual instructors. Each topic is concerned with material not normally treated in depth in regularly scheduled courses.
- 370 Global Security Issues (3)** Spring Odd
This seminar course examines the challenges facing world security in the twenty-first century, including

arms proliferation, ecological threats, economic globalization, ethnic conflict, resource scarcity, political economy, and human rights.

- 373 Field Experience in Politics (3)** Fall, Spring
Students complete a limited field experience in a politics-related area. The experience is aimed at providing exposure to the type of activities in which political studies graduates are likely to be involved as professionals. Three hours of course credit is to be based on the completion of 8 - 10 hours on the site per week plus one hour of work determined in consultation with the supervising member of the political studies department for 14 weeks. Deadline for application for the spring semester is November 1; deadline for the fall and summer semester is March 1. Prerequisites: political studies minor or major, junior or senior standing, and approval of the department.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
- 393** See "Individual Studies" section of "Academic Offerings."

Psychology

General Major— Psychology 201, 207, 301, 308; two courses from 205, 206, 210; two courses from 221, 225, 305; and two courses from 302, 303, 315.

For descriptions of the SECONDARY minors and teaching endorsements, and the ELEMENTARY fields of specialization, see the "Teacher Education Program" section on pages 100-115.

- 201 General Psychology (3)** Fall, Spring
An introduction to the field of psychology. Surveys the areas of motivation, perception, learning, personality, and development. Consideration is given to various philosophical presuppositions underlying contemporary psychology, and an attempt is made to understand the various problems in terms of a biblical view of humans.
- 205 Developmental Psychology I (3)** Fall, Spring
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 states. Prerequisite: Psychology 201 or Education 101.
- 206 Developmental Psychology II (3)** Spring
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)** Fall, Spring
An elementary course in statistical techniques and methods and their application to the field of psychology. Spreadsheet knowledge is suggested. [Cross-listed: Mathematics 107]
- 210 Social Psychology (3)** Fall, Spring
The study of individuals' psychological processes as they influence and are influenced by socio-cultural situations. Topics include cognitive biases, the relationship between attitudes and behavior, conformity and persuasion, interpersonal attraction, altruism, prejudice and aggression. Prerequisite: Psychology 201. [Cross-listed: Sociology 210]

- 221 Physiological Psychology (3)** Spring
An introduction to the physiological/biological processes involved in human psychology. Primary emphasis will be on relating brain and nervous system functioning with basic psychological processes, such as motivation, emotion, sleeping, learning, memory, and abnormal behavior. In addition, several topical areas will be addressed, including alcoholism, drug addiction, homosexuality, physiology of sexual differences, psychosomatic disorders, and a Christian perspective on the mind-body-soul dilemma. Prerequisite: Psychology 201.
- 225 Abnormal Psychology (3)** Fall
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.
- 245 Student Development Seminar (3)** Fall
Developed especially to train Student Services staff. Topics covered include empathic listening skills, confrontation skills, leadership skills, stress management, time management, medical emergency techniques, etc. One-third of the course involves a week-long orientation retreat in the fall. Open only to community advisors and resident assistants. This course cannot be included as part of the ten courses required for the psychology major.
- 301 Experimental Psychology (4)** Fall
An introduction to research methods with a review of statistical analytic techniques. Students complete a research project that culminates in a final paper and conference presentation. Research methods are evaluated from a Christian perspective. Two lectures and one laboratory period per week. Prerequisites: Psychology 201 and 207.
- 302 Learning: Theory and Applications (3)** Fall
The study of the basic processes of learning along with the major theories, research and applications associated with learning issues. The major areas to be examined will include classical conditioning, operant conditioning and cognitive approaches to learning. Some of the specific topics will include behavior modification, memory function, problem solving, reasoning, and perception. Several activities and discussions will be directed to the application of these concepts to educational, clinical, and other applied settings. Throughout the course students will be challenged to critique much of the theory and application in the light of biblical models of personhood.
- 303 Personality: Theories and Assessment (3)** Fall
A comparative analysis of the major personality theories including Freud, Jung, Adler, Allport, Rogers, Bandura, Kelly, and Cattell. A number of attempts by Christian authors to critique contemporary theories and/or develop alternative models will also be examined. The course will also overview various testing principles, objective and projective tests, and test interpretation.
- 305 Health Psychology (3)** Spring Even
Survey course examining the contributions of psychology to the understanding, prevention, and treatment of a variety of health concerns. Topics include stress, pain management, cancer, eating disorders, exercise, and health promotion. Prerequisites: Psychology 221 or 225 and junior or senior standing.
- 308 History and Systems of Psychology (3)** Spring
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. Prerequisites: Psychology 201 and Philosophy 201.

- 310 Fundamentals of Practice (3)** Spring
The focus is on acquiring the core interpersonal and problem-solving skills for human service practice. Development of self-awareness and self-knowledge related to growth in skills and a beginning identity as a human service professional will also be emphasized. The course is organized around experimental learning models. Prerequisites: junior or senior psychology major.
- 315 Introduction to Counseling (3)** Spring
Introductory course in counseling theory emphasizing the dynamics of the counseling process and characteristics of the counseling relationship in the light of biblical directives concerning human nature, purpose, responsibility, and conduct. Prerequisites: a minimum of three courses in psychology; junior or senior standing.
- 341- Special Topics (3)** Occasional
348 Each of these courses is designed to be a special interest course utilizing individual instructor strengths and interests. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.
- 371- Field Experience in Psychology (3)** Fall, Spring
372 Students complete a limited field experience in a psychology-related area. The experience is designed to provide a sample of the type of activities in which psychologists and other human service professionals are engaged; it is not intended to develop competence to the level of a beginning practitioner. Three hours of course credit will be based on the completion of eight hours on the site per week plus one hour of consultation with psychology department supervisors per week for 14 weeks (126 hours). Deadline for application for the spring semester is November 1; deadline for the fall (and summer) semester is April 1. Prerequisites: psychology major of junior or senior standing; approval of department.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Social Studies

General Major— History 201, 202; four history courses numbered 200 or above; Economics 202, 203; Political Studies 201, 212; Sociology 201, 207, 210; Sociology 215 or 216; three courses from economics, history, political studies, and sociology.

For the ELEMENTARY field of specialization and endorsement in social studies, see the elementary part of the "Teacher Education Program" section on pages 100-115.

Social Work

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 beginning social work practice. The program is fully accredited by the Council on Social Work

Education (1986). 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. Graduates will receive the bachelor of social work degree.

Admission to the Program Application for admission to the program is required and should be filed during the spring 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; completion of at least 39 credits; completion of or current enrollment in Biology 101, Psychology 201, Sociology 201, 207, General Education 200, Theology 101, History 100, Philosophy 201, English 101, 200, Communication 110, Economics 200 or Political Studies 201, Social Work 215, 216, 225, and 226.
2. A written statement of personal interest which indicates an ability to communicate effectively and a commitment to social work as a vocation.
3. Acceptable physical and psychological health.
4. Enrollment in practice courses is limited to students who have been admitted to the program.

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 spring 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's 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—pages 166-168 of the catalog.
3. Senior standing (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 overview 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, 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.

Academic credit for life experience or previous work experience shall not be given, in whole or in part, in lieu of the field practicum or of the courses in the professional foundation areas.

Course Requirements, B.S.W. - Social Work Program

General Education (see pages 45-48) Social work majors must complete all of the general education requirements for students seeking a bachelor's degree, with the following guidelines:

1. Social work majors must take Biology 101 as part of the natural science requirement.
2. Sociology 207 (Elementary Statistics) meets the mathematics requirement.
3. Spanish is the recommended foreign language.
4. Both Psychology 201 and Sociology 201 are prerequisite program requirements. Social work majors must take both courses in addition to the economics/political studies requirement.

Major 54 credits

Social Work 225 (3)	Freshman
Social Work 216 (3)	Freshman
Social Work 215 (3)	Sophomore
Social Work 226 (3)	Sophomore
Sociology 207 (3)	Junior
Social Work 300 (3)	Junior
Social Work 303 (3)	Junior
Social Work 310 (3)	Junior
Social Work 311 (3)	Junior
Social Work 315 (3)	Junior
Sociology 307 (3)	Senior
Social Work 304 (3)	Senior
Social Work 312 (3)	Senior
Social Work 325 (3)	Senior
Social Work 374 (12)	Senior

Note: Social Work 374 (Field Work Experience) must be taken at Dordt College to receive graduation credit toward the social work major.

215 Vulnerable Populations (3) Spring

A historical and contemporary analysis of groups considered vulnerable by economic and social standards in American society. Causes, consequences and implications for society are examined from a biblical view of humankind with an emphasis on social work practice. [Cross-listed: Sociology 215]

- 216 Racial and Ethnic Minorities in Society (3)** Fall
Examines the historical and contemporary aspects of racism and prejudice in North America while increasing knowledge and appreciation of the contributions and life styles of minority groups in culturally pluralistic societies. Human diversity, instead of something to be tolerated, is treated as an asset; and human rights, regardless of race or color, are to be respected. Students assess their own prejudices in light of the course knowledge base and gain first-hand experience with minority subcultures. Knowledge, attitudes, and skills are integrated to provide social science and other students an opportunity to increase knowledge of, and sensitivity to, cultural diversity. [Cross-listed: Sociology 216]
- 225 Introduction to Social Work (3)** Fall
A survey 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 Philosophy of Social Welfare and Social Work (3)** Spring
Examines 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. Prerequisites: Social Work 216, 225; History 101; Theology 101; Philosophy 201; or permission of instructor.
- 300 Human Behavior and the Social Environment (3)** Spring
Presentation of a theoretical and conceptual framework for understanding socio-psycho-biological factors in human development across the life cycle. The focus is on the interrelationship between the individual, family, small groups, and society. Prerequisites: Social Work 226; Biology 101; and English 200.
- 303 Child and Family Welfare Policy (3)** Spring
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. Prerequisites: Social Work 300, 315; or permission of instructor.
- 304 Aging and Social Work (3)** Fall
An in-depth examination of the myths and realities of aging in Western culture. Combining sociological theory and practice, this course introduces the student to ageism, physiological and psychological change over time, theories of social gerontology as well as current issues such as health policy, retirement, the extent of family support, institutionalization, and the aged in the political arena. Will include field work assignments with older persons, guest speakers, and site visits to programs for the aging. Prerequisites: Social Work 311, 315.
- 310 Fundamentals of Social Work Practice (3)** Fall
The focus is on acquiring the core interpersonal and problem-solving skills for social work practice. Development of self-awareness and self-knowledge related to growth in skills and a beginning identity as a social work professional will also be emphasized. The course is organized around experiential learning models. Prerequisites: Social Work 215, 225; English 101 and Communication 110.
- 311 Practice Methods I (3)** Spring
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 problem-solving skills related to groups found within social work practice with a variety of intervention strategies presented. Prerequisite: Social Work 310.

- 312 Practice Methods II (3)** Fall
A continuation of Social Work 310 and 311 with an emphasis on practice at the agency, and community levels. Prerequisites: Social Work 310 and 311.
- 315 Social Welfare Policy (3)** Fall
Through a series of outside readings and exercises, students apply scriptural principles and build critical skills in the areas of social welfare policy. The value base for current social policy is examined and current ways of delivering human services are critiqued. Topics covered include how benefits are allocated, welfare reform, cost-effectiveness analysis, program development, public finance, block grants and grant writing, human service budgeting, and political advocacy. Prerequisites: Social Work 226; Political Studies 201.
- 325 Integrative Seminar in Social Work (3)** Spring
An opportunity for students to reflect on and integrate the academic and field work experience with a special emphasis on ethical and value dilemmas confronted by the student in the field. (Open only to senior social work majors who have completed the professional semester admission process.) Prerequisite: concurrent enrollment in Social Work 374.
- 374 Field Work Experience (12)** Spring
The field work course is designed to provide the student with the opportunity to apply classroom knowledge, principles, and skills in a community agency under the supervision of a professional social worker. (Open only to senior social work majors who have completed the professional semester admission process.) Prerequisite: concurrent enrollment in Social Work 325.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Sociology

General Minor— Sociology 201, 210, 215, 216, 302; one course from Sociology 207, Philosophy 320, or Social Work 226.

For descriptions of the SECONDARY minors and teaching endorsements, and the ELEMENTARY fields of specialization, see the "Teacher Education Program" section on pages 100-115.

- 201 Principles of Sociology (3)** Fall, Spring
Sociology focuses on the social landscape which shapes how we think, feel, and behave. The course introduces the field of sociology and provides an overview of major sociological topics, such as culture, socialization, deviance, minorities, sex roles, the family, religion, and population. Students are encouraged to critique sociological theory from a biblical basis and build a Christian sociological perspective.
- 207 Elementary Statistics (3)** Fall, Spring
An elementary course in statistical techniques and methods and their application to the social sciences. Spreadsheet knowledge is suggested. [Cross-listed: Mathematics 107, Psychology 207]
- 210 Social Psychology (3)** Fall, Spring
A study of individuals' psychological processes as they influence and are influenced by socio-cultural situations. Topics include cognitive biases, the relationship between attitudes and behavior, conformity

- and persuasion, interpersonal attraction, altruism, prejudice and aggression. Prerequisite: Psychology 201 or Sociology 201. [Cross-listed: Psychology 210]
- 215 Vulnerable Populations (3)** Spring
A historical and contemporary analysis of groups considered vulnerable by economic and social standards in American society. Causes, consequences, and implications for society are examined from a biblical view of humankind with an emphasis on social work practice. [Cross-listed: Social Work 215]
- 216 Racial and Ethnic Minorities in Society (3)** Fall
Examines the historical and contemporary aspects of racism and prejudice in North America while increasing knowledge and appreciation of the contributions and life styles of minority groups in culturally pluralistic societies. Human diversity, instead of something to be tolerated, is treated as an asset; and human rights, regardless of race or color, are to be respected. Students assess their own prejudices in light of the course knowledge base and gain first-hand experience with minority subcultures. Knowledge, attitudes, and skills are integrated to provide social science and other students opportunity to increase knowledge of, and sensitivity to, cultural diversity. [Cross-listed: Social Work 216]
- 302 Marriage and Family (3)** Spring
A study of contemporary marriage and family, which includes an analysis of how society affects family and marriage. The course actively seeks to place current issues and themes within a Christian perspective (sex roles, sexuality, work and marriage, divorce, remarriage). Prerequisite: junior or senior standing or permission of instructor.
- 307 Methods of Social Science Research (3)** Fall
An introduction to the research process as applied to the study of problems/issues in social science. Problem selection, research design, measurement, methods of observation and data collection, data analysis and interpretation, and report writing will be emphasized. A module on microcomputer utilization and the application of descriptive statistics is presented for application in student projects. Prerequisites: Sociology 207; junior or senior standing.
- 341- Special Topics (3)** Occasional
348 Each of these courses is designed to be a special interest course utilizing individual instructor strengths and interests. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Spanish

- General Major—** Spanish 201, 202, 206, 302; Linguistics 201; five courses from Spanish 102, 205, 207, 208, 301, 304, 341-348, 393; four semesters of Spanish conversation 251-258; six credits in study-abroad courses are required.
- General Minor—** Spanish 201, 202, 206, 302; one course from Spanish 102, 205, 304, 341-348, 393; three semesters of Spanish conversation 251-258. Three credits in study-abroad courses are required.

For descriptions of SECONDARY and ELEMENTARY majors, minors, fields of specialization, and

teaching endorsements, see the "Teacher Education Program" section on pages 100-115.

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- 101 Introductory Spanish (4)** Fall
An introductory study of the language and culture of Spanish-speaking people. Emphasis on the acquisition of oral and written language skills in a communicative context combined with the study of cultural etiquette and social customs. The course includes weekly sessions with advanced students or native speakers to practice oral skills.
- 102 Elementary Spanish (3)** Spring
Continuation of Spanish 101. Prerequisite: one year of high school Spanish or Spanish 101.
- 201 Intermediate Spanish (3)** Fall, Spring
An intermediate course which continues the study of the language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills. Some attention given to the nature of language. Emphasis on the development of cultural understanding and sensitivity, with a study of the people's values and beliefs as expressed in their economic, political, and religious systems. Comparison of this culture with our culture in the light of the cultural mandate. Prerequisite: two years of high school Spanish or Spanish 102.
- 202 Literary and Cultural Readings (3)** Spring Even
Designed to develop 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.
- 205 Spanish for the Workplace (3)** Spring Odd
Designed to develop the Spanish language skills of reading, writing, listening, and speaking for the workplace and business. The setting will be Latin America and Spain, but also the workplace in the United States as it involves Spanish-speaking people. Prerequisite: Spanish 201 or equivalent.
- 206 Spanish Culture (3)** Spring Odd
Designed to present various aspects of the way of life of the Hispanic people. Listening and speaking skills will be developed through classroom activities. Prerequisite: Spanish 201 or equivalent.
- 207 World Literature (3)** Occasional
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)** Occasional
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)** Fall, Spring
Designed to give the student practice in listening and speaking. The content of the courses will be altered each year. The class will meet two times each week. (Graded on a pass/no record basis.) Prerequisite: Spanish 102.
- 301 Spanish Phonology (3)** Fall Even
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)** Spring Even
Designed for those who desire a better understanding of the structure of the language. The scope of grammar will be approached systematically. Prerequisite: Spanish 201 or equivalent.
- 304 Spanish Literature (3)** Spring Odd
A study of the major writers and movements in the literature of Spain from the Middle Ages to the present. The course will be conducted in Spanish. Prerequisite: Spanish 202 or equivalent.
- 341- Special Topics (3)** Occasional
348 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 (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Special Education

See the "Teacher Education Program" section noting "Field of Specialization" on page 104 and "Special Education Major or Minor" on page 113.

Teaching English as a Second Language

- 371 Foundations of ESL/EFL Teaching (3)** Spring
The course begins with a discussion of the principles, theories, and philosophy of ESL/EFL teaching which provide the foundation for classroom practice. First and second language acquisition theories will be discussed. The emphasis is on communicative, interactive teaching and how this type of teaching can be implemented in the ESL/EFL and bilingual classroom. Motivation, learner variables, and teaching the various language skills are all dealt with. The course concludes with a section on ESL/EFL testing.
- 372 Teaching ESL/EFL—A Practicum (3)** Spring
Beginning with a review of the need for solid theoretical foundations for classroom practice and a description of various contexts of learning, this course will give students an opportunity to design and implement various ESL/EFL and bilingual classroom techniques and to develop and practice ESL/EFL teaching skills in a variety of teaching situations. Prerequisite: TESL 371.

Theatre Arts

- General Major—** Theatre Arts 201, 202, 203, 212, 265, 266, 267, 310; two enrollments in Health, Physical Education, Recreation 34; English 312; one course from Theatre Arts 371, 373, 375, 377, 380; department approval of portfolio.
- General Minor—** Theatre Arts 201, 310; one course from 202 or 304; two courses from Education 262, Theatre Arts 212, 265, 266, 267, English 312; Health, Physical Education, Recreation 34.

For an ELEMENTARY field of specialization, see the "Teacher Education Program" section on pages 100-115.

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- 201 Introduction to Theatre (3)** Fall Even
This course will prepare students to study, participate in, and respond to the art of theatre. Students will study a Christian view of the theatre, learn script analysis and interpretation, and also acquire some basic theatrical skills.
- 202 Fundamentals of Acting (3)** Fall Odd
Experience with the fundamental principles of acting—victory, obstacle, tactic and expectation—as well as development of the skills of relaxation, concentration, physicalization and character analysis.
- 203 Essentials of Stage Scenery (3)** Fall Odd
An introduction to scenic design that includes design theory, design process, and the technical skills related to scenic design.
- 204 Introduction to Stage Movement (3)** Occasional
An introduction to stage performance skills that require a focus on the actor's body. Characterization and physical expressivity will be taught by means of training in mask. The course will also introduce stage violence, both armed and unarmed. Training will include regular relaxation and stretching exercises. Co-requisite: enrollment in Health, Physical Education, Recreation 34 unless excused by instructor.
- 212 Voice and Oral Interpretation (3)** Occasional
Students will use literary works of drama, poetry and prose to learn and practice principles of oral interpretation and voice production. The work of Cecily Berry will be used to equip voices for the demands of stage and public address. The theory of interpretation is holistic: an interpretation is best conveyed when the meaning of the text, the power of its language, the exercise of the imagination, and the proper use of the voice work together. The course expects much student participation in vocal work-outs and individual and group presentation of readings.
- 265 Theatre History and Literature, Greek through the Renaissance (3)** Occasional
History and representative literature of the theatre, from Sophocles to Shakespeare. An introduction to the rise, decline, and rebirth of Western drama as a reflection of the development of Western thought.
- 266 Theatre History and Literature, Neoclassicism through Realism (3)** Occasional
History and representative literature of the theatre, from Moliere to Ibsen, Strindberg, and Shaw. An examination of the neoclassical theatre, its eventual democratization, and its culmination in the well-made play and modern entertainment.
- 267 Theatre History and Literature, Anti-Realists through Postmodernists (3)** Occasional
History and representative literature of the theatre, from Kaiser to Pinter. A survey of various anti-realist, anti-positivist, anti-establishment theatres and dramas: impressionism, expressionism, existentialism, and various forms of post-modernism.
- 304 Repertory Theatre (3)** Spring Odd
A course in practical theatre designed to teach skills related to staging a variety of short (often original) works in a variety of settings. The class works as an ensemble to develop and stage a production. In

addition, but not as part of the course, some students may be invited by the college to tour during a week or two immediately following graduation. Repertory Theatre is open by audition only.

- 310 Directing (3)** Fall
A study of some of the problems that are part of the directing process, and of the techniques for shaping that process. Students will focus on staging techniques, and apply their learning in the direction of a short one-act play.
- 341- Special Topics (3)** Occasional
348 Each of these courses is designed to be a special-interest course utilizing individual instructor strengths and interests. Each topic will be concerned with material not usually treated to any great extent in regularly scheduled courses.
- 371 Applied Theatre-Directing (3)** Fall, Spring
The course content in directing will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by two or three enrollments, normally in two or three consecutive semesters. Open only to majors and minors.
- 373 Applied Theatre-Acting (3)** Fall, Spring
The course content in acting will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by two or three enrollments, normally in two or three consecutive semesters. Open only to majors and minors
- 375 Applied Theatre-Design (3)** Fall, Spring
The course content in design will be designed for each individual in consultation with a departmental supervisor. The course requirements will be met by two or three enrollments, normally in two or three consecutive semesters. Open only to majors and minors.
- 377 Applied Theatre-Technical Theatre (3)** Fall, Spring
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 two or three enrollments, normally in two or three consecutive semesters. Open only to majors and minors.
- 380 Playwright's Workshop (3)** Fall, Spring
This course provides basic instruction in writing plays. The course requirements will be met by two or three enrollments, normally in two or three consecutive semesters.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

Theology

General Major—

Core (common to both emphases)—Theology 201, 203, 204 (Theology 391-393 are recommended)

Students must select one of the following emphases:

General Theology: Core; Theology 101 and seven courses from Theology 211-214, 215-219, 301, 302, 306, 307, 311, 341-348, 393, History 315. Greek 201 or 202 may be substituted for a New Testament course.

Youth Ministry: Core; Theology 224, 321; two courses from Theology 211-214; two courses from Theology 215-219; Theatre Arts 201, Communication 220, Psychology 206, Education 215; one course from Health, Physical Education, Recreation 206 or Music 211; and at least two courses from Theology 371-373.

General Minor—

Mission and Evangelism: Theology 203, 301, and 302; two courses from Theology 306, 307, 311; one course to be decided in consultation with the theology department.

Bible Education: Theology 204, 224, 307 or 311; two courses from Theology 211-214; two courses from Theology 215-219.

For the description of the ELEMENTARY field of specialization and the SECONDARY minor see the "Teacher Education Program" section on pages 100-115.

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- 101 Perspectives in Biblical Theology (3)** Fall, Spring
A survey of 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)** Fall, Spring
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. Emphasis is placed on the historical context in which the confessions, particularly those of the Reformed churches, were made.
- 203 Foundations of Missions and Evangelism (3)** Fall Odd
A study of the biblical basis for missions and evangelism with a view to developing a theology of mission and relating this to contemporary problems of missions today.
- 204 Calvin's Institutes (3)** Fall
A study and discussion of the mature thought of John Calvin as found in the 1559 edition of his *Institutes of the Christian Religion*.
- 211- Old Testament (3)** Fall
214 These courses are in-depth studies of crucial themes, books, literary genres, historical periods, and hermeneutical issues of the Old Testament in terms of an historical-redemptive approach to the Old Testament canon. Specific topics and content will be specified at the time of registration.
- 215- New Testament (3)** Spring
219 These courses are in-depth studies of crucial themes, books, literary genres, historical periods, and hermeneutical issues of the New Testament in terms of an historical-redemptive approach to the New Testament canon. Specific topics and content will be specified at the time of registration.
- 224 Teaching Bible to Adolescents (3)** Fall Even
Discussion of a Reformed approach to the teaching of Bible. This course includes the study of the nature of faith, adolescent faith development, Reformed hermeneutics, pedagogical skills for teaching the Scriptures, and methods and content of the secondary (7-12) Bible curriculum. The course will cover theological and pedagogical foundations and the practical content of teaching Bible. Prerequisite: open to upperclassmen. [Cross-listed: Education 224]

- 301 History of Missions and Evangelism (3)** Spring Odd
A study of the historical development of missions in the church with a view to understanding the complexity of missions in our times. Consideration will be given to different ecclesiastical traditions and historical paradigms the church has employed in its missionary endeavors. Prerequisite: Theology 203.
- 302 Current Issues and Strategies in Missions and Evangelism (3)** Spring Even
An in-depth study of selected contemporary issues that the church faces in understanding and carrying out her mission in the 20th century. A selection of current issues will be made according to student need and interest. Selection will be made from such topics as contextualization; gospel and Western culture; urban missions; relation of verbal proclamation to social involvement; foundation for missions; unreached resistant and nominally Christian peoples; and tentmaking. Prerequisite: Theology 203.
- 306 Liberation Theologies (3)** Fall Even
A study of different liberation theologies in Latin America, Africa, and Asia. Special attention will be given to the cultural context, confessional nature, and practical implications of these recent and influential Third World theological movements. Prerequisites: Theology 101 and Philosophy 201.
- 307 Major World Religions (3)** Spring Even
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.
- 311 Heresies and Sects (3)** Spring Odd
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.
- 321 Foundations of Youth Ministry (3)** Fall Odd
Discussion of a Reformed approach to youth ministry. This course includes the study of the nature of faith, adolescent faith development, youth ministry in the congregational context, the character of adolescence in the late 20th century North American context, relational, pedagogical and spiritual dynamics of youth ministry, creative program development.
- 341- Special Topics (3)** Occasional
348 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.
- 371- Practicum in Youth Ministry (3-9)** Fall, Spring
373 Students will engage in field experience in a youth-ministry-related area under the guidance of both a site and a departmental supervisor. The experience will sample the types of activities included within the parameters of youth ministry. Three hours of course credit will be based on 126 hours of involvement, which includes biweekly meetings with each supervisor (separately). This course requires instructor permission PRIOR to pre-registration. Deadlines: April 15 for the fall semester, November 15 for the spring semester.
- 391- Individual Studies (1-3)** Fall, Spring, Summer
393 See "Individual Studies" section of "Academic Offerings."

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Associate Adjunct

Pamala S. De Jong
Shirley Folkerts
Suzanna C. Kok
Kae Van Engen

Assistant Adjunct

Lavonne J. Boer
Abraham H. Bos*
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Dennis De Waard - 1st semester
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Joanne Draayer
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Diana B. Cherry, flute
Pamela R. De Haan, saxophone and voice
Charles Dibley, double bass, tuba
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Calin Muresan, cello
Vance Shoemaker, low brass
Raymond Sidoti, violin
Sue Sidoti, viola
Loretta M. Thomas, bassoon and clarinet
John A. Thomson, violin
Dorenda Van Gaalen, student teaching supervisor
Debora B. Vogel, voice
Mary Lou Wielenga, organ and piano

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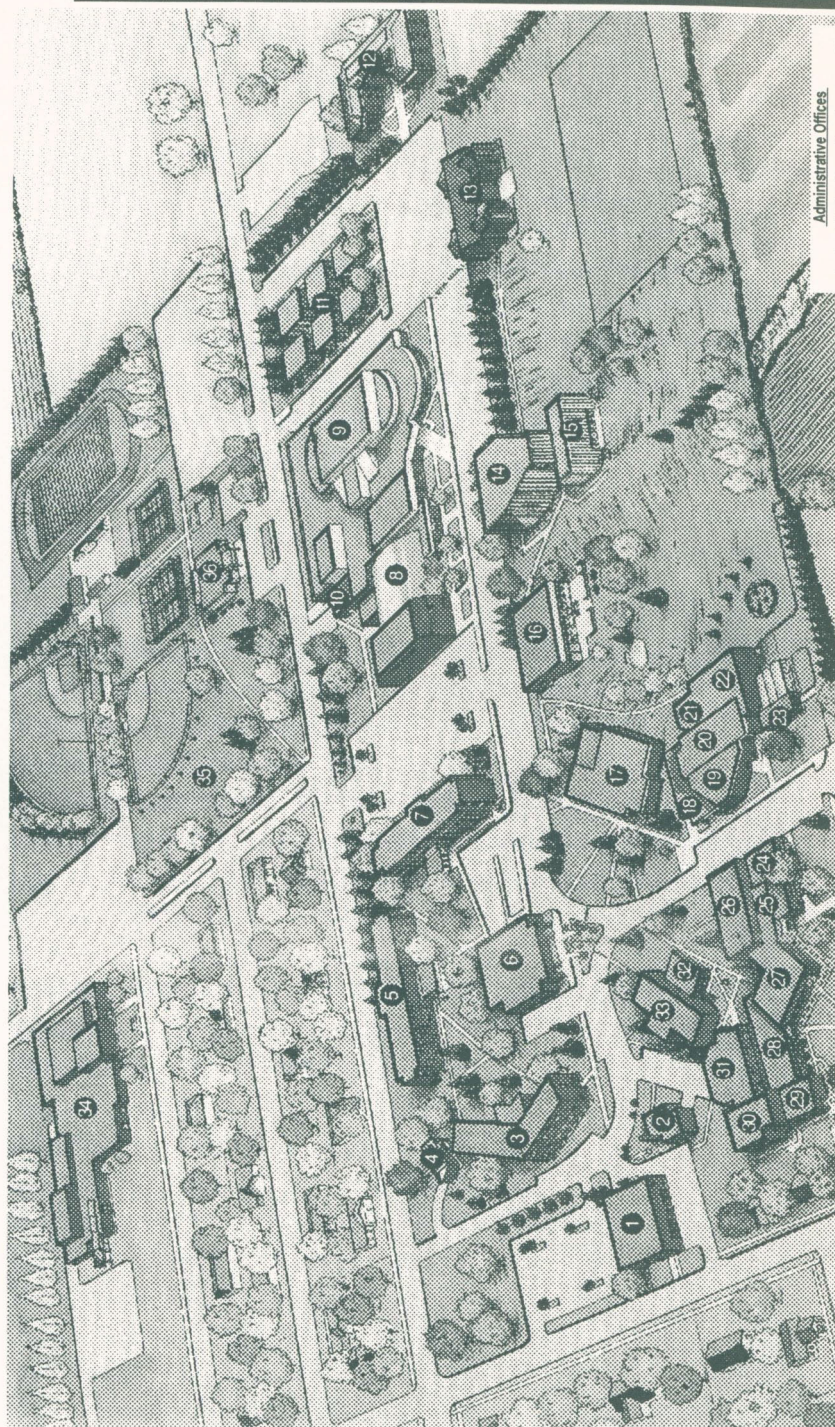
All correspondence may be addressed to Dordt College, 498 Fourth Ave., N.E., Sioux Center, Iowa 51250-1697. Telephone: 712-722-6000

For specific information contact:

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498 Fourth Avenue NE

Sioux Center, Iowa 51250-1697

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Printed in the USA