

# COLLEGE OF ARTS & SCIENCES

**2015-2016 Catalog**



**BETHEL**  
UNIVERSITY

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# COLLEGE OF ARTS & SCIENCES

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The College of Arts and Sciences is Bethel's undergraduate college for recent high school graduates and transfer students.

This catalog is part two of a four-part series. Part one, the application packet, introduces prospective students to life at Bethel, while this catalog relates to the academic programs. Part three, the student handbook, outlines university procedures and expectations of students. Part four, the interim catalog, is issued in October with course descriptions for the January term.

Every student is to be familiar with and will be held responsible for conforming to the expectations contained in "A Covenant for Life Together at Bethel" (see page 8), academic regulations, and campus procedures as stated in these four publications, as well as information published in the Bethel E-Announcements, which are distributed electronically three times per week during the academic year.

It is the official policy and commitment of Bethel University not to discriminate on the basis of race, color, national or ethnic origin, age, gender, or disability in its educational programs, admissions, or employment practices. The president of Bethel University has designated the director of human resources as the compliance officer for the institution. Inquiries regarding compliance may be directed to:

The Compliance Officer, Bethel University  
3900 Bethel Drive  
St. Paul, MN 55112  
Phone: 651.638.6119

Bethel University adheres to the provisions of the federal Family Educational Rights and Privacy Act of 1974. For a copy of Bethel policy, contact the Office of the Registrar.

## Accreditation And Membership

Bethel University is accredited by The Higher Learning Commission and is a member of the North Central Association of Colleges and Schools (<https://www.ncahlc.org>; phone: 312.263.0456). Bethel is also accredited by the Teacher Education Accreditation Council, the Council on Social Work Education (at the undergraduate level); the Commission on Accreditation of Athletic Training Education Programs (CAATE) (at the undergraduate level for the Athletic Training Education Program); and The Commission on Collegiate Nursing Education (at the undergraduate and master's levels):

One Dupont Circle NW Suite 530  
Washington, D.C. 20036-1120  
Phone: 202.887.6791

Undergraduate teacher preparation programs leading to licensure for pre-kindergarten, kindergarten, elementary, and secondary teaching, as well as graduate programs leading to licensure in special education and middle school teaching, are approved by the Minnesota Board of Teaching. The nursing program is approved by the Minnesota Board of Nursing. The Department of Chemistry is approved by the American Chemical Society, and programs in the department are certified.

The academic program at Bethel University is enriched by its membership and participation in programs of the Christian College Consortium, the Council for Christian Colleges and Universities, the Upper Midwest Association for Intercultural Education, the Jerusalem University College, and the Au Sable Institute of Environmental Studies.

Bethel University is registered as a private institution with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

Information in this catalog is descriptive only and not contractual. All listed courses and programs are current at the time of printing, but are subject to change without notice based on enrollment, faculty availability, and other considerations. Bethel reserves the right to withdraw a course or program or to limit its enrollment.

While Bethel publishes program information and materials and assigns advisors, the student is ultimately responsible to assure that he or she has fulfilled all graduation requirements. Bethel reserves the right to withdraw a previously awarded degree if it subsequently determines that the student did not complete degree requirements.

# ACADEMIC CALENDAR

## Fall Semester 2015

Residence halls open (new students)	August 27
Residence halls open, 9 a.m. (returning students)	August 28
Classes begin	August 31
Labor Day (no classes)	September 7
Last day to add/drop a first-half or full-term course	September 8
Last day to withdraw from a first-half course	October 9
Homecoming	October 9-11
Fall break	October 23
Last day to add/drop a second-half course	October 28
Advising Day (no day classes; night classes are held)	October 28
Family Weekend	November 6-8
Registration for Interim and Spring	November 10, 12, 16, 18
Last day to withdraw from a full-term course	November 20
Thanksgiving break begins	November 25
Classes resume	November 30
Festival of Christmas	December 3-5
Last day to withdraw from a second-half course	December 4
Last day of classes	December 11
Final examinations	December 14, 15, 17, 18
Study day	December 16
Commencement	December 18
Residence halls close, noon	December 19

## Interim 2016

Residence halls open, noon	January 4
Classes begin	January 5
Last day to add a course	January 6
Last day to drop a course	January 6

## Final Examinations

At the close of the fall and spring semesters, one week is provided for final examinations. Two hours are allowed for each examination. The examination schedule is prepared by the registrar and published at the time of registration. Students are required to take examinations at the indicated time. Exceptions necessitated by conflicts with an established work schedule, severe personal hardships, or academic hardship (in the form of having three examinations on one day) must be approved by the faculty member. Faculty approval must be obtained at least two weeks prior to the date of the exam in cases where the hardship is known in advance. Exams will not be rescheduled merely for the economy and/or convenience of the student.

Final examinations are usually given in interim and summer school courses, but no special days are specifically set aside for this purpose.

Martin Luther King Jr. Day (no classes)	January 18
Last day to withdraw from a course	January 21
Last day of classes	January 27

## Spring Semester 2016

Classes begin	February 1
Last day to add/drop a first-half or full-term course	February 8
Last day to withdraw from a first-half course	March 11
Residence halls close, noon	March 12
Spring Break	March 14-18
Residence halls open, noon	March 20
Spring break ends/Classes resume	March 21
Good Friday (no classes)	March 25
Monday after Easter (no classes)	March 28
Last day to add/drop a second-half course	April 5
Registration for Summer and Fall classes	April 12, 14, 18, 20
Last day to withdraw from a full-term course	April 22
Last day to withdraw from a second-half course	May 6
Last day of classes	May 13
Final examinations	May 16, 17, 19, 20
Study day	May 18
Baccalaureate	May 20
Commencement	May 21
Residence halls close for returning students, noon	May 21
Residence halls close for graduating seniors, 5 p.m.	May 22

## Summer School 2016

Term A start date (Term end dates vary by course)	May 31
Term B start date (Term end dates vary by course)	June 22

## **Interim**

Interim courses take place during three weeks in January and sometimes differ from those taught in the fall and spring semesters. Some are offered at on-site locations away from the campus. Most interim courses are listed in this catalog. Description of interim courses not listed are provided as part of the interim and spring schedule. Students are strongly encouraged to take an interim course each of their first three years, so as to retain maximum flexibility for completing all requirements in the senior year. See General Education Entry/Transfer level in this section of the catalog for the number of interims required.

## **Summer School**

Bethel conducts two summer school sessions. The first summer term starts shortly after spring commencement. The second summer term starts mid-June. The end dates vary by course. A summer school bulletin is issued by the Office of Academic Affairs each spring.

# BETHEL UNIVERSITY SCHOOLS

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## Bethel University

Bethel University is a leader in Christ-centered higher education with approximately 6,300 students from 48 states and 32 countries enrolled in undergraduate, graduate, seminary, and adult education programs. Based in St. Paul, Minnesota, with an additional seminary location in San Diego, California, and a satellite location in Bloomington, Minnesota, Bethel offers bachelor's and advanced degrees in nearly 100 fields. Educationally excellent classroom-based and online programs equip graduates to make exceptional contributions in life-long service to God and the world.

### College of Arts & Sciences

The College of Arts & Sciences (CAS) is Bethel's undergraduate college for nearly 3,000 recent high school graduates and transfer students. We take a whole-person approach to education—encouraging each person to achieve academic goals, grow deeper in faith, and engage in a lively community, all with Christ at the center. Distinctives include more than 80 majors in inviting fields—such as the arts, humanities, business, natural sciences, and social sciences—small class sizes, and a robust study abroad program. Highly credentialed faculty is dedicated to teaching, integration of faith and learning, and the translation of Christian belief into global service. The college consistently ranks among top Midwestern Universities in the “America's Best Colleges” issue of *U.S. News & World Report*, and is listed in “Top Colleges for Top Students” in Peterson's Competitive Colleges.

## Bethel Seminary

Founded in 1871, Bethel Seminary is among the 15th largest accredited seminaries in the U.S. with approximately 1,100 students from more than 70 denominations enrolled on campuses in St. Paul and San Diego and through the distance learning program, a blend of online and face-to-face coursework. Offering a doctor of ministry degree (with six concentrations), nine master's degrees, and six certificates, its programs focus on many aspects of ministry preparation, including leadership, marriage and family therapy, and ministry practice. Bethel Seminary is orthodox and evangelical, with roots in pietism and characterized by an irenic spirit. Our passion is to prepare men and women to lead with excellence who will advance the gospel of Jesus Christ among all people in culturally sensitive ways.

### College of Adult & Professional Studies

For more than 25 years, the College of Adult & Professional Studies (CAPS) has helped adults beginning or returning to school to earn their bachelor's or associate's degree. Bethel's academic programs are accessible and supportive for busy students and grounded in ethics and personal development. We offer six associate and bachelor's degree-completion programs taught from a Christian worldview in the areas of business and leadership, communication, healthcare and human services, and Christian ministries, along with a General Studies program. More than 900 students are enrolled in convenient locations in the Twin Cities or online.

## Graduate School

The Graduate School provides rigorous graduate education in a supportive Christian environment. Our 1,500+ adult students come from many backgrounds, experience levels, and career fields with the common goal of developing as whole professionals. Specialties include relevant degree programs in business and leadership, health and human services, and education. The school offers 13 graduate programs, including master's programs, a doctoral program in educational leadership with two majors, and numerous certificates and licensures. Courses are taught by experienced full-time faculty or working professionals, whose recent experience focuses on principles that students can apply directly to their careers. Students are enrolled in several locations in the Twin Cities, with class schedules convenient for working adults.



# BETHEL UNIVERSITY COMMITMENTS

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## Mission

Boldly informed and motivated by the Christian faith, Bethel University educates and energizes men and women for excellence in leadership, scholarship, and service. We prepare graduates to serve in strategic capacities to renew minds, live out biblical truth, transform culture, and advance the gospel.

### Vision

Bethel will be the Christ-centered university of choice for this century.

### Values

We are **Christ-followers** - orthodox, conversionist, and evangelical; rooted in the authority of Scripture.

We are **character-builders** - concerned with personal and spiritual formation and therefore committed to the development of whole and holy persons.

We are **truth-seekers** - recognizing that all truth has its source in God as revealed in creation and Scripture, and personified in Christ.

We are **learners** - committed to academic excellence within a community characterized by teaching, scholarship, and service.

We are **reconcilers** - honoring the worth and dignity of people from all races and purposely seeking to create a community that reflects the diversity of the body of Christ.

We are **salt and light** - relating to the world and society in culturally relevant ways while being informed by our pietistic denominational heritage and characterized by an irenic spirit.

We are **world-changers** - driven to prepare graduates who will shape and change the world through exemplary leadership in the church and throughout society.

## Becoming Whole and Holy Persons: A Covenant for Life Together at Bethel

### Introduction

Bethel University is an educational community committed to integrating evangelical Christian faith with learning and life. As people created in the image of the covenant-making God, we covenant together to discover the mind of Christ and to become like Christ. We pursue this mission as people called by Jesus to live holy lives according to the values, expectations, and goals of the kingdom of God. A crucial part of our mission is to develop whole and holy persons who will go into the world to serve others.

To be whole and holy means to be dedicated to God with purity of thought and action. It means that we are to serve God using the gifts and abilities we have been given. Our community has a special calling to discover, teach, learn, and live what is true. We strive to understand the world in light of the life, death, and resurrection of Christ. This gives us a distinctive worldview, educational mission, and calling.

Our calling includes a commitment to nurture one another. We strive to elevate kingdom values over personal agendas. We attempt to measure every decision and priority in terms of our loving submission to the lordship of Christ and our commitment to one another. Christ's power within us and a clear sense of our calling give us a joyful freedom to do God's will.

Jesus taught us that right motives and loving relationships are at the core of whole and holy living. His two greatest commands are to love God with all of our hearts, souls, and minds and to love our neighbors as ourselves.<sup>1</sup> These commands connect serving God with serving others. In grace, Scripture also gives us specific rules to guide us in living. Jesus taught that keeping these rules is an expression of love for God.<sup>2</sup> The Bible condemns legalistic rule-keeping. It emphasizes loving relationships and pure motives in living out these rules.<sup>3</sup>

### Living a Biblical Lifestyle

The Bible frequently speaks about a holy lifestyle. Such passages are found throughout the Old and New Testaments.<sup>4</sup> *The Bible describes character qualities and actions that should be present in the lives of believers.* These include prayer, kindness, humility, compassion, forgiveness, hospitality, personal integrity, generosity to the poor, care for the oppressed, study of God's Word, accountability to one another, sharing our faith with others, recognition of the rights of others, commitment to justice, regular gathering for worship, and living in harmony.

*The Bible also identifies character qualities and actions that should not be present in the lives of believers.* For example: destructive anger, malice, rage, sexual immorality, impurity, adultery, evil desires, greed, idolatry, slander, profanity, lying, homosexual behavior, drunkenness, thievery, and dishonesty.<sup>5</sup>

### Special Expectations for the Bethel Community

Because of Bethel's commitment to Christ, our unique calling as an educational community, and our understanding of what it means to live in today's world, we want to state clearly some of Bethel's rules and expectations. These are based on:

- our understanding of the Bible and its authority for our faith and life;
- our desire to promote wellness and health in all areas: social, emotional, mental, physical, and spiritual;
- our theological and cultural heritage;
- our understanding of our mission and calling.

We recognize that not all devout Christians share these rules and expectations. However, certain issues are important for our educational mission and our life together at Bethel. They are designed to facilitate our growth, development, and learning as a community.

We view learning and the pursuit of truth as a special calling.

- We commit ourselves to integrity, excellence, consideration of different points of view, and collegiality in all of our academic work.
- We will not tolerate plagiarism and other forms of academic dishonesty.<sup>6</sup>

We believe that life is sacred and people have worth because they are created in God's image.<sup>7</sup>

- We will value human life in all its diversity and fullness, recognizing that women and men of all races, ages, and ability levels reflect the creative genius of our Maker.
- We view racism and sexism as sinful and reflective of some of the most harmful aspects of our culture. We will abstain from discrimination based on race, ethnicity, gender, age, and disability. We will also abstain from gossip, deliberate divisiveness, and malicious humor.

We believe that our relationships should reflect our connection in the body of Christ.<sup>8</sup>

- We affirm mutual respect and promise keeping in relationships among students, colleagues, teachers and learners, spouses, and friends.
- We grieve the hurt and destructiveness of broken relationships, especially those involving divorce and abuse. We will strive to be a community where healing occurs.

We believe our minds and bodies should be used in God-honoring ways.<sup>9</sup>

- We will promote the health of our bodies, minds, and emotions.
- We will abstain from illicit or nonmedical use of drugs, narcotics, and other substances.
- We will also abstain from use or possession of tobacco in any form.

We view sexuality as one of God's good gifts.<sup>10</sup>

- We believe that sexual intercourse and other forms of intensely interpersonal sexual activity are reserved for monogamous, heterosexual marriage. We recognize that sexual purity involves right motives as well as right behaviors.
- We prohibit the possession and use of pornographic material. In addition, we condemn sexually exploitive or abusive behavior and sexual harassment in any form.

We value the wise stewardship of resources.<sup>11</sup>

- We believe all human and natural resources are a trust from God. We value work; creative expression; and wise use of time, ability, and money. We believe in wise use of natural resources. We will use them to do God's work and to benefit God's creation.
- We prohibit gambling and vandalism. In addition, we reject materialism and harmful exploitation of natural resources.

We believe that maturity calls for us to exercise discretion in our behaviors.

- We believe that God is honored by careful thinking and joyful use of our creativity and imagination. While the media and the arts can be valuable forms of recreation, our commitment to learning calls us to think critically about them and to see them as empowering and liberating ways to understand truth and beauty.
- We believe that certain forms of leisure, entertainment, and recreation are not congruent with holy living. We will make choices that are consistent with our pursuit of holiness in activities such as theatre, dance, and music, or in the use of media and technology such as film, television, radio, and computers.

At times we will need to follow the biblical mandate to sacrifice our individual liberty for the good of the community.<sup>12</sup> When differences arise, we will choose the course that demands greater personal restraint and self-discipline. We will strive to resolve those differences in a gracious and just manner.

Conclusions about Community Life

Community life at Bethel should be marked by mutual encouragement, sensitivity, and consideration for others. This is particularly important when dealing with our differences. One of the special values of this community is the opportunity to learn from one another, including those within other Christian faith traditions. We celebrate our diversity as well as what we hold in common.

Within committed Christian communities there are diverse views regarding the use of alcohol. Some choose a testimony of abstinence for a variety of legitimate and honorable reasons while others believe they can use alcohol occasionally and moderately without harm to body, spirit, or relationships with others. As a community that honors Holy Spirit-led diversity among Christians, Bethel University employees and students in the Seminary, Graduate School, and College of Adult & Professional Studies are not prohibited from using alcohol in moderation when away from campus and not engaged in official Bethel University activities. Further, employees are expected not to drink alcohol in the presence of Bethel students. Because of the special community nature of the College of Arts & Sciences and the ages of the majority of its students, students in the College of Arts & Sciences will abstain from the use or possession of alcoholic beverages during the school year or while participating in any Bethel-sponsored activity.<sup>13</sup>

Living out the call to whole and holy living is challenging. No one does it perfectly. Community members who struggle to follow Bethel's lifestyle expectations and who would like help in living within them are encouraged to talk with appropriate Bethel personnel to seek help in changing.<sup>14</sup>

As a community we recognize that worship, fellowship, spiritual nurture, and Christian service are all essential to our growth in holiness. As members of the Bethel community we are expected to participate in these types of activities regularly. Chapel stands out among these opportunities because it is a unifying spiritual experience for our Christian community. All students, faculty members, and administrative leaders are expected to attend chapel regularly. Chapel is a learning experience that is enriched by the diversity of background and worship styles within the community.

As we join the Bethel community we accept these responsibilities and conditions of membership. We agree to live according to this document and other stated expectations as they are applied to us in the student and employee handbooks. If we find ourselves unable to honor these commitments, withdrawal may be in order. We recognize that we have an obligation to hold each other accountable to biblical standards and to the commitments we have made. Appropriate action will be taken to teach, influence, discipline, or even dismiss those who disregard these community expectations. We will strive to have all disciplinary procedures characterized by Christian love and a redemptive spirit.

As we celebrate this covenant calling to whole and holy living, we encourage and challenge each other with these three verses.<sup>15</sup>

*Let the peace of Christ rule in your hearts, to which indeed you were called in the one body. And be thankful. Let the word of Christ dwell in you richly; teach and admonish one another in all wisdom; and with gratitude in your hearts sing psalms, hymns, and spiritual songs to God. And whatever you do, in word or deed, do everything in the name of the Lord Jesus, giving thanks to God the Father through Him.*

Because of its crucial role in influencing the ethos of the school, this statement of expectations is subject to change only by action of the Board of Trustees. The board holds these standards to be binding for all who voluntarily choose to become a part of the Bethel community.

<sup>1</sup> Matthew 22:37–40

<sup>2</sup> John 14:15, 21

<sup>3</sup> Micah 6:8; Matthew 23:23–24

<sup>4</sup> Examples of such passages are: Exodus 20; Proverbs 6:16–19; Matthew 5–7; Galatians 5:13–25; Ephesians 4:22–5:21; Colossians 3:1–17

<sup>5</sup> Colossians 3:5–8; 1 Corinthians 6:9–10. Employees will not practice, advocate, or affirm these and other biblically proscribed behaviors.

<sup>6</sup> Exodus 20:15; Romans 13:9; 1 Corinthians 13:5–6; 1 Peter 1:22

<sup>7</sup> Genesis 1:27; Ephesians 4:1–7, 15–16; James 2:1–13

<sup>8</sup> Romans 12:3–21; 1 Corinthians 12:12–31; Ephesians 4

<sup>9</sup> Romans 12:1–2; 1 Corinthians 6:14–15; 1 Timothy 4:8

<sup>10</sup> Genesis 1:27–28, 2:24–25; Exodus 20:14; Song of Songs; Matthew 5:27–30; 1 Corinthians 6:15–20, 7:3–5

<sup>11</sup> Genesis 1:28–31

<sup>12</sup> Romans 14:1–23; 1 Corinthians 6:12, 10:23–24

<sup>13</sup> Ephesians 5:18

<sup>14</sup> See the *Bethel University Student Handbook* for information on Bethel's Non-Disciplinary Policy. College students may find the staff in the Office of Student Life, the Office of Campus Ministries, and the Counseling Center to be particularly helpful. Seminary students may find help in the Office of Student Life. In addition, many faculty are willing and able to assist. Employees may find help from peers, the Office of Human Resources, and administrative staff.

<sup>15</sup> Colossians 3:15–17

## An Affirmation of Our Faith

1. **The Word of God.** We believe that the Bible is the Word of God, fully inspired and without error in the original manuscripts, written under the inspiration of the Holy Spirit, and that it has supreme authority in all matters of faith and conduct.
2. **The Trinity.** We believe that there is one living and true God, eternally existing in three persons, that these are equal in every divine perfection, and that they execute distinct but harmonious offices in the work of creation, providence, and redemption.
3. **God the Father.** We believe in God, the Father, an infinite, personal spirit, perfect in holiness, wisdom, power, and love. We believe that He concerns Himself mercifully in the affairs of each person, that He hears and answers prayer, and that He saves from sin and death all who come to Him through Jesus Christ.
4. **Jesus Christ.** We believe in Jesus Christ, God's only begotten Son, conceived by the Holy Spirit. We believe in His virgin birth, sinless life, miracles, and teachings. We believe in His substitutionary atoning death, bodily resurrection, ascension into heaven, perpetual intercession for His people, and personal visible return to earth.
5. **The Holy Spirit.** We believe in the Holy Spirit who came forth from the Father and Son to convict the world of sin, righteousness, and judgment, and to regenerate, sanctify, and empower all who believe in Jesus Christ. We believe that the Holy Spirit indwells every believer in Christ, and that He is an abiding helper, teacher, and guide.
6. **Regeneration.** We believe that all people are sinners by nature and by choice and are, therefore, under condemnation. We believe that those who repent of their sins and trust in Jesus Christ as Savior are regenerated by the Holy Spirit.
7. **The Church.** We believe in the universal church, a living spiritual body of which Christ is the head and all regenerated persons are members. We believe in the local church, consisting of a company of believers in Jesus Christ, baptized on a credible profession of faith, and associated for worship, work, and fellowship. We believe that God has laid upon the members of the local church the primary task of giving the gospel of Jesus Christ to a lost world.
8. **Christian Conduct.** We believe that Christians should live for the glory of God and the well-being of others; that their conduct should be blameless before the world; that they should be faithful stewards of their possessions; and that they should seek to realize for themselves and others the full stature of maturity in Christ.
9. **The Ordinances.** We believe that the Lord Jesus Christ has committed two ordinances to the local church: baptism and the Lord's Supper. We believe that Christian baptism is the immersion of a believer in water into the name of the triune God. We believe that the Lord's Supper was instituted by Christ for commemoration of His death. We believe that these two ordinances should be observed and administered until the return of the Lord Jesus Christ.
10. **Religious Liberty.** We believe that every human being has direct relations with God, and is responsible to God alone in all matters of faith; that each church is independent and must be free from interference by any ecclesiastical or political authority; that therefore church and State must be kept separate as having different functions, each fulfilling its duties free from dictation or patronage of the other.
11. **Church Cooperation.** We believe that local churches can best promote the cause of Jesus Christ by cooperating with one another in a denominational organization. Such an organization, whether a regional or district conference, exists and functions by the will of the churches. Cooperation in a conference is voluntary and may be terminated at any time. Churches may likewise cooperate with interdenominational fellowships on a voluntary, independent basis.
12. **The Last Things.** We believe in the personal and visible return of the Lord Jesus Christ to earth and the establishment of His kingdom. We believe in the resurrection of the body, the final judgment, the eternal felicity of the righteous, and the endless suffering of the wicked.

# COLLEGE OF ARTS & SCIENCES PHILOSOPHY OF HIGHER EDUCATION

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The College of Arts & Sciences at Bethel University is a Christian learning community committed to pursue and practice what is true; to excel in its educational programs; to collaborate as partners in learning; to integrate Christian faith into every area of life; and to nurture every person toward Christian maturity in scholarship, leadership, and service.

As a Christian learning community, we honor God by the way we work together at our calling. We rejoice in discovering the character and glory of our Creator as we explore His creation. As people who bear God's image, we pursue the truth of His revelation. That revelation comes to us in the person of Christ, the wonder and beauty of creation, and the Spirit-directed words of the Bible. But it is not enough to know truth. We are called to live with hope, faith, love, mercy, humility, and justice, which put truth into practice. We believe that Christian faith is relevant to every area of life, the integrative principle for the entire curriculum, and a foundational area of study for all learners.

Our commitment to learning is rooted in a liberal arts approach to gaining skill and knowledge. This leads us to pursue breadth and depth of insight, education in and beyond the classroom, and opportunities on and beyond the campus. In bearing His image, in pursuing and living the truth, we strive for excellence because God's name and character are excellent.

The nature of community reminds us that we are not alone. We are likely to achieve more together than we could in isolation. We acknowledge only one true Master, and as we strive together to bring all of life under His lordship, we respect each other as partners and friends in learning. Thus, learning becomes an act of worship, and community worship becomes part of learning. As members of this community, we join to spur each other on toward Christian maturity.

# ACADEMIC INFORMATION

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## Curricular Philosophy and Goals

Bethel's curriculum is designed to help students develop the skills and insights to live successfully and to serve Christ effectively in the world that awaits them after graduation. The curriculum has been designed in response to two guiding questions: What will the world be like in the near future? and What personal capacities and knowledge will Bethel graduates need to cope in this world? The resulting graduation requirements are not a random sampling of academic fields. Instead, they are focused around themes that form a coherent view of the future, with each course designed to help students develop specific skills applicable to many situations in that future. The combined offerings of Bethel's General Education program and departmental and interdisciplinary majors and minors provide exceptional Christian higher education.

### Preparing Today's Christians for Tomorrow's World

The College of Arts & Sciences faculty of Bethel University recently undertook an extensive study and review of the General Education curriculum that had guided students' academic work since 1985. Faculty affirmed the core goals and vision established by the 1985 curriculum while considering changes appropriate for students of the 21st century. Careful study and extensive discussion led to the new General Education program presented in this catalog.

### Movement Toward an Interconnected World

With advances in transportation and communication, our world is becoming smaller. The United States is becoming more diverse in culture, language, and even religion. The church is also changing, with the addition of hundreds of thousands of new Christians worldwide. Today the majority of Christians live outside of North America and Europe. American Christians cannot live in isolation from the people of other cultures. Careers in missions, business, and government demand the ability to think and to work cross-culturally. Students need courses in world citizenship, including the option of living for a time in another culture or subculture. There they can develop the cross-cultural communication skills and the special understanding needed to interact as Christians with all types of people in God's world.

### Living in a High-Tech Society

Science and technology have changed and will continue to change the ways in which we understand and participate in society and culture at large. Because we have moved from a manufacturing society to a service and information society, Christian leaders in all fields need to develop competencies in the sciences and technology. Bethel's curriculum emphasizes an understanding of these domains of knowledge and their implications for life in contemporary society.

### Increased Need for Skilled Communication

The impersonal nature of new technologies and the increasing alienation in contemporary society underscore the need for the development of skills in interpersonal relationships. More than ever before, students need to understand themselves and be able to relate in meaningful and productive ways to groups and other individuals. Courses throughout the curriculum, but especially at the freshman and senior levels, address these concerns.

### Increased Influence of Western Culture

As the values of Western culture grow to influence much of the world, it is important for Christians to understand the Western tradition. Many of the questions about the nature of the good life, the nature of community, and the ways in which we should relate to God that are now being answered by people all over the world have also been powerfully addressed by men and women in Europe and America. Bethel offers a sequence of courses examining and evaluating the history and the character of the Western tradition as well as the ways in which Christians have interacted with Western culture.

### Continued Need for Biblical Perspective

The past, present, and future all demand that Christians be well grounded in the basics of Scripture and in the historic beliefs of the Christian faith. Courses in every discipline turn to biblical perspectives for insight. Courses in biblical and theological studies emphasize themes that unify the Bible as well as solid methods of interpretation that help prepare students to continue to study the Bible profitably and to teach others accurately.

### Increased Need for Skilled Persons

No preparation for tomorrow's world can be complete without the development of certain fundamental personal capacities and skills needed by every professional person, no matter what his or her career:

- Computing
- Integrating
- Living healthfully
- Reasoning
- Creating

- Investigating
- Managing self with others
- Speaking
- Empathizing
- Learning to learn
- Writing
- Information processing
- Living from values
- Quantifying

Some of these skills are addressed in a single requirement; instructors include several of them as the explicit goals of every General Education course. A few skills, such as speaking and writing, receive special attention over a sequence of three or four courses. Because these skill areas are in demand by prospective employers—not only for entry-level positions, but also for leadership and upward mobility throughout one’s entire career—and because these are also the traditional results of a broad education in the liberal arts, Bethel’s curriculum provides opportunity for their repeated practice.

#### Increased Need for Integration

Bethel’s ultimate goal is to produce mature Christians who can influence the peoples of the world as servants of Jesus Christ. The world is changing, and Christians need to live and serve effectively in that world. Every part of Bethel—academic, social, spiritual—focuses on this goal. In a special capstone General Education course, Contemporary Christian Issues, seniors from many major fields join in addressing a single issue of crucial importance to the world. They seek to integrate what they have learned, formulate their own Christian views, and take an informed position on an important issue.

## Academic Appeals

### Appeals of Grades and Other Academic Policies for a Course, Major, or Minor

Appeals related to grades, status in programs, decisions of the registrar in applying academic policies to a course, or to requirements for a major or a minor should be made as soon as possible following the decision in question. The student will seek to resolve the matter first with the instructor or with the party directly responsible for the decision, and then with the department chair. (If the instructor is the department chair, the student should contact the appropriate divisional dean.) If after talking with the instructor and the department chair the matter is not resolved, the student may appeal in writing to the appropriate divisional dean. This written appeal must be received within three weeks of the decision.

### Appeals of General Education Requirements, Graduation, and Other Policies

Appeals related to transfer of a course to fulfill a general education requirement should be made to the general education committee member responsible for the course or category in question. If the matter is not resolved, an appeal may be made to the vice president and dean within three weeks of the decision. A list of the general education committee members can be obtained in the Office of the Registrar or the Office of Academic Affairs.

Appeals related to general education and other graduation requirements and decisions of the registrar in applying policies that are not related to a particular course or to a major or a minor should be made in writing to the vice president and dean as soon as possible.

### Course Content Concerns

Concerns about course content and procedures should be addressed first to the instructor and then to the department chair. If after talking with the instructor and the department chair, the issue has not been resolved, the student should contact the appropriate divisional dean.

## Academic Honesty

Since Bethel University is a Christian academic community, its fundamental purpose is the pursuit of knowledge and the development of growing Christian persons. Essential to the success of this educational mission is a commitment to principles of ethical academic integrity. Every member of the university community is responsible for upholding the highest standards of honesty at all times. Students, as members of this community, are also responsible for adhering to the principles and spirit of academic honesty. Violation of honesty standards can result in denial of credit (*U* or *F*) in a course, as well as dismissal from the university. Penalties are given at the discretion of the faculty member, and offenders may be referred to the vice president and dean. Students charged with a violation have the right to appeal any disciplinary action. The appeals process is as follows:

1. As soon as possible following the disciplinary action in question, the student will seek to resolve the matter first with the instructor or with the party directly responsible for the decision, and then with the department chair. (If the instructor is the department chair, the student should contact the appropriate divisional dean.)
2. If after talking with the instructor and the department chair, the matter is not resolved, the student may appeal in writing to the vice president and dean. This written appeal must be received within three weeks of the decision or incident in question.



## Academic Dishonesty Definitions

Activities that have the effect or intention of interfering with education, pursuit of knowledge, or fair evaluation of a student's performance are prohibited. Examples of such activities include, but are not limited to, the following definitions:

1. *Cheating*: Using or attempting to use unauthorized assistance, material, or study aids in examinations or other academic work, or preventing or attempting to prevent another from using authorized assistance, material, or study aids. Examples: using a cheat sheet in a quiz or exam; altering a graded exam and resubmitting it for a better grade; etc.
2. *Plagiarism*: Using the ideas, data, or language of another without specific and proper acknowledgment. Examples: misrepresenting another's work (paper, lab report, article, or computer work) as one's own original creation and submitting it for an assignment; using someone else's ideas without attribution; failing to cite a reference or to use quotation marks where appropriate; etc.
3. *Fabrication*: Submitting contrived or altered information in any academic exercise. Examples: making up data for an experiment; fudging data; citing nonexistent or irrelevant articles; etc.
4. *Multiple submission*: Submitting, without prior permission, any work submitted to fulfill another academic requirement. Example: submitting the same paper for two different classes; etc.
5. *Misrepresentation of academic records*: Misrepresenting or tampering with or attempting to tamper with any portion of a student's transcripts or academic record, either before or after coming to Bethel University. Examples: forging a registration form or a change of grade slip; tampering with computer records; etc.
6. *Facilitating academic dishonesty*: Knowingly helping or attempting to help another violate any provision of this code. Example: working together on a take-home exam or other individual assignment; etc.
7. *Unfair advantage*: Attempting to gain unauthorized advantage over fellow students in an academic exercise. Examples: gaining or providing unauthorized access to examination materials (either past or present); obstructing or interfering with another student's efforts in an academic exercise; lying about a need for an extension for an exam or paper; continuing to write even when time is up during an exam; destroying, hiding, removing, or keeping library materials; etc.
8. *Computer crimes*: Damaging or modifying computer programs without permission. Examples: software piracy; hacking; constructing viruses; knowingly introducing viruses into a system; copying programs and data belonging to others; etc.

## Academic Progress

### Grade Point Average

The grade point average (GPA) is determined by dividing the number of grade points by the number of credits the student has attempted. Courses with the following grades are not included in the GPA calculation: AU, I, IN, S, U, W, WZ.

The GPA is calculated only on the basis of credits attempted at Bethel. In order to receive a degree, a student must have earned at least a 2.00 cumulative overall GPA and the required GPA in the major. Most departments require a 2.25 GPA in the major, but some departments require a higher GPA. See requirements for majors in this catalog.

When a student who has not yet received a degree from Bethel University's College of Arts & Sciences repeats a course, both grades for the course will remain on the transcript if the original and the repeated course were both taken at Bethel. The most recent grade will replace the previous course grade in the student's GPA. If the repeated course was taken at a different institution, the Bethel course will be excluded from the student's GPA but remain on the student's transcript. Transfer credit is not figured into a student's GPA.

### Academic Progress, Probation, and Dismissal

Academic standing is calculated at the end of fall and spring terms. Students and advisors are notified by the Office of the Registrar if they are placed on Academic Alert, Academic Warning, Academic Probation, and Academic Dismissal.

1. *Good Academic Standing*: Students who are not on academic probation or academic dismissal are considered to be in good academic standing.
2. *Academic Alert*: Students receive an academic alert whenever their term GPA is below 2.00.
3. *Academic Warning*: Students whose cumulative GPA falls below 2.00 for the first time receive an academic warning for one term. After receiving an academic warning, students receive a warning for one additional term if their cumulative GPA remains below 2.00, but their term GPA is 2.25 or higher.

Note: Students whose cumulative GPA is below 2.00 and whose term GPA is 1.50 to 2.25 move to academic probation. Students whose cumulative GPA is below 2.00 and whose term GPA is below 1.50 are subject to academic dismissal.

4. *Academic Probation*: Students whose cumulative GPA is below 2.00 and who do not meet the requirements for an academic warning are placed on academic probation. After being placed on academic probation, students whose cumulative GPA is below 2.00 and whose term GPA is 2.25 or higher move to academic warning. Students remain on academic probation for one additional term if their cumulative GPA is below 2.00 and their term GPA is 1.75 to 2.24. Students can remain on probation for a maximum of two consecutive terms. At that point students must progress to good academic standing or move to academic dismissal. Students who have a term GPA below 1.75 while on academic probation are placed on academic dismissal.
5. *Academic Dismissal*: The following students may be subject to academic dismissal:
  - a. regularly admitted students whose cumulative GPA is below 2.00 at the end of their second semester;



- b. provisionally admitted students whose cumulative GPA is below 1.00 at the end of their first semester;
- c. all other students whose cumulative GPA is below 2.00 for two consecutive semesters; and
- d. students who do not meet the stipulations set by the registrar at the time of being placed on academic probation. Patterns of poor performance not listed in items (a)-(d) above may also lead to academic dismissal.

Academic dismissal of any student is the decision of the Bethel University registrar. Academic warning and academic probation may not always immediately precede academic dismissal. Academic dismissal appears on transcripts of all students who are academically dismissed.

6. *Appeal of Academic Dismissal:* Students who have been dismissed may appeal to the Academic Appeals Committee. Instructions for the appeals process are provided by the registrar when students are notified that they have been dismissed.

## Calendar and Student Load

Bethel operates on an early semester calendar with two 15-week semesters and a three-week interim in January. Bethel offers two summer sessions.

Student load for fall and spring semesters is 12 to 18 credits for full-time students and fewer than 12 credits for part-time students. To enroll for more than 18 credits, a student must have a GPA of at least 3.25 in each of the two preceding semesters, show in a petition the reason(s) for the overload, and receive the approval of the advisor and the Office of the Registrar.

Student load for interim is 3 to 5 credits. Most students take 3 credits. No overloads are permitted during interim.

Student load for summer may not exceed 12 credits.

Under the Code of Federal Regulations [8 C.F.R. § 214.2 (f)(6)(i)(G)], for F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken online or through distance education and does not require the student's physical attendance for classes, examination, or other purposes integral to completion of the class. An online or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no online or distance education classes may be considered to count toward a student's full course of study requirement.

## Classification of Students

The official classification of students (class standing) for each academic year is made at the beginning of the fall semester on the basis of a student's having completed credits according to the following schedule:

Freshman	fewer than 30 credits
Sophomore	at least 30 credits
Junior	at least 60 credits
Senior	at least 90 credits

## Course Policies

### Grading

The scale below is used to define letter grades as well as the grade points assigned. The scores or points required in a course to earn a particular letter grade are determined by the instructor. All grades are considered final and are not subject to change except for errors in calculation, or as a result of a formal grade appeal process (see the Academic Appeals section of this catalog):

Grade	Definition	Grade Points
A	Exceptional	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Minimally Acceptable	1.0
F		0.0
I	Incomplete (courses with letter grades)	
IN	Incomplete (courses graded S/U)	

S	Satisfactory
U	Unsatisfactory
W	Withdrawal
WZ	Withdrawal from an audited course
AU	Audit

### Adding, Dropping, or Withdrawing from a Course

Students may add or drop a course up through the add/drop date published for the term without consent from the Office of the Registrar. When a student drops a course by the drop date, there will be no grade or other indication on transcripts that a student was enrolled in the course. Course drops are official on the date that written notice is received by the Office of the Registrar or when a student drops the course electronically.

The grade W is given to a student who officially drops a course after the add/drop day of the term. No course drops are accepted after the 12th week of the term in fall or spring.

### Auditing a Course

Students wishing to audit a course must secure the consent of the instructor. A student may change to or from audit status with the instructor's approval only during the first five weeks of the semester. Auditing at Bethel is defined as observation in the classroom setting. Auditors are required to meet the attendance requirements set by the instructor. Participation beyond attendance in class activities is at the instructor's discretion. The grade *AU* is given when a student audits the course. Students who do not meet the attendance requirements will be graded *WZ*.

### Class Attendance

Students are accountable for all required work in each of their courses. They must assume full responsibility for class attendance in a way satisfactory to the instructor and for work missed because of absence. Since class sessions function not merely for individual learning but also for group interaction, absences can become a serious problem for both the individual and for the group.

Any student with no documented academic activity in a course (according to the course requirements) by the semester's drop date may be dropped from the course.

### Incompletes

If a student has been regular in class attendance and submission of assignments, but is unable to complete requirements for a course in the regular time due to causes that are beyond the student's control, the student may petition to receive a grade of Incomplete. A petition for a grade of Incomplete is only considered after the last day to withdraw. All remaining work must be of a kind that can be done largely through the independent efforts of the student. The student must submit the Petition for Incomplete form to the course instructor for approval. If approved, the instructor indicates on the petition the work that must be completed and also the grade to be assigned if the work is not completed by the deadline set by the instructor. This deadline can be no later than eight weeks after the start of the next full semester (fall or spring). For courses with letter grades, the instructor submits a grade of *I*. For courses graded on an *S/U* basis, the instructor submits a grade of *IN*. Both the student and the instructor sign and keep a copy of the petition. If the student completes all requirements specified on the petition before the deadline, the newly earned grade replaces the grade of *I* or *IN*. Otherwise, the grade on the petition replaces the grade of *I* or *IN*. (See the Office of the Registrar for petition forms.)

### S/U Grading

The *S/U* grading option is used in student teaching and internships as well as music performance organizations and private lessons taken without credit. Other courses are graded on an *A-F* basis unless the *S/U* option is indicated in this catalog. The *S* grade indicates at least *D* level achievement.

### Prerequisites

Many courses have prerequisites in order to ensure that students have the appropriate academic preparation and experience for the course. Course prerequisites are listed with each course description. In some instances, the prerequisite may be waived by consent of the instructor.

## General Education

The primary goal of the General Education curriculum is to integrate the Christian faith with all areas of learning and to serve as a foundational area of study for all learners. Our mission further includes the integration of several elements that are often separated in contemporary academia:

- the great fields of learning—humanities, social and natural sciences, the arts, and pre-professional studies—to emphasize the interdependence of knowledge;
- the many aspects of being human as individual persons and members of societies—to seek wholeness in one's development and maturation;
- Western and non-Western cultural perspectives—to communicate both the differences and similarities in their histories and worldviews and the understanding of diversity amid commonality;
- the study of the dominant ideas of many cultures with the firsthand experience of interacting with those cultures—to cultivate empathy and depth of understanding; and
- the perspectives of history with the shaping of the present and near future—to cultivate a sense of an "extended present" with the grasp of the movement of time and the impacts of human choices on the generations that follow.

To enhance such integration, major themes have been organized into four pillars, each of which includes a variety of courses designed to develop specific knowledge, skills, and values. The four pillars of Personal Development; Biblical Foundations; Math, Science, and Technology; and Global Perspectives are complemented by an off-campus cross-cultural experience and a capstone course in contemporary Christian issues.

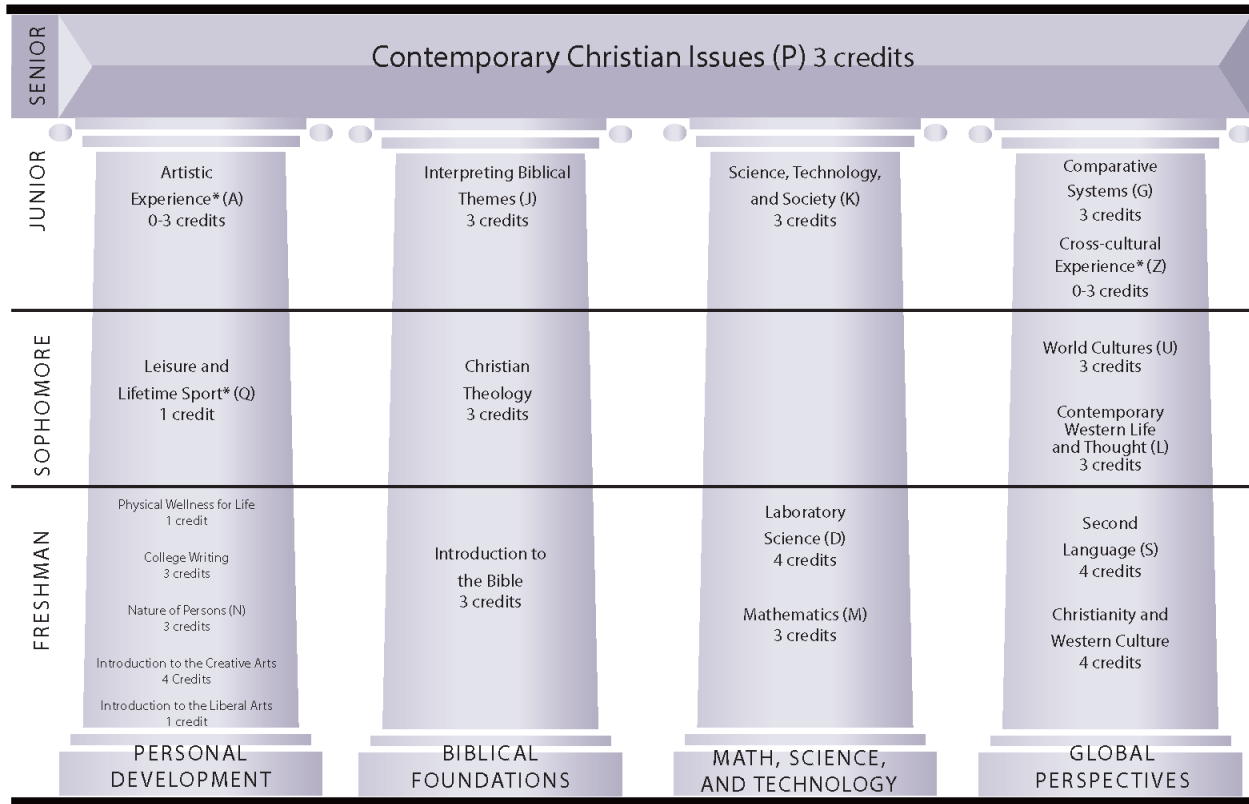
The four General Education pillars comprise both specific courses that all students take and categories from which students choose courses. General Education courses are arranged in a unified and developmental sequence spread through all four years of study and culminate in a capstone course. Some General Education requirements during the first two years of study may be met by completing one of two options. Students may choose to complete their off-campus cross-cultural experience through a designated course or off-campus program or through an approved non-credit experience at various times during their course of study at Bethel. A limited number of courses can be used to meet both General Education requirements and the requirements for a major or minor. (See list of requirements for each major or minor in the appropriate departmental section of the catalog.)

Course and category names listed below, as well as their descriptions, reflect the requirements of the General Education curriculum. General Education category names are followed by category designator letters (e.g., D, M, N). These same designator letters are used throughout the catalog to identify courses meeting General Education category requirements. The following suffix code is used for General Education categories:

A	Artistic Experience
D	Laboratory
G	Comparative Systems
J	Interpreting Biblical Themes
K	Science, Technology, and Society
L	Contemporary Western Life and Thought
M	Mathematics
N	Nature of Persons
P	Contemporary Christian Issues
Q	Leisure and Lifetime Sport
S	Second Language
U	World Cultures
Z	Cross-cultural Experience

# Option 1 for General Education

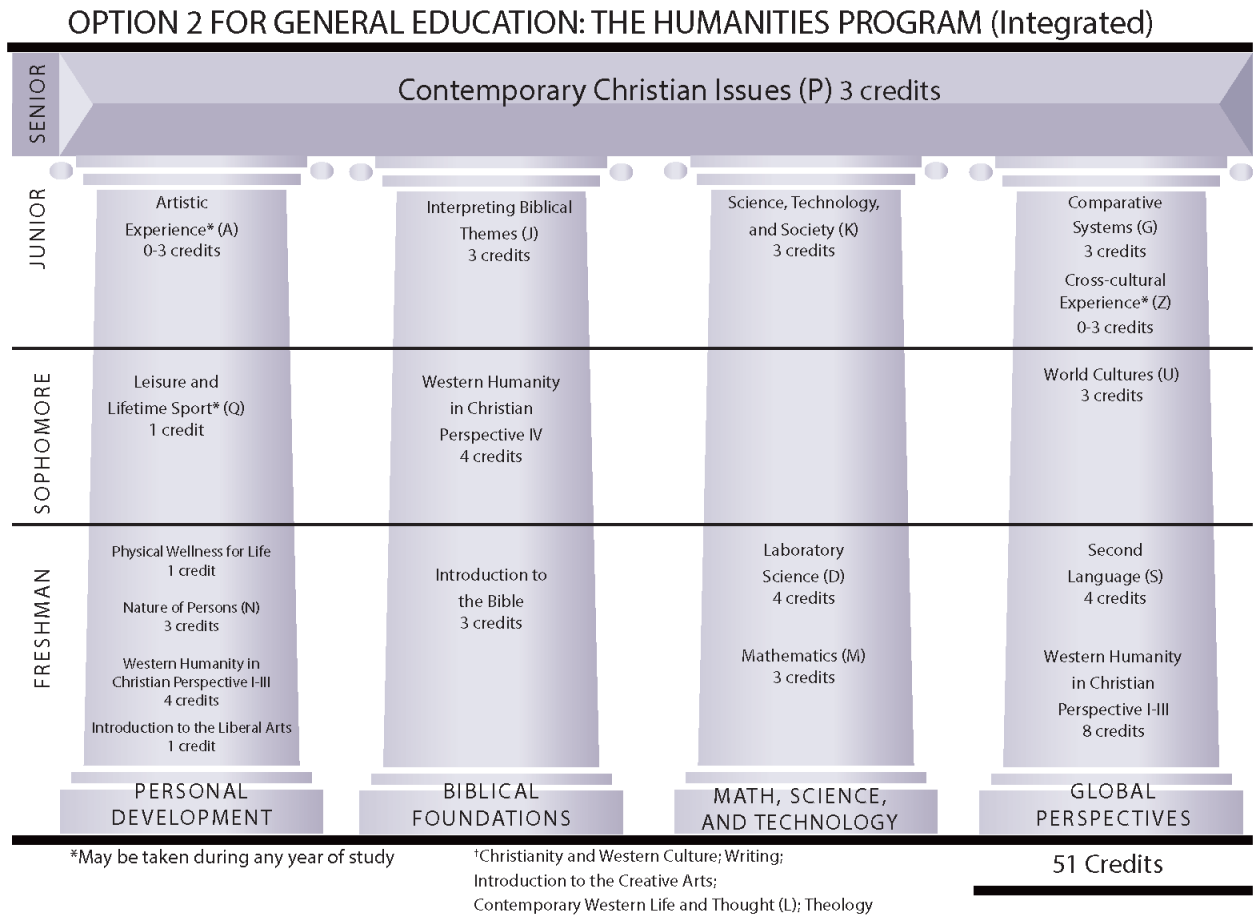
## OPTION 1 FOR GENERAL EDUCATION: CWILT (Modular)



\*May be taken during any year of study †Christianity and Western Culture; Writing; Introduction to the Creative Arts; Contemporary Western Life and Thought (L); Theology

**52 Credits**

# Option 2 for General Education



## Pillars of the General Education Curriculum

### Personal Development Pillar

Facilitates a broad understanding of the richness inherent in humans and their relationships. Orients students to higher education, builds communication skills, enhances creative thought and expression, promotes physical well-being, and increases understanding of human nature. The integration of these facets yields whole and healthy persons.

#### Introduction to the Liberal Arts

Introduces students to a liberal arts education at Bethel as a foundation for scholarship, leadership, and service in a changing world. Orients students to campus resources related to academics and encourages the development of personal, academic, and relationship skills needed to be a successful college student.

#### College Writing

Focuses on the knowledge and skills necessary for successful college-level academic research and writing. Emphasizes writing as a process that includes planning/prewriting, drafting, revision, and editing, and affords multiple experiences of the process. Topics include thesis formulation, development, and support; conventions of writing (grammar, usage, and mechanics); ownership of information and creative work (issues of plagiarism, copyright, and ethical management of information); and information literacy competencies. Students are required to perform in-depth research that involves gathering, reading, and evaluating information and to write a formal research paper that synthesizes information from a variety of properly documented sources.

#### Nature of Persons # Category of Courses (N)

Explores human nature via a person's relationship to God, others, and the world, and examines how these different aspects of human nature are interconnected. Topics include issues of personal identity and development that are of concern to students as they enter college. Examines the crucial link between personal maturity and the activities of immediate social groups, aiding the student both in establishing a healthy self-identity and cooperating effectively with others. Students consider ways that wholeness contributes to Christian growth and service.

**Introduction to the Creative Arts**

Introduces the creative arts and highlights their crucial role in human experience. Art forms included each semester are chosen from music, visual arts, theatre, dance, literature, or film. Creative works spanning stylistic, social, and historical contexts are examined in light of such issues as relationships, religion, death/despair, and humor. Students experience and critically interact with creative works and reflect on them from a Christian worldview, with the goal of developing literacy in artistic language as a tool for exploration and aesthetic interpretation and evaluation.

**Physical Wellness for Life**

Addresses a variety of physical aspects of the human person and how they relate to one's overall well-being and lifelong personal stewardship. Contemporary issues related to physical well-being, such as drugs, alcohol, nutrition, sleep, and exercise, are discussed, as well as the relationship between personal health-related lifestyle choices and responsibility to others. About one-third of each course includes physical activity. Students are encouraged to develop and practice personal strategies for physical well-being through exercise and other means.

**Leisure and Lifetime Sport # Category of Courses (Q)**

Requires participation in a lifetime/leisure sport intended to expand students' exposure to movement, enjoyment of physical activity, and stewardship of the body through physical activity. Concentrated time participating in lifetime/leisure sport is required, along with selected readings and exam(s). Topics include understanding of movement and sport rules and strategies.

**Artistic Experience # Category of Courses (A)**

Students gain hands-on experience with creating/performing (engaging with materials, instruments, creative writing, etc.) that is planned, supervised, and evaluated by a faculty member. An in-studio experience/performance (individual or group) is critiqued in some form. The Artistic Experience may be taken before, during, or after Introduction to the Creative Arts or Western Humanity in Christian Perspective I-II.

## Biblical Foundations Pillar

Biblical and theological competence consists of attaining scriptural knowledge, understanding theology based on Scripture, and responding to new situations in an authentically Christian manner. Such competence requires a foundational grasp of the Bible and theology, together with the skills for understanding and interpreting the Bible and Christian faith for new situations.

**Introduction to the Bible**

Traces the journey of God's people from Abraham and Sarah through the New Testament church, highlighting the unifying self-disclosure of God in the various cultures and types of writing of the Old and New Testaments. A holistic approach is used to introduce students to both historical and thematic content as well as broad, but basic, exegetical principles.

**Christian Theology**

Investigates central themes of the Christian faith from a primarily systematic perspective. These themes are discussed both individually and in terms of the role each plays in worldview formation. Topics include Scripture (inspiration and inerrancy), God (Trinity), the person and work of Jesus Christ (incarnation and atonement), salvation (justification and sanctification), and last things (heaven and hell). Emphasis is placed on the unity and diversity of theological beliefs within Christianity, both past and present, and on the interrelationships between theological understanding, culture, and discipleship.

**Interpreting Biblical Themes # Category of Courses (J)**

Investigates a significant biblical theme in a manner that emphasizes the development of exegetical skills, the use of interpretive tools, and the hermeneutical task of moving from the situation(s) and worldview(s) in which the writings are expressed to those in which the reader makes application. The chosen theme must have contemporary relevance, span both the Old and New Testaments, and be found in at least two literary genres in each testament. Students gain "hands-on" experience in research, interpretation, application, and written communication through the writing of a major exegesis paper.

## Math, Science, and Technology Pillar

Introduces students to the basic concepts, processes, ways of thinking, and applications in math and natural science, and promotes an understanding of central issues related to the impacts of science and technology on society.

**Mathematics # Category of Courses (M)**

Introduces foundational mathematical concepts; reviews and reinforces quantitative skills. Demonstrates pure mathematics as the foundation for the models in use. Students apply appropriate mathematical models and techniques to real-life quantitative problems in order to develop problem-solving skills. Topics addressed include: (a) proportional thinking with ratios, percentages, and decimals; (b) graphs and tables that illustrate trends, rates of change, slopes, and continuous and discrete data; (c) single variable problems, simple algebraic expressions with one unknown; and (d) elementary data analysis, such as unit and unit conversion, data reliability and meaning, significant figures, and basic probability.

**Lab Science # Category of Courses (D)**

Introduces the process and concepts of modern science by focusing on one specific discipline. Provides a broad perspective on scientifically acquired knowledge, inductive methods, and experimental procedures. Laboratory forms a central experiential component of each course, and the analytical procedures used there build and reinforce the student's mathematical competence. Provides a basis for considering implications for Christian stewardship of the natural world.

**Science, Technology, and Society # Category of Courses (K)**

Addresses the linkage of science and technology with other aspects of contemporary society and the natural environment. Focuses on a technological issue that poses current and emerging choices and rests on a body of scientific understanding. At least one-third of the course addresses the scientific and technological content, and at least one-third integrates it with contemporary issues. Addresses the means and criteria by which society decides how to use and regulate the technology. Gives attention to historical perspectives, the relevant ethical and theological principles, and the mandates for Christian stewardship in response to future challenges. Applies and reinforces at least one of the topics of the mathematics category description.

**Global Perspectives Pillar**

Students first explore Western traditions and their Christian influences, and build the skills to communicate in a foreign language. They move on to a deeper understanding of modern American and European cultures. This background provides a context for the study of other cultures, and the analysis of selected systems that are based upon these diverse cultures.

**Christianity and Western Culture**

Seeks to help students understand the key movements that have influenced the lives of people in Europe and North America up through the Enlightenment. Students read with insight and empathy the writings and lives of those who have influenced the course of world societies. Prepares students to appreciate and evaluate the diverse ways in which Christians have interacted with Western culture by shaping, absorbing, and criticizing the culture of the West.

**Second Language # Category of Courses (S)**

Equips students to understand and communicate with people of other cultures at the Novice-High level on the American Council on the Teaching of Foreign Languages (ACTFL) proficiency scale. In the case of ancient languages (Classical Greek, Latin, Hebrew), students are able to use the language to engage the ideas of those cultures. Documented proficiency in languages not offered at Bethel also serves to meet the requirement of this category. Learning experiences are focused on the use of the language for communication purposes within a broader cultural context. Provides opportunities for students to compare, contrast, and analyze their culture with other cultures.

**Students may fulfill Bethel's language requirement by:**

1. Completing the second semester of the first year of a (beginning or introductory) college-level language class or higher with a passing grade at Bethel University (e.g., FRE102S Introductory French II).
2. Completing the second semester of a first-year (introductory or beginning) college-level language class or higher with grade of C or higher at another college/university (any language other than English).
3. Earning a score of 3 or better on an Advanced Placement language exam or a score of 50 or better on a language CLEP test.

Note: Students who are native speakers of a language other than English, or who have studied languages other than French, German, or Spanish, should contact the language testing coordinator in the modern world languages department.

**Contemporary Western Life and Thought # Category of Courses (L)**

The main focus of courses in this category is exploring contemporary American life, culture, and thought within the broad context of Western culture and thought. The courses build on the critical historical events, persons, movements, institutions, and worldviews of the enlightenment that have had phenomenal impact on the direction and evolution of Western life and culture. They address the question, "What does it mean to live in a Western culture in the 21st century, given the influences of the past 200 years?" Courses explore some of the key historical and contemporary persons, events, movements, institutions, and worldviews that have shaped Western culture, with significant emphasis on the United States. While they may be taught primarily from the perspective of one academic discipline, they use readings, materials, and insights from at least three disciplines. Although Contemporary Western Life and Thought courses might explore the European heritage, the core emphasis of the courses is the unique nature of the American experience.

**World Cultures # Category of Courses (U)**

Focuses primarily on one historical or contemporary cultural group whose ways of thinking and living are substantially different than the dominant cultures of Europe and North America. Generally this is an Asian, African, Latin American, Middle Eastern, or Native American culture. The culture's religious/philosophical traditions, economic and political structures, and socio-cultural frameworks are examined, along with the various influences that have acted upon the culture's history and development. Writings by and about the lives of those who have influenced the course of contemporary cultures and societies are included.

**Cross-cultural Experience # Category of Courses (Z)**

Students experience an off-campus person-to-person intercultural engagement of at least 25 hours with a specific cultural group that supports the development of awareness of the student's own culture and the culture with which the student is interacting. Students develop an increased understanding of the complexity and tension cultural difference has on interaction with others. The Z-tag experience places students in an experiential learning environment (domestic or abroad) that includes faculty guided pre-experience preparation and post-experience processing.

The Cross-cultural Experience requirement can be met by passing an approved cross-cultural course indicated by a Z in the course number, completing a semester abroad while a student at Bethel, or completing an approved non-credit experience when undertaken in conjunction with Bethel's pre and post cross-cultural experience courses (GES101 and GES102Z). Registration in GES101 is required the semester before the

experience. Approval of the experience takes place in GES101. Registration in GES102Z is required the semester after the experience. These courses are described in the Academic Programs section of this catalog under General Studies. Courses with a Z in their number can be found in the course listings of many different academic departments.

### **Comparative Systems # Category of Courses (G)**

Compares and contrasts how societies in their large and small-scale manifestation develop mechanisms and strategies for dealing with numerous fundamental problems those individuals, groups, and institutions must resolve in order to progressively reproduce themselves. Engages students in the comparative examination of: ideas, themes, processes, structures, institutions, or contemporary social, political, economic, religious, national, or international issues. Focuses on at least two distinctly different units of analysis, regions, or historical epochs. Deliberate attention is paid to the impact on different groups of the subject matter under consideration in a particular social and historical context. Students interact with “voices” (readings, materials, and insights) from the societies, regions, or the historical epoch being studied.

## **Modular and Integrated Options for First- and Second-Year Courses**

Bethel offers two options for completing some of the first- and second-year General Education requirements in the Personal Development, Biblical Foundations, and Global Perspective pillars.

### **Option 1: CWILT (Modular)**

Courses offered in the CWILT (pronounced “quilt”) option are described in the Academic Programs section, under General Studies (GES110, GES125, GES130), Biblical and Theological Studies (THE201), and in the various departments offering Contemporary Western Life and Thought (L) courses. The first two courses, taught by an interdisciplinary team of faculty, introduce students to Western cultural heritage and the fine arts. Lectures are supplemented by small-group discussions in both classes. Understanding and appreciation of the arts are enhanced through visits to galleries and attendance at concerts and plays. College Writing is designed to introduce students to researching and writing in the college setting. In the second year of courses, Christian Theology undertakes the investigation of central themes of the Christian faith. A course from the Contemporary Western Life and Thought category engages students with the history of the past two centuries of Western life and thought so that they have a more complete understanding of how Western culture is related to other global perspectives.

### **Option 2: The Humanities Program (Integrated)**

This integrated, interdisciplinary program examines Western humanity’s attempt to answer the deepest questions in life regarding God, the self, and society. The Humanities courses, Western Humanities in Christian Perspective I-IV, emphasize direct experience with great works of literature, theology, philosophy, art, music, and drama. Lectures provide historical background and a model of expertise by faculty specialists. In addition, significant class time is devoted to small-group seminars, where textual analysis, writing instruction, and discussion can occur. Students examine texts in class and experience works of art in Twin Cities galleries, theatres, and concert halls. Because the courses in this option build on each other chronologically and thematically, the four courses in this program must be taken in sequence. Students who complete the Humanities Program replace the requirements of the five courses in Option 1. Courses in the Humanities Program are described in the Academic Programs section of this catalog under General Studies (GES145, GES147, GES244, GES246).

## **Cross-Pillar Category**

### **Contemporary Christian Issues # Category of Courses (P)**

Explores selected topics that challenge Christians to make personal and collective choices in light of their Christian values, education, and personal experience. Emphasizes deeper levels of self-understanding or a sharpened sense of some of the complex issues present in our contemporary society. The primary goals of this capstone course are to cultivate holistic and biblically based views of oneself and the world and to facilitate ethical decision-making when faced with these issues. Students explore alternative Christian worldviews that can define and guide decision-making and/or developing oneself. They examine a theme pertaining to one’s personhood and/or relationship to a facet of contemporary society in order to personalize and integrate varied approaches to that issue as part of the process of formulating a personal ethic. Contemporary Christian Issues (P) courses must be taken at Bethel. This requirement cannot be fulfilled through transfer courses.

## **Graduation Requirements**

Bethel’s total academic program comprises courses in a major, General Education requirements, and electives. A minimum of 122 semester hours is required to graduate. These credit hours are distributed in the following way:

Major	30-60 semester credit hours
General Education	51-52 semester credit hours
Electives	11-41 semester credit hours

There are variations to this pattern due to the requirements of the major. Approved majors larger than 60 credits reduce the number of electives available. Students in some majors may be required to take more than 122 credits. All students have the option to do so.

Each student is assigned an academic advisor to assist with academic and career planning. Students may also work with the Office of Career Development and Calling to explore career options.

Majors



Students choose their major from an academic department or a multidisciplinary program. They may also choose to develop an individualized major designed to meet their needs and interests. In some cases, it is possible to complete a second major by using elective credits or increasing the total number of credits taken. At least half of the credits used to meet the requirements of a major must be taken at Bethel. A 2.25 GPA in the major is required unless otherwise noted in the Academic Programs section of this catalog.

#### Minors

Though not required, many students choose to complete a minor in order to pursue an area of interest or as a complement to their major. Minors range between 18-24 semester credit hours. Students may choose to use their elective credits toward the minor or take additional credits. Students may not earn a minor in a program in which they are receiving or have received a major except where specifically noted in the Academic Program section of this catalog. At least 9 credits of any minor must be completed at Bethel.

## Requirements for a Bachelor's Degree

### General Requirements for a Baccalaureate Degree

Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Music (B.Mus.), Bachelor of Music Education (B.Mus.Ed.), Bachelor of Fine Arts (B.F.A.)

1. A cumulative overall grade point average of 2.00. The cumulative GPA includes only courses taken at Bethel.
2. A 2.25 grade point average in one's major, unless otherwise noted. The major GPA includes all courses required in the major and all electives taken for the major at Bethel.
3. A minimum of 122 semester credit hours.
4. The following must be taken in programs that meet Bethel residency requirements or at Bethel (see Office of the Registrar or Office of Off-Campus Programs/International Studies):
  - at least 28 of the last 35 credits,
  - at least half of the credits used to meet the requirements of the major,
  - a Contemporary Christian Issues course (must be taken at Bethel; cannot be brought in through any other programs).
5. A minimum of 3 semester credit hours in General Education Bible and theology courses.
6. GES130 Christianity and Western Culture or GES145 through GES244 in the Humanities Program (see General Education Entry/Transfer Level Chart for further information).
7. A minimum of 37 credits at the upper-division level (300 and 400).
8. All General Education required courses and experiences listed on the General Education Entry/Transfer Level chart on the following pages that are indicated by a "Yes" for their entry level.
9. Completion of interim courses as indicated on the General Education Entry/Transfer Level chart on the following pages (minimum of 3 credits, maximum of 5 credits per interim).
10. Completion of the requirements of a major (listed by department in this catalog).
11. Demonstration of basic competencies in:
  - *Writing*: One course is designated in each major, in addition to the required College Writing course and a writing emphasis in Comparative Systems and Contemporary Christian Issues courses.
  - *Speaking*: One upper-division course is designated in each major, in addition to required speaking assignments in the Nature of Persons and Contemporary Christian Issues courses.
  - *Computing*: As Bethel faculty increase the applications of computing to regular courses in each major, student knowledge of basic uses in their fields will be required. Elective computer literacy courses and noncredit workshops on general skills are available regularly. Students are encouraged to bring their laptops with them to campus.
12. Completion of any departmental and institutional assessment activities.
13. Upon completion of program, participation in commencement ceremonies is expected.
14. Participation in commencement ceremonies is permitted for students who have not completed all graduation requirements provided that they have no more than a total of seven (7) credits remaining. For May commencement, students must plan to complete their courses by the end of the fall term of the next academic year. For December commencement, courses must be completed by the end of the spring term of the same academic year. Policies regarding residency requirements as well as any departmental residency requirements apply.

### General Requirements for a Baccalaureate Degree

In order for multiple majors and minors to be considered as one degree program, they must be taken simultaneously and completed within one academic year of each other. Bethel University will award a student's degree when a student's degree program requirements have been completed, whether or not the student applies to graduate. Students maintain eligibility for financial aid while completing their degree program provided that their total credits do not exceed 150% of the credits required for their degree program. Exceptions will be reviewed on a case-by-case basis.

## Requirements for an Associate of Arts Degree

The associate of arts degree contains a balanced program of liberal arts education without orientation to a particular major. Requirements for the degree include 61 semester credit hours and the designated competencies as listed below. These requirements can usually be met in two years of full-time study. General Education Entry/Transfer Levels apply to students seeking an associate of arts degree.

### General Education Courses: 35-36 credits

- Introduction to the Liberal Arts
- College Writing or Western Humanity in Christian Perspective I-III
- Introduction to the Bible
- Christianity and Western Culture or Western Humanity in Christian Perspective I-III
- Artistic Experience (A)
- Nature of Persons course (N)
- Mathematics course (M)
- Laboratory Science course (D)
- Introduction to the Creative Arts or Western Humanity in Christian Perspective I-III
- World Cultures course (U)
- Contemporary Western Life and Thought course (prerequisite: Christianity and Western Culture or Western Humanity in Christian Perspective I and II) or Western Humanity in Christian Perspective I-IV
- Christian Theology (prerequisite: Introduction to the Bible) or Western Humanity in Christian Perspective I-IV
- Physical Wellness for Life
- Leisure and Lifetime Sports course (Q)

### Arts, Humanities, and Sciences: 5 credits

- Choose courses from: humanities, social science, communication studies, natural sciences, or mathematics.

**Electives: 27 credits as needed to complete the required 61 credits for the Associate of Arts degree.**

### Additional Requirements

1. A cumulative GPA of at least 2.00.
2. At least 28 of the last 35 credits must be taken at Bethel.
3. All General Education required courses and experiences listed on the General Education Entry/Transfer Level chart on the following pages that are indicated by a "Yes" for the entry level.
4. One interim course.
5. A minimum of 3 semester credit hours in General Education Bible and theology courses.
6. GES130 Christianity and Western Culture or GES145 through GES244 in the Humanities Program (see General Education Entry/Transfer Level Chart for further information).
7. Participation in commencement ceremonies is expected.
8. Participation in commencement ceremonies is permitted for students who have not completed all graduation requirements provided that they have no more than seven (7) credits by the end of the fall term of the next academic year. For December commencement, courses must be completed by the end of the spring term of the same academic year. Policies regarding residency requirements apply.

## Honors

### Honors Program

The Honors Program is designed to encourage and serve students desiring a challenging academic program that pursues Bethel's long-standing commitment to the integration of faith and learning. See the Honors section of this catalog for specifics on this program.

### Bachelor's Degree Honors

Honors at graduation for bachelor's degrees are awarded on the basis of a student's cumulative grade point average.

Students who complete at least 68 credits at Bethel receive honors based on the following cumulative GPA criteria:

Summa Cum Laude	3.90
Magna Cum Laude	3.75
Cum Laude	3.60

Transfer students who complete fewer than 68 credits at Bethel receive honors based on the following cumulative GPA criteria:

Summa Cum Laude	3.92
Magna Cum Laude	3.80
Cum Laude	3.68

### Dean's List Honors

Students receive Dean's List honors for each semester in which they earn at least 12 semester credit hours that carry grades used in the calculation of the grade point average (GPA) and earn a cumulative grade point average of 3.6 or better. The Dean's List is final as of 10 days after the last day of final examinations. Students completing work after this date do not become eligible.

## Honors Program

The Honors Program is designed to encourage and serve students desiring a challenging academic program, embodying Bethel's long-standing commitment to the integration of faith and learning. This program provides an educational experience that moves from a generalist emphasis in the first two years to a discipline-specific focus, in the field of the student's choice, in the last two years. The program is designed to provide an enriched educational experience for students with exceptional academic ability, to create a social network for such students, to enhance their preparation for and admission to graduate school, as well as to enhance the general academic environment of the university.

The program consists of two honors courses in the freshman year, one honors course in the sophomore year, and one honors course in the junior year. Students complete these courses in place of the Nature of Persons (N) course; World Cultures (U) course; Comparative Systems (G) course; and Science, Technology, and Society (K) course requirements of the General Education curriculum. Students also take two regularly offered courses—one at the 200 level or above and one at the 300 level or above—on an honors basis, in which they develop individual contracts with a faculty member for an enriched experience in that class. Students complete an Honors Senior Project in their major during the senior year. In addition to the courses, there are Honors Forums, which students are expected to attend in all four years.

Students interested in applying for the Honors Program should contact the director of the Honors Program.

## Honors Program

HON102N	Meaning and Persons <sup>1</sup>	3
HON205U	Finding Community on the Margin <sup>1</sup>	3
HON300G	Concepts of Community <sup>1</sup>	3
HON305K	Issues in Science, Technology and Society <sup>1</sup>	3
Select one tagged honors course at the 200-level or above		3-4
Select one tagged honors course at 300-level or above		3-4
Honors Senior Project (as part of departmental culminating experience)		
<b>Total Credits</b>		<b>18-20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

### HON102N • Meaning and Persons. 3 Credits.

What is a person? Why are persons valuable? How do persons relate to God, the world, and good and evil? These questions about the human condition are explored in the humanities (including philosophy, history, literature, biblical studies, and the arts), focusing on past responses, current dilemmas, and future scenarios.

*Prerequisites: Admission to the Honors Program. Offered: Fall.*

### HON205U • Finding Community on the Margin. 3 Credits.

Exploration of community building that occurs in situations of oppression and exploitation along the lines of ethnicity, religion/culture, and/or economic life. With a focus on a people group found outside the dominant cultures of Europe and North America and living in a situation of marginalization and oppression (e.g., Dalits in India or Roma in Europe), understand the larger social, religious, and economic forces that shape the world of this group. Explore the cultural and personal perspectives of the members of this group. Study programs that address these situations and attempt to break the bonds of oppression and exploitation. Seek a faith-based response to these issues.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently); admission to the Honors Program. Offered: Spring.*

### HON300G • Concepts of Community. 3 Credits.

Analysis and evaluation of community in varying contexts. Investigation of different models of community through reflection, experiential learning, film, fiction, and non-fiction.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]; admission to the Honors Program. Offered: Interim or spring.*

**HON305K • Issues in Science, Technology and Society.** 3 Credits.

Contemporary and historical topics are chosen to illustrate societal and cultural interactions with concurrent developments in science and technology. Examples of personal and corporate decision-making processes are stressed, thereby working toward a goal of preparation and motivation for responsible citizenship.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course; admission to the Honors Program. Offered: Fall or interim.*

## Individualized Study

### Directed Studies

Juniors and seniors with a cumulative GPA of 3.25 or higher may request to take a directed study course in their major for academic credit. Students must design the directed study course in cooperation with their academic advisor and a faculty member who will supervise the study. A directed study course may not be used to meet General Education requirements. An application for directed study must then be submitted to the registrar no later than one week before the beginning of the semester in which it is to take place. A copy of the regulations governing directed study, as well as an application form, may be obtained from the Office of the Registrar.

### Academic Internships

An academic internship is an off-campus learning/practicing experience in which students apply a body of knowledge and skills in a structured “real world” setting. Credit is available through some departments to qualified students in their majors. Inquiries should be directed to department chairpersons.

### Individualized Major

A student may choose to develop an individualized major designed to meet his or her needs and interests. Any such program should have a coherent organizing principle that differs significantly from those underlying standard majors. The program must be developed in consultation with an academic advisor and must be submitted and approved by the end of the first semester of the student’s junior year. The complete policy and guidelines may be obtained from the Office of the Registrar.

## Leaving the University Prior to Graduation

### Withdrawal

A student who decides to discontinue their studies prior to completing their program must officially withdraw. To officially withdraw from Bethel University, a student should complete the appropriate forms available from the Office of Student Life, or call the office at 651.638.6300 and schedule an appointment for an exit interview. Failure to notify the institution of an intent to withdraw may result in loss of financial aid and housing deposit.

### Stop Out

On occasion, it may become necessary for a student to leave school for a semester for a variety of reasons. A student who finds it necessary to discontinue their studies for only one semester, with the intent to return to Bethel after that semester, may be eligible for a stop-out status rather than officially withdrawing from the university. A student interested in receiving a stop-out status should inquire about eligibility with a dean in the Office of Student Life. To be granted a stop-out, a student must be in good standing academically and financially, must have been at Bethel at least one full semester, and must plan to be away no more than one full semester.

A stop-out status allows a student to return to Bethel after one semester away without reapplying for admission. Students also retain their class-level status for housing sign-up and academic registration. The stop-out procedure may only be utilized once by a student during the course of their academic studies, unless special approval is granted by the university.

### Readmission

Students who have officially withdrawn from the university must apply to be readmitted if more than one semester has passed since their last enrollment. Requirements for students who re-enter Bethel within two years of the time of last enrollment are based on the catalog of the year they originally entered Bethel.

If more than two years have passed since they last enrolled in a course at Bethel, they must meet the requirements of the catalog for the year they re-enter. However, students who have three or fewer courses to complete may choose to stay on the most recent catalog under which they were enrolled or move to the current catalog. Students who are in programs that lead to licensure are responsible for meeting current licensure standards.

Students who have been academically dismissed may apply to be readmitted no sooner than one semester after their dismissal. Readmission requires evidence of academic success at another college or university. This is usually demonstrated by completing a semester as a full-time student and earning a GPA of 2.5. Readmission of students who have been academically dismissed is reviewed by the Office of Student Life, the Office of the Registrar, and the Business Office. Students readmitted after being academically dismissed will be provisionally readmitted.

## Post Secondary Enrollment Options

Each year Bethel admits a limited number of high school seniors through the Post Secondary Enrollment Options (PSEO) program. PSEO students may enroll in 100- and 200-level courses for which they have met prerequisite requirements. PSEO students are required to complete GES106 during their

first semester at Bethel and may take no more than 16 credits during the fall and spring semesters and 4 credits during interim. Tuition and fees for summer school courses are not covered by the PSEO program, though PSEO students may choose to take summer school courses and cover the cost of tuition and fees themselves. PSEO students are assigned an advisor in the registrar's office who works with them and their high school counselor to ensure that courses taken at Bethel meet high school graduation requirements. They are also assigned an advisor in the department of a major in which they may be interested.

## ROTC

The resources and programs of ROTC are available to Bethel University students. These resources include scholarships and other forms of financial aid. All credits earned in the program will transfer to Bethel. For full information contact:

ARMY  
University of Minnesota  
Department of Military Science (Army ROTC)  
101 Armory Building  
15 Church Street S.E.  
Minneapolis, MN 55455  
612.626.1584

AIR FORCE  
Air Force ROTC Det. 410  
University of St. Thomas, #5016  
2115 Summit Avenue  
St. Paul, MN 55105-1096  
651.962.6320

## Transferring Credits

Bethel accepts transfer credits in accordance with the policies below:

1. Courses must have been taken at a regionally accredited college or university or at an institution accredited by the Association of Biblical Higher Education.
  - a. No more than 12 credits taken at an institution accredited by the Association of Biblical Higher Education may be transferred to Bethel. These credits are brought in as 100-level electives in biblical studies.
2. Only courses at the 100-level (1000-level for colleges using a four-digit numbering system) and higher are accepted for transfer. Remedial courses are not accepted for transfer.
3. Vocational/Technical courses (e.g., Massage Therapy, Auto Mechanics) may not be transferred to Bethel.
4. Only courses in which students earn a grade of C or better may be transferred to Bethel. Courses taken pass/fail, credit/no credit, satisfactory/unsatisfactory do not transfer unless the official transcript indicates that a pass/fail, credit/no credit, satisfactory/unsatisfactory is equivalent to a grade of C or higher. Audited courses are not accepted for transfer to Bethel.
5. Official transcripts for all courses completed at colleges outside of the United States must be evaluated (and translated, if needed) by an approved evaluation agency or U.S. college or university. Examples of evaluation agencies include, but are not limited to, World Evaluation Services, AACRAO International Education Services, and Educational Credential Evaluators Inc.
6. Grades earned in transfer courses are not included in calculating the cumulative GPA or the GPA for the major at Bethel.
7. Official transcripts from the college, university, or institution offering the transfer course are required.
8. The Office of the Registrar consults departments and the General Education Committee to determine which Bethel requirements may be fulfilled by transfer courses. Final decisions are made by the Office of the Registrar. The Office of the Registrar evaluates official transcripts only.
  - a. In order for a transfer course to fulfill a requirement for majors and minors it must be approved by the department offering the course and the Office of the Registrar.
  - b. Approval for a course to fulfill a General Education requirement must be obtained from the General Education Committee member overseeing the course or General Education category and the Office of the Registrar.
9. In order for a transfer course to fulfill a specific Bethel requirement:
  - a. the credits of the transfer course must be greater than 50% of the credits of the Bethel requirement (e.g., a 2-credit transfer course may not be used to fulfill a 4-credit Bethel requirement but a 3- or 4-credit transfer course may fulfill either a 3- or 4-credit Bethel requirement).
  - b. the level of the transfer course must not be more than one level lower than the Bethel requirement it fulfills (e.g., a 100-level course may replace a 200-level course, but may not replace a 300-level course.)
10. Courses completed at another accredited college or university for 0 credit may be used to fulfill the Physical Wellness requirement provided they meet Bethel's General Education requirements, but will remain as 0 credits.
11. Transfer courses that do not fulfill specific courses or requirements may be brought in as electives and counted toward the total credits required for graduation.

12. Students are responsible for ensuring that official transcripts from other colleges and universities are sent to Bethel and for monitoring their academic records to verify which Bethel requirements the transfer courses fulfill.
13. Students studying abroad should obtain approval of courses to be taken abroad *prior* to their departure. Petition forms are available through the Office of the Registrar.
14. Current Bethel students who wish to take courses at another college or university for transfer to Bethel should obtain approval *prior* to taking the course. Upon completion of the course, they should ensure that official transcripts are sent to the Office of the Registrar.
15. Of the last 35 credits taken to complete a degree at Bethel, at least 28 must be taken at Bethel.

## Credits by Examination

Within the structures outlined below, Bethel University awards advanced placement in recognition of learning that has been achieved apart from a college classroom situation. A maximum of 30 credits in advanced placement can be applied toward a degree program.

1. Credit may be awarded to a student who receives a qualifying score on:
  - a. an Advanced Placement Examination (AP). A minimum score of 3 is required in order for the exam to replace most Bethel requirements. A score of 4 or higher is required to fulfill the College Writing requirement as well as requirements for some majors. The Office of the Registrar maintains information about AP exams and General Education requirements. Students should consult departments for information about AP courses that may be used to fulfill requirements in the major.
  - b. either a General Examination or a Subject Examination of the College-Level Examination Program (CLEP). Consult the Office of the Registrar for details.
  - c. an International Baccalaureate (IB) exam. Bethel awards 3 credits for Standard Level Examinations with a score of 5 or higher. A student with a score of 4 or higher on a Higher Level Examination is awarded 6 credits. Consult the Office of the Registrar for details.
  - d. a DANTES Subject Standardized Test (Defense Activity for Non-Traditional Education Support), which is equivalent to a college course. Consult the Office of the Registrar for details.
2. Exemption from certain first-level courses may be granted on the basis of an adequate score on special placement examinations devised by the respective departments.
3. Students who complete high school outside the U.S. and who pass national exams such as the French *Baccalauréat* or British A-levels may be eligible to receive credit for some first-year courses. See the Office of the Registrar.

## Transfer Entry Level

A General Education Entry/Transfer level is assigned at the time of entry to Bethel and determines which General Education requirements a student must fulfill and the number of interims that must be completed. The General Education Entry/Transfer level will not be changed from the original level assigned unless a student leaves Bethel and returns after a period of two or more years, during which they earned credits at another accredited college or university and did not complete any courses at Bethel.

Students admitted to Bethel who already have a Bachelor's degree from another institution and who are attending Bethel to obtain a second Bachelor's degree in a major different from their previously earned Bachelor's degree will enter Bethel as a Transfer Level 7. (Students who already have a Bethel Bachelor's degree and who are completing a second degree or major are considered to have met all General Education requirements. They need only meet the requirements for the major, including the major residency requirement.)

## General Education Entry/Transfer Level Chart

Students must complete all General Education required courses and experiences listed on the General Education Transfer Level chart below that are indicated by a "Yes" for their entry level. Entry levels are assigned based on semester credit hours accepted by Bethel and completed prior to enrolling at Bethel:

0-13	Level 1
14-25	Level 2
26-43	Level 3
44-57	Level 4
58-89	Level 5
90+	Level 6
Enter Bethel with Bachelor's degree	Level 7

General Education/ Transfer Level	1	2	3	4	5	6	7
<b>Personal Development Pillar Requirements</b>							
Introduction to the Liberal Arts (GES106) <sup>1</sup>	Yes	No	No	No	No	No	No
College Writing (GES110) <sup>4</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Nature of Persons (N)	Yes	No	No	No	No	No	No
Introduction to the Creative Arts (GES125) <sup>4</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Choose ICA or A
Artistic Experience (A)	Yes	Yes	Yes	Yes	Yes	No	Choose ICA or A
Physical Wellness for Life	Yes	Yes	Yes	Yes	Yes	Yes	Choose Phys. Well. or Q
Leisure and Lifetime Sport (Q)	Yes	Yes	Yes	Yes	Yes	Yes	Choose Phys. Well. or Q
<b>Biblical Foundations Pillar Requirements</b>							
Introduction to the Bible (BIB101)	Yes	Yes	2 out of 3 (At least one at Bethel)	2 out of 3 (At least one at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)
Christian Theology (THE201) <sup>4</sup>	Yes	Yes	2 out of 3 (At least one at Bethel)	2 out of 3 (At least one at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)
Interpreting Biblical Themes (J)	Yes	Yes	2 out of 3 (At least one at Bethel)	2 out of 3 (At least one at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)	1 out of 3 (Must be taken at Bethel)
<b>Math, Science, and Technology Pillar Requirements</b>							
Mathematics (M)	Yes	Yes	Yes	Yes	Yes	Yes	1 out of 3
Laboratory Science (D)	Yes	Yes	Yes	Yes	Yes	Yes	1 out of 3
Science, Technology, and Society (K)	Yes	Yes	Yes	Yes	No	No	1 out of 3
<b>Global Perspectives Pillar Requirements</b>							
Christianity and Western Culture (GES130) <sup>2, 4, 5</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contemporary Western Life and Thought (L) <sup>4</sup>	Yes	Yes	Yes	Choose L or G	No	No	No
Comparative Systems (G)	Yes	Yes	Yes	Choose L or G	No	Choose 1: G, S, U, or Z	Choose 1: G, S, U, or Z



Second Language (S) (Course or proficiency equivalent to second semester first-year college-level course)	Yes	Yes	Yes	Yes	Yes	Choose 1: G, S, U, or Z	Choose 1: G, S, U, or Z
World Cultures (U)	Yes	Yes	Yes	No	No	Choose 1: G, S, U, or Z	Choose 1: G, S, U, or Z
<b>Cross-Pillar Integrations Requirements</b>							
Cross-cultural Experience (Z)	Yes	Yes	Yes	Yes	Yes	Choose 1: G, S, U, or Z	Choose 1: G, S, U, or Z
Contemporary Christian Issues (P) <sup>5</sup> "Capstone course" (Must be taken at Bethel)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Other Requirements</b>							
# of interims that must be completed at Bethel	3	3	2	2	1	0	0

<sup>1</sup> All students enrolling at Bethel through the Postsecondary Enrollment Options (PSEO) are required to complete GES106 their first semester at Bethel. All students admitted provisionally must take GES106. Provisionally admitted transfer students must take GES108.

<sup>2</sup> Students entering Bethel must complete GES130 at Bethel unless they transfer in an approved course that they completed before entering Bethel. Beginning fall 2015, GES130 must be taken at Bethel by all students. At that time, no course taken at another college or university will be transferred in to fulfill this requirement. Students may complete Bethel's Humanities Program to fulfill this requirement.

<sup>3</sup> Students are encouraged to enroll in GES108 Introduction to Life at Bethel as an elective to address transfer concerns and be oriented to academic resources (e.g., library, technology, academic planning).

<sup>4</sup> Indicates courses that are part of the CWILT program and can be replaced by the courses in Humanities.

<sup>5</sup> Courses above indicated by a <sup>5</sup> must be taken at Bethel.

## The Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act of 1974 (FERPA), as amended, is a federal law enacted to establish procedures for disclosing information contained in student records and to protect the privacy of these records. The Act applies to currently enrolled students beginning at the point of deposit ("fee paid") and former students, but does not apply to individuals who have applied for admission, but never attended Bethel University. Applicants for admission who are denied enrollment or who are accepted but do not pay a deposit do not have a right to review their records. Information obtained on a former student subsequent to graduation or termination of enrollment is not covered under the Act (e.g., data accumulated on alumni). All rights under the Act cease when a person dies; the university will decide on an individual basis what records of deceased students can be released and to whom they will be released.

Bethel University will notify students annually of their rights under the Act by publishing such information in the university catalog. A complete policy is available from the Office of the Registrar.

Currently enrolled and former students have a right to inspect their educational records upon written request. Students must request permission in writing to inspect their records and must present that request to the appropriate office as noted in item three of this policy. The records will be made available to the student for inspection not more than 45 days following the request. A university employee will be present while the student inspects his or her records.

### 1. Definitions:

- a. A school official is a person employed by Bethel University in an administrative, supervisory, academic or research, or support staff position (including security and safety personnel and health services staff); a person or company with whom Bethel University has contracted (e.g., auditors, attorney, National Student Clearinghouse); a person serving on the Board of Trustees; or a student serving in an official committee or assisting another university official in performing his or her tasks.



- b. Education Records are defined as anything that directly identifies a student and are maintained as official working files by the university. Education records may include: class lists; grade rosters; computer printouts; information on a computer screen; student schedules; documents in the Office of the Registrar; advisee folders; AND anything that contains the following: ID number, Social Security number; grades; exam scores; GPA; number of credits taken in a term; date of birth, etc.
- c. The following files are NOT considered educational records under FERPA:
- i Records about students made by instructors, professors, and administrators for their own use and not shown to others (sole possession records)
  - ii Office of Security and Safety records maintained solely for law enforcement purposes and kept separate from the education records described above
  - iii Employment records, except where a currently enrolled student is employed as a result of his or her status as a student
  - iv Records of physician, psychologist, or other recognized professional made or used only for treatment purposes and available only to persons providing treatment
  - v Records that contain only information relating to a person's activities after that person is no longer a student at the university
  - vi Financial information submitted by parent(s)/guardian(s)
  - vii Directory information not restricted by the student
  - viii Confidential letters and recommendations placed in the student's record if the student has waived in writing his or her right to inspect those letters and recommendations. Students may revoke a waiver at a later time, but any such waiver must be in writing and is only effective with respect to actions occurring after the revocation.
2. For information about educational records, contact the office in which the records are kept. Types of educational records maintained by Bethel University are as follows:
- a. Office of Admissions—Application for admission, academic records from past schools attended, recommendations, and related documents. These records are transferred to the Office of the Registrar/Academic Affairs after the student is enrolled.
  - b. Office of Financial Aid—Financial aid applications, records of financial aid awarded, and related documents.
  - c. Office of the Registrar—Personal information data, course registration, records of all courses taken including grades, documents related to degree completion requirements, and other related information.
  - d. Business Office—Records related to all charges, payments, and emergency and Perkins loans for educational services rendered by the university.
  - e. Office of Career Development and Calling—Placement data completed by the student, resumes, information on courses taken toward degree, letters of recommendation from faculty and/or employers.
  - f. Academic Departments—Student applications to program, copies of grades, notes from student interviews, faculty recommendations, department recommendations, records of field experiences, clinicals, practica, internships, and other related documents.
  - g. Health Services—Student medical forms, copies of athletic physicals, and records of medical services rendered to the student through the university.
  - h. Office of Student Life—Photograph, ID card information, evaluations from residence hall personnel, interest test results, housing applications, Covenant for Life Together and miscellaneous correspondence, disciplinary information.
  - i. Office of Development—Personal data on alumni of the university and records of financial giving.
  - j. Faculty Advisors—Notes from advising sessions; copies of various communications to and from advisee, faculty, and other offices; and related advising material.
3. Students may request copies of available records when failure to provide a copy of the record would effectively prevent the student from inspecting and reviewing the record. Students must pay a per copy fee. A copy may be refused, but only if, in doing so, the institution does not limit the student's right to inspect and review that record.
- Unless otherwise required by law, Bethel University transcripts will not be issued to students who are delinquent in paying university charges for educational services or who are behind in financial loan repayments. Copies will not be provided of education records (e.g., transcripts) that were issued by other educational institutions unless authorized by the registrar.
4. Student records will be designated as "directory" or "non-directory" information. "Directory information" may be released at the discretion of university officials without the written permission of the student. Once a year students will be given the opportunity to request that directory information be withheld unless their written approval is given. Students may request to withhold disclosure of directory information by completing a form online or in the registrar's office. A student who is no longer enrolled cannot request that directory information be withheld. Bethel will, however, continue to honor a student's last request with regard to the disclosure or non-disclosure of directory information made while the student was in attendance at Bethel.
- a. Directory information means information contained in an education record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. Directory information includes, but is not limited to: the student's name; address; telephone listing; electronic mail address; photograph; date and place of birth; major field of study; grade level; enrollment status (e.g.; undergraduate or graduate; full time or part time); dates of attendance; participation in officially recognized activities and sports; weight and height of members of athletic teams; degrees, honors, and awards received; and the most recent educational agency or institution attended.
  - b. Non-directory information is defined as any personally identifiable student information that is not directory information. Directory information does NOT include a student's Social Security number or student identification (ID) number, except as provided in paragraph (c) of this section.

- c. Directory information includes a student ID number, user ID, or other unique personal identifier used by the student for purposes of accessing or communicating in electronic systems, but only if the identifier cannot be used to gain access to education records except when used in conjunction with one or more factors that authenticate the user's identity, such as a personal identification number (PIN), password, or other factor known or possessed only by the authorized user. [Federal Register, Authority: 20 U.S.C. 1232g(a)(5)(A)].
5. "Directory" and "non-directory information" *must* be released without the written consent of the student to:  
Authorized representatives of the Comptroller General of the United States, the Attorney General of the United States, the Secretary of Education, or state or local educational authorities, for audit and evaluation of federal- and state-supported education programs, or for the enforcement of or compliance with federal legal requirements that relate to those programs.
6. "Directory" and "non-directory information" *may* be released without the written consent of the student to:
- Bethel University personnel who have a legitimate educational interest in the records.
  - Officials of another school in which the student seeks to enroll.
  - Persons or organizations involving financial aid in order to determine the student's eligibility for financial aid; to determine the amount of financial aid; to determine conditions to be imposed regarding financial aid; and to enforce conditions of financial aid.
  - A person or organization retained to be an agent for, or under contract with, Bethel University (e.g., financial auditors, attorney, National Student Clearinghouse).
  - State and local officials as allowed by state statutes concerning the juvenile justice system.
  - Organizations that are conducting studies to develop, validate, and administer predictive tests; administer student aid programs; and improve instruction. Those organizations cannot redisclose personally identifiable information of students.
  - Accrediting agencies carrying out their accrediting functions.
  - Parents of dependent students. Students who are claimed as dependents on their parents'/guardians' most recent federal tax return.
  - To comply with a judicial order or lawfully issued subpoena. The university will notify the student when such a request occurs without the student's knowledge unless prohibited by law.
  - Appropriate persons in a health or safety emergency.
7. The university can release information related to a student contained in law enforcement records so long as such records are created by a law enforcement unit, created for a law enforcement purpose, and maintained by a law enforcement unit in a manner that segregates them from records maintained by other components of the university.
8. The *Act* does not guarantee any rights to parents or guardians of students who are attending post-secondary institutions. The *Act* does, however, allow Bethel to provide parents with access to their student's educational records provided the parents claim the student on their federal income tax return. If a student is claimed as a dependent for federal income tax purposes by either parent (regardless of the parents' current marital status), then either parent may have access to the student's education records without the student's consent. Parents who did not file a federal income tax return or did not claim their student as a dependent on their federal income tax return may not have access to their student's education records without their student's express written consent.  
If Bethel determines that there is an articulable and significant threat to the health or safety of a student or other individuals, it may disclose information from educational records to any person whose knowledge of the information is necessary to protect the health or safety of the student or others, provided that Bethel will only exercise this authority for the duration of the emergency.
9. Bethel University will maintain a record of requests for access to and disclosure of a student's non-directory information to anyone other than the student, university officials with a legitimate educational interest, a party with the student's written consent, or a party seeking or receiving the records as directed by a court order or lawfully issued subpoena that directs the university to refrain from disclosing the contents of the subpoena or the information furnished in response to the subpoena. A student may inspect the record of disclosure, which will be kept by the office in which the record is maintained unless such inspection is prohibited under the terms of a court order or lawfully issued subpoena.
10. If a student believes that information in his or her record is inaccurate, misleading, or otherwise in violation of his or her privacy rights, he or she may request that a change in the record be made. Such a request must be in writing and submitted to the appropriate university official in whose office the record in question is located (see section three). If the student disagrees with the action taken, he or she may make a written request to that official for a hearing to contest the record. A hearing will be conducted within three weeks of the written request (or as soon thereafter as is practicable) with the student having an opportunity to present all relevant evidence. The hearing panel will consist of the university official in charge of the record in question and two other officials selected by the official in charge. The student will be notified within two weeks of the hearing (or as soon thereafter as is practicable) as to the decision of the official or hearing panel. The decision of the hearing panel is final. If the student disagrees with the action taken by the hearing panel or official, he or she may place a statement in his or her educational record giving the reasons for disagreeing with the decision. (NOTE: Appeal of grades or disciplinary action should follow the processes outlined in the student handbook and academic catalog.)
11. Enforcement of this act is the responsibility of the  
Family Compliance Office, U.S. Department of Education  
400 Maryland Avenue, S.W.  
Washington, D.C. 20202-5920  
(The only penalty provided for violation of the act on the part of the university is the possible elimination of federal funds received by the university. There is no private cause of action under the Act.)
12. Further information concerning The Family Educational Rights and Privacy Act is available at <https://www.ed.gov>.

## **Statement on Legitimate Educational Interest**

For these purposes, “legitimate educational interests” shall mean an EDUCATIONALLY RELATED purpose, which has a directly identifiable educational relationship to the student involved and underlies the request.

The following criteria shall be taken into account in determining whether a school official has a legitimate educational interest in the information contained in the student records at issue:

- The official must seek the information within the context of the responsibilities that he or she has been assigned;
- The information sought must be used within the context of official university business and not for purposes extraneous to the official’s area of responsibility or to the university;
- The information requested must be relevant and necessary to the accomplishment of some task or to making some determination within the scope of university employment;
- The task must be determined to be consistent with the purposes for which the data are maintained. Requests related to institutional research and studies are subject to this criterion;
- The university will give student information where prescribed by law or when retained by an agent of the university or a party with whom the university has contracted (e.g., auditors, National Student Clearinghouse).

Disclosure to a school official having a legitimate educational interest does not constitute institutional authorization to transmit, share, or disclose any or all information received to a third party.

**UNAUTHORIZED DISCLOSURE OF PERSONALLY IDENTIFIABLE INFORMATION FROM THE EDUCATION RECORD OF ANY STUDENT IS PROHIBITED.**

# OFF-CAMPUS PROGRAMS

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Bethel University has long recognized the importance of offering its students a wide range of off-campus educational opportunities in both domestic and international locations. Such experiences are a significant part of the academic program at Bethel, providing an opportunity for expanded understanding of the world. Bethel sponsors a wide variety of programs of its own as well as several in collaboration with host organizations, consortiums, and universities around the globe. Students must attend Bethel at least one semester before participating in an off-campus studies program.

As part of the overall program in off-campus study at Bethel, the Office of Off-Campus Programs/International Studies offers information and assistance to all students interested in studying abroad and in other off-campus locations.

Several components of the General Education curriculum are intended to prepare graduates for life in the interconnected, mutually dependent global community. The off-campus, cross-cultural experience (Z) course requirement can be met by successfully completing a semester abroad. In addition, off-campus interim courses that incorporate interaction with people from another culture and have been pre-approved by the General Education committee also fulfill this requirement. Cross-cultural experience courses include a Z in the course number.

## Off-Campus Programs (International)

Resources and application materials are available in the Office of Off-Campus Programs/International Studies for students considering a term abroad. Policies regarding eligibility, finances, etc., are available in the Office of Off-Campus Programs/International Studies.

### Semester Programs

Students must have completed a minimum of 30 credits and seniors must meet residency requirements in order to participate in semester off-campus programs. All students must have a minimum 2.5 grade point average and must complete the Office of Off-Campus Programs/International Studies approval process.

#### Australia Studies Centre (ASC)

ASC is offered in partnership with Christian Heritage College (CHC), a CCCU affiliate member in Brisbane, Queensland. The ASC is designed to integrate the firsthand observation and study of Australian culture, history, religion, politics, and Indigenous cultures together with experiential service learning and formal instruction in Christian studies, business, ministries, social sciences, and education and humanities.

#### China Studies Program (CSP)

CSP, which began in the spring of 1999, allows students to experience this large and intriguing country from the inside. While living and experiencing Chinese civilization firsthand, students participate in seminar courses on the historical, cultural, religious, geographical, and economic realities of this strategically important and populous nation. In addition to the study of Mandarin Chinese, students have the opportunity to assist Chinese students learning English, allowing for one-on-one interaction. The program is based in the coastal city of Xiamen but seeks to introduce students to the diversity of China through travel to Beijing, Shanghai, Xi'an, and Hong Kong. This interdisciplinary, cross-cultural program of study enables Christian students to deal with this increasingly vital part of the world in an informed, Christ-centered way. Students generally enroll in 16 semester hours of credit.

#### Daystar Term

Bethel University students can choose to attend fall or spring semester at Daystar University, currently one of the few accredited evangelical Christian liberal arts colleges in Africa. The scenic Athi River campus, about 25 miles from Nairobi, offers courses in Bible, communication, literature, education, business, psychology, and more. Participants live with African students and can participate in campus life through numerous extracurricular activities and various student associations. Open to all majors.

#### England Term

Bethel University offers a biennial (fall of odd-numbered years) academic program of residential study and travel in Great Britain, Ireland, Northern Ireland, and France. Led by a faculty member from the Department of English, England Term emphasizes serious academic study, the building of Christian community, and the experience of other cultures in ways that are not possible in on-campus programs. Students are abroad for an entire semester, alternating between extended stays at home bases and travels throughout England, Scotland, Wales, Ireland, Northern Ireland, and France. Sites are chosen for their literary, historical, and cultural significance, and usually include such places as Edinburgh, the Lake District, Oxford, Cambridge, Stratford, London, and Dublin. The program offers opportunities for deeper cultural contact (e.g., homestays with British or Irish families) and approximately two weeks for independent travel in Europe. See the English department listings for descriptions of courses typically offered during England Term. For further details contact the chairperson of the English department or the Office of Off-Campus Programs/International Studies.

#### Europe Term: Communication

Europe Term is a semester-long study experience based in Austria with excursions to Italy, Eastern Europe, and Germany. The program is led by Bethel faculty and utilizes an intercultural communication perspective to analyze communication and cultures of Europe. Students live and study in small but cosmopolitan European cities, building relationships with individuals from all over the world. The program is sponsored by the Department of

Communication Studies and is open to students of any major. Students typically take 15 credits and complete the Cross-cultural Experience (Z) and Science, Technology, and Society (K) requirements of Bethel's General Education curriculum.

### **Guatemala Term**

Every spring Bethel University offers an academic and service program in Antigua, Guatemala. The 15 credit program emphasizes an integration of academic study, Christian service, and cross-cultural interaction. Students take 8 credits of Spanish, studying one-on-one with tutors from the *Centro Linguista Maya* in Antigua. They also participate in a practicum experience, working side-by-side with Guatemalans who have expertise in education, social work, medicine, appropriate technology, and economic development. This program is especially designed for students who are interested in applying their field of study to international Christian service.

### **India Studies Program (ISP)**

ISP, based in Coimbatore, Tamil Nadu, provides students with immersion in a local community and broad exposure to a variety of peoples, places, and customs in India. Students will take courses on the historical, religious, geographical, and economic landscape of India. Building on their basic understanding of India's past and contemporary realities, students have opportunities to explore a variety of issues—poverty, social justice, rapid social change, religious pluralism—through the eyes and experience of Indian Christians. They also take electives at the Bishop Appasamy College of Arts and Sciences for a total of 16 credits.

### **Latin American Studies Program (LASP)**

LASP provides an opportunity to live and learn in San Jose, Costa Rica. The semester-long program allows students to study the language, literature, culture, politics, history, economics, ecology, and religion of the region while living with a Costa Rican family. Students also participate in a service opportunity and travel for three weeks to surrounding countries. Students participate in one of four concentrations: Latin American Studies (offered both fall and spring terms); Advanced Language and Literature (limited to Spanish majors and offered both fall and spring terms); International Business and Management (offered only fall term); and Tropical Sciences (offered only spring term). Students in all tracks enroll in 16 semester hours of credit.

### **LCC International University (LCC)**

Lithuania is undergoing intriguing transformation, emerging as a nation in its own right. LCC is a four-year educational institution with a North American style of education focused on liberal arts and leadership development. LCC is noted for having an international campus community, with students and staff from all over Eastern Europe and faculty from Europe, the United States, and Canada. The campus is located in Klaipeda, a port city on the Baltic Sea and a major Eastern European cultural center. Courses are taught in English in the core areas of theology, psychology, sociology, writing, and business. Students live in dorms with European students and have the opportunity to travel to Russia, Latvia, Estonia, and other Eastern European destinations. Students generally enroll in 15 semester hours of credit.

### **Middle East Studies Program (MESP)**

MESP, based in Amman, Jordan, allows students to explore and interact with the complex and strategic world of the modern Middle East. Interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural, and political traditions of Middle Eastern people. In addition to seminars, students study the Arabic language and work as volunteers with various organizations. Through travel to other Middle Eastern nations, students are exposed to the diversity and dynamism of the region. MESP encourages and equips students to relate to the Muslim world in an informed, constructive, and Christ-centered manner at a time of tension and change. Students enroll in 16 semester hours of credit.

### **Scholars' Semester in Oxford (SSO)**

Honors and other highly qualified students have the opportunity to study in England through an interdisciplinary semester at Oxford University. This rigorous academic program, aimed at increasing critical thinking skills and scholarship from a Christian perspective, allows participants to choose from a wide variety of tutorial study programs in religious studies, history, English, history of science, 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 enroll in 17 semester hours of credit.

### **Spain Term**

Bethel University offers a fall semester academic program in Segovia, Spain. An hour from the capital city of Madrid, Segovia is a town rich in history, architecture, and cultural sites. This program is primarily directed toward students interested in furthering their proficiency in the Spanish language and knowledge of culture. All classes are taught in Spanish at the Center for Hispanic Studies. Students have the opportunity to interact with native Spanish speakers and university students through organized culture and language exchanges at the center. More cultural interaction takes place with Spanish host families. Though geared toward Spanish majors, Spain Term is open to students who have completed two years of college-level Spanish courses or the equivalent.

### **Uganda Studies Program (USP)**

USP is an integrated study of culture, history, politics, and humanities that allows for a blended classroom and experiential survey of Ugandan life. The program includes an experiential course designed especially for USP students, flexible core classroom courses (choosing from religion, history, and literature), and electives from Uganda Christian University's Honours College. Students live in the university dorms in Kampala and have the opportunity for a two-week homestay with an African family. Students also participate in ongoing service projects during the semester.

## Other International Study Opportunities

Other study abroad programs approved by Bethel are available on a semester or interim basis. These programs can be arranged for students through the Office of Off-Campus Programs/International Studies.

### Bethel Interim Programs

Bethel faculty members often teach interim courses in international settings. These classes are offered in a variety of subject areas. Courses vary from year to year. All students must have a minimum 2.2 grade point average and complete the Office of Off-Campus Programs/International Studies approval process. Seniors must meet residency requirements.

### Outside Programs

Several study abroad programs offer January Term courses in a variety of locations and subject matter. Information is available in the Office of Off-Campus Programs/International Studies. All students must have a minimum 2.2 grade point average and complete the Office of Off-Campus Programs/International Studies approval process. Seniors must meet residency requirements.

## Summer Programs

All students must have a minimum 2.2 grade point average and complete the Office of Off-Campus Programs/International Studies approval process. Seniors must meet residency requirements.

### Oxford Summer Programme (OSP)

The Oxford Summer Programme (OSP) is a program of the Council for Christian Colleges and Universities (CCCU) and Wycliffe Hall, Oxford. The program is designed for students wishing to gain a more comprehensive understanding of the relationship between Christianity and the development of the West and who wish to do specialized work under expert Oxford academics in the areas of history, religious studies, political theory, philosophy, English, and the history of science. The Programme is structured for rising college sophomores, juniors, and seniors; graduate and seminary students; nontraditional students; teachers; and those enrolled in continuing education programs.

## Off-Campus Programs (United States)

### Semester Programs

Students must have completed a minimum of 30 credits and seniors must meet residency requirements in order to participate in semester off-campus programs. All students must have a minimum 2.5 grade point average and must complete the off-campus studies approval process.

### American Studies Program (ASP)

Founded in 1976, ASP serves as Bethel's "Washington, D.C., campus." Students gain hands-on experience with an internship in their chosen field and explore pressing national and international issues in public policy seminars that are issue-oriented and interdisciplinary. Internships are available in a wide range of fields. ASP bridges classroom and marketplace, combining biblical reflection, policy analysis, and real-world experience. Students are exposed to on-the-job learning that helps them prepare for their futures and gain perspective on God's calling for their lives. They are challenged to discover for themselves the meaning of Christ's lordship and how to put their beliefs into practice. The aim of the program is to help students prepare to live faithfully in contemporary society as followers of Christ. Students enroll in 16 semester hours of credit.

### Au Sable Institute of Environmental Studies

Bethel participates in the Environmental Studies extension program available at the Au Sable Institute in northern Lower Michigan. Financial assistance is available from Au Sable. Interested students should obtain information and forms from the Department of Biology.

### Consortium Visitor Program

The Christian College Consortium Visitor Program is designed to give students an opportunity to take advantage of course offerings and varied experiences on other Christian college and university campuses for a semester while maintaining regular standing at Bethel. Further information on the Consortium Visitor Program may be obtained from the Office of Off-Campus Programs/International Studies.

### Contemporary Music Center (CMC)

Young musicians and aspiring music industry executives have the opportunity to learn more about a career in popular music through the CMC. Alongside faculty, artists-in-residence, and visiting music industry professionals, students are encouraged to explore the integration of their Christian faith and love of music in the marketplace. In addition to seminars and lectures, great attention is given to the creation and marketing of original music. CMC offers two tracks: the artist track, in which students create a portfolio of original songs, and the executive track, in which students work with artists in career direction and management, contract negotiations, budgeting, and creating marketing and sales plans. The CMC is located in Nashville, Tennessee. Students enroll in 16 semester hours of credit.

### Los Angeles Film Studies Center (LAFSC)

The LAFSC is designed to train students to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn, and work in the Los Angeles area near major studios. The curriculum consists of two required seminars focusing on the role of film in

culture and the relationship of faith to work in this important industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hands-on experience. The combination of the internship and seminars allows students to explore the film industry within a Christian context and from a liberal arts perspective. Students enroll in 16 semester hours of credit.

### **The Oregon Extension**

The Oregon Extension is a fall semester Christian College Consortium Visitor Program of intensive interdisciplinary studies in the Southern Oregon Cascade Mountains for juniors and seniors. It provides an opportunity to grapple seriously with ideas, Christian commitment, and life together in a community of five faculty and 30 students. Students enroll in 16 semester hours of credit.

### **Interim Student Exchange Program**

Students may arrange to take January interim courses at other 4-1-4 colleges or universities while maintaining their regular student standing at Bethel. These visiting student privileges are usually authorized by bilateral, reciprocal tuition waiver agreements. Students may also enroll in other accredited colleges or universities for January courses that meet Bethel's interim academic standards. (See the interim catalog for full details.)



# ACADEMIC PROGRAMS AND DEPARTMENTS

## An Overview of How to Use this Catalog Course Numbers, Levels, Credits, and Prerequisites

The primary purpose of Bethel's course number system is to identify the intended clientele of each course, its level of content and material, and any necessary course background. Courses are designed primarily for students at the levels indicated below.

100's	Freshman
200's	Sophomore
300's	Junior
400's	Senior

The subject code indicates the academic subject being studied. The suffix code indicates the General Education requirement(s), if any, that can be met by completing the course.

## Subject Code and Description

ANT	Anthropology
ARH	Art History
ART	Art
ASL	American Sign Language
BIB	Bible
BIO	Biology
BUS	Business
CHE	Chemistry
CHI	Chinese
COM	Communication Studies
COS	Computer Science
DES	Graphic Design
ECO	Economics
EDU	Education
ENL	English-Literature
ENR	Engineering
ENS	Environmental Studies
ENW	English-Writing
FLM	Film Studies
FRE	French
GEL	Geology
GEO	Geography
GES	General Studies
GRK	Biblical Greek
HAS	Human Kinetics and Applied Health Science
HEB	Biblical Hebrew
HIS	History
HON	Honors
LEA	Leadership Studies
LIN	Linguistics
MAT	Mathematics
MIN	Missional Ministries

MUE	Music-Ensembles
MUL	Music-Private Lessons
MUP	Music-Performance Groups
MUS	Music
NAS	Natural Sciences
NUR	Nursing
PEA	Physical Education-Applied
PHI	Philosophy
PHY	Physics
POS	Political Science
PSY	Psychology
REL	Religious Studies
RES	Reconciliation Studies
SCS	Sociocultural Studies
SOC	Sociology
SOW	Social Work
SPA	Spanish
TEL	Teaching English as a Second Language
THA	Theatre Arts
THE	Theology

## General Education Category Designators

A	Artistic Experience
D	Laboratory Science
G	Comparative Systems
J	Interpreting Biblical Themes
K	Science, Technology, and Society
L	Contemporary Western Life and Thought
M	Mathematics
N	Nature of Persons
P	Contemporary Christian Issues
Q	Leisure and Lifetime Sport
S	Second Language
U	World Cultures
Z	Cross-cultural Experience

## Prerequisites

Prerequisites are courses or other requirements (e.g., sophomore standing, consent of instructor, placement exam) that must be met before enrolling in a particular course. In this catalog, a comma between items in a list of prerequisites indicates that students may choose any of the items on the list to meet the prerequisites. A semicolon between items indicates that each item in the list is required before enrolling in the course.

## General Education Prerequisites

Course or Category	Category Designator	Course #	Prerequisite
<b>Personal Development:</b>			
Artistic Expression	A	100-300	None
College Writing	-	110	None



Introduction to the Creative Arts	-	125	None
Introduction to the Liberal Arts	-	106	None
Leisure and Lifetime Sport	Q	100	None
Physical Wellness for Life	-	100	None
Nature of Persons	N	100	None
<b>Biblical Foundations:</b>			
Introduction to the Bible	-	101	None
Interpreting Biblical Themes	J	300	BIB101
Christian Theology	-	201	BIB101
<b>Math, Science, and Technology:</b>			
Laboratory Science	D	100-200	None
Mathematics	M	100-200	None (some by placement exam)
Science, Technology, and Society	K	300	D; M
<b>Global Perspectives:</b>			
Christianity and Western Culture <sup>1</sup>	-	130	None
Comparative Systems	G	300	GES130; L, U, or GES246; U

Contemporary Western Life and Thought	L	200	GES130 or GES244 <sup>2</sup>
Second Language	S	102	Placement exam
World Cultures	U	200	GES130 <sup>2</sup> or GES244 <sup>2</sup>
<b>Cross-Pillar Integrations:</b>			
Contemporary Christian Issues	P <sup>1</sup>	400	GES110; THE201; N; G, or GES246; N; G
Cross-Cultural Experience	Z	100-400	None
Western Humanity in Christian Perspective I-II	-	145	None
	-	147	GES145
Western Humanity in Christian Perspective III-IV	-	244	GES147
	-	246	GES244

<sup>1</sup> P course and Christianity and Western Culture requirements cannot be fulfilled through transfer courses.

<sup>2</sup> May be taken concurrently.

Letters (e.g., A, D) indicate a General Education category from which students select a course of their choice.

## Anthropology, Sociology, and Reconciliation Studies

The Department of Anthropology, Sociology, and Reconciliation Studies thoroughly integrates the methods and theories of anthropology and sociology in the study of social and cultural life. This approach prepares students to live and serve in our complex multicultural world of rapid urbanization, diverse religious voices, political conflict, and a widening gap between the haves and have-nots. Students are encouraged to use the tools of the social sciences to meet these challenges in the light of an informed Christian faith.

The department offers programs to engage this changing world by building an anthropological and sociological core, and applying these core understandings to real-world concerns such as crime, poverty, and racism. We offer majors in reconciliation studies and sociocultural studies with tracks in sociology and global and urban missions. Minors in the department include sociocultural studies, reconciliation studies, and cross-cultural mission.

### Majors in Anthropology, Sociology, and Reconciliation Studies

- B.A. in Reconciliation Studies (p. 44)
- B.A. in Sociocultural Studies (p. 44)
- B.A. in Third World Studies (p. 181) (See Multidisciplinary section)

### Minors in Anthropology, Sociology, and Reconciliation Studies

- Sociocultural Studies (p. 46)
- Cross-Cultural Mission (p. 45)
- Reconciliation Studies (p. 45)

**ANT200U • Introduction to Anthropology.** 3 Credits.

Study of humankind, with an emphasis on human social and cultural systems. Focus on one non-Western culture in anthropological perspective. Study of the discipline, methods, and theories of anthropology.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring.*

**ANT214U • Peoples and Cultures of Latin America.** 3 Credits.

Comparative ethnography of Latin America. A holistic study of the social structures and cultures existing in Latin America today, with special emphasis on one cultural group.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally.*

**ANT241UZ • Peoples and Cultures of Africa.** 4 Credits.

Comparative ethnography of contemporary African societies and cultures with particular reference to the Sub-Saharan region. Examination of Africa's geography and historical context. Topics include: politics and economies of the region, population and urbanization, social institutions, women's issues, the family, and religion.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall.*

**ANT242UZ • Peoples and Cultures of the United States.** 3 Credits.

Comparative ethnography of contemporary United States cultures. A study of cultural origins and development of cultures in this complex, multicultural society with specific focus on Native American, immigrant minority, and dominant majority cultures of the United States. Special attention given to the nature of this pluralistic society and processes of community formation.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall.*

**ANT301K • Human Origins and Diversity.** 3 Credits.

Fossil evidence for human origins and development. Human adaptation to the environment, human genetics, heredity, and comparison of humans to other primates.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**ANT305 • Intentional Urban Living I.** 2 Credits.

Intensive urban learning opportunity involving exploration and analysis of urban community, urban neighborhood social and political structures, and theological issues that arise in an urban context. Involves living in an urban neighborhood in Minneapolis or St. Paul and substantial interaction in the neighborhood.

*Offered: Fall.*

**ANT306 • Intentional Urban Living II.** 2 Credits.

Intensive urban learning opportunity involving exploration and analysis of urban community, urban neighborhood social and political structures, and theological issues that arise in an urban context. Involves living in an urban neighborhood in Minneapolis or St. Paul and substantial interaction in the neighborhood. Involves an individualized research project and/or action project focused on a change initiative.

*Offered: Spring.*

**ANT318G • The Urban Church.** 3 Credits.

Taught on site in cities around the world (e.g., Amsterdam). Students research the challenges of urban communities and help local churches develop church-based responses to these challenges. Intensive interaction with urban communities and churches. Method for applied and experiential learning in response to social needs.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Interim, odd # years.*

**ANT371GZ • Christianity in Cross-Cultural Perspective.** 4 Credits.

How Christian faith and practice are influenced by and expressed through social systems across the globe. Aspects of the social structure of selected Christian groups, both Western and non-Western, with emphasis on how these structures contribute to and result from Christian conversion, belief, values, and practice. Relational, cross-cultural intensive experience required to understand and apply learning.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.*

**ANT381G • Urbanism: A Way of Life.** 3 Credits.

Comparative study of urban life and urban social and cultural forces. Ways in which humans construct community; develop distinct urban lifestyles; and interact across social, ethnic, and religious boundaries. Special attention given to implications for urban planning, community development, and urban ministry.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Fall.*

**RES201 • Introduction to Reconciliation Studies.** 3 Credits.

Overview of theory and literature in the field, contributing factors leading to the need for reconciliation in our world, and paradigms for reconciliation praxis. Biblically based principles and processes for moving toward societal reconciliation. Cultural and religious diversity, conflict resolution, spiritual disciplines, social and economic justice issues (racism, sexism, classism), and related subjects are covered.

*Offered: Fall, spring.*

**RES207U • Martin Luther King Jr., Malcolm X, and Our Multicultural World.** 3 Credits.

Compares and contrasts the lives and messages of Martin Luther King, Jr. and Malcolm X with an application to the present world situation. Each leader is examined within the context of African-American culture and religion, the broader cultural diversity of the United States, and the rest of the world.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, spring.

**RES305 • Conflict Resolution and Mediation Skills.** 3 Credits.

Provides practical peacemaking and reconciliation skills relevant to helping Christians resolve conflict in a healthy, balanced way. Focus on using experiential learning to develop negotiation and mediation skills.

*Prerequisites:* RES201. Offered: Fall, spring.

**RES310Z • Conflict, Reconciliation, and the Church.** 3 Credits.

Ministry in an urban, multicultural context. Emphasizes biblical, theological, and historical themes of reconciliation, diversity, poverty, and justice. Experiences include homeless shelters, youth ministry centers, and the religious and cultural life of a major city.

*Prerequisites:* THE201; junior standing. Offered: Interim. *Special Notes:* Carries cross-credit in biblical and theological studies.

**RES315 • Social Responsibility in the Marketplace.** 3 Credits.

Using multidisciplinary perspective, the course explores the different ways and dimensions that businesses relate to society and the nature of reciprocal relationship (whether good or bad) between the two social entities. Examines contrasting ethical arguments in historical contexts about the role of business in society. Considerable time will be spent discussing ways that healthy relationships can be promoted between business and society for the benefit of both entities.

*Prerequisites:* [GES130; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Fall. *Special Notes:* Carries cross-credit in sociocultural studies.

**RES481 • Internship in Reconciliation Studies.** 3-4 Credits.

Practical learning experience to apply understanding and skills of reconciliation studies in a real-world setting.

*Prerequisites:* RES201; major in reconciliation studies; junior or senior standing. Offered: Spring.

**RES499 • Senior Seminar in Reconciliation Studies.** 4 Credits.

Prepares students to use the lenses of Christ-centered biblical "reconciliation" theology, critical thinking, multicultural perspectives, social change analysis, and conflict resolution skills for leadership in the work of reconciliation in society. Students study theoretical underpinnings of reconciliation studies and leadership models of reconciliation practice. A service-learning component is required.

*Prerequisites:* RES201; senior standing. Offered: Fall.

**SCS229U • Interaction with Urban Life and Systems.** 3 Credits.

Experientially based introduction to the religious, ethnic, and economic diversity of urban life. Formal and informal interrelationships of people living in the urban environment and various models for approaching urban ministry. Students explore the reality of living in urban life through intensive study of and interaction with a specific cultural group that lies outside the majority culture(s) found in North America. Students are encouraged to understand their own feelings and social roles.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Interim.

**SCS330G • Sociology of Third World Development.** 3 Credits.

Critically examines economic development theories and sociological issues for developing Third World countries. Strategies for promoting economic development and cultural change internationally, regionally, nationally, and locally. How changes intersect and affect Latin America, Africa, Asia, and the Middle East. Issues and processes involved in community development in a globalized society.

*Prerequisites:* Must be enrolled in Bethel's Guatemala Term program; [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.

**SCS340Z • Principles and Methods of Intercultural Leadership.** 4 Credits.

Grounded in a cross-cultural experience, focuses on practical principles and methods for intercultural visioning, administration, training, and communication for cross-cultural work. Emphasizes developing intercultural competencies needed for collaborative and mutually beneficial outcomes in diverse environments (e.g., mission or ministry; profit and not-for-profit; governmental or agency work).

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.

**SCS350 • Qualitative Research Methods.** 4 Credits.

Qualitative methodologies in the social sciences, with a particular focus in ethnographic field technologies. Interview and observation skills through field work in the Twin Cities area.

*Prerequisites:* World Cultures (U) course. Offered: Spring.

**SCS351 • Quantitative Research Methods.** 4 Credits.

Study of quantifying social life to answer research questions. Focus on structuring of inquiry (research design, conceptualization, measurement, sampling), modes of quantitative observation (experiments, survey research, content analysis, evaluation research), analysis of data (univariate, bivariate, and multivariate statistics), and research ethics. Students participate in actual quantitative research.

Offered: Fall.

**SCS361 • Sociocultural Theory.** 4 Credits.

Process of theory formation in the social sciences and concern with the relations between epistemology, analysis, and theory formation.

*Prerequisites:* One anthropology, sociology, or sociocultural studies course. Offered: Fall.

**SCS379G • Mission in the 21st Century.** 3 Credits.

Comparative analysis of the social and cultural nature of the modern mission enterprise, its history and development, structure, and dynamics. Introduction to principles of missiology. Exploration and analysis of the intercultural nature of missions, with particular attention paid to the contribution of both first- and third-world participants.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Fall.

**SCS385 • Cross-Cultural Exp Guatemala.** 4 Credits.

An intensive experience of living and communicating in another culture for a minimum of two months in Guatemala. Student is fully immersed in the culture as much as possible and is guided by a mentor from the host culture.

*Prerequisites:* Must be enrolled in Bethel's Guatemala Term program. *Grade exceptions:* Graded on an S/U basis. *Offered:* Guatemala Term, spring. *Special Notes:* Students may receive credit for only one of the following: SCS385, SCS387Z, or SCS389.

**SCS387Z • Cross Cultural Experience.** 4 Credits.

An intensive experience of living and communicating in another culture for a minimum of two months. Student is fully immersed in the culture as much as possible and guided by a mentor from the host culture.

*Prerequisites:* ANT200U; *Systems (G) course; application approved by the department prior to the experience. Grade exceptions:* Graded on an S/U basis. *Offered:* Occasionally. *Special Notes:* Students may receive credit for only one of the following: SCS385, SCS387Z, or SCS389.

**SCS389 • Cross-Cultural Missions Practicum.** 4 Credits.

An intensive ministry experience in a cross-cultural setting for a minimum of one month. Student is fully immersed in the culture, involved in hands-on ministry, and is guided by a mentor from the host culture.

*Prerequisites:* consent of department. *Grade exceptions:* Graded on an S/U basis. *Offered:* Occasionally. *Special Notes:* Students may receive credit for only one of the following: SCS385, SCS387Z, or SCS389.

**SCS481 • Internship in Sociocultural Studies.** 1-4 Credits.

A culminating experience to put to use knowledge and skills gained during studies done in the department. A guided research project is completed in consultation with members of the department.

*Prerequisites:* Major in sociocultural studies; junior or senior standing. *Offered:* Spring.

**SCS499 • Senior Seminar.** 4 Credits.

A culminating experience to put to use knowledge and skills gained during studies done in the department. A guided research project is completed in consultation with members of the department.

*Prerequisites:* Major in sociocultural studies; two of the following courses: SCS350, SCS351, SCS361; senior standing. *Offered:* Spring.

**SOC101 • Introduction to Sociology.** 3 Credits.

Major concepts, theories, methodologies, findings, controversies, and history of sociology. Contributions of sociology to Christian life and thought.

*Offered:* Fall, spring.

**SOC304G • Sociology of Crime and Deviance.** 3 Credits.

Introduction to comparative criminal justice systems, and the role of the police, the courts, and correction institutions in both developed and developing societies. Cross-cultural and comparative analysis of theories and data used to analyze criminal behavior and deviance. How the media and crime-control agencies shape understanding of crime.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Fall, even # years.

**SOC315 • Social Responsibility in the Marketplace.** 3 Credits.

Using a multi-disciplinary perspective, the course explores the different ways and dimensions that businesses relate to society and the nature of reciprocal relationship (whether good or bad) between the two social entities. Examines contrasting ethical arguments in historical contexts about the role of business in society. Considerable time will be spent discussing ways that healthy relationships can be promoted between business and society for the benefit of both entities.

*Prerequisites:* [GES130; *World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Fall. *Special Notes:* Carries cross-credit in reconciliation studies.

**SOC324 • Criminal Justice in American Society.** 3 Credits.

Grounded in the philosophy of criminal law, theories of deviance, and the nature and extent of crime in America, students are introduced to the American criminal justice system. Examination of the theory, structure, and operation of its principal components. Assessment of how well this system serves the aims of justice.

*Offered:* Spring.

**SOC342G • Race, Ethnicity, and Peacemaking.** 3 Credits.

Exploration of the historical development of race and ethnicity as distinct but related social constructs. Analysis of the differential impact of race and ethnicity on groups and individuals. Appreciation of voices of peacemakers from both majority and minority groups.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Spring.

**SOC372G • Religion in Society.** 3 Credits.

Comparative cross-cultural study of the social and cultural bases of religion in advanced industrial societies and non-Western cultures. Characteristic myths, beliefs, practices, and rituals of religious systems; the relationship between religious and other dimensions of social life; the factors underlying the development, persistence, manipulation, and change of religious organizations.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Interim.

## B.A. in Reconciliation Studies

RES201	Introduction to Reconciliation Studies	3
RES305	Conflict Resolution and Mediation Skills	3
RES481	Internship in Reconciliation Studies	3
RES499	Senior Seminar in Reconciliation Studies	4
SCS340Z	Principles and Methods of Intercultural Leadership <sup>1</sup>	4
BIB308J	Biblical Theology of Reconciliation <sup>1</sup>	3
Select one of the following research methods courses:		4
SCS350	Qualitative Research Methods	
SCS351	Quantitative Research Methods	
Select one of the following gender reconciliation courses:		3
HIS245L	History of Women in America <sup>1</sup>	
PHI220L	Philosophies of Race and Gender in America <sup>1</sup>	
PHI223L	Introduction to Gender Studies <sup>1</sup>	
Select one of the following racial reconciliation courses:		3
GES450P	Reconciliation in a Racialized Society <sup>1</sup>	
RES207U	Martin Luther King Jr., Malcolm X, and Our Multicultural World <sup>1</sup>	
SOC342G	Race, Ethnicity, and Peacemaking <sup>1</sup>	
Select one of the following class reconciliation courses:		3
RES315	Social Responsibility in the Marketplace	
SOW327G	Social Perspective, Human Worth, and Social Action <sup>1</sup>	
Select one of the following off-campus program options: <sup>2</sup>		14-16
Guatemala Term (spring - 15 credits)		
HECUA USA Term (fall, spring - 14-16 credits)		
Middle East Studies Program of the CCCU (fall, spring - 16 credits)		
Northern Ireland Term at Ulster University (fall, spring - 14-16 credits)		
General Electives		51-52
Electives		24-27
<b>Total Credits</b>		<b>122-128</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Students must meet the requirements for study abroad program participation.

## B.A. in Sociocultural Studies

ANT242UZ	Peoples and Cultures of the United States <sup>1</sup>	3
ANT200U	Introduction to Anthropology <sup>1</sup>	3
or SOC101	Introduction to Sociology	
ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	3-4
or ANT241UZ	Peoples and Cultures of Africa	
SCS350	Qualitative Research Methods	4
SCS351	Quantitative Research Methods	4
SCS361	Sociocultural Theory	4
SCS481	Internship in Sociocultural Studies	3
SCS499	Senior Seminar	4
Select one of the following tracks:		18-21

Sociology Track		
SOC101	Introduction to Sociology	
Select 9 credits from 300-level or above SOC courses		
Select 9 credits from 300-level or above ANT, REC, SOC, or SCS courses		
Global & Urban Missions Track		
ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	
ANT381G	Urbanism: A Way of Life <sup>1</sup>	
SOC372G	Religion in Society <sup>1</sup>	
SCS379G	Mission in the 21st Century <sup>1</sup>	
SCS340Z	Principles and Methods of Intercultural Leadership <sup>1</sup>	
Select one of the following:		
ANT318G	The Urban Church <sup>1</sup>	
ECO225L	The Redevelopment of Central City Neighborhoods <sup>1</sup>	
REL401	Christianity and the World's Religions	
SCS330G	Sociology of Third World Development <sup>1</sup>	
MIN328	Missional Theology	
General Education		51-52
Electives		25-30
<b>Total Credits</b>		<b>122-132</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

It is highly recommended that a student majoring in sociocultural studies take at least one year of a modern world language.

## Minor in Cross-Cultural Mission

ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	4
MIN328	Missional Theology	3
SCS340Z	Principles and Methods of Intercultural Leadership <sup>1</sup>	4
SCS379G	Mission in the 21st Century <sup>1</sup>	3
SCS389	Cross-Cultural Missions Practicum	4
Select one of the following:		3
REL205U	Religions of India, China and Japan <sup>1</sup>	
THE401	Christianity and the World's Religions	
ANT318G	The Urban Church <sup>1</sup>	
REL225L	New Religious Movements <sup>1</sup>	
SOC372G	Religion in Society <sup>1</sup>	
(Other courses with a mission focus may be petitioned into this category)		
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A student may also use this course to meet a General Education requirement.

## Minor in Reconciliation Studies

RES201	Introduction to Reconciliation Studies	3
RES305	Conflict Resolution and Mediation Skills	3
SCS340Z	Principles and Methods of Intercultural Leadership <sup>1</sup>	4
Select one of the following:		3-4
BIB308J	Biblical Theology of Reconciliation <sup>1</sup>	
GES450P	Reconciliation in a Racialized Society <sup>1</sup>	
RES207U	Martin Luther King Jr., Malcolm X, and Our Multicultural World <sup>1</sup>	
SOC342G	Race, Ethnicity, and Peacemaking <sup>1</sup>	
Select one of the following:		3-4
ANT242UZ	Peoples and Cultures of the United States <sup>1</sup>	

ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	
ANT381G	Urbanism: A Way of Life <sup>1</sup>	
ENL313	Studies in American Literature: The Harlem Renaissance	
ENL315G	Literature of the Oppressed <sup>1</sup>	
GES312G	Disability and Society <sup>1</sup>	
HIS210U	Minorities in America <sup>1</sup>	
PSY308G	Cross-Cultural Psychology <sup>1</sup>	
SPA301U	Hispanic Cultures	
Select one of the following:		3
BIB309J	A Biblical Theology of Poverty <sup>1</sup>	
BIB313J	A Biblical Theology of Justice <sup>1</sup>	
COM314G	Gender Communication <sup>1</sup>	
HIS245L	History of Women in America <sup>1</sup>	
HIS324G	Human Rights in International History <sup>1</sup>	
RES/SOC 315	Social Responsibility in the Marketplace	
SOW327G	Social Perspective, Human Worth, and Social Action <sup>1</sup>	
<b>Total Credits</b>		<b>19-21</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Sociocultural Studies

ANT242UZ	Peoples and Cultures of the United States <sup>1</sup>	3
ANT200U	Introduction to Anthropology <sup>1</sup>	3
or SOC101	Introduction to Sociology	
ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	3-4
or ANT241UZ	Peoples and Cultures of Africa	
SCS350	Qualitative Research Methods	4
or SCS351	Quantitative Research Methods	
Select electives from 200-level or above in ANT, SOC, or SCS courses		6
<b>Total Credits</b>		<b>19-20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Art and Design

The Department of Art and Design uses hands-on creative action as a means of learning and investigation. Utilizing a variety of media and methods, we seek to understand, relate to, and shape the world through objects and visual communications. Encountering art history, contemporary studio practice, and exhibitions, students are taught ways of making objects in order to seek knowledge in its many perceptual, conceptual, social, and spiritual varieties. The department works to hone technical skill alongside creative ideas within and across traditional media. We serve students who wish to pursue the study of the arts through several degree options: for pursuing teaching, the Visual Arts Education K-12 major leading to licensure; for those incorporating visual studies into their broad liberal arts education, the Bachelor of Arts major or the art minor; for those pursuing the studio arts as a profession, the Bachelor of Fine Arts; for those pursuing a career in design, the Bachelor of Arts in Graphic Design. For a student pursuing a career in art history and curatorial work, an individualized major is available that combines art history courses and a deep emphasis in a secondary field (e.g., history, language, philosophy) plus basic reading knowledge in two languages. In all the degrees, students will develop an expertise in a medium of their preference: graphic design, painting, sculpture, photography, print-making, drawing, ceramics, or art history.

In addition to a full set of course offerings in studio arts, graphic design, and art history, the Department of Art and Design also manages two gallery programs and Bethel's Permanent Collection. Together, the Eugene and Leona Olson Gallery and the Eugene Johnson Gallery of Art offer exhibitions on campus in a wide range of media by ethnically diverse artists of regional, national, and global reputations. The Visiting Artist Lecture Series is a rich component of both gallery programs, allowing students to interact with artists from the art community-at-large through formal lectures and informal dialogues. Gallery assistantships or internships with Bethel's Permanent Collection and with museums or galleries in the Twin Cities offer hands-on experience. Visit <https://www.bethel.edu/galleries> for more information and a list of current exhibits.

## Majors in Art and Design

- B.A. in Art (p. 50)



- B.F.A. in Art (p. 53)
- B.A. in Graphic Design (p. 51)
- B.A. in Visual Arts Education K-12 (p. 52)

## Minors in Art and Design

- Art (Studio Emphasis) (p. 53)
- Art (Art History Emphasis) (p. 53)
- Graphic Design (p. 54)

### **ART100A • Two-Dimensional Visual Thinking.** 3 Credits.

An exploration of two-dimensional visual expression and organization. The elements and principles of design are studied and applied through a variety of materials and processes. Introduction to critique and visual thinking.

*Offered: Fall, spring.*

### **ART101A • Three-Dimensional Visual Thinking.** 3 Credits.

Diverse materials, methods, and media are explored and developed into three-dimensional form with expressive intent.

*Offered: Fall, interim, spring.*

### **ART103A • Drawing.** 3 Credits.

Development of visual perception through observation, drawing, and a study of structural form and space relationships. Experiences in line, value, texture, basic perspective, and composition using various materials and techniques.

*Offered: Fall, spring.*

### **ART106A • Screen Printing.** 3 Credits.

Screen printing as a means of creating hand-printed multi-color fine art prints. Methods include handmade and photo emulsion stencilling and studio art practice.

*Offered: Occasionally interim.*

### **ART107A • Clay Forms.** 3 Credits.

A studio workshop for both art and non-art majors. Exploration of visual ideas in clay and of the creative process. Individual and group projects, along with discussions and critiques. Various hand-building techniques demonstrated. Emphasis placed on uniting color with form in utilitarian and non-utilitarian objects. Wheel throwing is not emphasized but is optional for those with previous experience.

*Offered: Interim.*

### **ART108A • Ceramics.** 3 Credits.

The craft and creative possibility of working in clay. Includes the methods of throwing on the wheel, hand-building techniques, glazing procedures, and kiln loading.

*Offered: Fall, spring.*

### **ART109A • Seeing Photographically.** 3 Credits.

Learn to see and think photographically. Study what makes a photograph distinct. Master elements of design and composition specific to photographic image-making, present and discuss photographs online, make photographs anywhere, and use a range of available cameras, whether DSLR or camera phone.

*Offered: Summer.*

### **ART120A • Photography in Spain.** 3 Credits.

Technical and conceptual acquaintance with the medium of photography and its vocabulary within the realm of high art. Includes camera operation, black and white film developing, black and white print processing, and print finishing.

*Offered: Spain Term, fall. Special Notes: Course taught in Spanish. Carries cross-credit in Modern World Languages.*

### **ART203 • Drawing II.** 3 Credits.

Advanced work in the drawing medium, with emphasis on individual conceptual development and material exploration.

*Prerequisites: ART103A. Offered: Spring.*

### **ART206 • Sculpture.** 4 Credits.

Basic sculptural concepts, processes, and materials within the studio experience. Modeling from life, casting, and carving are introduced.

*Offered: Fall, spring.*

### **ART208 • Ceramics II.** 4 Credits.

Use of clay as a medium for art forms. Instruction includes glaze formulation and study of kiln and firing techniques.

*Prerequisites: ART108A. Offered: Spring.*

### **ART210 • Painting.** 4 Credits.

An introduction to the fundamentals of painting and personal painting practices. Students develop subject matter, as well as the ability to organize pictorial space and compositional ideas.

*Prerequisites: ART100A or ART103A. Offered: Fall, spring.*



**ART215 • Artist Books and Publications.** 3 Credits.

Explores various book forms (hardcover, softcover, newspaper, magazine, and sculptural forms) as an artistic medium engaging sequence, narrative, time, text, and image. Engages the history of artists' books as artworks. Students learn a number of forms for making one-of-a-kind and large edition books.

*Prerequisites: ART100A or DES105. Offered: Fall, even # years.*

**ART220 • Printmaking: Intaglio and Monoprints.** 3 Credits.

Individual concepts, personal expression, composition, and drawing are explored through copper plate intaglio and monoprint. Students gain experience in dry point, etching, aquatint, lift ground, and soft ground processes as well as in painterly monoprinting techniques.

*Prerequisites: ART100A or ART103A. Offered: Fall.*

**ART230 • Printmaking: Relief and Lithography.** 3 Credits.

Individual concepts, personal expression, and composition are explored through relief and lithography techniques. Students create images using large scale multicolor, wood, and linoleum techniques, as well as aluminum and polyester plate lithography.

*Prerequisites: ART100A or ART103A. Offered: Spring.*

**ART235 • Video Art.** 4 Credits.

Produce and present original video art works, both individually and collaboratively. Investigate a variety of video works, including experimental film from the 1920s as well as contemporary video pieces from the last decade. Basic skills in video and audio software are developed through studio practice.

*Prerequisites: ART100A, ART109A, ART250A, or consent of instructor. Offered: Interim.*

**ART240 • Creative Practices.** 3 Credits.

Exploration of creative processes that moves past introductory ways of generating visual ideas to developing self-sustaining and self-directed investigation and enriching techniques for the artist.

*Prerequisites: Must be taken concurrently with another 200-level or above studio course. Offered: Spring.*

**ART250A • Introduction to Photography.** 3 Credits.

Photography as a means of aesthetic and conceptual ideas within the fine arts, rather than for family and vacation snapshots, through both digital and analog forms. Includes technical instruction in camera operation, black and white film developing, printing, and basic Adobe Photoshop. Introduction to photo history and contemporary theory.

*Offered: Fall, spring.*

**ART303 • Drawing III.** 4 Credits.

Advanced work in the drawing medium, with emphasis on individual conceptual development and material exploration.

*Prerequisites: ART203. Offered: Spring.*

**ART306 • Sculpture II.** 4 Credits.

Self-directed studio research, with particular attention to individual conceptual development.

*Prerequisites: ART206. Offered: Fall, spring.*

**ART308 • Ceramics III.** 4 Credits.

Use of clay as a medium for art forms. Instruction includes glaze formulation and study of kiln and firing techniques.

*Prerequisites: ART208. Offered: Spring.*

**ART310 • Painting II.** 4 Credits.

A continued exploration of painting, including various material experiments and exposure to new processes. Emphasis on the development of visual vocabulary and understanding of contemporary issues in painting. Invention and investigation are stressed.

*Prerequisites: ART210. Offered: Spring.*

**ART311 • Printmaking II.** 4 Credits.

Advanced work in selected media with emphasis on individual research and development.

*Prerequisites: ART220 or ART230. Offered: Fall, spring.*

**ART330 • Advanced Black & White Photography.** 4 Credits.

Individual aesthetic and conceptual development within the photographic medium, advanced black and white printing skills, and investigation of photo history and critical theory (as it relates to photography).

*Prerequisites: ART250A or consent of instructor. Offered: Spring.*

**ART332 • Advanced Digital Photography.** 4 Credits.

Individual aesthetic and conceptual development within the photographic medium, advanced skills in digital photography processes, and investigation of photo history and critical theory (as it relates to photography).

*Prerequisites: ART250A. Offered: Spring.*

**ART334 • Photo Manipulation.** 3 Credits.

Introduction to use and manipulation of photography in contemporary art practice. Utilizing photographs for conceptual ends, examining process, materiality, and the truth value of photography. Advanced skills developed with the camera, scanners, Adobe Photoshop, and ink jet printers. Software used to alter, manipulate, and composite photographs.

*Prerequisites: ART250A. Offered: Interim.*

**ART403 • Drawing IV.** 4 Credits.

Advanced work in the drawing medium, with emphasis on individual conceptual development and material exploration.

*Prerequisites: ART303. Offered: Spring.*

**ART406 • Sculpture III.** 4 Credits.

Self-directed studio research, with particular attention to individual conceptual development.

*Prerequisites: ART306. Offered: Fall, spring.*

**ART408 • Ceramics IV.** 4 Credits.

Use of clay as a medium for art forms. Instruction includes glaze formulation and study of kiln and firing techniques.

*Prerequisites: ART308. Offered: Spring.*

**ART410 • Painting III.** 4 Credits.

A continued exploration of painting, including various material experiments and exposure to new processes. Emphasis on the development of visual vocabulary and understanding of contemporary issues in painting. Invention and investigation are stressed.

*Prerequisites: ART310. Offered: Spring.*

**ART411 • Printmaking III.** 4 Credits.

Advanced work in selected media with emphasis on individual research and development.

*Prerequisites: ART311. Offered: Fall, spring.*

**ART419 • Photography Portfolio.** 4 Credits.

Individual aesthetic and conceptual development of personal vision into a professional portfolio, and investigation of photo history and critical theory (as it relates to individual student's portfolio).

*Prerequisites: ART330, ART332, ART334, or consent of instructor. Offered: Spring.*

**ART481 • Internship in Art.** 3-4 Credits.

Educational and practical experience in applying understanding and skill in an off-campus, professional setting. An internship can be arranged in advertising studios, agencies, printmaking studios, artists' studios, and art museums. Supervised by an art faculty member.

*Prerequisites: Seven studio art courses; major in art; consent of department. Offered: Fall or spring.*

**ART498 • Professional Practices.** 3 Credits.

Prepares students to continue their own studio practice after graduation and to enter into graduate school, exhibitions, grants, and residencies.

Teaches students the skills for presenting their work in a professional and compelling manner within the forms and procedures expected from the art world.

*Prerequisites: Major in art; consent of department. Offered: Spring.*

**ART499 • Senior Seminar/Thesis Exhibition.** 3 Credits.

Development of creative independence in a studio experience. Culminates in the senior exhibition program or portfolio.

*Prerequisites: Major in art; consent of department. Offered: Fall.*

**DES105 • Introduction to Digital Media.** 3 Credits.

Understand the tools and concepts of digital art-making and graphic design with an emphasis on foundational proficiency in industry standard software and hardware. Utilize and combine digital tools to solve visual and technical problems as part of a growing design and studio art practice.

*Offered: Fall, spring.*

**DES150 • Typography.** 3 Credits.

Typography—the visual presentation of language—is a foundational component of graphic design. Identify and investigate basic principles and communicative potential through project-based exploration of the following topics: terminology, letterforms, readability, hierarchy, structure, visual syntax, history, and context.

*Offered: Fall.*

**DES212 • Graphic Design I.** 3 Credits.

Explore the foundational visual components of design and their communicative and creative potential through visual experiments, isolated studies, and careful observation. Develop original content through a design process that includes idea generation, material experimentation, evaluation, and iteration.

*Prerequisites: DES105. Offered: Fall, spring.*

**DES312 • Graphic Design II.** 3 Credits.

Combine and extend basic design and typography principles through a range of real-world project scenarios. Engage with clients and manage projects from initial ideation through production stages. Special attention to strategizing, problem-defining and solving, collaboration, client interaction, and production.

*Prerequisites: DES212. Offered: Spring, odd # years.*

**DES322 • Digital Image Making.** 3 Credits.

Develop advanced methods for brainstorming and creating engaging, communicative professional images. Through exposure to a broad range of techniques, collaboration, critique, and revision, work is advanced and personal image making processes are established.

*Prerequisites: DES212. Offered: Interim.*

**DES324 • Interactive Design.** 3 Credits.

Develop and maintain a variety of interactive projects including websites, digital publishing, interactive documents, and applications. Work collaboratively to strategize solutions for complex projects that identify and respond to users' needs. Understand and adapt to the rapid evolution of technology through research and self-teaching.

*Prerequisites: DES312 or consent of instructor. Offered: Fall.*

**DES412 • Graphic Design III.** 3 Credits.

Engage complex open-ended design problems in a collaborative environment. Utilize research, prototyping, and user interaction to develop efficient and scalable solutions. Develop personal design approach, values, ethical convictions, and portfolio materials.

*Prerequisites: DES312 or consent of instructor. Offered: Spring, even # years.*

**DES481 • Internship in Design.** 3,4 Credits.

Educational and practical experience in applying understanding and skill in a professional setting. An internship can be arranged in a design studio, advertising firm, non-profit organization, or other appropriate workplace. Supervised by a design faculty member.

*Prerequisites: Five DES courses or consent of instructor; major in graphic design. Offered: Fall, spring.*

**ARH105 • Survey of Western Art History from Caves to World War II.** 4 Credits.

Survey of Western art history from prehistoric painting to World War II, examining major developments, artists, aesthetic concepts, stylistic practices, and use of materials within their respective social contexts.

*Offered: Spring.*

**ARH201 • Religion and Art in Asia.** 3 Credits.

Examination of artistic expressions of the major religious traditions of India, China, Japan, and Southeast Asia. Definitions of "religion" and "art" provide a guide for identifying and understanding Asian architecture, statuary, and paintings. Doctrinal and ritual elements of the major traditions are explained, and art that symbolizes and expresses these elements is analyzed.

*Offered: Spring, even # years. Special Notes: Carries cross-credit in religious studies.*

**ARH220 • Art History - Ancient Through Medieval.** 3 Credits.

Western art from the prehistoric through the Gothic periods, dealing with those cultures that have been the basis of Western European art. Prehistoric, Egyptian, Ancient Near Eastern, Aegean, Greek, Roman, Early Christian, Romanesque, and Gothic art.

*Offered: Fall, odd # years.*

**ARH221 • Art History - American Art.** 3 Credits.

Painting, sculpture, and architecture of the United States from colonial times to World War II, with particular reference to European influences and indigenous qualities.

*Prerequisites: GES130 or GES244. Offered: Spring, even # years.*

**ARH320 • Art History - Renaissance Through Rococo.** 3 Credits.

Ideals and styles that mark the development of Western art from the early Renaissance in 14th century Italy, through subsequent movements in southern and northern European art, until the middle of the 18th century.

*Offered: Spring, odd # years.*

**ARH321 • Art History - 19th and 20th Century Europe.** 3 Credits.

Development of modern art, beginning with Neoclassicism and Romanticism, through Realism, Impressionism, and Post-Impressionism in the 19th century. In the 20th century, the major movements of Cubism and its offshoots, Expressionism, Dadaism, and Surrealism.

*Offered: Fall, even # years.*

**ARH345 • Art History - World War II to Present.** 3 Credits.

Multiple developments of art in the contemporary period, defined as post-World War II to the present. Painting, sculpture, happenings, performance, conceptual art, mixed media art, video, and photography in America and Europe are investigated. Attention is also given to changes in theoretical attitudes from Modernism through Postmodernism.

*Offered: Fall.*

## B.A. in Art

ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
ART101A	Three-Dimensional Visual Thinking <sup>1</sup>	3
ART103A	Drawing <sup>1</sup>	3
ART203	Drawing II	3
ART206	Sculpture	4
ART210	Painting	4
ART240	Creative Practices <sup>2</sup>	3
ART250A	Introduction to Photography <sup>1</sup>	3
ART499	Senior Seminar/Thesis Exhibition	3
ARH105	Survey of Western Art History from Caves to World War II	4

DES105	Introduction to Digital Media	3
Select two Art History courses 200-level or above		6
Select from ART or DES studio electives:		12
ART108A	Ceramics <sup>1</sup>	
ART235	Video Art	
200-level or above studio electives or internship course		
ART220 or ART230	Printmaking: Intaglio and Monoprints Printmaking: Relief and Lithography	3
PHI310	Aesthetics	3
General Education		51-52
Electives		11-12
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Must be taken concurrently with a 200-level studio course.

## B.A. in Graphic Design

ARH105	Survey of Western Art History from Caves to World War II	4
ARH345	Art History - World War II to Present	3
ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
ART103A	Drawing <sup>1</sup>	3
ART230	Printmaking: Relief and Lithography	3
ART240	Creative Practices <sup>2</sup>	3
ART334	Photo Manipulation	3
ART499	Senior Seminar/Thesis Exhibition	3
DES105	Introduction to Digital Media	3
DES150	Typography	3
DES212	Graphic Design I	3
DES312	Graphic Design II	3
DES322	Digital Image Making	3
DES324	Interactive Design	3
DES412	Graphic Design III	3
BUS220	Principles of Marketing	4
Select three of the following:		9-10
ART101A	Three-Dimensional Visual Thinking <sup>1</sup>	
ART106A	Screen Printing <sup>1</sup>	
ART250A	Introduction to Photography <sup>1</sup>	
ART203	Drawing II	
ART206	Sculpture	
ART210	Painting	
ART215	Artist Books and Publications	
ART220	Printmaking: Intaglio and Monoprints	
ART235	Video Art	
DES481	Internship in Design	
Select three-four courses from one of the following categories:		9-14
Anthropology/Sociology		
ANT200U	Introduction to Anthropology <sup>1</sup>	
ANT381G	Urbanism: A Way of Life <sup>1</sup>	
RES315	Social Responsibility in the Marketplace	
SCS340Z	Principles and Methods of Intercultural Leadership <sup>1</sup>	
SCS350	Qualitative Research Methods	
Business		

BUS318G	Global Marketing <sup>1</sup>	
BUS319	Advertising and Promotion	
BUS321	Marketing Research	
BUS324	Consumer Behavior	
Communication		
COM210	Perspectives on Human Communication	
COM310K	Communication, Technology and Society <sup>1</sup>	
COM170A	Media Production I <sup>1</sup>	
ENW115	Reporting I	
COM355Z	Intercultural Communication	
COM350	Corporate Communication	
ENW205A	Essay Writing <sup>1</sup>	
General Education		51-52
Electives		3-6
<b>Total Credits</b>		<b>122-132</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Must be taken concurrently with a 200-level studio course.

## B.A. in Visual Arts Education K-12

ARH105	Survey of Western Art History from Caves to World War II	4
ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
ART101A	Three-Dimensional Visual Thinking <sup>1</sup>	3
ART103A	Drawing <sup>1</sup>	3
ART210	Painting	4
ART499	Senior Seminar/Thesis Exhibition	3
DES105	Introduction to Digital Media	3
ART107A	Clay Forms	3
or ART108A	Ceramics	
ART or DES studio electives (minimum 7 credits, at least 4 of which must be 200-level or above)		7
Art History courses (minimum 6 credits-not including ARH105)		6
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU413	Methods in Teaching K-12 Art	3
EDU414	Middle Level Education Practicum in Art	1
EDU490	Student Teaching Block	15
General Education		51-52
<b>Total Credits</b>		<b>127-128</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Because of possible double counting between General Education and the major, the actual total can be reduced to 124-125 credits.

Students majoring in visual arts education K-12 must cover six different studio areas with emphasis in two.

Students must earn a grade of C or better in each content area and education course (ART, ARH, EDU) in the major. Courses with grades of C- or lower must be repeated.

Each student majoring in visual arts education K-12 must fulfill the Speaking Competency in one of the art history courses. See course syllabus for details.

Students with K-12 licensure in Visual Arts Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.F.A. in Art

ARH105	Survey of Western Art History from Caves to World War II	4
ARH345	Art History - World War II to Present	3
Select two Art History elective courses (not including ARH105, ARH345)		6
ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
ART101A	Three-Dimensional Visual Thinking <sup>1</sup>	3
ART103A	Drawing <sup>1</sup>	3
ART203	Drawing II	3
ART206	Sculpture	4
ART210	Painting	4
ART240	Creative Practices <sup>2</sup>	3
ART250A	Introduction to Photography <sup>1</sup>	3
ART498	Professional Practices	3
ART499	Senior Seminar/Thesis Exhibition	3
DES105	Introduction to Digital Media	3
PHI310	Aesthetics	3
ART220	Printmaking: Intaglio and Monoprints	3
or ART230	Printmaking: Relief and Lithography	
Select either ART or DES studio electives or internship course		15-16
General Education		51-52
Electives		2-4
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Must be taken concurrently with a 200-level studio course.

## Minor in Art (Art History Emphasis)

ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
or ART101A	Three-Dimensional Visual Thinking	
ART103A	Drawing <sup>1</sup>	3
Art History courses		9
ART or DES studio or ARH elective		3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Art (Studio Emphasis)

ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
or ART101A	Three-Dimensional Visual Thinking	
ART103A	Drawing <sup>1</sup>	3
Art History courses (minimum 6 credits)		6
Studio electives (minimum 7 credits, at least 3 of which must be 200 level or above)		7
<b>Total Credits</b>		<b>19</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Graphic Design

ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
ARH345	Art History - World War II to Present	3
DES105	Introduction to Digital Media	3
DES150	Typography	3
DES212	Graphic Design I	3
DES312	Graphic Design II	3
DES322 or DES324	Digital Image Making Interactive Design	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Biblical and Theological Studies

Biblical and theological studies form an essential part of a liberal arts education. They put students into contact with the historical foundations of the Christian faith in the Old and New Testaments and introduce the great doctrines of Christianity, which have been formulated in the church and have been expounded and debated by theologians past and present. They provide a forum in which the foundation and content of students' faith can be examined and an opportunity for students to understand the teachings of the most significant world religions. Students in biblical and theological studies are also encouraged to see the value of learning one or more of the languages in which the Christian Scriptures were written (Greek and Hebrew).

Besides its service to students within the liberal arts curriculum, the Department of Biblical and Theological Studies aims to prepare students for seminary or other graduate studies in fields related to theology, to provide biblical and theological background for other ministries that students may enter without a graduate degree, and to enrich the life and ministry of the church by equipping educated laypeople with the tools for lifelong Bible study.

## Majors in Biblical and Theological Studies

- B.A. in Biblical and Theological Studies (p. 60)
- B.A. in Missional Ministries (p. 61)
- B.A. in Third World Studies (p. 181) (see Multidisciplinary section)

## Minors in Biblical and Theological Studies

- Biblical and Theological Studies (p. 62)
- Biblical Greek (p. 62)
- Biblical Languages (Hebrew and Greek) (p. 62)
- Religious Studies (p. 219) (See Religious Studies section)

### **BIB101 • Introduction to the Bible.** 3 Credits.

Traces the journey of God's people from Abraham and Sarah through the New Testament church, highlighting the unifying self-disclosure of God in the various cultures and types of writing of the Old and New Testaments. A holistic approach is used to introduce students to both historical and thematic content as well as broad but basic exegetical principles.

*Offered: Fall, interim, spring.*

### **BIB205 • Introduction to Spiritual Formation.** 3 Credits.

Examines key Old and New Testament texts undergirding Christian spirituality, differentiating it from other forms of spirituality. The study and practice of historic spiritual disciplines and readings of classic and contemporary works in Christian spirituality, including African, Asian, Hispanic, and European perspectives.

*Prerequisites: BIB101 Offered: Spring, even # years.*

### **BIB206 • Spiritual Formation Practicum I.** 1 Credits.

Participation in spiritually-formative activities including spiritual formation groups, spiritual direction, mentorships, retreats, ministry and service opportunities. Requires 45 hours of supervised activities and meetings with supervisor. Taught in partnership with the Office of Campus Ministries.

*Prerequisites: Sophomore standing Corequisites: BIB205 Offered: Fall, interim, spring.*

### **BIB207 • Spiritual Formation Practicum II.** 1 Credits.

Participation in spiritually-formative activities including spiritual formation groups, spiritual direction, mentorships, retreats, ministry and service opportunities. Requires 45 hours of supervised activities and meetings with supervisor. Taught in partnership with the Office of Campus Ministries.

*Prerequisites: Sophomore standing Corequisites: BIB205 Offered: Fall, interim, spring.*



**BIB208 • Spiritual Formation Practicum III.** 1 Credits.

Participation in spiritually-formative activities including spiritual formation groups, spiritual direction, mentorships, retreats, ministry and service opportunities. Requires 45 hours of supervised activities and meetings with supervisor. Taught in partnership with the Office of Campus Ministries.

*Prerequisites: Sophomore standing Corequisites: BIB205 Offered: Fall, interim, spring.*

**BIB210 • History of Ancient Israel.** 3 Credits.

Focus on the history of the coastlands along the southern half of the eastern Mediterranean from the Early Bronze through the Maccabean eras, with an emphasis on the rise and history of ancient Israel.

*Prerequisites: BIB101 Offered: Fall or spring.*

**BIB212 • Reading the Hebrew Bible.** 3 Credits.

Study of select foundational themes and difficult areas for Christians reading the Hebrew Bible today, with an introduction to a range of methods in interpretation. Topics discussed may include: creation, capital punishment, social justice, violence and holy war, and the status of women.

*Prerequisites: BIB101 Offered: Fall or spring.*

**BIB220 • The Pentateuch.** 3 Credits.

Mosaic books of the Old Testament, with particular interest in the Genesis account of world beginnings, the Patriarchs, the Exodus and founding of the nation of Israel, and the faith and religion of the Hebrews.

*Prerequisites: BIB101 Offered: Occasionally.*

**BIB230Z • Israel Study Tour.** 3 Credits.

Historical geography and onsite investigation of the Holy Land with emphasis on sites from the Early Bronze through Byzantine eras. Particular emphasis on sites that underlie the Hebrew Bible, the intertestamental period, and the New Testament.

*Prerequisites: BIB101 Offered: Occasionally interim.*

**BIB236 • Archaeology of the Southern Levant.** 3 Credits.

Objectives, history, methodology, and results of archaeology of the coastlands along the southern half of the eastern Mediterranean from the Early Bronze through Early Roman eras.

*Prerequisites: BIB101. Offered: Occasionally.*

**BIB240 • Topics in Biblical Studies.** 3 Credits.

Study of a biblical area or topic. The specific subject is announced when the course is offered.

*Prerequisites: BIB101 Offered: Occasionally.*

**BIB260 • The Life and Teachings of Jesus.** 3 Credits.

Main events of the life of Jesus and the form and message of His teaching in the light of first century Jewish culture. Use of the Old Testament in the gospels, the structure of the gospels, and their literary genre.

*Prerequisites: BIB101. Offered: Fall or spring.*

**BIB264Z • Greece-Turkey Study Tour.** 3 Credits.

Onsite investigation of the sites and regions that underlie the people, movements, and events of the Early Christian era. The area is examined in light of the historical, geographical, and rich cultural context of the classical Greek and Roman worlds.

*Prerequisites: BIB101. Offered: Occasionally, Interim.*

**BIB265 • The Life and Teachings of Paul.** 3 Credits.

Life of Paul, his strategic role in the expansion of Christianity, and the contribution of his theology and thought as reflected in his writings.

*Prerequisites: BIB101. Offered: Fall or spring.*

**BIB301J • The Faith of Abraham in Genesis, Paul and James.** 3 Credits.

The faith of Abraham as reflected in biblical and extra-canonical traditions, with emphasis on Genesis, Romans, Galatians, and the book of James.

Attention to the theological and exegetical perspectives of the various documents, unity and diversity within the canon, and contemporary application.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB302J • Biblical Law in Christian Belief and Practice.** 3 Credits.

Biblical law as an expression of the character and will of God; the form, content, and use of law throughout Scripture; and the relationship of law and grace. Modern viewpoints on the abiding relevance of biblical law for individuals and societies.

*Prerequisites: BIB101; minimum sophomore standing Offered: Occasionally.*

**BIB304J • Messianic Concepts.** 3 Credits.

Development of such terms as "Son of Man," "Son of God," and "Messiah" is traced from origins in Old Testament texts of poetry and prophecy to New Testament fulfillment in the Gospels and Epistles.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB305J • Sleep, Surrender, and Sabbath.** 3 Credits.

The theology and ethics of rest from a biblical perspective. Focus on key passages in Scripture regarding sleep, dreams, and Sabbath. Exploration of topics such as creation, the human condition, divine relationality, human dependency, prayer, and social responsibility. Interdisciplinary approach, utilizing historical records of Sabbath practices, scientific research, and sociological analyses.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*



**BIB306J • Covenant, Promise, and Fulfillment.** 3 Credits.

Major covenants between God and humans in both the Old and New Testaments. Relationships between these covenants, especially regarding the theme of promise and fulfillment.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB307J • Jerusalem: Earthly City and Spiritual Symbol.** 3 Credits.

Jerusalem as the means of studying God's plans for worldwide redemption. The city where much of biblical history took place and that is symbolic of God's earthly and heavenly kingdoms: its geography, history, and relationship to the several covenants in the Bible.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB308J • Biblical Theology of Reconciliation.** 3 Credits.

The goal of reconciliation in personal and socio-political conflicts is examined in light of biblical texts relating to liberation from oppression, establishment of justice, practice of forgiveness, and promotion of peace.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB309J • A Biblical Theology of Poverty.** 3 Credits.

Responses to poverty in the Old Testament, intertestamental literature, and the New Testament in light of the socioeconomic setting of these records. Construction of a biblical perspective and implications for Christian communities in North America.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB310J • Holiness in Biblical Perspective.** 3 Credits.

Exegetical and theological foundations underlying the biblical notion of holiness in both the Old and New Testaments. Biblical texts in their historical-cultural context, with a view to uncovering biblical understandings of holiness and integrating them into a Christian worldview.

*Prerequisites: BIB101; THE201; minimum sophomore standing. Offered: Occasionally.*

**BIB311J • Worship in Biblical Perspective.** 3 Credits.

Exegetical and theological foundations of worship. Old Testament and New Testament patterns of worship and their relevance for the church today.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB312J • Female and Male in Biblical Perspective.** 3 Credits.

Significant Old and New Testament passages related to past and current discussions of gender, roles, and ministry in the church.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB313J • A Biblical Theology of Justice.** 3 Credits.

Justice, in the full biblical sense, is employed as an integrating focus for the task of God on earth of restoring humankind. Elements of continuity and discontinuity between the Old Testament and New Testament. Location of each major block of biblical data in historical, literary, and social context.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB314J • The "Word" in Biblical Tradition.** 3 Credits.

Use of the term "word" in its creative, redemptive, active, prophetic, and prescriptive significance in the Christian canon. Beginning with the concept of "word" in creation; through "The Word as Law" and "The Prophetic Word," and ending with an emphasis on "The Incarnate Word" and the words of the cross, the preacher, and the sacraments.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB315J • God, Evil, and Spiritual Warfare.** 3 Credits.

Study of God's ongoing battle with spiritual forces from Genesis to Revelation. Origin, power, activity, and end of Satan and evil angels are traced throughout Scripture. Discussion of implications of these concepts for the problem of evil, a theology of providence, and spiritual formation.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB316J • Vocation and Calling: A Biblical Perspective.** 3 Credits.

An investigation of the biblical understandings of vocation and calling in both Old and New Testaments. Examination of foundational issues such as definitions of ministry, personal and spiritual gifting, the role of the church in contemporary context, and calling and vocation as they relate to being Christ-followers.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB317J • Family in Biblical Perspective.** 3 Credits.

Biblical perspective of family developed through an examination of family in ancient biblical cultures and a study of family in the Old and New Testaments. A biblical perspective will be integrated with an exploration of the cultural and historical influences on our contemporary understanding of family.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB319J • Eschatology: The Last Things in the Church's Scriptures.** 3 Credits.

Examines what the Bible says about "the last things" in the Pentateuch, historical works, poetry, gospels, letters, and apocalypse. Includes careful exegesis of the Bible's statements regarding the last things in order to learn how they functioned in their original setting, how they function in the canon of Scripture, and how they function in living out a Christian worldview today.

*Prerequisites: BIB101; minimum sophomore standing. Offered: Occasionally.*

**BIB321 • Issues in Biblical Studies.** 3 Credits.

Theoretical and practical introduction to academic study in biblical disciplines. Major theories that influence current study along with methods for research and investigation in these fields.

*Prerequisites:* 200-level course in biblical studies; THE201; *Interpreting Biblical Themes (J)* course. Offered: Fall.

**BIB326 • The Prophets of Israel.** 3 Credits.

The basic meaning of prophecy and the function of the prophets in Israel; analysis of the context and message of the great Hebrew prophets. Inductive studies bring out theological truths and relate them to the New Testament as well as to the Christian life as experienced today.

*Prerequisites:* *Interpreting Biblical Themes (J)* course or a 200-level biblical studies course. Offered: Occasionally.

**BIB331G • Cultural World of the New Testament.** 3 Credits.

Historical and cultural backgrounds of the New Testament in their Jewish, Greek, and Roman contexts.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L)* course; *World Cultures (U)* course] or [GES246; *World Cultures (U)* course]. Offered: Occasionally.

**BIB334G • Cultural World of the Old Testament.** 3 Credits.

Historical, cultural, and archaeological backgrounds of the Old Testament in their Ancient Near Eastern contexts.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L)* course; *World Cultures (U)* course] or [GES246; *World Cultures (U)* course]. Offered: Occasionally.

**BIB336 • Poetic Books of the Old Testament.** 3 Credits.

Doctrinal and devotional themes of Job, Psalms, Proverbs, Ecclesiastes, and Song of Songs. The literary structure of these books and of individual psalms, the nature of Hebrew poetry, and its use in the New Testament and the church.

*Prerequisites:* *Interpreting Biblical Themes (J)* course or a 200-level biblical studies course. Offered: Occasionally.

**BIB370 • Romans.** 3 Credits.

A widely influential letter of Paul with emphasis on the themes of justification by faith, ethics (good works), and life in the Spirit. Discussion of the letter's significance for original and contemporary readers.

*Prerequisites:* *Interpreting Biblical Themes (J)* course or a 200-level biblical studies course. Offered: Spring, odd # years.

**BIB375 • First Corinthians.** 3 Credits.

Paul's letter to the Corinthian church in its first century setting. Topics include sexuality, divorce, spiritual gifts, the Christian ministry, resurrection, and the contemporary application of these.

*Prerequisites:* *Interpreting Biblical Themes (J)* course or a 200-level biblical studies course. Offered: Spring, odd # years.

**BIB440 • Topics in Biblical Studies.** 3 Credits.

Advanced course on a biblical area or topic. The specific subject is announced when the course is offered.

*Prerequisites:* *Interpreting Biblical Themes (J)* course or a 200-level biblical studies course. Offered: Occasionally.

**BIB499 • Seminar: Biblical Studies.** 3 Credits.

A selected topic in biblical studies related to a course theme. A major research project is followed by an oral and written presentation of its results.

*Prerequisites:* *Interpreting Biblical Themes (J)* course; BIB321; major in biblical and theological studies. Offered: Spring.

**GRK101 • Introductory Biblical Greek I.** 4 Credits.

Study of New Testament Greek for beginning students. Use of the New Testament to build a basic vocabulary and understand the elements of grammar and syntax.

*Offered:* Fall.

**GRK102S • Introductory Biblical Greek II.** 4 Credits.

Continuation of the study of New Testament Greek for beginning students. Use of the New Testament to build a basic vocabulary and understand the elements of grammar and syntax.

*Prerequisites:* GRK101. Offered: Spring.

**GRK253 • Readings in New Testament Greek.** 3 Credits.

Readings in the Greek New Testament designed to develop the student's basic knowledge of Greek grammar and enlarge his or her vocabulary.

*Prerequisites:* GRK102S. Offered: Fall.

**GRK371 • Advanced Greek Translation.** 3 Credits.

Translation and analysis of Greek passages, both biblical and classical, of moderate to considerable difficulty. Specific subject matter varies each term.

*Prerequisites:* GRK253. Offered: Spring.

**GRK498 • Seminar: Greek Exegesis.** 4 Credits.

Study of a selected book or representative passages in the Greek New Testament to increase the student's exegetical skills. A major exegetical project is followed by an oral and written presentation of the results.

*Prerequisites:* GRK253; *Interpreting Biblical Themes (J)* course; BIB321 or consent of instructor. Offered: Spring.

**HEB101 • Introductory Biblical Hebrew I.** 4 Credits.

Study of the Hebrew of the Old Testament. Designed for the beginning student. The Old Testament is used to build a basic vocabulary and to understand the language's phonology, morphology, basic syntax, and semantics.

*Offered: Fall.*

**HEB102S • Introductory Biblical Hebrew II.** 4 Credits.

Further study of the Hebrew of the Old Testament. Designed for the beginning student. The Old Testament is used to build a basic vocabulary and to understand the language's phonology, morphology, basic syntax, and semantics.

*Prerequisites: HEB101 Offered: Spring.*

**LAT101 • Introductory Latin I.** 4 Credits.

Introduction to the spoken and written language and culture of ancient Rome.

*Offered: Fall, odd # years.*

**LAT102S • Introductory Latin II.** 4 Credits.

Further study and use of the spoken and written language and culture of ancient Rome.

*Prerequisites: LAT101 or placement exam. Offered: Spring, even # years.*

**MIN200 • Foundations of Ministry.** 3 Credits.

Introduction to the theology and practice of ministry. Presents a conceptual, theological, and biblical understanding of ministry. Opportunity to develop a usable, working philosophy of ministry and a model for critical thinking about the practice of contemporary ministry.

*Prerequisites: BIB101 (may be taken concurrently). Offered: Fall.*

**MIN210 • Adolescent Development and the Family.** 3 Credits.

Examination of child and adolescent development and family dynamics. Emphasis on understanding child/adolescent development in the physical, cognitive, moral, psycho-social, cultural, and spiritual arenas, along with examining family social systems and family dynamics. Focus on application to practical ministry.

*Prerequisites: MIN200. Offered: Fall, odd # years.*

**MIN310Z • Conflict, Reconciliation, and the Church.** 3 Credits.

Ministry in an urban, multicultural context. Emphasizes biblical, theological, and historical themes of reconciliation, diversity, poverty, and justice. Experiences include homeless shelters, youth ministry centers, spiritually formative practices, and the religious and cultural life of a major city.

*Prerequisites: THE201; junior standing. Corequisites: Carries cross-listing in biblical and theological studies and reconciliation studies. Offered: Interim.*

**MIN320 • Spiritual and Faith Formation.** 3 Credits.

Dynamics of spiritual development and faith formation. Review of biblical, historical, and theological models as well as contemporary social science research. Emphasizes the spiritual and faith formation of both ministers and those to whom they minister, and the interrelatedness of evangelism and discipleship as well as counseling and referral.

*Prerequisites: MIN200 Offered: Spring.*

**MIN328 • Missional Theology.** 3 Credits.

Explores the doctrine of the Trinity and its connections to the *missio Dei* (mission of God) and how God's mission influences our thinking and practice as the church, with a special emphasis on the context of North America.

*Prerequisites: BIB101 or THE201; minimum junior standing Offered: Spring.*

**MIN330 • Teaching in Ministry Contexts.** 3 Credits.

Preparation and delivery of presentations enabling students to teach effectively in various settings. Students develop their theology and philosophy of teaching and learning. Improving skills in teaching small and large groups, facilitating discussion, adapting curriculum to audiences and contexts, and self-analysis. Emphasis on biblical themes of reconciliation, diversity, and justice.

*Prerequisites: MIN200. Offered: Fall, even # years.*

**MIN350 • Ministry Practicum I.** 1 Credits.

Explores ministry as a career through discipleship and job shadowing. Development as a disciple, and reflection on personal call to ministry as a career.

*Prerequisites: MIN200. Grade exceptions: Graded on an S/U basis. Offered: Fall.*

**MIN355 • Ministry Practicum II.** 1 Credits.

Explores ministry as a career through discipleship and job shadowing. Development as a discipler, and reflection on personal call to ministry as a career.

*Prerequisites: MIN200; MIN350. Grade exceptions: Graded on an S/U basis. Offered: Spring.*

**MIN483 • Ministry Internship I.** 3 Credits.

Explores ministry as a career through a supervised ministry internship, seminars, readings, and reflections. Students reflect especially on defining their current sense of calling.

*Prerequisites: MIN200; MIN350; MIN355. Grade exceptions: Graded on an S/U basis. Offered: Fall.*

**MIN484 • Ministry Internship II.** 3 Credits.

Explores ministry as a career through a supervised ministry internship, seminars, readings, and reflections. Students integrate various components of their Missional Ministries major.

*Prerequisites: MIN200; MIN350; MIN355; MIN483. Grade exceptions: Graded on an S/U basis. Offered: Spring.*

**MIN499 • Senior Seminar.** 3 Credits.

Selected topics in ministry leadership with emphasis on preparation for ministry, culminating with a professional portfolio. A major research project is followed by an oral presentation of its results.

*Prerequisites: Interpreting Biblical Themes (J) course; MIN200; Missional Ministries major; senior standing. Offered: Spring.*

**THE201 • Christian Theology.** 3 Credits.

Investigates central themes of the Christian faith from a primarily systematic perspective. Topics include Scripture, God, the person and work of Jesus Christ, salvation, and last things. Emphasis on the unity and diversity of theological beliefs within Christianity, and on the interrelationships among theological understanding, culture, and discipleship.

*Prerequisites: BIB101; sophomore standing or above. Offered: Fall, interim, spring.*

**THE235 • Current Theological Controversies.** 3 Credits.

Study of a number of theological topics of contemporary interest or debate such as the Calvinism/Arminianism debate, the inerrancy of Scripture, the nature of divine foreknowledge, spiritual gifts, and end times controversies.

*Prerequisites: THE201. Offered: Occasionally.*

**THE240 • Topics in Theology.** 3 Credits.

Study of a theological area or topic. The specific topic is announced when the course is offered.

*Prerequisites: THE201. Offered: Occasionally.*

**THE256L • Christian Apologetics.** 3 Credits.

Study of the intellectual viability of the Christian faith. Topics include the nature of apologetics and apologetic method, theological and philosophical arguments for and against the existence of God, and historical and philosophical arguments for and against the central beliefs of Christianity.

*Prerequisites: THE201; BIB101; GES130 or GES244 (may be taken concurrently). Offered: Fall, interim, spring.*

**THE263 • Christian Social Ethics.** 3 Credits.

Christian approaches to ethical problems within today's society, such as the morality of war, poverty and welfare, homelessness, racism, and human sexuality. Roles of Christians and churches in response to these issues. Classical ethical approaches of utilitarianism, Kant, and social contract ethics.

*Prerequisites: BIB101; THE201. Offered: Fall or spring.*

**THE310Z • Conflict, Reconciliation, and the Church.** 3 Credits.

Ministry in an urban, multicultural context. Emphasizes biblical, theological, and historical themes of reconciliation, diversity, poverty, and justice. Experiences include homeless shelters, youth ministry centers, spiritually formative practices, and the religious and cultural life of a major city.

*Prerequisites: THE201; junior standing. Offered: Interim Special Notes: Carries cross-credit in missional ministries and reconciliation studies.*

**THE311 • Early Church to Reformation Theology.** 3 Credits.

Explores the global historical development of Christian thought from the Early Church to the Reformation. Includes assessment of major figures such as Augustine and Luther, and developments such as early North African, Syriac, Nicene, Byzantine, medieval Asian, and European theologies.

*Prerequisites: BIB101; THE201 or consent of instructor. Offered: Fall.*

**THE312L • Post Reformation to Contemporary Theology.** 3 Credits.

Explores the global historical development of Christian thought from the Post-Reformation era to the present. Includes assessment of major figures such as Barth, Bonhoeffer, Schleiermacher, and Wesley and developments including African, African American, Dalit, Feminist and Womanist theology, and Pietism.

*Prerequisites: GES130; THE201 or GES246 (may be taken concurrently) Offered: Spring.*

**THE315 • Contemporary Theological Issues.** 3 Credits.

Theoretical and practical engagement with the academic disciplines of theology. Considers contemporary theological issues facing the 21st century church and explores current research and writing in the fields of theology.

*Prerequisites: THE201 or consent of the instructor. Offered: Spring.*

**THE326G • Christian Theology in Africa, Asia, and Latin America.** 3 Credits.

Introduces major theological themes and theories that have emerged in the socio-political and cultural contexts of sub-Saharan Africa, Asia, and Latin America. Offers critical and constructive dialogue with key theological themes and issues in Black, Feminist, Liberation, Dalit, and African theologies.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Occasionally fall.*

**THE401 • Christianity and the World's Religions.** 3 Credits.

Exploration of the historical and contemporary relationships of Christianity and various world religions, specifically focused at the theological level. Focus rotates from year to year, emphasizing the interfaith dialogue between Christianity and one other world religious tradition.

*Prerequisites: BIB101; THE201. Offered: Occasionally Special Notes: Carries cross-credit in religious studies.*

**THE431 • Advanced Topics in Systematic Theology.** 3 Credits.

Research on a topic in the area of systematic theology. The specific topic will be announced when the course is offered. Past offerings include Doctrine of God, Christology, Ecclesiology, and Pneumatology.

*Prerequisites: THE201 or consent of instructor. Offered: Fall.*

**THE432 • Advanced Topics in Historical Theology.** 3 Credits.

Research on a topic in the area of historical theology. The specific topic will be announced when the course is offered. Past offerings include Barth and Bonhoeffer and History and Theology of Pietism.

*Prerequisites: THE201 or consent of instructor. Offered: Occasionally.*

**THE433 • Advanced Topics in Philosophical Theology.** 3 Credits.

Research on a topic in the area of philosophical theology. The specific topic will be announced when the course is offered. Potential topics include Arguments for God's Existence, The Problems of Evil and Hell, and Science and Theology.

*Prerequisites: THE201 or consent of instructor. Offered: Occasionally.*

**THE440 • Topics in Theology.** 3 Credits.

Research course in a topic in theology. Content to be determined by the professor in conjunction with students majoring in biblical and theological studies. Usually, the course entails an advanced study of one of the major doctrines of the Christian faith.

*Prerequisites: THE201 or consent of instructor. Offered: Occasionally.*

**THE499 • Seminar: Theology.** 3 Credits.

A selected topic in theology related to a course theme. A major research project is followed by an oral and written presentation of its results.

*Prerequisites: Interpreting Biblical Themes (J) course; BIB321; THE315 or consent of instructor. Offered: Fall.*

## B.A. in Biblical and Theological Studies

### Biblical Studies Requirements (15 credits)<sup>2</sup>

BIB321	Issues in Biblical Studies	3
Old Testament courses <sup>3</sup>		6-7
Select one of the following Text courses: <sup>4</sup>		
BIB212	Reading the Hebrew Bible	
BIB220	The Pentateuch	
BIB240	Topics in Biblical Studies <sup>5</sup>	
BIB326	The Prophets of Israel	
BIB336	Poetic Books of the Old Testament	
BIB440	Topics in Biblical Studies <sup>5</sup>	
Select one of the following Context courses <sup>4</sup>		
BIB210	History of Ancient Israel	
BIB230Z	Israel Study Tour <sup>1,4</sup>	
BIB236	Archaeology of the Southern Levant	
BIB240	Topics in Biblical Studies <sup>5</sup>	
BIB334G	Cultural World of the Old Testament <sup>1</sup>	
BIB440	Topics in Biblical Studies <sup>5</sup>	
New Testament Courses:		6
Select one of the following Jesus courses: <sup>4</sup>		
BIB230Z	Israel Study Tour <sup>1,4</sup>	
BIB240	Topics in Biblical Studies <sup>5</sup>	
BIB260	The Life and Teachings of Jesus	
BIB440	Topics in Biblical Studies <sup>5</sup>	
GRK253	Readings in New Testament Greek <sup>5</sup>	
GRK371	Advanced Greek Translation	
Select one of the following Paul courses: <sup>4</sup>		
BIB240	Topics in Biblical Studies <sup>5</sup>	
BIB264Z	Greece-Turkey Study Tour <sup>1</sup>	
BIB265	The Life and Teachings of Paul	
BIB370	Romans	
BIB375	First Corinthians	
<b>Theological Studies Requirements (15 credits)</b>		
THE263	Christian Social Ethics	3
THE311	Early Church to Reformation Theology	3
THE315	Contemporary Theological Issues	3
Elective from 200 level theology course (not including THE201) <sup>4</sup>		3

Elective from 300-400 level theology course <sup>4</sup>	3
<b>Religious Studies Requirement (3 credits)</b>	
REL202 Introduction to Religious Studies	3
<b>Seminar Requirement (3-4 credits)</b>	
Select one of the following Senior Seminar courses:	3-4
BIB499 Seminar: Biblical Studies	
GRK498 Seminar: Greek Exegesis	
THE499 Seminar: Theology	
<b>Elective Requirements (6 credits)</b>	
Select one from 200 level biblical or theological studies courses or GRK253 or MIN310Z <sup>1,5</sup>	3
Select one from 300 or 400 level biblical or theological studies course or GRK371 or HIS335G <sup>1</sup>	3
Or select one spiritual formation course from the following: <sup>5</sup>	
BIB305J Sleep, Surrender, and Sabbath <sup>1</sup>	
BIB310J Holiness in Biblical Perspective <sup>1</sup>	
GES413P Women's Spiritual Experience <sup>1</sup>	
GES418P Christian Lives: Contemporary Spiritual Narratives <sup>1</sup>	
GES433P Biblical Spirituality: Experiencing God <sup>1</sup>	
GES434P The Celtic Tradition <sup>1</sup>	
GES441PZ Issues and Praxis in Christian Social Justice <sup>1</sup>	
<b>General Education</b>	51-52
<b>Electives</b>	29-32
<b>Total Credits</b>	<b>122-128</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> In addition to BIB321, students must take at least one of the biblical studies required courses at the 300-400 level.

<sup>3</sup> A student may use HEB102S to meet one of the OT course requirements.

<sup>4</sup> Course may only be applied in one category.

<sup>5</sup> Courses may be used in this category only when the topic is relevant.

## B.A. in Missional Ministries

### Core Courses

One 200 level course from OT or NT course list in BTS major	3
One 300-400 level course from OT or NT course list in BTS major	3
One 200 level THE course <sup>2</sup>	3
One 300-400 level THE course	3
MIN200 Foundations of Ministry	3
MIN320 Spiritual and Faith Formation	3
MIN328 Missional Theology	3
MIN350 Ministry Practicum I	1
MIN355 Ministry Practicum II	1
MIN483 Ministry Internship I	3
MIN484 Ministry Internship II	3
MIN499 Senior Seminar	3
LEA100N Leadership Essentials <sup>1</sup>	3-4
or BUS230 Principles of Management	
COM110N Basic Communication	3
RES201 Introduction to Reconciliation Studies	3

### Interdisciplinary Elective Courses

Select one of the following from Leadership and Organization:	3-4
BUS210 Financial Accounting	
BUS232 Innovation and Entrepreneurship	
BUS335 Organizational Behavior	

COM248	Organizational Communication	
LEA300	Leadership of Organizations	
Select one of the following from Communication:		3-4
COM370	Interpersonal Communication	
COM387	Speaking in Ministry Contexts	
MIN330	Teaching in Ministry Contexts	
Select one of the following from Life Development and Faith Formation:		3
PSY203	Lifespan Development	
PSY211	Adult Development and Aging	
MIN210	Adolescent Development and the Family	
Select one of the following from Cultural and Contextual Studies:		3
ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	
MIN310Z	Conflict, Reconciliation, and the Church <sup>1</sup>	
SOC372G	Religion in Society <sup>1</sup>	
RES305	Conflict Resolution and Mediation Skills	
<b>General Education</b>		51-52
<b>Electives</b>		18-22
<b>Total Credits</b>		<b>122-130</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Excluding THE201.

## Minor in Biblical Greek

GRK101	Introductory Biblical Greek I	4
GRK102S	Introductory Biblical Greek II <sup>1</sup>	4
GRK253	Readings in New Testament Greek	3
GRK371	Advanced Greek Translation	3
GRK498	Seminar: Greek Exegesis	4
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Biblical Languages (Hebrew and Greek)

GRK101	Introductory Biblical Greek I	4
GRK102S	Introductory Biblical Greek II <sup>1</sup>	4
GRK253	Readings in New Testament Greek	3
GRK371	Advanced Greek Translation	3,4
or GRK498	Seminar: Greek Exegesis	
HEB101	Introductory Biblical Hebrew I	4
HEB102S	Introductory Biblical Hebrew II <sup>1</sup>	4
<b>Total Credits</b>		<b>22-23</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Biblical and Theological Studies

One 200-level Old or New Testament course		3
One 300- or 400-level Old or New Testament course <sup>1</sup>		3
Two Theology (THE) courses <sup>2</sup>		6
BIB321	Issues in Biblical Studies	3
or THE315	Contemporary Theological Issues	
BIB205	Introduction to Spiritual Formation	3



or REL202

Introduction to Religious Studies

**Total Credits****18**<sup>1</sup> Not including Biblical Themes (J) course.<sup>2</sup> Not including THE201.

## Biological Sciences

The programs in biology provide a broad background in the biological sciences with opportunity for greater depth of study and experience in selected areas. The curriculum is organized into environmental, organismic, and cell-molecular areas of study. Lectures and laboratories are designed to coordinate closely in content and provide meaningful laboratory experiences, especially in experimentation.

Students are prepared for a variety of graduate or career opportunities. Upon graduation, students majoring in biology typically attend graduate, medical, or dental schools and/or pursue careers in medical technology; teach science in elementary and secondary schools; do laboratory research; perform environmental science duties in government and private industry; or work in allied health areas.

**Advanced Placement:** The biological sciences department requires a score of 4 or better on the AP exam in order for the exam to be used to fulfill course requirements in the majors it offers. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements. Students should consult the department chair with questions on AP exams and requirements for majors.

## Majors in Biological Sciences

- B.A. in Biology (p. 69)
- B.S. in Biology (p. 73)
- B.A. in Science Education 5-12: Life Science Emphasis (p. 71)
- B.S. in Biochemistry/Molecular Biology (p. 182) (See Multidisciplinary section)

## Minor in Biological Sciences

- Biology (p. 75)

**BIO100 • Principles of Biology.** 3 Credits.

Basic principles of modern biology. Topics include the scientific method, biology of the cell, genetic principles, anatomy and physiology of humans, plant biology, and environmental biology.

*Corequisites: Registration in BIO100D is required. Offered: Occasionally.*

**BIO100D • Principles of Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO100.

*Corequisites: Registration in BIO100 is required. Offered: Occasionally.*

**BIO104 • Human Biology.** 3 Credits.

Study of the biological aspects of the human species. Includes basic molecules of life, human cell biology, tissue types, anatomy and physiology of the 10 systems, human embryology and development, human genetics, nutrition, disease, and health, as well as human ecology and impact on the environment.

*Corequisites: Registration in BIO104D is required. Offered: Fall, spring.*

**BIO104D • Human Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO104.

*Corequisites: Registration in BIO104 is required. Offered: Fall, spring.*

**BIO105 • Medical Terminology.** 2 Credits.

Study of medical terms. Students study material independently and take proctored examination to demonstrate knowledge of medical language.

*Prerequisites: Permission of instructor. Offered: Fall, spring.*

**BIO114D • Introduction to Biodiversity, Ecology, and Adaptation.** 4 Credits.

An introduction to the diversity, interrelationships, and origins of living organisms. Focuses on three themes: an overview of kinds and diversity of organisms found in six kingdoms, the interaction of organisms with each other and their environment, and the change of organisms through time.

*Offered: Occasionally.*

**BIO118 • General Biology.** 3 Credits.

Biological principles governing life processes. Topics include biological molecules, cells, metabolism, genetics, reproduction, and development with primary attention to mammalian organisms, tissues, organs, and life systems with reference to comparative anatomy and physiology. Intended for nursing majors.

*Corequisites: Registration in BIO118D is required. Offered: Fall.*



**BIO118D • General Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO118.

*Corequisites: Registration in BIO118 is required. Offered: Fall.*

**BIO120 • Introduction to Molecular and Cellular Biology.** 3 Credits.

An introduction to cellular and subcellular aspects of living organisms. Includes a study of basic chemistry, biological molecules, cells, enzymes, metabolism, classical genetics, and molecular genetics.

*Prerequisites: One semester of chemistry, or corequisite: CHE208/208D. Corequisites: Registration in BIO121 is required Offered: Fall, spring.*

**BIO121 • Introduction to Molecular and Cellular Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO120.

*Corequisites: Registration in BIO120 is required. Offered: Fall, spring.*

**BIO122 • Introduction to Organismic Biology.** 3 Credits.

An introduction to how living things work. Focuses on two main themes: the correlation between structure and function, and the capacity of organisms to adjust their internal environment in response to short-term and long-term fluctuations in the external environment.

*Corequisites: Registration in BIO122D is required. Offered: Fall, spring.*

**BIO122D • Introduction to Organismic Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO122.

*Corequisites: Registration in BIO122 is required. Offered: Fall, spring.*

**BIO126 • Integrative Biology and Global Health.** 3 Credits.

Cancer. Climate change. Infectious disease. These are some of the challenges before biologists; challenges that require knowledge and skills that are not confined to one sub-discipline to solve. Through real world, case-based problems encompassing cells to ecosystems, we will unpack what it means to be a biologist today. Concepts include genetics and GMOs, evolution, population, community and ecosystem ecology and global change.

*Prerequisites: Declared major or minor in biology. Corequisites: Registration in BIO127 is required. Offered: Fall, spring.*

**BIO127 • Integrative Biology and Global Health Lab.** 1 Credits.

Laboratory experience accompanying BIO126.

*Corequisites: Registration in BIO126 is required. Offered: Fall, spring.*

**BIO130 • Introduction to Neuroscience.** 3 Credits.

An introduction to the biological basis of behavior. Focuses on two main themes: the cellular, molecular, and genetic processes that form the foundation of nervous system function and the systems-level organization of the nervous system that forms the foundation of human and animal behavior.

*Corequisites: Registration in BIO130D is required. Offered: spring Special Notes: Carries cross-credit in psychology.*

**BIO130D • Introduction to Neuroscience Lab.** 1 Credits.

Laboratory experience accompanying BIO130.

*Corequisites: Registration in BIO130 is required. Offered: Spring.*

**BIO132 • The Science of Birds.** 3 Credits.

An overview of the Minnesota avifauna and bird biology. Bird identification is discussed and practiced in the field. Selected topics from bird biology (migration, flight, reproduction, behavior, food, and conservation) are presented through lectures, numerous slide shows, and videos. These topics provide an introduction to the prevailing themes in modern biology.

*Corequisites: Registration in BIO132D is required. Offered: Occasionally spring.*

**BIO132D • The Science of Birds Lab.** 1 Credits.

Laboratory experience accompanying BIO132.

*Corequisites: Registration in BIO132 is required. Offered: Occasionally spring.*

**BIO151N • Gender and the Brain.** 3 Credits.

Exploration of the impact of gender on self-image, view of the world, and others. Emphasis on biological factors (particularly neuroendocrine and fetal environmental interaction) that influence gender identity, orientation, and roles.

*Offered: Occasionally.*

**BIO214 • Human Anatomy.** 3 Credits.

Detailed study of the anatomy and histology of the human body in relation to its functional systems. Laboratory includes human cadaver prosections.

*Prerequisites: One lab science (D) course. Corequisites: Registration in BIO215 is required. Offered: Fall Special Notes: Not open to students who have taken BIO224 /225 or BIO238/239 except by department consent.*

**BIO215 • Human Anatomy Lab.** 1 Credits.

Laboratory experience accompanying BIO214.

*Corequisites: Registration in BIO214 is required. Offered: Fall.*

**BIO216 • Human Physiology.** 3 Credits.

Integration of basic principles of cell biology and mechanisms of physiology to the functions of the major organ systems of the human body; centered around the theme of homeostasis.

*Prerequisites:* BIO214/215. *A course in chemistry is recommended. Corequisites:* Registration in BIO217 is required *Offered:* Spring *Special Notes:* Not open to students who have taken BIO226/227 or BIO238/239 except by department consent.

**BIO217 • Human Physiology Lab.** 1 Credits.

Laboratory experience accompanying BIO216.

*Corequisites:* Registration in BIO216 is required. *Offered:* Spring.

**BIO224 • Clinical Anatomy.** 3 Credits.

Detailed study of the anatomy and histology of the human body in relation to its functional systems. Laboratory includes human cadaver prosections.

*Prerequisites:* BIO118/118D. *Corequisites:* Registration in BIO225 is required *Offered:* Spring *Special Notes:* Not open to students who have taken BIO214/215.

**BIO225 • Clinical Anatomy Lab.** 1 Credits.

Laboratory experience accompanying BIO224.

*Corequisites:* Registration in BIO224 is required. *Offered:* Spring.

**BIO226 • Clinical Physiology.** 3 Credits.

Integration of basic principles of cell biology and mechanisms of physiology to the functions of the major organ systems of the human body, centered around the theme of homeostasis.

*Prerequisites:* BIO224/225; CHE101/101D; CHE106/106D. *Corequisites:* Registration in BIO227 is required. *Offered:* Fall *Special Notes:* Not open to students who have taken BIO216/217.

**BIO227 • Clinical Physiology Lab.** 1 Credits.

Laboratory experience accompanying BIO226.

*Corequisites:* Registration in BIO226 is required. *Offered:* Fall.

**BIO230 • Clinical Microbiology.** 3 Credits.

Microorganisms and viruses with respect to their structure, physiology, genetics, identification, control, host-parasite relationships, and exploitation by humans. Topics include pathogenic organisms and the events and products of vertebrate immune responses.

*Prerequisites:* BIO224/225; CHE101/101D; CHE106/106D. *Corequisites:* Registration in BIO231 is required. *Offered:* Fall *Special Notes:* Not open to students who have taken BIO234/235.

**BIO231 • Clinical Microbiology Lab.** 1 Credits.

Laboratory experience accompanying BIO230.

*Corequisites:* Registration in BIO230 is required. *Offered:* Fall.

**BIO234 • Microbiology.** 3 Credits.

Microorganisms and viruses with respect to their structure, physiology, genetics, identification, control, host-parasite relationships, and exploitation by humans. Topics include pathogenic organisms and the events and products of vertebrate immune responses.

*Prerequisites:* BIO118/118D, BIO120/121; one course in chemistry. A second course in chemistry is recommended. *Corequisites:* Registration in BIO235 is required. *Offered:* Spring *Special Notes:* Not open to students who have taken BIO230/231.

**BIO235 • Microbiology Lab.** 1 Credits.

Laboratory experience accompanying BIO234.

*Corequisites:* Registration in BIO234 is required. *Offered:* Spring.

**BIO238 • Human Anatomy and Physiology.** 3 Credits.

Anatomy and physiology of the human body, with a major emphasis on the principle of homeostasis.

*Prerequisites:* BIO100/100D, BIO104/104D, BIO118/118D, or BIO120/121. *Corequisites:* Registration in BIO239 is required. *Offered:* Spring *Special Notes:* One course in chemistry recommended. Not open to students who have taken BIO214/215, BIO216/217, BIO224/225, BIO226/227.

**BIO239 • Human Anatomy and Physiology Lab.** 1 Credits.

Laboratory experience accompanying BIO238.

*Corequisites:* Registration in BIO238 is required. *Offered:* Spring.

**BIO244 • Pathophysiology and Pharmacology.** 3 Credits.

An integrated exploration of disease processes and the drugs used to treat them. The functional and structural changes that accompany a particular injury, disease, or syndrome are correlated with the study of drugs and their actions on the body.

*Prerequisites:* BIO214/215, BIO216/217 (may be taken concurrently), two semesters of chemistry. *Corequisites:* Registration in BIO245 is required. *Offered:* Occasionally.

**BIO245 • Pathophysiology and Pharmacology Lab.** 1 Credits.

Laboratory experience accompanying BIO244. Pathophysiology and pharmacology experiments and exercises employing in-vitro pharmacology, computer simulations, serological testing, and hematologic methods.

*Corequisites:* registration in BIO244 is required. *Offered:* Occasionally.

**BIO248 • Clinical Pathophysiology and Pharmacology.** 3 Credits.

An integrated exploration of disease processes and the drugs used to treat them. The functional and structural changes that accompany a particular injury, disease, or syndrome are correlated with the study of drugs and their actions on the body.

*Prerequisites:* Acceptance into the nursing program or consent of instructor. *Corequisites:* Registration in BIO249 is required. *Offered:* Spring. *Special Notes:* Not open to students who have taken BIO244/245.

**BIO249 • Clinical Pathophysiology and Pharmacology Lab.** 1 Credits.

Laboratory experience accompanying BIO248.

*Corequisites:* Registration in BIO248 is required. *Offered:* Spring.

**BIO310K • Human Impacts on Coral Reefs.** 4 Credits.

Travel to the Philippines and Hawaii to study exotic coral reefs and associated environmental issues. Coral reefs worldwide are subject to severe anthropogenic stress. Allows students to get in the water to see reefs firsthand, explore the science and human technology relating to coral reefs, and meet individuals who are working to address environmental problems.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. *Offered:* Interim. *Special Notes:* Carries cross-credit in environmental studies.

**BIO316 • Wildlife Ecology and Management.** 3 Credits.

Analysis of terrestrial vertebrate populations, communities, and habitats. Exploration of how these analyses are applied to the manipulation, exploitation, protection, and restoration of animal populations and communities. Laboratory sessions will emphasize field investigation of animal populations and habitats with ecological and management techniques.

*Prerequisites:* Two of BIO122/122D, BIO126/127, or ENS104/104D; junior or senior standing. *Corequisites:* Registration in BIO317 is required. *Offered:* Spring, even # years. *Special Notes:* Carries cross-credit in environmental studies.

**BIO317 • Wildlife Ecology and Management Lab.** 1 Credits.

Laboratory experience accompanying BIO316.

*Corequisites:* Registration in BIO316 is required. *Offered:* Spring, even # years.

**BIO318KZ • Ecuador and the Galapagos Islands: Natural History and Future Progress.** 4 Credits.

Travel from base in Quito throughout Ecuador and the Galápagos Islands, surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human culture, presence, and activities. Sites include the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galápagos Islands.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. *Offered:* Interim. *Special Notes:* Carries cross-credit in environmental studies.

**BIO324 • Human Ecology.** 3 Credits.

Interrelationships between humans and the natural environment. Overpopulation, resource use, and pollution studied from biological, social, and economic standpoints, and skill development in the critical examination of the impacts of humans and our technology on the natural world.

*Prerequisites:* One year of biology; one year of chemistry. *Corequisites:* Registration in BIO325 is required. *Offered:* Occasionally.

**BIO325 • Human Ecology Lab.** 1 Credits.

Laboratory experience accompanying BIO324.

*Corequisites:* Registration in BIO324 is required. *Offered:* Occasionally.

**BIO326 • Vertebrate Histology.** 3 Credits.

Microscopic structure of cells, tissues, and organs in vertebrate animals, with special emphasis on the way structural units are integrated. At all times efforts are made to correlate structure with specific physiological functions.

*Prerequisites:* BIO120/121; BIO122/122D. *Corequisites:* Registration in BIO327 is required. *Offered:* Spring, even # years.

**BIO327 • Vertebrate Histology Lab.** 1 Credits.

Laboratory experience accompanying BIO326.

*Corequisites:* Registration in BIO326 is required. *Offered:* Spring, even # years.

**BIO328 • Invertebrate Biology.** 3 Credits.

A survey of invertebrate groups from protozoa to prochordates with emphasis on organizational, functional, and ecological significance. Special attention is given to the morphology, life histories, and physiology of invertebrates within the context of survival in specialized environments.

*Prerequisites:* BIO122/122D or BIO126/127. *Corequisites:* Registration in BIO329 is required. *Offered:* Spring, odd # years.

**BIO329 • Invertebrate Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO328.

*Corequisites:* Registration in BIO328 is required. *Offered:* Spring, odd # years.

**BIO330 • Ecology.** 3 Credits.

Structure and function of wild nature. Topics include interrelationships of organisms with their environments, factors that regulate such interrelationships, and various roles that humans play in modifying patterns and processes of nature at organism, community, and ecosystem levels.

*Prerequisites:* Two of BIO122/122D, BIO126/127, or ENS104/104D. *Corequisites:* Registration in BIO331 is required. *Offered:* Fall, odd # years.

**BIO331 • Ecology Lab.** 1 Credits.

Laboratory experience accompanying BIO330. Experimental work in field and laboratory, examining current hypotheses in ecological systems.

*Corequisites:* Registration in BIO330 is required. *Offered:* Fall, odd # years.

**BIO332 • Genetics.** 3 Credits.

Principles that control inheritance, with examples chosen from plant and animal research, population genetics, cytogenetics, molecular genetics, and current work on human genetics.

*Prerequisites:* Two courses in chemistry; *BIO100/100D* or *BIO120/121*. *Corequisites:* Registration in *BIO333* is required. *Offered:* Fall.

**BIO333 • Genetics Lab.** 1 Credits.

Laboratory experience accompanying *BIO332*.

*Corequisites:* Registration in *BIO332* is required. *Offered:* Fall.

**BIO336 • Entomology and Parasitology.** 3 Credits.

A comparative study of the major invertebrate groups from anatomical, physiological, and ecological perspectives with attention to insects and parasitic invertebrates.

*Prerequisites:* *BIO122/122D*; *BIO126/127*. *Corequisites:* Registration in *BIO337* is required. *Offered:* Occasionally.

**BIO337 • Entomology and Parasitology Lab.** 1 Credits.

Laboratory experience accompanying *BIO336*.

*Corequisites:* Registration in *BIO336* is required. *Offered:* Occasionally.

**BIO338 • Endocrinology.** 3 Credits.

Processes by which hormones exert control over many aspects of reproduction, development, growth, metabolism, and behavior. Topics include the chemical nature of hormones, receptors and signaling pathways, morphology and histology of endocrine organs, regulation of hormone synthesis and secretion, and mechanism of action in target tissues.

*Prerequisites:* *BIO120/121*; *BIO122/122D*. One course in physiology is recommended. *Corequisites:* Registration in *BIO339* is required. *Offered:* Fall, even # years.

**BIO339 • Endocrinology Lab.** 1 Credits.

Laboratory experience accompanying *BIO338*. Work is largely experimental, using bioassay procedures.

*Corequisites:* Registration in *BIO338* is required. *Offered:* Fall, even # years.

**BIO342 • Aquatic Biology.** 3 Credits.

Biological and physical aspects of natural, freshwater ecosystems, including fish and other aquatic animals, aquatic plants, algae, and their interrelationships with each other and the unique aqueous environment in which they live.

*Prerequisites:* *BIO122/122D*, *BIO126/127*, or *ENS104/104D*. *Corequisites:* Registration in *BIO343* is required. *Offered:* Fall, even # years.

**BIO343 • Aquatic Biology Lab.** 1 Credits.

Laboratory experience accompanying *BIO342*. Examines Lake Valentine and other aquatic ecosystems near campus.

*Corequisites:* Registration in *BIO342* is required. *Offered:* Fall, even # years.

**BIO346 • Animal Behavior.** 3 Credits.

Behavior from primitive invertebrates to advanced mammals, highlighting trends in behavior systems. Natural setting studies in the ethology tradition, comparative psychology studies, and biosociological principles with their implications for human social systems.

*Prerequisites:* One course in biology or *PSY100*. *Corequisites:* Registration in *BIO347* is required. *Offered:* Spring, odd # years *Special Notes:* Carries cross-credit in psychology.

**BIO347 • Animal Behavior Lab.** 1 Credits.

Laboratory experience accompanying *BIO346*.

*Corequisites:* Registration in *BIO346* is required. *Offered:* Spring, odd # years.

**BIO354 • Cell Biology.** 3 Credits.

The molecular organization and function of cells and their organelles. Understanding how cell biology information is obtained experimentally.

*Prerequisites:* Two courses in biology, including *BIO120/121*; two courses in chemistry (organic recommended). *Corequisites:* Registration in *BIO355* is required. *Offered:* Spring.

**BIO355 • Cell Biology Lab.** 1 Credits.

Laboratory experience accompanying *BIO354*. Research projects utilizing a variety of modern cell biology techniques and equipment.

*Corequisites:* Registration in *BIO354* is required. *Offered:* Spring.

**BIO358 • Neurobiology.** 3 Credits.

Nervous system of animals and humans. Includes comparative anatomy and physiology of humans with other vertebrates and invertebrates, as well as interactions of sensory, motor, and integrative mechanisms of nervous system control.

*Prerequisites:* *BIO100/100D*, *BIO104/104D*, *BIO120/121*. *BIO122/122D* recommended. *Corequisites:* Registration in *BIO359* is required. *Offered:* Spring, odd # years.

**BIO359 • Neurobiology Lab.** 1 Credits.

Laboratory experience accompanying *BIO358*.

*Corequisites:* Registration in *BIO358* is required. *Offered:* Spring, odd # years.

**BIO362 • Developmental Biology.** 3 Credits.

The basic question of developmental biology is “How does a single fertilized egg give rise to all the different cell, tissue, and organ types of the adult organism?” The developmental processes that give rise to these different cell, organ, and tissue types along with the mechanisms underlying those processes are studied at the cellular, genetic, molecular, and biochemical levels.

*Prerequisites:* BIO120/121 and one other biology course; two courses in chemistry. *Corequisites:* Registration in BIO363 is required. *Offered:* Spring, even # years.

**BIO363 • Developmental Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO362. Includes surgical manipulation of living organisms to elucidate developmental principles.

*Corequisites:* Registration in BIO362 is required. *Offered:* Spring, even # years.

**BIO368 • Structure and Development of Vertebrates.** 3 Credits.

An integrated and systematic approach to descriptive embryology and comparative anatomy of vertebrate species.

*Prerequisites:* Two courses in biology, including BIO122/122D. *Corequisites:* Registration in BIO369 is required. *Offered:* Fall, odd # years.

**BIO369 • Structure and Development of Vertebrates Lab.** 1 Credits.

Laboratory experience accompanying BIO368. Observational studies of live embryos, microscopic examination of representative vertebrate embryos, and dissection of representative vertebrate types.

*Corequisites:* Registration in BIO368 is required. *Offered:* Fall, odd # years.

**BIO372 • Plant Taxonomy and Ecology.** 3 Credits.

Identification and distribution of flowering plants, including field work, keying, and laboratory preservation. Biogeography and factors important in plant distribution.

*Prerequisites:* Two of BIO122/122D, BIO126/127, or ENS104/104D. *Corequisites:* Registration in BIO373 is required. *Offered:* Fall, odd # years.

**BIO373 • Plant Taxonomy and Ecology Lab.** 1 Credits.

Laboratory experience accompanying BIO372.

*Corequisites:* Registration in BIO372 is required. *Offered:* Fall, odd # years.

**BIO376 • Animal Physiology.** 3 Credits.

Comparative physiology of animal nerves, muscles, hormones, circulation, respiration, excretion, digestion, and the way those systems function intact with processes of feeding, energetics, osmoregulation, metabolism, locomotion, biomechanics, and temperature regulation necessary for an organism's survival.

*Prerequisites:* BIO120/121; BIO122/122D; BIO126/127; two course in chemistry. *Corequisites:* Registration in BIO377 is required. *Offered:* Spring, even # years.

**BIO377 • Animal Physiology Lab.** 1 Credits.

Laboratory experience accompanying BIO376.

*Corequisites:* Registration in BIO376 is required. *Offered:* Spring even, # years.

**BIO380 • Environmental Plant Biology.** 3 Credits.

Introduction to the fundamentals of how plants grow, metabolize, and respond to their environment. Topics include the conversion of light energy into chemical energy through photosynthesis and carbon fixation; nitrogen assimilation; water and mineral uptake and transport; phloem transport; and plant growth regulators, seed physiology, and plant and environmental stress interactions.

*Prerequisites:* Two of BIO122/122D, BIO126/127, or ENS104/104D; one semester of chemistry. *Corequisites:* Registration in BIO383 is required. *Offered:* Fall, even # years.

**BIO383 • Environmental Plant Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO380. Includes some outdoor and off-campus investigations.

*Corequisites:* Registration in BIO380 is required. *Offered:* Fall, even # years.

**BIO384 • Immunology.** 3 Credits.

The basis of the immune system throughout the animal kingdom is the ability to recognize or discriminate “self” from “nonself.” Study includes the molecular and cellular mechanisms that allow organisms to recognize, control, and eliminate such “nonself” entities as bacterial pathogens, foreign tissue grafts, and even transformed (cancerous) cells.

*Prerequisites:* BIO120/121; BIO122/122D; two semesters of chemistry. BIO234/235, BIO332/333, or BIO354/355 is strongly recommended. *Corequisites:* Registration in BIO387 is required. *Offered:* Fall, odd # years.

**BIO387 • Immunology Lab.** 1 Credits.

Laboratory experience accompanying BIO384.

*Corequisites:* Registration in BIO384 is required. *Offered:* Fall, odd # years.

**BIO388 • Biochemistry I.** 3 Credits.

Physical and chemical properties of living systems with an emphasis on macromolecular interaction, structure, and function. Structure, classification, purification, and function of nucleic acids, proteins, carbohydrates, and lipids, including membrane transport and enzymology.

*Prerequisites:* BIO120/121; CHE226/227. BIO354/355 recommended. *Corequisites:* Registration in BIO389 is required. *Offered:* Fall. *Special Notes:* Not open to students who have taken CHE304/305. SP: Carries cross-credit in chemistry.



**BIO389 • Biochemistry I Lab.** 1 Credits.

Laboratory experience accompanying BIO388. Techniques include spectroscopy, chromatography, centrifugation, electrophoresis, and enzyme kinetics.

*Corequisites: Registration in BIO388 is required. Offered: Fall.*

**BIO396 • Molecular Biology.** 3 Credits.

Modern advanced molecular genetic research. Topics covered include regulation of gene expression during development, molecular biology of cancer, animal virology, eukaryotic gene organization, and methods in gene manipulation.

*Prerequisites: BIO332/333; one additional biology course; CHE224/225; CHE226/227. Corequisites: registration in BIO397 is required Offered: Spring.*

**BIO397 • Molecular Biology Lab.** 1 Credits.

Laboratory experience accompanying BIO396. Consists of research projects utilizing recombinant DNA/genetic engineering techniques.

*Corequisites: Registration in BIO396 is required. Offered: Spring.*

**BIO399 • Introduction to Research.** 1 Credits.

An introduction to research methodology in the biological sciences, with experience in the use of biological literature and an examination of how to distinguish and evaluate different types of scientific writing and presentations. Experience in the development of a research proposal.

*Prerequisites: Major in biology or related field; junior standing. Offered: Fall, spring Special Notes: Carries cross-credit in environmental studies.*

**BIO400 • Ultrastructure.** 3 Credits.

Electron microscopy as a tool in the sciences with emphasis on its use in biological investigation. Students prepare a portfolio of micrographs on a variety of material. Demonstrations, discussions, seminars, field trips, and individual practice.

*Prerequisites: BIO120/121. Corequisites: Registration in BIO401 is required Offered: Occasionally.*

**BIO401 • Ultrastructure Lab.** 1 Credits.

Laboratory experience accompanying BIO400.

*Corequisites: Registration in BIO400 is required. Offered: Occasionally.*

**BIO409 • Advanced Human Gross Anatomy.** 4 Credits.

For the undergraduate pre-health professions student. A regional approach to the study of anatomy through the supervised and directed student dissection of human cadavers. Identification of detailed structures and understanding their significance to the body.

*Prerequisites: BIO214/215, BIO224/225, or consent of instructor. Offered: Interim.*

**BIO481 • Internship in Biology.** 1-4 Credits.

A learning/practicing experience in which the student applies biological understanding and skills in an off-campus professional setting.

*Prerequisites: Major or minor in biology; junior or senior standing. Offered: Fall, spring.*

**BIO493 • Literature Review in Biology.** 1 Credits.

Thorough review of the primary and secondary literature pertaining to a particular question, problem, or phenomenon in the biological sciences. Culminates in written report that is presented orally in BIO499.

*Prerequisites: BIO399; senior standing; consent of instructor. Offered: Fall, spring.*

**BIO495 • Biology Seminar.** 1 Credits.

Readings and discussions of topics that relate biology to one's Christian faith.

*Prerequisites: BIO399; senior standing. Offered: Fall.*

**BIO496 • Biology Research.** 1 Credits.

Students collect original data through independent laboratory research or field research under the supervision of a faculty member.

*Prerequisites: BIO399; consent of instructor. Offered: Fall, spring.*

**BIO499 • Biology Symposium.** 1 Credits.

The presentation of scientific research and literature. Culminates in departmental symposium in which students present their original research or literature review.

*Prerequisites: BIO493 or BIO496. Offered: Fall, spring Special Notes: Carries cross-credit in environmental studies.*

## Off Campus Offerings

Several courses in the environmental area are available during the summer term through the Au Sable Institute of Environmental Studies. Any summer biology course may be used to fulfill the environmental requirement in the biology major. Summer term courses offered on a regular basis include: Field Botany, Natural Resources Practicum, Animal Ecology, and Water Resources. See the Au Sable advisor in the Department of Biology for additional course offerings and further details.

## B.A. in Biology

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4

BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab <sup>1</sup>	4
BIO399	Introduction to Research	1
BIO495	Biology Seminar	1
BIO493 or BIO496	Literature Review in Biology Biology Research	1
BIO499	Biology Symposium	1
Select one of the following from environmental area:		4
BIO310K	Human Impacts on Coral Reefs <sup>1</sup>	
BIO316 & BIO317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
BIO318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>1</sup>	
BIO324 & BIO325	Human Ecology and Human Ecology Lab	
BIO328 & BIO329	Invertebrate Biology and Invertebrate Biology Lab	
BIO330 & BIO331	Ecology and Ecology Lab	
BIO342 & BIO343	Aquatic Biology and Aquatic Biology Lab	
BIO346 & BIO347	Animal Behavior and Animal Behavior Lab	
BIO372 & BIO373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO380 & BIO383	Environmental Plant Biology and Environmental Plant Biology Lab	
Courses from Au Sable Institute of Environmental Studies		
Select one of the following from organismic area:		4
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	
BIO216 & BIO217	Human Physiology and Human Physiology Lab	
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
BIO326 & BIO327	Vertebrate Histology and Vertebrate Histology Lab	
BIO338 & BIO339	Endocrinology and Endocrinology Lab	
BIO358 & BIO359	Neurobiology and Neurobiology Lab	
BIO368 & BIO369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab	
BIO376 & BIO377	Animal Physiology and Animal Physiology Lab	
Select one of the following from cell and molecular area:		4
BIO234 & BIO235	Microbiology and Microbiology Lab	
BIO332 & BIO333	Genetics and Genetics Lab	
BIO354 & BIO355	Cell Biology and Cell Biology Lab	
BIO362 & BIO363	Developmental Biology and Developmental Biology Lab	
BIO384 & BIO387	Immunology and Immunology Lab	



BIO396 & BIO397	Molecular Biology and Molecular Biology Lab	
BIO388 & BIO389	Biochemistry I and Biochemistry I Lab	
BIO400 & BIO401	Ultrastructure and Ultrastructure Lab	
CHE304 & CHE305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
Electives from 200 level or above biology courses		16
Two chemistry courses, excluding CHE107/CHE107D and CHE200 or CHE208/CHE208D, plus one additional biology course numbered 200 or higher <sup>1</sup>		8
General Education		51-52
Electives		19-20
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Science Education 5-12: Life Science Emphasis

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>2</sup>	4
BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab <sup>2</sup>	4
BIO399	Introduction to Research	1
BIO495	Biology Seminar	1
BIO496	Biology Research	1
BIO499	Biology Symposium	1
Select one of the following from environmental area:		4
BIO310K	Human Impacts on Coral Reefs <sup>2</sup>	
BIO316 & BIO317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
BIO318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>2</sup>	
BIO324 & BIO325	Human Ecology and Human Ecology Lab	
BIO328 & BIO329	Invertebrate Biology and Invertebrate Biology Lab	
BIO330 & BIO331	Ecology and Ecology Lab	
BIO342 & BIO343	Aquatic Biology and Aquatic Biology Lab	
BIO346 & BIO347	Animal Behavior and Animal Behavior Lab	
BIO372 & BIO373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO380 & BIO383	Environmental Plant Biology and Environmental Plant Biology Lab	
Courses from Au Sable Institute of Environmental Studies		
Select one of the following in organismic area:		4
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	
BIO216 & BIO217	Human Physiology and Human Physiology Lab	
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	

BIO326 & BIO327	Vertebrate Histology and Vertebrate Histology Lab	
BIO358 & BIO359	Neurobiology and Neurobiology Lab	
BIO368 & BIO369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab	
BIO376 & BIO377	Animal Physiology and Animal Physiology Lab	
BIO338 & BIO339	Endocrinology and Endocrinology Lab	
Select one of the following from cell and molecular area:		4
BIO234 & BIO235	Microbiology and Microbiology Lab	
BIO332 & BIO333	Genetics and Genetics Lab	
BIO354 & BIO355	Cell Biology and Cell Biology Lab	
BIO362 & BIO363	Developmental Biology and Developmental Biology Lab	
BIO384 & BIO387	Immunology and Immunology Lab	
BIO396 & BIO397	Molecular Biology and Molecular Biology Lab	
BIO388 & BIO389	Biochemistry I and Biochemistry I Lab	
BIO400 & BIO401	Ultrastructure and Ultrastructure Lab	
CHE113 & 113D	General Chemistry I and General Chemistry I Lab <sup>2</sup>	4
CHE214 & CHE215	General Chemistry II and General Chemistry II Lab	4
GEL168 & 168D	Geology and Geology Lab <sup>2</sup>	4
PHY112 & 112D	Introduction to Astronomy and Introduction to Astronomy Lab <sup>2</sup>	4
PHY202 & 202D	Introductory Physics I and Introductory Physics I Lab <sup>2</sup>	4
PHY206 & PHY207	Introductory Physics II and Introductory Physics II Lab	4
Select one sequence from the following:		4
Any biology course from the above "select one of the following" listings		
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	
Select one of the following:		4
MAT123M	Precalculus <sup>2</sup>	
MAT124M	Calculus 1 <sup>2</sup>	
PSY230M	Introduction to Statistical Methods and Experimental Design <sup>2</sup>	
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1

EDU317GZ	Educational Equity <sup>2</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU420	Methods in Teaching Secondary Science	3
EDU429	Science Education Practicum in grades 5-8 or 5-12	1
EDU490	Student Teaching Block	15
General Education <sup>1</sup>		51-52

**Total Credits** **148-149**

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 138-139 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

Students must earn a grade of C or better in each content area and education course in the major (BIO, CHE, GEL, PHY, PSY, MAT, EDU). Courses with grades of C- or lower must be repeated.

Students with K-12 licensure in Science Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.S. in Biology

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4
BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab <sup>1</sup>	4
BIO399	Introduction to Research	1
BIO495	Biology Seminar	1
BIO493 or BIO496	Literature Review in Biology Biology Research	1
BIO499	Biology Symposium	1
Select one of the following from environmental area:		4
BIO310K	Human Impacts on Coral Reefs <sup>1</sup>	
BIO316 & BIO317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
BIO318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>1</sup>	
BIO324 & BIO325	Human Ecology and Human Ecology Lab	
BIO328 & BIO329	Invertebrate Biology and Invertebrate Biology Lab	
BIO330 & BIO331	Ecology and Ecology Lab	
BIO342 & BIO343	Aquatic Biology and Aquatic Biology Lab	
BIO346 & BIO347	Animal Behavior and Animal Behavior Lab	
BIO372 & BIO373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO380 & BIO383	Environmental Plant Biology and Environmental Plant Biology Lab	
Courses from Au Sable Institute of Environmental Studies		
Select one of the following from organismic area:		4
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	
BIO216 & BIO217	Human Physiology and Human Physiology Lab	

BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
BIO326 & BIO327	Vertebrate Histology and Vertebrate Histology Lab	
BIO358 & BIO359	Neurobiology and Neurobiology Lab	
BIO368 & BIO369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab	
BIO376 & BIO377	Animal Physiology and Animal Physiology Lab	
BIO338 & BIO339	Endocrinology and Endocrinology Lab	
Select one of the following from cell and molecular area:		4
BIO234 & BIO235	Microbiology and Microbiology Lab	
BIO332 & BIO333	Genetics and Genetics Lab	
BIO354 & BIO355	Cell Biology and Cell Biology Lab	
BIO362 & BIO363	Developmental Biology and Developmental Biology Lab	
BIO384 & BIO387	Immunology and Immunology Lab	
BIO396 & BIO397	Molecular Biology and Molecular Biology Lab	
BIO388 & BIO389	Biochemistry I and Biochemistry I Lab	
BIO400 & BIO401	Ultrastructure and Ultrastructure Lab	
CHE304 & CHE305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
Select one of the following sequences:		8
CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
CHE 208/208D	Accelerated General Chemistry (plus one additional biology course numbered 200 or greater) <sup>1</sup>	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	4
Select one of the following sequences:		8
PHY202 & 202D & PHY206 & PHY207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab <sup>1</sup>	
PHY292 & 292D & PHY296 & PHY297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab <sup>1</sup>	
Select one of the following:		3-4
MAT123M	Precalculus <sup>1</sup>	
MAT124M	Calculus 1 <sup>1</sup>	
MAT125	Calculus 2	
MAT207M or PSY230M	Statistical Analysis <sup>1</sup> Introduction to Statistical Methods and Experimental Design	

Electives from 200-level or above biology courses (of which 12 credits must be 300 level)	16
General Education	51-52
Electives	0
<b>Total Credits</b>	<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Biology

Select two of the following: 8

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>
BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab <sup>1</sup>

Electives from 200 level or above biology courses or the 100 level course not taken in the about "select" list 12

**Total Credits** 20

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Business and Economics

The purpose of the Department of Business and Economics is to engage students, staff, and faculty in the learning, teaching, and application of business and economic knowledge to increase the well-being of humankind. This goal is achieved by serving, being creatively involved with God and His creation, and pursuing the principles of love and justice in a diverse and complex world. As such, the department offers four majors:

1. business, which builds on a core of courses and is completed with an emphasis in marketing, international business, innovation and business analysis and analytics, entrepreneurship, human resources management, finance, or accounting;
2. accounting and finance;
3. economics and finance; and
4. economics.

In addition to the prescribed coursework, students are required to complete an internship in their area of interest. The minor in business or economics also complements majors chosen from other departments.

Studies prepare students for careers in business, government, and the not-for-profit sectors of the economy, as well as for graduate work in business, economics, public policy, and law.

## Majors in Business and Economics

- B.A. in Business (p. 80)
- B.S. in Accounting and Finance (p. 83)
- B.A. in Economics and Finance (p. 83)
- B.A. in Economics (p. 82)

## Minors in Business and Economics

- Business (p. 84)
- Economics (p. 84)

### **BUS100M • Business Calculus.** 3 Credits.

A non-trigonometric-based introduction to the concepts of the derivative and the integral with a focus on applications in business and economics.

*Prerequisites:* At least two years of high school algebra. *Offered:* Fall, spring.

### **BUS105 • Information Technology and Applications.** 3 Credits.

A basic understanding of computer technology, information technology, and business applications software. Students gain a working knowledge of computerized spreadsheets, databases, presentation software, and webpage design.

*Offered:* Fall, spring.

**BUS110 • Personal Finance.** 3 Credits.

Management and planning of personal and family finances. Emphasis given to budgeting, investments, individual income tax, and insurance.  
*Offered: Occasionally.*

**BUS130 • Business Problem Solving.** 3 Credits.

A foundation for understanding and solving business and economic problems. An introduction to business and economic concepts, terminology, and problems along with the mathematical skills needed to solve problems. Emphasis on understanding problems, solutions, and decision making, as well as beginning the development of critical-thinking skills needed for success in business and economics.

*Offered: Fall, spring.*

**BUS200 • Individual Tax Preparation.** 3 Credits.

A practical study of taxation through the eyes of the poor, elderly, and recent immigrants. Students gain an understanding of an urban community and barriers that keep residents from filing tax returns. Tax return preparation for the poor, elderly, and recent immigrants is studied.

*Prerequisites: BUS210. Offered: Interim.*

**BUS202Z • Introduction to International Business.** 3 Credits.

An introduction to international business involving off-campus study to expose students to critical concepts and the day-to-day practice of global business. Students interact with a culture through a series of activities. The countries under study vary from year to year.

*Offered: Interim.*

**BUS208 • Business Writing.** 4 Credits.

Preparing memos, business letters, reports, graphs, tables, resumes, and other media for presenting specialized information, including a long, business-oriented project. Emphasis on developing an easily readable, exact, and factual style. Includes writing and observing exercises, presentations, and grammar review where needed.

*Prerequisites: GES110 or GES244. Offered: Fall, spring.*

**BUS210 • Financial Accounting.** 4 Credits.

Basic financial accounting concepts and their application to the recording and reporting of business events.

*Prerequisites: BUS100M, BUS130, or MAT124M. Offered: Fall, spring.*

**BUS220 • Principles of Marketing.** 4 Credits.

Role of marketing in society and the economy. The business firm as a marketing system. Management of the firm's marketing effort.

*Prerequisites: BUS100M, BUS130, or MAT124M; ECO201 (may be taken concurrently). Offered: Fall, spring.*

**BUS230 • Principles of Management.** 4 Credits.

Fundamentals of managerial activities: planning, organizing, leading, and controlling organizational activity.

*Prerequisites: BUS100M or BUS130 or MAT124M. Offered: Fall, spring.*

**BUS231 • Human Resource Management.** 3 Credits.

Role of human resource management within organizations. Overview of human resource planning, job analysis, staffing and selection, training, development, compensation and benefits, and employee relations. Understanding how employment and discrimination law affects the workplace.

*Prerequisites: BUS230 or COM248. Offered: Fall, spring.*

**BUS232 • Innovation and Entrepreneurship.** 3 Credits.

Practical problems associated with starting and operating a small business, including feasibility analysis, innovation, entrepreneurship, legal and financial aspects, accounting, marketing, and personnel management.

*Prerequisites: BUS220; BUS230. Offered: Spring.*

**BUS300 • Topics in Business and Administration.** 3 Credits.

Special topics in business, particularly as they relate to current issues and contemporary developments. Specific topics and prerequisites announced in advance of registration.

*Prerequisites: Related courses as specified. Offered: Occasionally.*

**BUS306 • Public Administration.** 3 Credits.

How public policy is put into effect through the administrative agencies of government, the management problems of such agencies, and their relations with the public.

*Prerequisites: POS100 recommended. Offered: Spring. Special Notes: Carries cross-credit in political science.*

**BUS307 • Psychology of Investing.** 3 Credits.

The study of the psychology of investing by utilizing behavioral finance theory: the concepts surrounding socially responsible investing. One week of the course provides a hands-on learning experience at a Twin Cities investment banking firm developing and applying investment analysis skills.

*Prerequisites: BUS390 or consent of instructor. Offered: Interim, occasionally.*

**BUS310 • Intermediate Accounting I.** 4 Credits.

Theories of accounting, accounting practice related to current asset measurement, and reporting. Analysis and evaluation of the measurement and reporting on noncurrent assets and current liabilities.

*Prerequisites: BUS210. Offered: Fall.*

**BUS311 • Intermediate Accounting II.** 4 Credits.

Current and alternative accounting theories relating to long-term liabilities, stockholders' equity, special income determination problems, and other accounting topics of current interest.

*Prerequisites: BUS310. Offered: Spring.*

**BUS312Z • Federal Income Taxes.** 3 Credits.

Current federal income tax law as it pertains to individuals, corporations, and partnerships. Includes the concept of taxable income and covers tax planning and tax determination within the provisions of the law.

*Prerequisites: BUS200. Offered: Spring.*

**BUS313 • Strategic Managerial Accounting.** 3 Credits.

Compilation and utilization of internal accounting information for managerial decision making.

*Prerequisites: BUS210. Offered: Occasionally fall, spring.*

**BUS315 • Sales and Sales Management.** 3 Credits.

Emphasizes the concepts and practices of selling and sales management. Provides a guide for preparing sales presentations, one-on-one selling techniques, persuasive communication, oral and verbal presentation skills useful for one-to-one presentations, and the unique concepts of managing a sales team.

*Prerequisites: BUS220. Offered: Occasionally.*

**BUS317 • Business Analytics.** 4 Credits.

Applies descriptive, predictive, and prescriptive analytics of data and facts to decision making in business. Covers techniques of simulation and decision tree analysis using Excel.

*Prerequisites: BUS100M, BUS130, MAT207M; BUS344. Offered: Fall.*

**BUS318G • Global Marketing.** 3 Credits.

Study of marketing concepts and decision-making processes relative to individuals and firms engaged in the global marketplace. An examination of key strategies of global marketing and mission-critical variables including cultural distinctives, role of language and values, politics and laws, pricing norms, product values, and promotional environment.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]; BUS220. One business course recommended. Offered: Fall, spring.*

**BUS319 • Advertising and Promotion.** 3 Credits.

Principles and techniques of advertising, sales promotion, and public relations. Considers customer motivation, ad copy, physical layout of ads and promotional pieces, media selection, advertising budgets, and coordination of advertising and sales promotion campaigns.

*Prerequisites: BUS220. Offered: Fall, spring.*

**BUS321 • Marketing Research.** 3 Credits.

Marketing research methods, including design, sampling, data collection, and report writing. A research design project is an integral part of the course.

*Prerequisites: BUS220; MAT207M. Offered: Fall, occasionally spring.*

**BUS324 • Consumer Behavior.** 3 Credits.

A systematic examination of the behavioral, economic, cultural, and systemic factors that influence the behavior of the consumer. Students read relevant research in consumer behavior and design and complete a series of projects exploring the major course topics.

*Prerequisites: BUS220. Offered: Fall, spring.*

**BUS327 • Marketing and Management in Spain.** 3 Credits.

Theoretical and practical concepts of marketing and management in the semi-globalized world. Understand the significant challenges globalization presents to management and marketing, specifically in the context of Spain. Business terminology and reality in a Spanish business environment.

*Prerequisites: SPA202. Offered: Spain Term, fall. Special Notes: Carries cross-listing in Modern World Languages. This class is taught and assignments are completed in Spanish.*

**BUS330 • Compensation Theory and Practice.** 3 Credits.

Compensation and reward practices in organizations' wage and salary administration. Theories of design and implementation of pay programs using job evaluation, salary surveys, job and skill-based pay, incentive pay, and other compensation systems.

*Prerequisites: BUS231. Offered: Fall.*

**BUS331 • Staffing, Training and Development.** 3 Credits.

Theories and strategies for maximizing the potential of an organization's workforce. Explores methods for recruiting and selecting employees, orienting them to an organization, using training to properly equip them for their positions, and facilitating career development. Hands-on approach to designing and analyzing surveys, selection tests, and needs assessments.

*Prerequisites: BUS231. Offered: Spring.*

**BUS333 • Entrepreneurship Strategies and Tools.** 3 Credits.

Strategic and tactical tools associated with starting and operating a small or entrepreneurial business. Students develop an understanding of how to move from the development of a business plan to actually financing and running a small business.

*Prerequisites: BUS210; BUS232; ECO201. Offered: Fall.*



**BUS334 • Principles of Project Management.** 3 Credits.

Explanation of the theory and practice of effective project management, including project planning, risk analysis, execution/implementation, and control. Explores project management styles, critical success factors, organizational support systems that enhance projects, project authority and politics, and ethics in project execution. Uses project management software to develop and track project plans for class case studies and project simulations.

*Prerequisites: BUS230 or COM248. Offered: Spring.*

**BUS335 • Organizational Behavior.** 3 Credits.

Factors that influence the effectiveness of organizations. Topics include the role of the individual (motivation, personality, learning, work-related attitudes), the group (teamwork, conflict and cooperation, communication), and the organization (organizational design and structure, culture, change processes) in organizational performance.

*Prerequisites: BUS230. Offered: Spring.*

**BUS342GZ • International Market Issues.** 3 Credits.

Intensive study of economics and marketing in an international context. Students study the dynamics of the economy and markets through site visits, thereby developing cross-cultural competencies for the global marketplace.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]; consent of instructor. Offered: Occasionally interim.*

**BUS344 • Managerial Finance.** 4 Credits.

Principles of financial management, including financial analysis, capital structures, working capital management, and investment decisions.

*Prerequisites: BUS210. Offered: Fall, spring.*

**BUS352 • Financial Valuation.** 3 Credits.

Builds on principles of finance through the use of case studies and Excel modeling to identify, quantify, and manage business risks. Includes developing and utilizing intermediate-level financial analysis skills, critical-thinking objectives, and demonstration of an ability to synthesize material into a defined model of financial valuation.

*Prerequisites: BUS344. Offered: Fall, spring.*

**BUS361 • Business Law.** 3 Credits.

An introduction to the legal aspects and general structure of business dealings. Topics include an overview of the American legal system, general contract law, pertinent parts of the Uniform Commercial Code, and various forms of business organizations. Some aspects of employment and real estate law are also covered.

*Prerequisites: BUS230 and one other 200-level business course. Offered: Fall, spring.*

**BUS370G • International Business.** 3 Credits.

International business as a bridge between diverse social systems. A panorama of the most important activities in international business and a framework for thinking about them from the perspective of the company manager.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. One business course recommended. Offered: Fall, spring.*

**BUS371G • International Business-Europe.** 4 Credits.

International business as a bridge between diverse social systems. A panorama of the most important activities in international business and a framework for thinking about them from the perspective of the company manager.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]; enrollment in the Europe Term. One business course recommended. Offered: Occasionally.*

**BUS390 • Investments.** 4 Credits.

Characteristics and interrelationships of investments, the operation and regulation of the markets, analysis of risk and return, valuation of speculative assets, portfolio planning, and timing and trading strategies.

*Prerequisites: BUS344. Offered: Fall, spring.*

**BUS410 • Advanced Accounting.** 3 Credits.

Principles and problems relating to partnerships, international accounting, consolidated financial statements, corporate mergers, and governmental accounting.

*Prerequisites: BUS311. Offered: Fall.*

**BUS414 • Auditing Principles and Procedures.** 4 Credits.

Auditing objectives, standards, and procedures employed in the examination of business enterprises and verification of their financial statements. Includes an evaluation of internal control, preparation of work papers, report writing, professional ethics, and current trends.

*Prerequisites: BUS311 and senior standing. Offered: Spring.*

**BUS420 • Marketing Seminar.** 3 Credits.

Capstone course in the marketing emphasis. Main course elements include case study analysis where students integrate prior course knowledge with relevant brand examples. Students utilize critical and ethical analysis of marketing practices and develop marketing strategies and plans with a real client.

*Prerequisites: Three of the following: BUS315, BUS318G, BUS319, BUS321, or BUS324; senior standing. Offered: Fall, spring.*

**BUS430 • Strategic Management.** 3 Credits.

Strategy and policy formulation and implementation from the general manager's perspective. Includes written and oral analyses of comprehensive cases involving multifunctional applications.

*Prerequisites: BUS220; BUS230; BUS344. Offered: Fall.*

**BUS440 • Capital Markets.** 3 Credits.

Comprehensive overview of the capital markets with an emphasis on major financial institutions and international financial centers. Evaluation of managing risk within the context of the capital markets in both a domestic and a global economy.

*Prerequisites: BUS390 or consent of instructor. Offered: Fall, spring.*

**BUS470 • Finance Seminar.** 3 Credits.

Capstone course in the finance emphasis. Systematic examination of financial, economic, cultural, ethical, and systemic factors that influence financial decision making. Through a case study approach, students integrate the theories and practices learned in other finance courses. Use of Excel to complete detailed analysis.

*Prerequisites: BUS344; BUS390 (may be taken concurrently). Offered: Fall, spring.*

**BUS475 • Innovation and Entrepreneurship Seminar.** 3 Credits.

Development of an individualized and intensive personal business plan as major course project. Plan is submitted to a panel of entrepreneurs to evaluate as part of a competition. Seniors are evaluated on their written plan, their presentation, and the overall viability of the proposed new venture. Includes ethical discussions, entrepreneurial guest speakers, and case analyses of entrepreneurial ventures.

*Prerequisites: BUS333. Offered: Spring.*

**BUS481 • Internship in Business.** 3-4 Credits.

A learning/practicing experience to apply understanding and skills in an off-campus professional setting. Includes participation in an online course with weekly assignments.

*Prerequisites: Major or minor within the business and economics department; completion of 20 credits of BUS/ECO courses; consent of department. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring, summer.*

**BUS493 • Seminar - Human Resource Management.** 3 Credits.

Capstone course in human resource management emphasis. Integration of theories and practices learned in other courses through casework and practical exercises focused on equipping students to enter the HR labor market. Examines ethical questions that influence HR decision making.

*Prerequisites: Senior standing in the HR emphasis. Offered: Spring.*

**ECO200 • Economics of Public Policy Analysis.** 3 Credits.

Economic analysis of government programs, focusing on programs that provide essential services or financial assistance to the needy. Emphasis on careful definition of goals, measuring success, and evaluation of alternatives.

*Offered: Spring. Special Notes: Students may not receive credit for both ECO200 and ECO201.*

**ECO201 • Principles of Economics.** 4 Credits.

Economic reasoning and concepts. Includes an examination of the role of a price system in allocating resources and income, government policies for dealing with unemployment and inflation, and moral questions raised by the free enterprise system.

*Offered: Fall, spring. Special Notes: Students may not receive credit for both ECO200 and ECO201.*

**ECO225L • The Redevelopment of Central City Neighborhoods.** 3 Credits.

The holistic redevelopment of low-income communities using models and ideas from various disciplines: community development, urban planning, economics, federal and state government, and for-profit businesses.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Spring.*

**ECO301 • Intermediate Microeconomics.** 3 Credits.

Models of consumption, production, and pricing in competitive and noncompetitive markets.

*Prerequisites: ECO201. Offered: Fall, spring.*

**ECO302 • Intermediate Macroeconomics.** 3 Credits.

Models of real output and monetary behavior. Policies affecting unemployment, inflation, and economic growth.

*Prerequisites: ECO201. Offered: Fall, spring.*

**ECO305 • International Trade and Finance.** 3 Credits.

Evaluation of alternative trade policies (free trade, tariffs, and nontariff barriers) and the international financial system (foreign exchange rates and balance of payments).

*Prerequisites: ECO201. Offered: Spring.*

**ECO310 • History of Economic Thought.** 3 Credits.

Economic thinking from Smith to Keynes. Emphasis on both history and philosophy of the evolution of economic thought.

*Prerequisites: ECO201. Offered: Occasionally.*

**ECO320G • Economic Development of Less-Developed Countries.** 3 Credits.

Evaluation of economic policies to promote economic development in low- and middle-income countries. Emphasis on the potential for growth that is both fair and sustainable.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.*

**ECO340 • Econometrics.** 4 Credits.

Computer-aided estimation of business and economic relationships. Understanding correct use of multiple regression analysis in testing hypotheses using time-series and cross-sectional data.

*Prerequisites:* ECO301; ECO302 (one of two can be taken concurrently with ECO340); MAT207M; a college-level calculus course. Offered: Spring.

**ECO401 • Advanced Economic Theory.** 3 Credits.

Mathematical treatment of economic theory, emphasizing calculus.

*Prerequisites:* ECO301; ECO302; college-level course in calculus; senior standing or consent of instructor. Offered: Fall.

**ECO499 • Senior Seminar.** 3 Credits.

The integration of Christian faith with the theory and practice of business and economics.

*Prerequisites:* Senior standing; economics major or minor, or economics and finance major. Offered: Fall.

## B.A. in Business

### Core Courses <sup>1</sup>

BUS100M or BUS130	Business Calculus <sup>2,3,4</sup> Business Problem Solving	3
BUS105	Information Technology and Applications <sup>5</sup>	3
BUS210	Financial Accounting	4
BUS220	Principles of Marketing	4
BUS230	Principles of Management	4
BUS344	Managerial Finance	4
BUS361	Business Law	3
BUS481	Internship in Business <sup>6</sup>	3-4
ECO201	Principles of Economics	4
MAT207M	Statistical Analysis <sup>2</sup>	3
<b>Select one emphasis from the Emphases tab</b>		24-30
<b>General Education</b>		51-52
<b>Electives</b>		12-20
<b>Total Credits</b>		<b>122-138</b>

<sup>1</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS481), students must earn a minimum grade of *D* in each of the core courses. However, to complete the business major, students must have earned a minimum grade of *C* in each of the core courses.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>3</sup> Students in the Business Analysis and Analytics Emphasis must take BUS100M.

<sup>4</sup> Students considering graduate school in business are strongly encouraged to take BUS100M. (MAT124M may be used as a substitute.)

<sup>5</sup> Not required of students who minor in management information systems in the Department of Math and Computer Science.

<sup>6</sup> Students in the Accounting Emphasis must take Internship in Business: Accounting.

## Accounting Emphasis (27-28 credits)

BUS200	Individual Tax Preparation	3
BUS310	Intermediate Accounting I	4
BUS311	Intermediate Accounting II	4
BUS312Z	Federal Income Taxes <sup>1</sup>	3
BUS313	Strategic Managerial Accounting	3
BUS410	Advanced Accounting	3
BUS414	Auditing Principles and Procedures	4
Economics elective, including ECO301 and above		3-4
<b>Total Credits</b>		<b>27-28</b>

## Business Analysis and Analytics Emphasis <sup>2</sup> (27-29 credits)

COS100	Introduction to Programming	3
BUS317	Business Analytics	4
BUS334	Principles of Project Management	3
BUS417		3

BUS430	Strategic Management	3
ECO301	Intermediate Microeconomics	3
or ECO302	Intermediate Macroeconomics	
Select two of the following:		6-8
BUS321	Marketing Research	
BUS352	Financial Valuation	
ECO340	Econometrics	
COM215	Web Design for Mass Media	
COS105	Computer Science 1	
COS212	Computer Science 2	
Business, economics, or computer science elective course <sup>3</sup>		3-4
<b>Total Credits</b>		<b>28-31</b>

## Finance Emphasis (25-26 credits)

BUS310	Intermediate Accounting I	4
or BUS313	Strategic Managerial Accounting	
BUS352	Financial Valuation	3
BUS390	Investments	4
BUS440	Capital Markets	3
BUS470	Finance Seminar	3
ECO302	Intermediate Macroeconomics	3
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100 level)		6
<b>Total Credits</b>		<b>26</b>

## Human Resource Management Emphasis (27 credits)

BUS231	Human Resource Management	3
BUS330	Compensation Theory and Practice	3
BUS331	Staffing, Training and Development	3
BUS335	Organizational Behavior	3
BUS430	Strategic Management	3
BUS493	Seminar - Human Resource Management	3
ECO301	Intermediate Microeconomics	3
or ECO302	Intermediate Macroeconomics	
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100 level) <sup>3</sup>		6
<b>Total Credits</b>		<b>27</b>

## Innovation and Entrepreneurship Emphasis (27 credits)

BUS231	Human Resource Management	3
BUS232	Innovation and Entrepreneurship	3
BUS333	Entrepreneurship Strategies and Tools	3
BUS475	Innovation and Entrepreneurship Seminar	3
ECO301	Intermediate Microeconomics	3
BUS334	Principles of Project Management	3
or BUS430	Strategic Management	
Select one of the following:		3
BUS315	Sales and Sales Management	
BUS319	Advertising and Promotion	
BUS324	Consumer Behavior	
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100-200 level) <sup>4</sup>		6
<b>Total Credits</b>		<b>27</b>

## International Emphasis (24-25 credits)

BUS318G	Global Marketing	3
BUS370G	International Business <sup>1</sup>	3
BUS202Z	Introduction to International Business (or other approved international experience) <sup>1,5</sup>	3
or BUS342GZ	International Market Issues	
ECO302	Intermediate Macroeconomics	3
or ECO305	International Trade and Finance	
MWL	Two (200-level or higher) modern world language courses <sup>1</sup>	6
Electives from business and/or economic courses (minimum 3 credits)		3
<b>Total Credits</b>		<b>21</b>

## Marketing Emphasis

BUS420	Marketing Seminar	3
ECO301	Intermediate Microeconomics	3
Select three of the following:		9
BUS315	Sales and Sales Management	
BUS318G	Global Marketing	
BUS319	Advertising and Promotion	
BUS321	Marketing Research	
BUS324	Consumer Behavior	
Select one of the following:		3-4
Economics elective, including ECO302 and above		
BUS208	Business Writing	
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100 level) <sup>3</sup>		6
<b>Total Credits</b>		<b>24-25</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Students in the Business Analysis and Analytics Emphasis must take BUS100M.

<sup>3</sup> Not required of students who minor in management information systems in the Department of Math and Computer Science.

<sup>4</sup> COS105, COS212, COS216, COS313, COS377 may be used as business and/or economics electives.

<sup>5</sup> BUS 202Z may be waived by petition upon the completion of an international study experience with prior approval of the department.

## B.A. in Economics

### Core Courses <sup>1</sup>

ECO201	Principles of Economics	4
MAT207M	Statistical Analysis <sup>2</sup>	3
BUS100M	Business Calculus <sup>2</sup>	3-4
or MAT124M	Calculus 1	

### Additional Required Courses

ECO301	Intermediate Microeconomics	3
ECO302	Intermediate Macroeconomics	3
ECO340	Econometrics	4
ECO401	Advanced Economic Theory	3
ECO499	Senior Seminar	3
BUS481	Internship in Business	3-4
Electives from 200-level or above economics courses, excluding ECO200		9

**General Education** 51-52

**Electives** 33-35

**Total Credits** 122-127

<sup>1</sup> Students majoring in economics must complete their core courses with a minimum grade of C in order to successfully complete the economics major.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

Students considering graduate studies in economics should select MAT125 and MAT211 and give consideration to earning a mathematics minor.

## B.A. in Economics and Finance

### Core Courses <sup>1</sup>

BUS105	Information Technology and Applications	3
BUS210	Financial Accounting	4
BUS220	Principles of Marketing	4
BUS230	Principles of Management	4
BUS344	Managerial Finance	4
BUS361	Business Law	3
BUS481	Internship in Business	3-4
MAT207M	Statistical Analysis <sup>2</sup>	3
BUS100M or MAT124M	Business Calculus <sup>2</sup> Calculus 1	3-4

### Additional Required Courses

BUS390	Investments	4
BUS440	Capital Markets	3
ECO201	Principles of Economics	4
ECO301	Intermediate Microeconomics	3
ECO302	Intermediate Macroeconomics	3
ECO340	Econometrics	4
ECO401	Advanced Economic Theory	3
ECO499	Senior Seminar	3
Elective from business and/or economics courses, excluding ECO200		3

### General Education

51-52

### Electives

10-13

### Total Credits

122-128

<sup>1</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS481), students must have earned a minimum grade of *D* in each of the core courses. However, to complete the economics and finance major, students must earn a minimum grade of *C* in each of the core courses.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

## B.S. in Accounting and Finance

### Core Courses <sup>1</sup>

BUS100M	Business Calculus <sup>2,3</sup>	3
BUS105	Information Technology and Applications <sup>4</sup>	3
BUS210	Financial Accounting	4
BUS220	Principles of Marketing	4
BUS230	Principles of Management	4
BUS344	Managerial Finance	4
BUS361	Business Law	3
BUS481	Internship in Business <sup>5</sup>	3-4
ECO201	Principles of Economics	4
MAT207M	Statistical Analysis <sup>2</sup>	3

### Additional Required Courses

BUS200	Individual Tax Preparation	3
BUS310	Intermediate Accounting I	4
BUS311	Intermediate Accounting II	4
BUS312Z	Federal Income Taxes <sup>2</sup>	3
BUS313	Strategic Managerial Accounting	3

BUS390	Investments	4
BUS410	Advanced Accounting	3
BUS414	Auditing Principles and Procedures	4
BUS440	Capital Markets	3
BUS470	Finance Seminar	3
ECO301	Intermediate Microeconomics	3
ECO302	Intermediate Macroeconomics	3
Select two of the following:		6-7
BUS208	Business Writing	
BUS370G	International Business <sup>2</sup>	
or BUS202Z	Introduction to International Business	
ECO305	International Trade and Finance	
<b>Electives (a minimum of 15 credits must be taken outside the Department of Business and Economics) <sup>6</sup></b>		18-22
<b>General Education</b>		51-52
<b>Total Credits</b>		<b>150-157</b>

- <sup>1</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS481), students must earn a minimum grade of *D* in each of the core courses. However, to complete the accounting and finance major, students must have earned a minimum grade of *C* in each of the core courses.
- <sup>2</sup> A student may also choose to use this course to meet a General Education requirement.
- <sup>3</sup> MAT124M may be used as a substitute.
- <sup>4</sup> Not required of students who minor in computer science or management information systems in the Department of Math and Computer Science.
- <sup>5</sup> This internship must be specifically dedicated toward accounting to fulfill current state-mandated requirements of 24 credits of upper division accounting courses. A maximum of six credits for internships can qualify for the 150-credit requirement under rules promulgated by the Minnesota State Board of Accountancy.
- <sup>6</sup> These electives are a required component of the major. It is recommended that a minor in a discipline other than business or economics be completed to fulfill some of these electives.

## Minor in Business

BUS100M	Business Calculus <sup>1,2</sup>	3
or BUS130	Business Problem Solving	
BUS210	Financial Accounting	4
BUS220	Principles of Marketing	4
BUS230	Principles of Management	4
BUS344	Managerial Finance	4
ECO201	Principles of Economics	4
<b>Total Credits</b>		<b>23</b>

- <sup>1</sup> MAT124M may be used as a substitute.
- <sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Economics

ECO201	Principles of Economics	4
ECO301	Intermediate Microeconomics	3
or ECO302	Intermediate Macroeconomics	
Electives from 200-level or above economics courses, excluding ECO200		12
<b>Total Credits</b>		<b>19</b>



# Chemistry

The study of chemistry is concerned with the composition, structure, properties, and transformations of matter. It attempts to gain understanding of the processes of our physical world. In many ways, chemistry is the central science, having foundation in mathematics and physics and, in turn, underlying the life sciences. It is theoretical and yet practical; it emphasizes analytical skills and yet depends on creativity and problem solving.

The chemistry program prepares students for graduate study and professional careers in education, academic research, industry, and engineering. A major in the chemistry program is also an excellent choice for students in the health sciences and preprofessional programs, including medicine, dentistry, law, and pharmacy.

**Advanced Placement:** The chemistry department requires a score of 4 or better on the AP exam in order for the exam to be used to fulfill course requirements in the majors it offers. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements. Students should consult the department chair with questions about AP exams and requirements for majors.

## Pre-medicine and Other Healthcare Professional Programs

(See Pre-professional section)

Chemical Engineering

A bachelor's degree in chemical engineering is available through a special dual degree program described in the Engineering section of this catalog.

## Majors in Chemistry

- B.A. in Chemistry (p. 88)
- B.S. in Chemistry (p. 89)
- B.S. in Biochemistry/Molecular Biology (p. 182) (See Multidisciplinary section)
- B.A. in Science Education 5-12: Chemistry Emphasis (p. 88)

## Minor in Chemistry

- Chemistry (p. 90)

**CHE101 • Introduction to Chemistry.** 3 Credits.

Overview of atoms—their composition, their ability to form bonds, and their ability to interact as molecules. Designed for nursing and allied health fields. First of a two-course sequence.

*Corequisites: Registration in CHE101D is required. Offered: Fall, spring.*

**CHE101D • Introduction to Chemistry Lab.** 1 Credits.

Laboratory experience accompanying CHE101.

*Corequisites: Registration in CHE101 is required. Offered: Fall, spring.*

**CHE106 • Introduction to Nutrition.** 3 Credits.

Overview of macromolecules and their function in heredity and metabolism. An introduction to human nutrition and health. Designed for nursing and allied health fields. Second of a two-course sequence.

*Prerequisites: CHE101/101D. Offered: Spring. Corequisites: Registration in CHE106D is required.*

**CHE106D • Introduction to Nutrition Lab.** 1 Credits.

Laboratory experience accompanying CHE106.

*Prerequisites: CHE101/101D. Offered: Spring. Corequisites: Registration in CHE106 is required.*

**CHE107 • Modern Alchemy: Chemistry for Non-Scientists.** 3 Credits.

The chemical world of foods, food additives, agriculture, household chemicals, plastics, medicines, drugs, environmental concerns, and energy production. An overview of chemical concepts, but emphasis is on applications of chemistry and their implications for society.

*Corequisites: Registration in CHE107D is required. Offered: Interim.*

**CHE107D • Modern Alchemy: Chemistry for Non-Scientists Lab.** 1 Credits.

Laboratory experience accompanying CHE107.

*Corequisites: Registration with CHE107 is required. Offered: Interim.*

**CHE113 • General Chemistry I.** 3 Credits.

Chemical properties and principles, structure and reactivity, stoichiometry, thermodynamics, atomic theory, states of matter, and behavior of solutions. Laboratory includes application of these principles in exploring chemical properties and reactivity, and computer data collection and modeling.

*Prerequisites: Two years of high school math; high school chemistry or consent of instructor. Offered: Fall. Corequisites: Registration in CHE113D is required.*

**CHE113D • General Chemistry I Lab.** 1 Credits.

Laboratory experience accompanying CHE113.

*Corequisites: Registration in CHE113 is required. Offered: Fall.*

**CHE200 • Laboratory Safety and Chemical Hygiene.** 1 Credits.

High standards of safety and chemical hygiene make the science laboratory a safe, comfortable, interesting place to work. This course reviews the standards and federal/state guidelines pertaining to safety and hygiene in the laboratory.

*Prerequisites: One year of high school chemistry; one semester of college-level science. Offered: Fall.*

**CHE208 • Accelerated General Chemistry.** 3 Credits.

Chemical properties and principles, stoichiometry, structure, reactivity, atomic theory, states of matter, solutions, thermodynamics, kinetics, equilibria, acids and bases, electrochemistry, descriptive inorganic chemistry, and nuclear chemistry. Intended for science and engineering students who have a strong math background.

*Prerequisites: MAT124M (may be taken concurrently). Corequisites: Registration in CHE208D is required. Offered: Fall Special Notes: Meets the same requirements of CHE113/113D and CHE214/215.*

**CHE208D • Accelerated General Chemistry Lab.** 1 Credits.

Laboratory experience accompanying CHE208.

*Corequisites: Registration in CHE208 is required. Offered: Fall.*

**CHE214 • General Chemistry II.** 3 Credits.

Study of chemical kinetics, thermodynamics, solution equilibria, acids and bases, electrochemistry, descriptive inorganic chemistry, and nuclear chemistry.

*Prerequisites: CHE113/113D. Offered: Spring. Corequisites: Registration in CHE215 is required.*

**CHE215 • General Chemistry II Lab.** 1 Credits.

Laboratory experience accompanying CHE214.

*Corequisites: Registration with CHE214 is required. Offered: Spring.*

**CHE224 • Organic Chemistry I.** 3 Credits.

Structure, classification, and function of organic compounds; bonding theory, stereochemistry, organic reaction mechanisms, energy relations, and spectroscopy.

*Prerequisites: CHE214/215 or CHE208/208D. Offered: Fall. Corequisites: Registration in CHE225 is required.*

**CHE225 • Organic Chemistry I Lab.** 1 Credits.

Laboratory experience accompanying CHE224. Includes introduction to techniques of measurement, analysis, separation, synthesis, and purification of organic compounds.

*Corequisites: Registration with CHE224 is required. Offered: Fall.*

**CHE226 • Organic Chemistry II.** 3 Credits.

Mechanism and classification of organic reactions, particularly carbon-carbon bond-forming reactions involving carbonyl compounds. Mechanistic organic chemistry applied to polymers and biochemical pathways.

*Prerequisites: CHE224/225. Offered: Spring. Corequisites: Registration in CHE227 is required.*

**CHE227 • Organic Chemistry II Lab.** 1 Credits.

Laboratory experience accompanying CHE226. Laboratory includes synthesis, separation, purification, and identification of organic compounds. Offered: Spring.

*Corequisites: Registration in CHE226 is required.*

**CHE304 • Essentials of Biochemistry.** 3 Credits.

A survey of the structure, function, interactions, and chemical properties of the four major macromolecules: proteins, nucleic acids, lipids, and carbohydrates. Examination of primary metabolic pathways, bioenergetics, regulation, and homeostasis.

*Prerequisites: CHE224/225; BIO120/121. Not open to students who have taken BIOCHE388/389. Offered: Fall.*

**CHE305 • Essentials of Biochemistry Lab.** 1 Credits.

Laboratory experience accompanying CHE304.

*Corequisites: Registration in CHE304 is required. Offered: Fall.*

**CHE306 • Advanced Organic Chemistry.** 3 Credits.

Bonding, kinetics, mechanisms of reactions, stereochemistry, and structure determination of organic compounds.

*Prerequisites: CHE226/227; CHE344/345. Offered: Spring, even # years.*

**CHE307 • Advanced Organic Chemistry Lab.** 1 Credits.

Laboratory experience accompanying CHE306.

*Corequisites: Registration in CHE306 is required. Offered: Spring, even # years.*

**CHE312 • Analytical Chemistry I.** 3 Credits.

Principles and practice of modern quantitative analysis. Ionic equilibria, data analysis, sample preparation, spectroscopy, chromatography, and electrochemical techniques, in addition to classical and modern methods of analysis.

*Prerequisites: CHE214/215 or CHE208/208D. Offered: Spring. Corequisites: Registration in CHE313 is required.*

**CHE313 • Analytical Chemistry I Lab.** 1 Credits.

Laboratory experience accompanying CHE312.

*Corequisites: Registration in CHE312 is required. Offered: Spring.*

**CHE320 • Analytical Chemistry II.** 3 Credits.

Methods of instrumental analysis. Study of chemical and physical principles and practical application of spectrophotometric, chromatographic, and electroanalytical techniques, as well as fundamental electronic circuitry and computer data acquisition and control.

*Prerequisites:* CHE312/313. *Offered:* Fall. *Corequisites:* Registration in CHE321 is required.

**CHE321 • Analytical Chemistry II Lab.** 1 Credits.

Laboratory experience accompanying CHE320.

*Corequisites:* Registration in CHE320 is required. *Offered:* Fall.

**CHE344 • Thermodynamics, Kinetics, and Statistical Mechanics.** 3 Credits.

Physical chemistry of the laws of thermodynamics and their application to phase equilibria and chemical equilibria. Chemical kinetics of reaction rates and reaction mechanisms. Statistical mechanics as it relates spectroscopy with thermodynamics and kinetics.

*Prerequisites:* CHE214/215, CHE208/208D; PHY292/292D; PHY296/297; MAT125. *Offered:* Fall. *Corequisites:* Registration in CHE345 is required.

**CHE345 • Thermodynamics, Kinetics, and Statistical Mechanics Lab.** 1 Credits.

Laboratory experience accompanying CHE344. Includes hands-on experience with physiochemical systems and computational modeling.

*Corequisites:* Registration in CHE344 is required. *Offered:* Fall.

**CHE348 • Quantum Chemistry and Spectroscopy.** 3 Credits.

Physical chemistry of the laws of quantum mechanics applied to atoms and molecules. Quantum mechanical solutions of model systems and their application to chemical spectroscopy.

*Prerequisites:* CHE208/208D, CHE214/215; PHY292/292D; PHY296/297; MAT125. *Offered:* Spring. *Corequisites:* Registration in CHE349 is required.

**CHE349 • Quantum Chem and Spectroscopy Lab.** 1 Credits.

Laboratory experience accompanying CHE348. Includes hands-on experience with physiochemical systems and computational modeling.

*Corequisites:* Registration in CHE348 is required. *Offered:* Spring.

**CHE364 • Advanced Inorganic Chemistry.** 3 Credits.

Chemistry of elements and their compounds, including symmetry, bonding theories, solid-state chemistry, coordination compounds, organometallics, and bioinorganic compounds.

*Prerequisites:* One year of organic chemistry or junior standing; CHE344/345. *Offered:* Spring. *Corequisites:* Registration in CHE365 is required.

**CHE365 • Advanced Inorganic Chemistry Lab.** 1 Credits.

Laboratory experience accompanying CHE364. Laboratory includes synthesis and characterization of inorganic compounds.

*Corequisites:* Registration in CHE364 is required. *Offered:* Spring.

**CHE388 • Biochemistry I.** 3 Credits.

Physical and chemical properties of living systems with an emphasis on macromolecular interaction, structure, and function. Structure, classification, purification, and function of nucleic acids, proteins, carbohydrates, and lipids, including membrane transport and enzymology.

*Prerequisites:* CHE226/227; CHE344/345; BIO120/121. BIO354/355 recommended. *Corequisites:* Registration in CHE389 is required. *Offered:* Fall *Special*

*Notes:* Not open to students who have taken CHE304/305. Carries cross-credit in biology.

**CHE389 • Biochemistry I Lab.** 1 Credits.

Laboratory experience accompanying CHE388. Techniques include spectroscopy, chromatography, centrifugation, electrophoresis, and enzyme kinetics.

*Corequisites:* Registration in CHE388 is required. *Offered:* Spring.

**CHE391 • Chemistry Seminar: Introduction to Chemical Information.** 1 Credits.

An introduction to the structure of a scientific paper, the organization of the general chemical literature, and the process of doing a literature search.

*Prerequisites:* Junior standing; major in chemistry or biochemistry/molecular biology. *Offered:* Fall.

**CHE392 • Chemistry Seminar: Introduction to Research.** 1 Credits.

An introduction to the nature, ethics, and organization of chemical research projects. Students complete a research project under the supervision of a faculty member and give an oral presentation of their data. Students also select and develop a research proposal for their senior research project.

*Prerequisites:* CHE391. *Offered:* Spring.

**CHE393 • Research.** 1-4 Credits.

Utilization of the techniques and understanding of chemical principles on a term project. Use of original literature to formulate and conduct an original laboratory or computational research project under the supervision of a chemistry faculty member.

*Prerequisites:* Consent of department. Repeatable course May only be taken for credit once. *Offered:* Fall, interim, spring.

**CHE396 • Biochemistry II.** 3 Credits.

Metabolic pathways, bioenergetics, metabolic regulation, and metabolism of macromolecules (carbohydrates, lipids, amino acids, and nucleotides). Macromolecular synthesis of RNA, DNA, and proteins, including an introduction to biotechnology.

*Prerequisites:* CHE388/389 or BIO388/389. *Offered:* Spring. *Corequisites:* Registration in CHE397 is required.

**CHE397 • Biochemistry II Lab.** 1 Credits.

Laboratory experience accompanying CHE396. Laboratory includes procedures and experiments for the isolation and characterization of enzymes, RNA and DNA, molecular cloning, PCR, and gene expression.

*Corequisites:* Registration in CHE396 is required. *Offered:* Spring.

**CHE400 • Research.** 1-4 Credits.

Utilization of the techniques and understanding of chemical principles on a term project. Use of original literature to formulate an independent project that is carried out in the laboratory under the direction of a faculty member.

*Prerequisites:* Consent of department. *Offered:* Fall, interim, spring.

**CHE493 • Chemistry Seminar: Research.** 1 Credits.

Students develop and work on their senior research project. Seminar includes discussions of chemical careers, graduate and medical school application, and GRE preparation.

*Prerequisites:* CHE392. *Offered:* Fall *Special Notes:* Students may take CHE400 for additional research credit.

**CHE494 • Chemistry Seminar: Research Presentation.** 1 Credits.

Students prepare and deliver formal presentations of their research results. Seminar meets weekly for discussion of current topics.

*Prerequisites:* CHE493. *Offered:* Spring.

## B.A. in Chemistry

Select one of the following:

4-8

CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE312 & CHE313	Analytical Chemistry I and Analytical Chemistry I Lab	4
CHE344 & CHE345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE391	Chemistry Seminar: Introduction to Chemical Information	1
CHE392	Chemistry Seminar: Introduction to Research	1
CHE493	Chemistry Seminar: Research	1
CHE494	Chemistry Seminar: Research Presentation	1
Electives from 300 or 400 level chemistry courses		12
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
General Education		51-52
Electives		19-22
<b>Total Credits</b>		<b>122-130</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Science Education 5-12: Chemistry Emphasis

Select one of the following:

4-8

CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>2</sup>	
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE200	Laboratory Safety and Chemical Hygiene	1

CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE312 & CHE313	Analytical Chemistry I and Analytical Chemistry I Lab	4
CHE344 & CHE345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE391	Chemistry Seminar: Introduction to Chemical Information	1
CHE392	Chemistry Seminar: Introduction to Research	1
CHE493	Chemistry Seminar: Research	1
CHE494	Chemistry Seminar: Research Presentation	1
BIO118 & 118D	General Biology and General Biology Lab <sup>2</sup>	4
GEL168 & 168D	Geology and Geology Lab <sup>2</sup>	4
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
PHY112 & 112D	Introduction to Astronomy and Introduction to Astronomy Lab <sup>2</sup>	4
PHY292 & 292D	General Physics I and General Physics I Lab <sup>2</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>2</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU420	Methods in Teaching Secondary Science	3
EDU429	Science Education Practicum in grades 5-8 or 5-12	1
EDU490	Student Teaching Block	15
General Education <sup>2</sup>		51-52

**Total Credits****141-146**

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 135-136 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

Students must earn a grade of C or better in each content area and education course in the major (BIO, CHE, GEL, PHY, MAT, EDU). Courses with grades of C- or lower must be repeated.

Students with 5-12 licensure in Science Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.S. in Chemistry

(American Chemical Society certified major)

Select one of the following:

4-8

CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>
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CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE312 & CHE313	Analytical Chemistry I and Analytical Chemistry I Lab	4
CHE320 & CHE321	Analytical Chemistry II and Analytical Chemistry II Lab	4
CHE344 & CHE345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE348 & CHE349	Quantum Chemistry and Spectroscopy and Quantum Chem and Spectroscopy Lab	4
CHE364 & CHE365	Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab	4
CHE388 & CHE389	Biochemistry I and Biochemistry I Lab	4
CHE391	Chemistry Seminar: Introduction to Chemical Information	1
CHE392	Chemistry Seminar: Introduction to Research	1
CHE493	Chemistry Seminar: Research	1
CHE494	Chemistry Seminar: Research Presentation	1
Electives from 300- or 400-level chemistry courses		6
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT222 or MAT223	Differential Equations Multivariable Calculus	3
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
General Education		51-52
Electives		6-11
<b>Total Credits</b>		<b>122-132</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Chemistry

Select one of the following sequences: 4-8

CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab <sup>1</sup>	
Electives from 200 or 300 level chemistry courses		16
<b>Total Credits</b>		<b>20-24</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Classics

The classics minor provides an interdisciplinary program of study that introduces students to a classical language as well as the cultures, history, and philosophies of the ancient Greek, Roman, and Middle Eastern world.

## Minor in Classics

- Classics (p. 91)

## Minor in Classics

HIS310	Near Eastern and Greek Civilizations	4
HIS311	Roman Civilization	4
ARH220	Art History - Ancient Through Medieval	3-4
or PHI251	History of Philosophy I	
Select one of the following in language:		3-4
GRK371	Advanced Greek Translation	
HEB102S	Introductory Biblical Hebrew II <sup>1</sup>	
LAT102S	Introductory Latin II <sup>1</sup>	
Select one of the following electives (excluding courses taken in the culture category):		3-4
ARH220	Art History - Ancient Through Medieval	
BIB230Z	Israel Study Tour <sup>1</sup>	
BIB236	Archaeology of the Southern Levant	
BIB264Z	Greece-Turkey Study Tour <sup>1</sup>	
PHI251	History of Philosophy I	

### Total Credits

17-20

<sup>1</sup> A student may also choose this course to meet a General Education requirement.

## Communication Studies

Since effective communication is essential to most aspects of successful human endeavor, the Department of Communication Studies focuses on achieving understanding in human thought, activity, and interaction. Students are given opportunities to create and test ideas, develop individual abilities, and gain competence and confidence.

The Department of Communication Studies helps students acquire knowledge and increase abilities that enable them to function effectively in every area of their public and private lives. The department seeks to prepare skilled communicators for professional careers and Christian service, providing vital background for the fields of business, teaching, law, public relations, government, social work, television, radio, corporate media departments, and various church ministries.

The faculty of the Department of Communication Studies is committed to the importance of cross-cultural experiences for all majors. Students are encouraged to attend an off-campus intercultural program for an interim or semester.

## Majors in Communication Studies

- B.A. in Communication Studies (p. 95)
- B.A. in Independent Filmmaking (p. 96)
- B.A. in Media Production (p. 97)
- B.A. in Organizational Communication (p. 98)

## Minors in Communication Studies

- Communication Studies (p. 99)
- Digital Film and Video for Actors (p. 99)
- Media Production (p. 100)

### COM110N • Basic Communication. 3 Credits.

Informal and formal communication patterns that characterize daily life, analysis of communication situations, and improvement of effective communication. Includes interpersonal, intercultural, small group, and speaker/audience communication settings.

*Offered: Fall, interim, spring.*

### COM120N • Communication in a Virtual World. 3 Credits.

Examination of how communication technology and new media impact communication, including: identity formation, interpersonal relationships, group dynamics, and public presentations. Specific technologies such as online social networking and mobile devices are evaluated for their effect on users, challenging students to identify how to intentionally manage their personal use of technology.

*Offered: Occasionally.*



**COM135 • Forensics.** 1 Credits.

Participation in off-campus forensics tournaments. Students work with the forensics coaching staff in the areas of debate, limited preparation speaking, public address, or interpretation, and participate in multiple tournaments.

*Repeatable course May be repeated for up to 4 credits. Offered: Fall, spring. Special Notes: Open to Forensics Team members fall and spring.*

**COM170A • Media Production I.** 4 Credits.

Equips students with the most basic “hands-on” visual media production skills in which students learn the fundamentals of visual media production, including multi-camera studio production, digital filmmaking, and digital post-production.

*Offered: Fall, spring.*

**COM208U • Native Americans and the Media.** 3 Credits.

Analysis of media portrayals of Native Americans. Emphasis on Native American cultures and voices, mainstream portrayals of Native Americans through a variety of media, and social and media critical tools for examining media mainstream images of minority groups.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally interim.*

**COM210 • Perspectives on Human Communication.** 3 Credits.

Examination of the communication discipline through the exploration and application of communication theories. Provides a theoretical foundation for communication studies and media communication majors by exploring significant communication concepts in the areas of human, media, and rhetorical communication.

*Offered: Fall, spring.*

**COM213 • Media Communication.** 3 Credits.

An overview of mass media industries, including print, broadcast, cable, film, and the internet. Survey of media history, functions, and impacts on society.

*Offered: Fall, occasionally interim, spring.*

**COM215 • Web Design for Mass Media.** 3 Credits.

An introduction to the growing world of multimedia design on the web. Students are introduced to the process and techniques used in designing and publishing for the web.

*Offered: Spring, odd # years. Special Notes: No background with web design is necessary, but familiarity with the internet and a current browser is required.*

**COM220 • Group Communication.** 4 Credits.

Vital role that small groups play in daily life, group problem solving and group interaction, and greater effectiveness in working in small groups.

Examination of leadership, group cohesiveness, and conflict management.

*Offered: Fall, spring.*

**COM230L • Introduction to Rhetoric and Public Influence.** 3 Credits.

An introduction to rhetorical theory and persuasion. Basic principles of rhetorical analysis and the importance of rhetoric and persuasion theory in everyday life. Application of rhetorical theory to a variety of different media, political, and social situations, particularly with regard to the United States in the post-Civil War era.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall.*

**COM235 • Forensics.** 1 Credits.

Participation in off-campus forensics tournaments. Students work with the forensics coaching staff in the areas of debate, limited preparation speaking, public address, or interpretation, and participate in multiple tournaments.

*Repeatable course May be repeated for up to 4 credits. Offered: Fall, spring. Special Notes: Open to Forensics Team members fall and spring.*

**COM248 • Organizational Communication.** 3 Credits.

Communication practices and problems found in organizations. Communication concerns related to organizational structure, conflict, effectiveness, roles (emphasizing leadership), work processes, and decision making. Interviewing as an organizational practice and as a research tool.

*Offered: Fall.*

**COM250 • European Language and Culture Area Study.** 4 Credits.

An introduction to specific European cultures, languages, and communication styles. Students experience European cultures through first-hand interaction, special speakers, readings, and class excursions. Language lessons equip students to complete basic social tasks. Topics include worldview, education, political economy, ecology, history, and art as reflections of regional communication style.

*Offered: Europe term; Fall, odd # years.*

**COM270 • Media Production II.** 4 Credits.

The second of two “hands-on” media courses in which students learn the specific techniques of cinematography, audio, and editing visual productions. Training in the critical aspects of editing theory and the analysis of the post-production process.

*Prerequisites: COM170A; ART100A (may be taken concurrently). Offered: Fall, spring.*

**COM301A • Oral Interpretation.** 4 Credits.

Focuses on the creative process involved in the oral performance of prose, poetry, and drama. Students explore and practice methods and techniques for selecting, analyzing, understanding, and adapting literature for oral performance. Emphasizes artistic expression through the performance of compiled literary scripts individually and in groups.

*Prerequisites: Junior standing or consent of instructor. Offered: Fall.*

**COM302 • Media Law.** 3 Credits.

Examination of mass media law and policy through the use of court cases, policy documents, legislation, legal history, and legal philosophy. Special emphasis on First Amendment and ethical issues related to media practices.

*Prerequisites:* COM213. *Offered:* Fall, spring.

**COM305A • Screenwriting.** 4 Credits.

Study of the conventions of the screenplay and practice in screenwriting. Emphasis on creating and adapting, writing, and editing narrative screenplays.

*Prerequisites:* COM373, COM374, or consent of instructor. *Offered:* Interim, even # years.

**COM310K • Communication, Technology and Society.** 3 Credits.

An examination of the impact communication technology has on communication and society. Evaluation and exploration of technologies such as digital media, the internet, and other emerging technologies. Analysis of the ethical and spiritual implications and applications of these technologies.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. *Offered:* Fall, occasionally interim, spring.

**COM314G • Gender Communication.** 3 Credits.

Examination of the force of rhetoric on historical and social movements since 1800. Concentrates on movements that cross gender lines and impact modern men and women. Studies religious revivals and Christian action groups as related to the sweep of history. Considers gender differences and similarities, verbal and nonverbal.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Fall.

**COM315 • Advanced Web Design for Mass Media.** 3 Credits.

Advanced web design techniques, including coding in HTML, CSS, and using scripts for dynamic webpages. Students will work in a WYSIWIG environment to create rich media sites.

*Prerequisites:* COM215 or consent of instructor. *Offered:* Spring, even # years. *Special Notes:* Some experience in HTML or web design required.

**COM318 • Argumentation and Debate.** 4 Credits.

Argumentation and debate principles, with application to written analysis, briefs, speeches, and debates. Analysis of an issue, reasoning and evidence, in-depth research, and oral delivery.

*Offered:* Spring.

**COM322 • Advanced Group Communication.** 4 Credits.

Advanced examination of group development and team building. Various theories and models of group formation and team building are analyzed and experienced as students become part of multiple Christian communities during the Europe Term in Intercultural Communication. Students learn how groups relate in differing cultures as well as how their Christian faith can play a role in group functioning.

*Offered:* Europe term; Fall, odd # years.

**COM323 • Event Management & Leadership.** 3 Credits.

Designing integrated communication approaches for conferences, professional meetings, celebratory events, and community outreach programs. Using a theory-informed approach, students engage the professional, interpersonal, and organizational coordination of information, people, and budgets. Specific attention to developing creative and constructive responses to unanticipated "rhetorical interruptions" and to identifying opportunities for institutional enhancement.

*Prerequisites:* COM248. *Offered:* Spring, odd # years.

**COM325 • Political Communication.** 3 Credits.

Analysis of the theoretical background behind political communication from a public speaking and media perspective. Attention to decision-making skills required in political campaigns. Discussion of advanced persuasive campaign theory.

*Prerequisites:* COM110N, POS100, or consent of instructor. *Offered:* Occasionally. *Special Notes:* Carries cross-credit in political science.

**COM335 • Forensics.** 1 Credits.

Participation in off-campus forensics tournaments. Students work with the forensics coaching staff in the areas of debate, limited preparation speaking, public address, or interpretation, and participate in multiple tournaments.

*Repeatable course May be repeated for up to 4 credits. Offered:* Fall, spring. *Special Notes:* Open to Forensics Team members fall and spring.

**COM350 • Corporate Communication.** 3 Credits.

Theories and principles of corporate communication including issues related to public relations, media relations, corporate identity management, investor communication, and crisis communication in both for-profit and not-for-profit organizations.

*Prerequisites:* COM248 or consent of instructor. *Offered:* Spring.

**COM352 • Broadcast Journalism.** 3 Credits.

Theories and principles of broadcast writing with practical experience in writing news stories for radio and television. Analysis of broadcast news programming and procedures.

*Prerequisites:* COM213. *Offered:* Fall, even # years.

**COM355Z • Intercultural Communication.** 4 Credits.

An exploration of the richly varied cultures of humankind and the influence of culture on verbal and nonverbal communication. The examination of theory is balanced by an examination of practical applications designed to improve intercultural competence in various contexts.

*Prerequisites:* World Cultures (U) course. *Offered:* Fall, even # years; spring, even # years; Europe term, fall, odd # years. *Special Notes:* The course includes a 30-hour intercultural service learning component.

**COM361 • Rhetorical Criticism.** 4 Credits.

Study of approaches to rhetorical criticism. Critical evaluation of a wide range of communication texts, their possible meanings, and their implications for various audiences and situations. Students learn methods used to analyze communication texts as well as historical and future trends in the field of rhetorical criticism.

*Prerequisites: COM210 or COM230L. Offered: Fall.*

**COM363 • Methods of Communication Research.** 4 Credits.

The modern foundations for study, evaluation, and research in the entire field of communication. Readings, statistics, and finished research projects are the focus of study.

*Prerequisites: COM210; two courses in communication. Offered: Fall, spring.*

**COM364 • Storytelling.** 3 Credits.

An examination of communication in the electronic media through the analysis and development of narrative structure and story elements as they are used in a variety of media industries. Students will learn to create compelling stories for audio and visual media through the analysis of scene, character arch, action (inciting incident), motif, etc.

*Prerequisites: COM270 or consent of instructor. Offered: Interim, odd # years.*

**COM370 • Interpersonal Communication.** 4 Credits.

The interpersonal communication process. Theory and pragmatics related to dyadic communication. Explores issues such as self-discipline, self-esteem, listeners, emotions, conflict, relational development and maintenance, gender, and nonverbal communication. Opportunity to evaluate and develop personal interaction skills.

*Offered: Fall, spring.*

**COM373 • Digital Filmmaking.** 4 Credits.

An advanced media course in which students learn hands-on, single-camera production on location. Areas of study include cinema verité, documentary, and experimental/music video. All projects are edited with non-linear computer systems, and published to DVD and web.

*Prerequisites: COM170A; COM270. Offered: Spring.*

**COM374 • Broadcast Production.** 4 Credits.

An advanced media production course that provides an in-depth understanding of audience analysis, news and sports programming, advanced multi-camera, live production, and field news reporting. Implementation of new digital technologies and production techniques for webcasting are included.

*Prerequisites: COM270 or consent of instructor. Offered: Fall.*

**COM375 • Media Criticism and Theory.** 3 Credits.

Explores theoretical and critical approaches to the study of video, audio, film, and digital culture. Theories and methods in this course examine issues relating to production and authorship in the media arts, audience reception and effects, political ideology, ethics, aesthetics, cultural diversity, and schools of thought within the liberal arts. Extensive critical writing and reading in media criticism and theory.

*Prerequisites: COM210; COM213. Offered: Spring.*

**COM376 • Public Relations Writing and Strategies.** 3 Credits.

Explores approaches and techniques for conducting research and writing within key public relations contexts. Students practice essential writing skills and strategies needed to perform a variety of projects in the public relations profession, including biographies, press releases, fact sheets, backgrounders, newsletters, brochures, pitch letters, speeches, feature stories, and social media posts.

*Prerequisites: COM248; COM350 (may be taken concurrently). Offered: Spring, even # years.*

**COM386 • Advanced Public Speaking.** 4 Credits.

Preparation and delivery of speeches at an advanced level. Speeches can include persuasive, entertaining, informative, special occasion, business presentations, and storytelling.

*Prerequisites: Junior standing or consent of instructor. Offered: Fall; spring, even # years.*

**COM387 • Speaking in Ministry Contexts.** 4 Credits.

Creation and delivery of presentations that prepare students to deliver the types of messages required in ministry contexts. Students work on biblical interpretation, adapting a biblically based message to specific audiences and contexts, and learning to communicate in a clear and relevant manner.

*Prerequisites: Junior or senior standing, consent of instructor. Offered: Spring, odd # years.*

**COM400 • Family Communication.** 4 Credits.

Communication patterns that help or hinder relationships within the family system. Functioning in simulated family groups, students develop personal roles. Various approaches to conflict, power, stress, intimacy, and family health. The family system in light of Christian attitudes and life patterns.

*Prerequisites: Junior standing. Offered: Spring.*

**COM435 • Forensics.** 1 Credits.

Participation in off-campus forensics tournaments. Students work with the forensics coaching staff in the areas of debate, limited preparation speaking, public address, or interpretation, and participate in multiple tournaments.

*Repeatable course May be repeated for up to 4 credits. Offered: Fall, spring. Special Notes: Open to Forensics Team members fall and spring.*

**COM460 • Topics in Organizational Communication.** 4 Credits.

Advanced studies in organizational communication with the specific topic announced prior to registration. Possible topics may include public relations, corporate communication, consulting, training and development, or media relations. Emphasis on exploring current issues from both a theoretical and hands-on perspective.

*Prerequisites: COM350 or consent of instructor. Offered: Occasionally.*

**COM462 • Topics in Relational Communication.** 3 Credits.

Special and/or advanced studies in relational communication with the topic announced prior to registration. Possible topics include conflict management, communication and emotion, and health communication.

*Repeatable course May be repeated if a different topic is emphasized. Offered: Spring.*

**COM463 • Topics in Communication Analysis.** 3 Credits.

Special and/or advanced studies in rhetorical analysis with the topic announced prior to registration. Possible topics include rhetoric of religion, crisis communication, and presidential rhetoric.

*Prerequisites: COM210; COM230L, COM361, or consent of instructor. Repeatable course May be repeated if a different topic is emphasized. Offered: Interim, occasionally spring.*

**COM481 • Internship in Communication.** 3-4 Credits.

Experience to apply and expand communication knowledge and skills in structured, off-campus settings, such as corporations, governmental offices, nonprofit organizations, television and radio stations, and corporate media departments.

*Prerequisites: Junior standing; consent of department. Repeatable course May be repeated for credit. Offered: Fall, spring.*

**COM493 • Capstone: Independent Filmmaking and Media Production.** 4 Credits.

A culminating course in which students demonstrate their understanding and skill of all phases of filmmaking or media production.

*Prerequisites: COM302; COM373 or COM374; senior standing. Offered: Spring.*

**COM494 • Capstone: Organizational Communication.** 4 Credits.

Engages students in the process of researching, structuring, conducting, and evaluating communication audits or public relations campaigns. Emphasizes synthesis and integration of skills and theories learned in the organizational communications major.

*Prerequisites: COM350; COM363; senior standing. Offered: Spring.*

**COM497 • Capstone: Relational Studies.** 4 Credits.

Guided exploration of “understudied relationships” specific to the relational communication discipline. Focus on synthesizing and integrating faith, communication skills, knowledge, theory, research, and competencies learned in the relational communication emphasis.

*Prerequisites: COM220 or COM322; COM363; COM370; senior standing; communication studies relational emphasis major. Offered: Fall.*

**COM498 • Capstone: Rhetoric and Public Influence.** 4 Credits.

Advanced study in foundational rhetorical theory as well as within a specific rhetorical tradition of the student’s choosing. A significant presentation on a specific theoretical framework and a major research paper are required.

*Prerequisites: COM230L; COM361. Offered: Spring, even # years.*

## B.A. in Communication Studies

COM210	Perspectives on Human Communication	3
COM213	Media Communication	3
COM363	Methods of Communication Research	4
Select one emphasis from the Emphases tab		35-39
General Education		51-52
Electives		26-31
<b>Total Credits</b>		<b>122-132</b>

## Relational Studies Emphasis (35-38 credits)

COM370	Interpersonal Communication	4
COM400	Family Communication	4
COM481	Internship in Communication	3-4
COM497	Capstone: Relational Studies	4
COM220 or COM322	Group Communication Advanced Group Communication	4
Select three of the following Relational Topics courses:		9-10
COM314G	Gender Communication <sup>1</sup>	
COM355Z	Intercultural Communication <sup>1</sup>	
COM462	Topics in Relational Communication <sup>2</sup>	

GES448P	Abusive Relationships and Christian Responsibility <sup>1</sup>	
Select one of the following Oral Communications courses:		4
COM301A	Oral Interpretation <sup>1</sup>	
COM318	Argumentation and Debate	
COM386	Advanced Public Speaking	
Select one of the following Communication Analysis courses:		3-4
COM361	Rhetorical Criticism	
COM375	Media Criticism and Theory	
COM463	Topics in Communication Analysis	
<b>Total Credits</b>		<b>35-38</b>

## Rhetoric and Public Influence Emphasis (38-39 credits)

COM230L	Introduction to Rhetoric and Public Influence <sup>1</sup>	3
COM318	Argumentation and Debate	4
COM361	Rhetorical Criticism	4
COM463	Topics in Communication Analysis <sup>2</sup>	3
COM498	Capstone: Rhetoric and Public Influence	4
Select two of the following Communication Analysis courses:		6-7
COM325	Political Communication	
COM375	Media Criticism and Theory	
COM463	Topics in Communication Analysis <sup>2</sup>	
COM301A	Oral Interpretation <sup>1</sup>	4
or COM386	Advanced Public Speaking	
Select one of the following Relational Communication courses:		4
COM220	Group Communication	
COM322	Advanced Group Communication	
COM355Z	Intercultural Communication <sup>1</sup>	
COM370	Interpersonal Communication	
Select two elective courses from history or political science courses (3 credits at 300-level or above)		6
<b>Total Credits</b>		<b>38-39</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Course may be repeated for credit when topics offered are different.

## B.A. in Independent Filmmaking

### Requirements

COM210	Perspectives on Human Communication	3
COM213	Media Communication	3
COM363	Methods of Communication Research	4
Select one of the following Relational Communication courses:		4
COM220	Group Communication	
COM322	Advanced Group Communication	
COM370	Interpersonal Communication	
<b>Filmmaking Core <sup>2</sup></b>		
ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
COM170A	Media Production I <sup>1</sup>	4
COM270	Media Production II	4
COM302	Media Law	3
COM305A	Screenwriting <sup>1</sup>	4
COM364	Storytelling	3
COM373	Digital Filmmaking	4
FLM200	Introduction to Film	3

FLM305	Films of Great Directors	3
PHI310	Aesthetics	3
COM375 or FLM300	Media Criticism and Theory Film Theory and Interpretation	3-4
COM493	Capstone: Independent Filmmaking and Media Production	4
<b>General Education</b>		51-52
<b>Electives</b>		16-18
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Los Angeles Film Studies Center [LAFSC] option equivalencies:  
Hollywood Production Workshop (COM373)  
Faith & Artistic Development in Film (elective)  
Professional Screenwriting (COM305A)  
Internship: Inside Hollywood (6 credits) (COM481 [3 credits]; COM364)  
One course from:  
COM364 Storytelling (elective)  
Professional Acting for the Camera (elective)  
Independent Study (elective)

## B.A. in Media Production

### Requirements

COM210	Perspectives on Human Communication	3
COM213	Media Communication	3
COM363	Methods of Communication Research	4
Select one of the following Relational Communication courses:		4
COM220	Group Communication	
COM322	Advanced Group Communication	
COM370	Interpersonal Communication	
Select one of the following Communication Analysis courses:		3-4
COM361	Rhetorical Criticism	
COM375	Media Criticism and Theory	
COM463	Topics in Communication Analysis	

### Media Production Core

ART100A	Two-Dimensional Visual Thinking <sup>1</sup>	3
COM170A	Media Production I <sup>1</sup>	4
COM270	Media Production II	4
COM302	Media Law	3
COM352	Broadcast Journalism	3
COM374	Broadcast Production	4
COM481	Internship in Communication	3-4
COM493	Capstone: Independent Filmmaking and Media Production	4
Select three of the following:		9-12
ART334	Photo Manipulation	
ENW115	Reporting I	
COM215	Web Design for Mass Media	
COM305A	Screenwriting <sup>1</sup>	
COM315	Advanced Web Design for Mass Media	
COM364	Storytelling	
COM373	Digital Filmmaking	
LAFSC <sup>2</sup>		

### General Education

51-52

<b>Electives</b>	17-22
<b>Total Credits</b>	<b>122-133</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Los Angeles Film Studies Center [LAFSC] option equivalencies:  
 Hollywood Production Workshop (COM373)  
 Faith & Artistic Development in Film (elective)  
 Professional Screenwriting (COM305A)  
 Internship: Inside Hollywood (6 credits) (COM481 [3 credits]; COM364)  
 One course from:  
 COM364 Storytelling (elective)  
 Professional Acting for the Camera (elective)  
 Independent Study (elective)

## B.A. in Organizational Communication

COM210	Perspectives on Human Communication	3
COM213	Media Communication	3
COM220	Group Communication	4
or COM322	Advanced Group Communication	
COM248	Organizational Communication	3
COM302	Media Law	3
COM350	Corporate Communication	3
COM363	Methods of Communication Research	4
COM481	Internship in Communication	3-4
COM494	Capstone: Organizational Communication	4
ENW115	Reporting I	3
Select one of the following Oral Communication courses:		4
COM301A	Oral Interpretation <sup>1</sup>	
COM318	Argumentation and Debate	
COM386	Advanced Public Speaking	
Select one of the following Communication Analysis courses:		3-4
COM361	Rhetorical Criticism	
COM375	Media Criticism and Theory	
COM463	Topics in Communication Analysis	
Select one emphasis from the Emphases tab <sup>2</sup>		9-11
General Education		51-52
Electives		22-27
<b>Total Credits</b>		<b>122-132</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> An Individualized Organizational Emphasis is available for students who have a clear direction of what they want to do in their organizational careers that is not met by the emphases listed. The course sequence is arranged with consent of advisor and departmental approval.

## Employee Communication

COM370	Interpersonal Communication	4
Select two of the following:		6-7
BUS231	Human Resource Management	
BUS331	Staffing, Training and Development	
COM355Z	Intercultural Communication <sup>1</sup>	
COM460	Topics in Organizational Communication	
RES305	Conflict Resolution and Mediation Skills	
<b>Total Credits</b>		<b>10-11</b>



## Event Management

COM323	Event Management & Leadership	3
Select two of the following:		6-7
BUS233		
COM370	Interpersonal Communication	
COM376	Public Relations Writing and Strategies	
COM460	Topics in Organizational Communication	
<b>Total Credits</b>		<b>9-10</b>

## Strategic Communication

COM376	Public Relations Writing and Strategies	3
Select two of the following:		6-7
BUS220	Principles of Marketing	
BUS319	Advertising and Promotion	
COM215	Web Design for Mass Media	
or COM315	Advanced Web Design for Mass Media	
COM460	Topics in Organizational Communication	
ENW211		
ENW342	Journalism for Social Change	
<b>Total Credits</b>		<b>9-10</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Communication Studies

COM210	Perspectives on Human Communication	3
COM220	Group Communication	4
COM370	Interpersonal Communication	4
Select one of the following:		4
COM301A	Oral Interpretation <sup>1</sup>	
COM318	Argumentation and Debate	
COM386	Advanced Public Speaking	
Select one of the following:		3-4
COM248	Organizational Communication	
COM355Z	Intercultural Communication <sup>1</sup>	
COM361	Rhetorical Criticism	
Elective from 200 level or above communication courses		3-4
<b>Total Credits</b>		<b>21-23</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Digital Film and Video for Actors

COM170A	Media Production I <sup>1</sup>	4
COM210	Perspectives on Human Communication	3
COM305A	Screenwriting <sup>1</sup>	4
THA100NA	Creative Performance <sup>1</sup>	3
THA313	Auditioning and Acting for the Camera	3
Select two of the following:		6-8
COM301A	Oral Interpretation <sup>1</sup>	
COM373	Digital Filmmaking	
COM364	Storytelling	
THA212	Voice Production	

THA291L	Theatre in the Modern Age <sup>1</sup>	
THA330	Topics in Theatre Arts	
THA405	Directing	
<b>Total Credits</b>		<b>23-25</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Media Production

COM170A	Media Production I <sup>1</sup>	4
COM210	Perspectives on Human Communication	3
COM213	Media Communication	3
COM302	Media Law	3
Select three of the following:		9-12
COM215 or COM315	Web Design for Mass Media Advanced Web Design for Mass Media	
COM270	Media Production II	
COM305A	Screenwriting <sup>1</sup>	
COM352	Broadcast Journalism	
COM364	Storytelling	
COM373	Digital Filmmaking	
COM374	Broadcast Production	
<b>Total Credits</b>		<b>22-25</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Computer Science

Computing technology has become an essential part of nearly every profession even as new research in computer science continues to reinvent how we communicate and work. The computer science major at Bethel prepares students to be leaders in this ever-changing academic discipline as they learn current programming languages, network technology, databases, software engineering techniques, hardware, and operating systems. Electives are also offered in graphics, compilers, artificial intelligence, and high-performance computing. Students can gain work experience through employment in Bethel's computing support services and can earn course credit through internships at local companies. Bethel conforms to the Association for Computing Machinery (ACM) model for a liberal arts university computing degree with coursework in computing ethics and a balance of practical and theoretical study in computer science.

**Advanced Placement:** The computer science department requires a score of 4 or better on the AP exam in order for the exam to be used to fulfill course requirements in the majors and minors it offers. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements. Students should consult the department chair with questions on AP exams and requirements for majors.

## Majors in Computer Science

- B.S. in Computer Science (p. 103)
- B.A. in Computer Science (p. 102)
- B.A. in Computer Science: Software Project Management (p. 102)

## Minor in Computer Science

- Computer Science (p. 103)

### **COS100 • Introduction to Programming.** 3 Credits.

An introduction to programming using a current procedural (imperative) programming language. Standard data types and control structures are introduced.

*Offered: Fall, interim.*

### **COS105 • Computer Science 1.** 4 Credits.

Introduction to fundamental computer programming design principles. Strong emphasis on theory. Extensive programming assignments in a current object-oriented computer language.

*Prerequisites: COS100, COS205, or equivalent proficiency; MAT123M, MAT124M, MAT125, or equivalent proficiency. Offered: Spring. Special Notes: Not designed as a computer literacy course. Includes 6 lab hours.*

**COS205 • Scientific Computing.** 3 Credits.

Introduction to programming in C and C++ with an emphasis on issues relevant to scientific computing such as machine error, performance, and implementation of common numerical algorithms.

*Prerequisites:* MAT124M. *Offered:* Fall.

**COS212 • Computer Science 2.** 4 Credits.

Elementary data structures such as file structures, linked lists, and simple trees. Introduction to fundamental search and sort algorithms, analysis, design methodologies, and object-oriented programming. Extensive programming assignments in a current computer language.

*Prerequisites:* COS105; MAT123M, MAT124M, MAT125, or equivalent proficiency. *Offered:* Fall. *Special Notes:* Includes 6 lab hours.

**COS214 • Computer Systems.** 4 Credits.

Assembly and machine language to study computer organization and structure, addressing techniques, digital representation of instructions, program segmentation, and linkage.

*Prerequisites:* COS212. *Offered:* Spring. *Special Notes:* Includes 6 lab hours.

**COS216 • Data Structures and Algorithms.** 3 Credits.

Advanced data structures, algorithms, and algorithm analysis. Extensive programming assignments in a current object-oriented computer language.

*Prerequisites:* COS212; MAT241. *Offered:* Spring.

**COS301 • Operating Systems and Computer Architecture.** 4 Credits.

Computer organization, structure of operating systems, memory management, process management, resource allocation, and operating system monitors. Alternative approaches to operating system design.

*Prerequisites:* COS214; knowledge of C or C++. *Offered:* Fall.

**COS313 • Database Systems.** 3 Credits.

Relational and object-oriented databases, schemas, and normalization. Database management systems, SQL, concurrent transactions, logging/disaster recovery, and query optimization. Application program interaction with database management systems.

*Prerequisites:* COS216. *Offered:* Fall, even # years.

**COS318 • Web Programming.** 3 Credits.

An examination of the foundational technologies used for creating web applications. Includes client- and server-side programming languages (JavaScript and PHP), data serialization standards (XML, JSON, and URI encoding), security, storage, and web services.

*Prerequisites:* COS216. *Offered:* Fall, odd # years. *Special Notes:* Some knowledge of HTML and the basics of JavaScript are expected.

**COS320 • Computer Graphics Programming.** 3 Credits.

An introduction to the drawing methods, geometrical transforms, and illumination models that are fundamental to computer graphics programming. Topics include modeling of 2D and 3D objects, local and global illumination simulation, shading, color models, procedural modeling, and discrete (fragment) techniques including texture mapping. A current graphics API is used, including custom shaders.

*Prerequisites:* COS216. *Offered:* Fall, odd # years.

**COS337K • Behavioral Robotics.** 3 Credits.

An introduction to the drawing methods, geometrical transforms, and illumination models that are fundamental to computer graphics programming. Topics include modeling of 2D and 3D objects, local and global illumination simulation, shading, color models, procedural modeling, and discrete (fragment) techniques including texture mapping. A current graphics API is used, including custom shaders.

*Prerequisites:* COS216. *Offered:* Fall, odd # years.

**COS351 • High-Performance Computing.** 3 Credits.

Control and automation are fundamental aspects of human, animal, and machine behavior. These topics will be considered from philosophical and psychological perspectives and explored through robotics and other hands-on experimental labs, in order to develop both a practical and theoretical understanding of behavior.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. *Offered:* Interim. *Special Notes:* Carries cross credit in psychology.

**COS371 • Organization of Programming Languages.** 3 Credits.

Formal programming language specification using various grammars and the Backus-Naur Form. Data types and structures, control structures, and data flow of several programming languages, including interpreters and compilers. Introduction to parsing and lexical analysis.

*Prerequisites:* COS216. *Offered:* Spring, even # years.

**COS386 • Data Communications and Computer Networks.** 3 Credits.

Data communications including interprocess communication, computer networking, and associated software protocols. Topics include network topologies, point-to-point network protocols, local area networks, and interconnection of networks.

*Prerequisites:* COS301. *Offered:* Spring, odd # years.

**COS389 • Artificial Intelligence.** 3 Credits.

Basic concepts and techniques of artificial intelligence, including representation, notational structures, searches, control structures, and logic programming languages. Samples of current work in several application areas including natural language systems, expert systems, and neural networks.

*Prerequisites:* COS216. *Offered:* Spring, odd # years.

**COS450 • Humans and Computers.** 3 Credits.

Examines the ways that humans and computers interact. Issues in user experience and human-machine interaction are explored. Christian and professional ethics in the development and application of computing technology are extensively examined.

*Prerequisites:* COS216, COS301. *Offered:* Interim, even # years. *Special Notes:* Students may not receive credit for both COS450 and GES334K.

**COS477 • Software Engineering.** 3 Credits.

Formal approach to the design and development of software. Design methodologies include object-oriented design, components, design patterns, and event-driven design. Project management, walkthroughs, documentation, team programming, and the development of a significant software project.

*Prerequisites:* COS216. *Offered:* Spring, even # years.

**COS490 • Topics in Computer Science.** 3 Credits.

A seminar to provide an in-depth survey of a recent trend or field in the rapidly changing discipline of computer science. Students work on a significant project and explore the future implications of the current topic.

*Prerequisites:* COS216. *Offered:* Occasionally.

## B.A. in Computer Science

COS100	Introduction to Programming	3
or COS205	Scientific Computing	
COS105	Computer Science 1	4
COS212	Computer Science 2	4
COS214	Computer Systems	4
COS216	Data Structures and Algorithms	3
COS301	Operating Systems and Computer Architecture	4
COS450	Humans and Computers	3
MAT124M	Calculus 1 <sup>1</sup>	4
MAT241	Discrete Mathematics	3
Select two of the following:		6
COS313	Database Systems	
COS318	Web Programming	
COS386	Data Communications and Computer Networks	
COS377		
Electives from 300-level or above computer science courses or MAT344 or MAT376		9
General Education		51-52
Electives		24-25
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Computer Science: Software Project Management

COS100	Introduction to Programming	3
or COS205	Scientific Computing	
COS105	Computer Science 1	4
COS212	Computer Science 2	4
COS216	Data Structures and Algorithms	3
COS450	Humans and Computers	3
COS377		3
MAT124M	Calculus 1 <sup>1</sup>	4
MAT207M	Statistical Analysis <sup>1</sup>	3
MAT241	Discrete Mathematics	3
BUS210	Financial Accounting	4
BUS334	Principles of Project Management	3
BUS344	Managerial Finance	4
COM220	Group Communication	4
BUS230	Principles of Management	3-4
or COM248	Organizational Communication	

COM322	Advanced Group Communication	4
or COM370	Interpersonal Communication	
COS313	Database Systems	3
or COS318	Web Programming	
General Education		51-52
Electives		16-18
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.S. in Computer Science

COS100	Introduction to Programming	3
or COS205	Scientific Computing	
COS105	Computer Science 1	4
COS212	Computer Science 2	4
COS214	Computer Systems	4
COS216	Data Structures and Algorithms	3
COS301	Operating Systems and Computer Architecture	4
COS313	Database Systems	3
COS318	Web Programming	3
COS320	Computer Graphics Programming	3
COS371	Organization of Programming Languages	3
COS386	Data Communications and Computer Networks	3
COS389	Artificial Intelligence	3
COS450	Humans and Computers	3
COS477	Software Engineering	3
Select one of the following:		3
MAT344	Numerical Methods	
MAT376	Operations Research	
PHY 352/353	Computer Methods in Physics and Engineering	
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT211	Linear Algebra	3
MAT241	Discrete Mathematics	3
MAT330	Probability and Statistics	3
General Education		51-52
Electives		5-6
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Computer Science

COS100	Introduction to Programming	3
COS105	Computer Science 1	4
COS212	Computer Science 2	4
COS214	Computer Systems	4
COS216	Data Structures and Algorithms	3
Elective from 200-level or above computer courses or MAT344 or MAT376		3
<b>Total Credits</b>		<b>21</b>

## Education

As part of a Christian learning community at Bethel University, the Department of Education seeks to prepare educators for service in public and private schools who:

- demonstrate knowledge and competence in the context of education and content knowledge;
- understand and facilitate student learning and development;
- engage in reflective practice;
- establish collaborative relationships; and
- demonstrate a Christian worldview characterized by integrity and compassion.

Bethel's education department provides programs that offer students the opportunity to attain licensure for teaching in the following areas:

- Elementary Education (grades K-6)
- Elementary Education with Pre-primary Endorsement (age 3-grade 6)
- Early Childhood Education (birth-grade 3)
- Education for grades 5 through secondary:
  - a. Communication Arts and Literature (English)
  - b. Health
  - c. Mathematics
  - d. Science: chemistry, life science, or physics
  - e. Social Studies
- Education for grades K-12:
  - a. Music: Instrumental or Vocal
  - b. Physical Education
  - c. Teaching English as a Second Language
  - d. Visual Arts
  - e. World Languages and Cultures – Spanish

In addition to the above education licenses, teaching endorsements can be added in middle level education (grades 5-8) in:

- Communication Arts and Literature
- Mathematics
- Science
- Social Studies
- World Languages and Cultures – Spanish

The Bethel University education program is accredited by the Council for Accreditation of Educator Preparation. This accreditation certifies that the education program has provided evidence of compliance with the council's quality principles. It is also approved by the Minnesota Board of Teaching, having met the standards set by the State of Minnesota through a rigorous review process.

To qualify for teacher licensure, our teacher candidates must demonstrate competencies on basic skills exams in the areas of reading, writing, mathematics, as well as on pedagogy, and content exams in all licensure and endorsement areas. Results are reported to the Minnesota Board of Teaching, which in turn reports to the United States Secretary of Education under Title II of the Higher Education Act, annual reporting requirement. The most recent reporting was for students who completed the program during the 2012-2013 school year. Pass rates: 92% basic skills, 98% pedagogy, and 96% subject area content.

## Elementary School Licensure Program

The elementary teacher education program is designed to prepare teachers for teaching in any elementary school. The program is developed to give elementary teachers a solid foundation in the liberal arts, knowledge and understanding of human development and learning processes, methods of teaching basic skills, and subject matter preparation.

## Early Childhood Education and Preprimary Endorsement Program

The early childhood education licensure program is designed to prepare teachers who can plan, execute, and evaluate instructional programs that address the developmental needs of children from birth through grade 3. The program prepares students to work with young children in a variety of educational settings. When successfully completed, students may apply for the early childhood (birth-age 8) license. Note: The Early Childhood Education license can be obtained only in conjunction with a major in K-6 elementary education with a preprimary endorsement.

## Secondary and K-12 Licensure Programs

Programs in 5-12 teacher education are available in communication arts and literature (English), health, mathematics, science (chemistry, life science, or physics), and social studies. Licensure for grades K-12 is available in instrumental music, vocal music, physical education, visual arts, world languages and cultures (Spanish), and teaching English as a second language (TESL). Prospective teachers in each of these areas must complete a core of professional education courses as well as the required courses in the discipline of choice. Details of these programs are found under the appropriate departmental listings in this catalog.

## Middle Level Endorsements

Formal licensure endorsements are also available to all licensure candidates (elementary, 5-12 and K-12) and can be added to a licensure program. Endorsements are available to teach grades 5-8 in: communication arts and literature, mathematics, general science, social studies, world languages and cultures–Spanish.

## Postbaccalaureate Licensure

Holders of a baccalaureate degree may qualify for a teaching license by completing the missing components of the prescribed program in which they are interested. A second bachelor's degree is not awarded to these students. Those interested in this program must make an initial contact with the Bethel Office of Admissions and then meet with the education department to develop an individualized plan for completion of requirements.

## Majors in Education

- B.A. in K-6 Elementary Education (p. 113)
- B.A. in K-6 Elementary Education with Primary Endorsement (Age 3-Grade 6) (p. 113)
- B.A. in Communication Arts and Literature Education 5-12 (English Education) (p. 122)
- B.A. in Health Education 5-12 (p. 157)
- B.A. in Mathematics with Education 5-12 Licensure (p. 165)
- B.A. in Science Education 5-12: Chemistry Emphasis (p. 88)
- B.A. in Science Education 5-12: Physics Emphasis (p. 203)
- B.A. in Science Education 5-12: Life Science Emphasis (p. 71)
- B.A. in Social Studies Education 5-12 (p. 180)
- B.Mus.Ed. in Music Education (p. 190)
- B.A. in Physical Education K-12 (p. 158)
- B.A. in Teaching English as a Second Language (TESL) K-12 (p. 174)
- B.A. in Visual Arts Education K-12 (p. 52)
- B.A. in Spanish Education K-12 (Licensure in World Languages and Cultures) (p. 172)

## Minor in Education

- Science, Technology, Engineering, and Math (STEM) (p. 116)

## General Criteria for Participation in the Teacher Education Program

### A. Admission Procedures

1. Complete at least one semester of coursework with a minimum grade point average of 2.75 for Elementary Education, 3.0 for Social Studies Education, and 2.5 for all other content licensure areas.
2. Enroll in EDU200 Introduction to Education and Introduction to Education Field Experience. During this time, students will:
  - a. File an application for admission to the education department, including a written autobiographical statement and references.
  - b. Be interviewed and accepted into the program upon approval of the faculty of the student's area of emphasis.
3. Meet competency requirements in areas of mathematics, reading, and writing to qualify for full admission.
4. Have transfer education coursework evaluated by the education department. Only coursework with a grade of C or above is transferable for credit.

### B. Standards for Continuance in Education Program

1. Complete admission procedures before enrolling in additional education courses.



2. Maintain a GPA of at least 2.75 for Elementary Education, 3.0 for Social Studies Education, and 2.5 for all other content licensure areas.
3. Earn a grade of C or better in each education course for all education majors. For elementary education majors, this also includes a grade of C or better in MAT201M, MAT202 NAS courses (NAS101-104), and all courses in endorsement areas. (Courses with grades of C- or lower must be repeated).
4. 5-12 and K-12 majors, as well as students with middle level content endorsements, must earn a grade of C or above in each content area course. (Courses with grades of C- or lower must be repeated.)
5. Demonstrate continual development of professional traits of educators, as presented throughout the program.

#### C. Additional Requirements for Program Completion

Note: There are a variety of ways these competencies can be met, including courses for credit or non-credit and workshops.

1. First Aid/CPR for elementary education majors. (This may be taken at Bethel or through a Red Cross certification program.)
2. Electronic portfolio is established during the first education course. It is maintained throughout the program to assess completion of foundational standards for teaching.
3. Appropriate proficiency levels assessed according to ACTFL proficiency guidelines for majors and endorsements in a modern world language (Spanish).

#### D. Requirements for Admission to Student Teaching

1. Be recommended for student teaching by the department(s) of the student's area of emphasis.
2. Complete the following coursework:
  - a. Elementary Education—all coursework, including EDU, MAT, NAS, and content courses in endorsement with a grade of C or above.
  - b. 5-12 and K-12 majors—all EDU and content courses.
  - c. All core content courses must be completed with a grade of C or above (5-12 and K-12 majors).
3. Meet competency requirements in areas of mathematics, reading, and writing.
4. Complete First Aid/CPR prior to student teaching (elementary education majors only).
5. Fulfill any Notification of Concern (NOC) contracts.
6. Acceptance for placement by a school.
7. For transfer or post-baccalaureate students the following applies:
  - a. Elementary education majors must successfully complete two semesters of coursework in education at Bethel.
  - b. Students in 5-12 and K-12 programs must successfully complete a minimum of two courses at the 300 level or above at Bethel in the department of the student's area of emphasis. *Check with each department for specific requirements.*

#### E. Eligibility Standards for Minnesota Teacher Licensure

1. Complete all requirements for a baccalaureate degree.
2. Meet all basic skills requirements required by the state of Minnesota.
3. Successfully pass exams in pedagogical and content knowledge as required by the state of Minnesota.
4. Successfully complete student teaching experiences.
5. Complete Minnesota's requirement of a conduct review statement (Bureau of Criminal Apprehension).

#### F. Appeals Process

1. Appeal of decisions for admission and/or continuation in the education program and/or course grades can be made through the education department as described in the education policy manual or through the Bethel University appeals process as described in the Student Handbook.
2. If a student disputes a licensure decision, he/she has the right to appeal to the Minnesota Board of Teaching.

#### G. Notes

1. Licensure standards and resultant program requirements are subject to change by the Minnesota Board of Teaching.
2. Meeting the Minnesota licensure requirements is a prerequisite for Bethel University graduates seeking licensure in other states.
3. Admission to the university does not ensure admission to the education program, and admission to the education program does not ensure admission to student teaching or approval for licensure.
4. The education department reserves the right to consider, as part of admission to student teaching, personal and professional qualities, scholastic achievement, conduct, attitude, or other standards seen as appropriately related.

### GENERAL CRITERIA FOR PARTICIPATION IN THE TEACHER EDUCATION PROGRAM

#### A. Admission Procedures

- Complete at least one semester of coursework with a minimum grade point average of 2.75 for Elementary Education, 3.0 for Social Studies Education, and 2.5 for all other content licensure areas.
- Enroll in EDU200 Introduction to Education and EDU201 Introduction to Education Field Experience. During this time, students will:
- File an application for admission to the education department, including a written autobiographical statement and references.
- Be interviewed and accepted into the program upon approval of the faculty of the student's area of emphasis.
- Meet competency requirements in areas of mathematics, reading, and writing to qualify for full admission.
- Have transfer education coursework evaluated by the education department. Only coursework with a grade of C or above is transferable for credit.

#### **B. Standards for Continuance in Education Program**

- Complete admission procedures before enrolling in additional education courses.
- Maintain a GPA of at least 2.75 for Elementary Education, 3.0 for Social Studies Education, and 2.5 for all other content licensure areas.
- Earn a grade of C or better in each education course for all education majors. For elementary education majors, this also includes a grade of C or better in MAT201M, MAT202, NAS courses (NAS101-104), and all courses in endorsement areas. (Courses with grades of C- or lower must be repeated).
- 5-12 and K-12 majors, as well as students with middle level content endorsements, must earn a grade of C or above in each content area course. (Courses with grades of C- or lower must be repeated.)
- Demonstrate continual development of professional traits of educators, as presented throughout the program.

#### **C. Additional Requirements for Program Completion**

Note: There are a variety of ways these competencies can be met, including courses for credit or non-credit and workshops.

- First Aid/CPR for elementary education majors. (This may be taken at Bethel or through a Red Cross certification program.)
- Electronic portfolio is established during the first education course. It is maintained throughout the program to assess completion of foundational standards for teaching.
- Appropriate proficiency levels assessed according to ACTFL proficiency guidelines for majors and endorsements in a modern world language (Spanish).

#### **D. Requirements for Admission to Student Teaching**

- Be recommended for student teaching by the department(s) of the student's area of emphasis.
- Complete the following coursework:
  - Elementary Education—all coursework, including EDU, MAT, NAS, and content courses in endorsement with a grade of C or above.
  - 5-12 and K-12 majors—all EDU and content courses.
- All core content courses must be completed with a grade of C or above (5-12 and K-12 majors).
- Meet competency requirements in areas of mathematics, reading, and writing.
- Complete First Aid/CPR prior to student teaching (elementary education majors only).
- Fulfill any Notification of Concern (NOC) contracts.
- Acceptance for placement by a school.

For transfer or post-baccalaureate students the following applies:

- Elementary education majors must successfully complete two semesters of coursework in education at Bethel.
- Students in 5-12 and K-12 programs must successfully complete a minimum of two courses at the 300 level or above at Bethel in the department of the student's area of emphasis. *Check with each department for specific requirements.*

#### **E. Eligibility Standards for Minnesota Teacher Licensure**

- Complete all requirements for a baccalaureate degree.
- Meet all basic skills requirements required by the state of Minnesota.
- Successfully pass exams in pedagogical and content knowledge as required by the state of Minnesota.
- Successfully complete student teaching experiences.
- Complete Minnesota's requirement of a conduct review statement (Bureau of Criminal Apprehension).

#### **F. Appeals Process**

- Appeal of decisions for admission and/or continuation in the education program and/or course grades can be made through the education department as described in the education policy manual or through the Bethel University appeals process as described in the Student Handbook.
- If a student disputes a licensure decision, he/she has the right to appeal to the Minnesota Board of Teaching.

**G. Notes**

- Licensure standards and resultant program requirements are subject to change by the Minnesota Board of Teaching.
- Meeting the Minnesota licensure requirements is a prerequisite for Bethel University graduates seeking licensure in other states.
- Admission to the university does not ensure admission to the education program, and admission to the education program does not ensure admission to student teaching or approval for licensure.
- The education department reserves the right to consider, as part of admission to student teaching, personal and professional qualities, scholastic achievement, conduct, attitude, or other standards seen as appropriately related.

**EDU200 • Introduction to Education.** 3 Credits.

Contemporary issues in education in the light of history and educational thought. Various aspects of growth and development are included.

*Prerequisites:* Sophomore standing. *Offered:* Fall, interim, spring.

**EDU201 • Introduction to Education Field Experience.** 1 Credits.

A field experience spent in an elementary or secondary school as an instructional aide.

*Corequisites:* EDU200. *Offered:* Fall, interim, spring. *Special Notes:* Designated times are set by the education department.

**EDU203 • School Health and Drugs.** 2 Credits.

Examines the roles of teachers and schools in responding to adolescent health problems, including alcohol/drug problems, with particular attention to health promotion, prevention, and referral. Approaches adolescent drug/alcohol use from a variety of perspectives—behavioral, pharmacological, social, legal, and clinical. Emphasis is on the characteristics of effective comprehensive school-based drug abuse prevention programs.

*Offered:* Fall, spring.

**EDU204UZ • Teaching and Learning in Guadalajara.** 3 Credits.

Onsite experiential course designed to introduce students to Mexican culture and education in the city of Guadalajara. Components include observing and teaching in a Christian school, a homestay with a Mexican family, creation of a classroom ethnography, and an opportunity to reflect on the culture and education process of one Mexican school.

*Prerequisites:* GES130 or GES244; written consent of instructor. *Fulfills:* Course may count as a Spanish elective provided all work is completed in Spanish.

*Offered:* Occasionally interim.

**EDU220 • Introduction to Middle Level Education.** 3 Credits.

Identifies and defines the concept of exemplary and typical middle and junior high schools: philosophy, organizational structure, curriculum, and instructional characteristics. Students develop an understanding of the physical, emotional, social, cognitive, and moral stages of adolescent development and begin to develop the ability to relate middle-level program possibilities to adolescent developmental needs.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* May be taken concurrently with EDU320. *Offered:* Fall, spring.

**EDU236UZ • Exploring British Education and Culture.** 3 Credits.

Designed for students to immerse themselves in British culture and to explore the educational system, with an emphasis on the diverse populations of Pakistani and Indian students and schools. Provides students with three learning experiences: 1) observation and participation in British elementary and secondary schools; 2) homestay with a British family; and 3) cultural exploration in London and surrounding areas.

*Prerequisites:* EDU200; EDU201; GES130 or GES244; admission to the education program. *Offered:* Occasionally interim.

**EDU240 • Educational Psychology.** 3 Credits.

Psychological foundations of education. Various aspects of growth and development, the nature and conditions of learning, implications for teaching, and evaluation.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Offered:* Fall, spring. *Special Notes:* Intended for 5-12 and K-12 licensure students only.

**EDU241 • Educational Psychology Field Experience.** 1 Credits.

A field experience that requires four hours per week in an elementary or secondary school for observation and tutorial experience in a special education setting.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU240. *Offered:* Fall, spring. *Special Notes:* Designated times are set by the education department.

**EDU250 • Educating the Exceptional Child.** 3 Credits.

Teacher candidates learn the historical and legal foundations of educating exceptional children. Instructional design, teaching, referral, assessment, team planning, and placement procedures are introduced. The role of the family is discussed. All of the above are accomplished in the context of cultural pluralism.

*Offered:* Spring.

**EDU271 • Education Psychology and Pedagogy.** 2 Credits.

Foundational knowledge about the theories of learning, cognitive development, instructional planning and assessment practices, and professional reflection.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU272; EDU273; EDU274; EDU275.

*Offered:* Fall, spring.

**EDU272 • Language and Literacy Development for Young Learners (K-3).** 5 Credits.

Foundational knowledge about language development, literacy development, instructional methods, assessment practices, the creation of a literate and motivating environment, and the encouragement of family engagement in literacy.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU271; EDU273; EDU274; EDU275.

*Offered:* Fall, spring.

**EDU273 • Primary Grade Practicum.** 1 Credits.

Application of effective practices done in a primary classroom, working with individual students and small reading groups.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU271; EDU272; EDU274; EDU275.

*Offered:* Fall, spring.

**EDU274 • Education Technology.** 1 Credits.

Methods of integrating technology into the primary grades classroom are considered. The focus will be on approaches with technologies that are research-based, enhance student learning, and are linked to effective instructional strategies. Professional growth/development and developing digital citizenship/responsibility are considered.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU271; EDU272; EDU273; EDU275.

*Offered:* Fall, spring.

**EDU275 • Kindergarten Education.** 1 Credits.

Characteristics of kindergarten children and of the curriculum and teaching strategies appropriate for their developmental level.

*Prerequisites:* EDU200; EDU201; admission to the education program. *Corequisites:* Must be taken concurrently with EDU271; EDU272; EDU273; EDU274.

*Offered:* Fall, spring.

**EDU292 • Foundations of Early Childhood Education.** 3 Credits.

History, philosophy, goals, and content of early childhood education programs. Analysis of teaching strategies appropriate for the development of children ages three to five years. Career opportunities in early childhood education.

*Offered:* Fall.

**EDU293 • Foundations of Early Childhood Field Experience.** 1 Credits.

Supervised observation and participation at one of Bethel University's child development centers.

*Corequisites:* Must be taken concurrently with EDU292. *Offered:* Fall.

**EDU306 • Curriculum in Early Childhood Education.** 3 Credits.

Developmental appropriateness of current curriculum models, equipment, and materials in an early childhood education program.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293; admission to the education program. *Offered:* Spring.

**EDU307 • Curriculum in Early Childhood Education Field Experience.** 1 Credits.

Field experience at one of Bethel University's child development centers utilizing strategies learned in EDU306.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293; admission to the education program. *Corequisites:* Must be taken concurrently with EDU306. *Offered:*

*Spring.*

**EDU317GZ • Educational Equity.** 3 Credits.

Root causes and historical origins of the current disparity of opportunities in U.S. educational systems. Prepares future educators to be culturally competent and responsive critical thinkers who understand the barriers that perpetuate inequities. Addresses these challenges from a biblical and leadership perspective.

*Prerequisites:* EDU200; EDU201; admission to the education program; [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Fall, interim, spring. *Special Notes:* Includes experiential learning in schools and community events.

**EDU320 • Pedagogy and the Young Adolescent Learner.** 2 Credits.

The philosophy and pedagogy of teaching in a middle school is different than teaching in a junior high school. Course activities will help students define, describe, and develop the following components of contemporary middle level schools: appropriate curriculum, content area literacy, interdisciplinary structure, and interdisciplinary teaching.

*Prerequisites:* EDU220 (or may be taken concurrently); EDU240/EDU241. *Offered:* Fall, spring.

**EDU340 • Parent Child and Family Relationships.** 3 Credits.

The family as a social/cultural unit with emphasis on the parents' interaction with the developing child. Parent-child relations, parenting skills, family systems, and family structure and function.

*Offered:* Spring.

**EDU342 • Observation, Assessment, Adaptation, and Referral in Early Childhood.** 4 Credits.

Strategies used in early childhood settings to observe and assess young children's development and to design goals and experiences based upon those assessments. Issues of early identification, referral to special services, building effective parent/professional partnerships, and programming in inclusive early childhood classrooms are discussed.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293; admission to the education program. *Offered:* Fall.

**EDU344 • Health, Nutrition, and Safety with Young Children.** 2 Credits.

Issues in health, nutrition, and safety as related to early childhood settings, birth through age six.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293. *Offered:* Spring.

**EDU350 • Infant and Toddler Care.** 3 Credits.

Strategies used in early childhood settings to assess infant/toddler development and needs, develop goals, and design appropriate learning experiences and environments. Building positive relationships with infants/toddlers and their parents in group settings.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293; admission to the education program. Offered: Fall.

**EDU351 • Infant and Toddler Care Field Experience.** 1 Credits.

Field experience in an infant setting to practice strategies learned in EDU350.

*Prerequisites:* EDU200; EDU201; EDU292; EDU293; admission to the education program. *Corequisites:* Must be taken concurrently with EDU350. Offered: Fall.

**EDU363 • Health Curriculum and Methods.** 1 Credits.

Principles, curriculum, and methods of teaching health in grades K-6. Role of the teacher and the school in responding to the special health needs of elementary-age children.

*Prerequisites:* EDU200; EDU201; admission to the education program. Offered: Fall, spring.

**EDU365 • Physical Education Curriculum and Methods.** 1 Credits.

Principles, curriculum, and methods of teaching physical education in grades K-6.

*Prerequisites:* EDU200; EDU201; admission to the education program. Offered: Fall, spring.

**EDU366A • Visual Arts Curriculum and Methods.** 1 Credits.

Methods, materials, and resources for teaching visual arts in grades K-6.

*Prerequisites:* EDU200; EDU201; admission to the education program. Offered: Fall, spring.

**EDU368A • Music Curriculum and Methods.** 1 Credits.

Methods, materials, and resources for teaching music in grades K-6.

*Prerequisites:* EDU200; EDU201; admission to the education program. Offered: Fall, spring.

**EDU370 • Math Curriculum and Methods.** 3 Credits.

Methods, materials, and resources for teaching mathematics in grades K-6. Emphasis placed on problem solving, inquiry, and conceptual understanding in a standards-based classroom.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU371; EDU372; EDU373; EDU374; EDU375; EDU376. Offered: Fall, spring.

**EDU371 • Science Curriculum and Methods.** 3 Credits.

Methods, materials, and resources for teaching science in grades K-6. Emphasis placed on inquiry and discovery learning, planning, and teaching in a standards-based classroom.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU372; EDU373; EDU374; EDU375; EDU376. Offered: Fall, spring.

**EDU372 • Educational Psychology.** 3 Credits.

Psychological foundations of education continued from EDU271 with an emphasis on grades 4-6. Various aspects of growth and development, the nature and conditions of learning, implications for teaching, awareness of student variability, and strategies for meeting the needs of students with disabilities. Teacher/student relationships and strategies for maintaining a classroom environment where learning can occur.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU371; EDU373; EDU374; EDU375; EDU376. Offered: Fall, spring.

**EDU373 • Reading/Language Arts Curriculum and Methods.** 3 Credits.

Reading methods and processes with a strong emphasis on comprehension and vocabulary development. Language arts skills: writing process, grammar, spelling, drama, listening and speaking skills, viewing skills for students in grades 4-6. A variety of creative and critical response modes to integrate literature across the curriculum.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU371; EDU372; EDU374; EDU375; EDU376. Offered: Fall, spring.

**EDU374 • Social Studies Curriculum and Methods: Planning.** 3 Credits.

Methods, materials, and resources for teaching social studies in grades K-6. Emphasis placed on the use of process skills of the social scientist. Long- and short-term planning including integration of curriculum across content areas, embedding Minnesota Graduation Standards.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU371; EDU372; EDU373; EDU375; EDU376. Offered: Fall, spring.

**EDU375 • Integrating Technology in the Content Areas.** 2 Credits.

Methods of integrating technology in various grade levels and content areas are examined. Students design, implement, and access strategies for assessment and learning. Emphasis on approaches to enhance student learning, increase motivation, and link to effective instructional strategies. Professional growth/development and developing digital citizenship/responsibility are considered.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU371; EDU372; EDU373; EDU374; EDU376. Offered: Fall, spring.



**EDU376 • Intermediate Grade Practicum.** 1 Credits.

Application of effective practices done in a 3rd-6th grade classroom, working with large groups as well as small groups, adapting lessons for students with special needs. Special focus on integrated planning.

*Prerequisites:* EDU200; EDU201; EDU271-275; EDU317GZ; MAT202M; NAS101D; NAS102D; NAS103D; NAS104D; admission to the education program.

*Corequisites:* Must be taken concurrently with EDU370; EDU371; EDU372; EDU373; EDU374; EDU375. Offered: Fall, spring. *Special Notes:* A residency option is available by application. Residents stay in the same cooperating classroom for Block 2 and student teaching.

**EDU400 • Methods in Teaching K-12 English to Speakers of Other Languages.** 3 Credits.

Theories of language learning, language acquisition, and classroom methodologies at the elementary and secondary levels. Exploration of instructional resources, uses of technology, evaluative procedures, and classroom management. Development of a philosophy of English as a Second Language education and practice in unit planning and teaching.

*Prerequisites:* LIN210; LIN300; admission to the education program. Offered: Fall.

**EDU401 • Middle Level Education Practicum in TESL.** 1 Credits.

Classroom-based practicum in an ESL class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU400.

*Corequisites:* Must be taken concurrently with EDU400. Offered: Fall.

**EDU406 • Methods in Teaching Middle Level English.** 3 Credits.

Methods and curriculum employed in teaching English in today's middle schools. Examines current technology in English education as well as interactive teaching and learning. Practice in planning lessons that apply developmentally appropriate principles.

*Prerequisites:* EDU240/EDU241. *Fulfills:* This course replaces EDU320. Offered: Interim.

**EDU407 • Middle Level Education Practicum in English.** 1 Credits.

Classroom-based practicum in an English class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU406 or EDU408.

*Prerequisites:* EDU240/EDU241. *Corequisites:* Must be taken concurrently with EDU406 or EDU408. Offered: Interim.

**EDU411 • Mathematics Education Practicum in grades 5-8 or 5-12.** 1 Credits.

Students observe and participate in a high school and/or middle school mathematics classroom (minimum 30 hours on site). Develop deeper understanding of preadolescent and adolescent learners as well as curriculum, instruction, and assessment in the context of grades 5-12 school communities.

*Prerequisites:* EDU240; EDU241; admission to the education program. *Corequisites:* Must be taken concurrently with EDU412. Offered: Fall.

**EDU412 • Methods in Teaching 5-12 Mathematics.** 3 Credits.

Teaching methodologies, materials, assessment, historical and current trends and issues in curriculum, development of a philosophy of mathematics education, and other topics related to teaching and learning mathematics in grades 5-8 and 9-12. Practice in planning lessons and units, implementing technology, and teaching.

*Prerequisites:* EDU240; EDU241; admission to the education program; senior standing or permission of instructor. Offered: Fall.

**EDU413 • Methods in Teaching K-12 Art.** 3 Credits.

Materials, methods, and curriculum employed in teaching art at both the elementary and secondary levels. Historical survey of philosophy of art education and present trends. Studio time for exploration and application of media suitable for both elementary and secondary levels.

*Prerequisites:* EDU240; EDU241; admission to the education program. Offered: Fall. *Special Notes:* Requirements for this course are fulfilled through EDUC682 *Methods of Teaching Visual Arts, K-12, which is taught in conjunction with the Bethel University Graduate School.*

**EDU414 • Middle Level Education Practicum in Art.** 1 Credits.

Classroom-based practicum in an art class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU413.

*Prerequisites:* EDU240; EDU241. *Corequisites:* Must be taken concurrently with EDU413. Offered: Fall.

**EDU418 • Methods in Teaching 9-12 Social Studies.** 2 Credits.

Development of ability to take concepts from several component disciplines of social studies and communicate them effectively to, or direct their acquisition by, students in grades 9-12. Curriculum trends, materials, classroom methodologies, and teacher competencies are studied and applied.

*Prerequisites:* EDU240; EDU241; admission to the education program. *Corequisites:* Must be taken concurrently with EDU419. Offered: Spring.

**EDU419 • Middle Level Seminar and Practicum in Social Studies 5-8.** 2 Credits.

Classroom-based practicum in a social studies class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU418.

*Prerequisites:* EDU240/EDU241; EDU220. Offered: Spring. *Special Notes:* Social studies 5-12 majors may take concurrently with EDU418.

**EDU420 • Methods in Teaching Secondary Science.** 3 Credits.

Current methods and approaches used in the teaching of science in grades 5-12. Examination of ways to develop and present curriculum with emphasis on content, scientific investigation, inquiry, assessment, and safe laboratory practices.

*Prerequisites:* EDU240; EDU241; admission to the education program. Offered: Fall. *Special Notes:* Requirements for this course are fulfilled through EDUC681 *Methods of Teaching 5-12 Science, which is taught in conjunction with the Bethel University Graduate School.*

**EDU422 • Curriculum and Methods of 5-12 Health Education.** 3 Credits.

Exploration of the science and art of teaching health. Includes the skills of planning units, teaching lessons, writing measurable objectives, and evaluating lessons for students in grades 5-12 and the community. Major focus on learning and applying various teaching methods and strategies to the content areas within health education.

*Prerequisites: EDU240; EDU241; admission to the education program; HPE130; HPE340. Offered: Fall.*

**EDU423 • Middle Level Education Practicum in Health.** 1 Credits.

Classroom-based practicum in a health education class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU422.

*Prerequisites: HPE130; HPE340. Offered: Fall.*

**EDU424 • Methods in Teaching K-12 Physical Education.** 3 Credits.

Instructional process in physical education, grades K-12. Observation and practice of teaching skills and strategies, including: planning and delivering content, managing class, and monitoring student progress.

*Prerequisites: EDU240; EDU241; HPE316 or consent of instructor; admission to the education program. Offered: Fall.*

**EDU425 • Middle Level Practicum in Physical Education.** 1 Credits.

Classroom-based practicum in a physical education class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU424.

*Prerequisites: EDU240; EDU241; HPE247; HPE316. Corequisites: Must be taken concurrently with EDU424. Offered: Fall.*

**EDU426 • Methods in Teaching K-12 World Languages and Cultures.** 3 Credits.

Theories of language acquisition, language learning, and classroom methodologies at the elementary and secondary levels. Exploration of instructional resources, uses of technology, evaluative procedures, and classroom management. Development of a philosophy of communicative language teaching and practice in unit planning and teaching.

*Prerequisites: EDU240; EDU241; admission to the education program; or a major or minor offered through the Department of Modern World Languages and consent of instructor. Offered: Fall. Special Notes: Service-learning and completion of oral proficiency assessment is required.*

**EDU427 • Middle Level Education Practicum in World Languages and Cultures.** 1 Credits.

Classroom-based practicum in a Spanish class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU426.

*Prerequisites: EDU240/241. Corequisites: Must be taken concurrently with EDU426. Offered: Fall.*

**EDU428 • Methods in Teaching 5-8 Science.** 2 Credits.

Current methods and approaches used in the teaching of science in grades 5-8. An examination of ways to develop and present curriculum with emphasis on assessment, instructional strategies, scientific investigations, safety training, and current issues in science education.

*Prerequisites: Admission to the education program. Offered: Fall.*

**EDU429 • Science Education Practicum in grades 5-8 or 5-12.** 1 Credits.

Students observe and participate in a high school and/or middle school science classroom (minimum 30 hours on site). Develop deeper understanding of preadolescent and adolescent learners as well as curriculum, instruction, and assessment in the context of grades 5-12 school communities.

*Prerequisites: EDU240/241; admission to the education program. Corequisites: Must be taken concurrently with EDU420 or EDU428. Offered: Fall.*

**EDU432 • Methods in Teaching Elementary Music.** 3 Credits.

Methods and materials for teaching music in the elementary school. The skills of singing, playing, moving, improvising, reading, and listening are explored as a means of helping children gain an intuitive and theoretical understanding of musical principles.

*Prerequisites: EDU240; EDU241; major or minor in music; admission to the education program. Offered: Fall.*

**EDU433 • Methods in Teaching Secondary Music.** 3 Credits.

Methods and materials for teaching music in the middle school, junior high, and high school vocal and instrumental programs.

*Prerequisites: EDU432; major or minor in music; admission to the education program. Offered: Spring.*

**EDU434 • Middle Level Education Practicum in Music.** 1 Credits.

Classroom-based practicum in a music class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU433.

*Prerequisites: EDU432; major or minor in music. Corequisites: EDU433. Offered: Spring.*

**EDU489 • Student Teaching in Preprimary.** 3 Credits.

Observation and student teaching at preprimary level at one of Bethel's child development centers. Includes participation in a seminar that meets regularly. Requirements for successful completion of student teaching in preprimary include: a personal philosophy of early childhood education; two (2) portfolios on children; two (2) entries for the professional portfolio. These entries are based on the Standards of Effective Practice and should include artifacts.

*Prerequisites: Admission to student teaching. Offered: Fall, spring.*



**EDU490 • Student Teaching Block.** 4-15 Credits.

Observation and student teaching at appropriate level(s) for specified period(s). Includes participation in a seminar that meets regularly. Students earning a license to teach in two teaching majors must register for EDU490 in the primary license and in the second license. Both student teaching placements can occur within the same semester. Some situations may require the addition of student teaching during interim.

*Prerequisites: Admission to student teaching; 2.50 GPA. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring.*

**EDU491 • Student Teaching in Middle Level.** 3 Credits.

Observation and student teaching in fields in which a student will be licensed to teach. This involves student teaching in a Middle Level endorsement area.

*Prerequisites: Admission to student teaching. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring.*

## B.A. in K-6 Elementary Education

EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
<b>Block 1-Courses in this sequence are taken as a block in the same semester:</b>		
EDU271	Education Psychology and Pedagogy	2
EDU272	Language and Literacy Development for Young Learners (K-3)	5
EDU273	Primary Grade Practicum	1
EDU274	Education Technology	1
EDU275	Kindergarten Education	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU363	Health Curriculum and Methods	1
EDU365	Physical Education Curriculum and Methods	1
EDU366A	Visual Arts Curriculum and Methods <sup>1</sup>	1
EDU368A	Music Curriculum and Methods <sup>1</sup>	1
<b>Block 2-Courses in this sequence are taken as a block in the same semester:</b>		
EDU370	Math Curriculum and Methods	3
EDU371	Science Curriculum and Methods	3
EDU372	Educational Psychology	3
EDU373	Reading/Language Arts Curriculum and Methods	3
EDU374	Social Studies Curriculum and Methods: Planning	3
EDU375	Integrating Technology in the Content Areas	2
EDU376	Intermediate Grade Practicum	1
EDU490	Student Teaching Block	15
MAT201M	Mathematics for Elementary Education 1 <sup>1</sup>	3
MAT202	Mathematics for Elementary Education 2	3
NAS101D	Science Concepts -Life Science <sup>2</sup>	2
NAS102D	Science Concepts - Earth/Space Science <sup>2</sup>	2
NAS103D	Science Concepts -Chemistry <sup>2</sup>	2
NAS104D	Science Concepts - Physics <sup>2</sup>	2
General Education		51-52
Electives		3-4
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> A student may fulfill the General Education-Lab Science (D course) requirement by completing two of the NAS courses listed above.

## B.A. in K-6 Elementary Education with Preprimary Endorsement (Age 3-Grade 6)

All required courses for Major in K-6 Elementary Education		68
EDU292	Foundations of Early Childhood Education	3
EDU293	Foundations of Early Childhood Field Experience	1
EDU306	Curriculum in Early Childhood Education	3

EDU307	Curriculum in Early Childhood Education Field Experience	1
EDU340	Parent Child and Family Relationships	3
EDU342	Observation, Assessment, Adaptation, and Referral in Early Childhood	4
EDU344	Health, Nutrition, and Safety with Young Children	2
EDU489	Student Teaching in Preprimary	3
General Education <sup>1</sup>		51-52

**Total Credits****139-140**

<sup>1</sup> Because of possible double counting between General Education and the major, total credits can be reduced to 128-129 credits.

**Majors in 5-12 Education**

See respective department listings for majors in the following areas:

- Communication Arts and Literature (English)
- Health (Human Kinetics and Applied Health Science)
- Mathematics
- Science with chemistry, life science, or physics emphasis
- Social Studies (see listing under Multidisciplinary section)

**Majors in K-12 Education**

See respective department listings for majors in the following areas:

- Music: Instrumental or Vocal
- Physical Education (Human Kinetics and Applied Health Science)
- Teaching English as a Second Language (see listing under Modern World Languages)
- Visual Arts
- World Languages and Cultures: Spanish (see listing under Modern World Languages)

**Early Childhood Education Licensure, Birth-Grade 3**

The Early Childhood Education license may be obtained by successfully completing the following courses in addition to the major in elementary education with a preprimary endorsement:

EDU350	Infant and Toddler Care	3
EDU351	Infant and Toddler Care Field Experience	1

**Total Credits****4****Middle Level Endorsements**

Elementary Education majors and students with K-12 or 5-12 licensure may choose one or more of the Middle Level Endorsements as an addition to the primary license. Education majors seeking a Middle Level Endorsement must complete all requirements for the Elementary Education K-6 major plus courses in the chosen middle level endorsement as noted below:

**Communication Arts and Literature**

COM110N	Basic Communication <sup>1</sup>	3
EDU220	Introduction to Middle Level Education	3
EDU406	Methods in Teaching Middle Level English	3
EDU407	Middle Level Education Practicum in English	1
EDU491	Student Teaching in Middle Level	3
ENL200	Juvenile Literature	3
ENW205A	Essay Writing <sup>1</sup>	4
ENL100N or ENL215U	Great Writers: An Introduction to Literature <sup>1</sup> World Literature	3

Select one of the following:

**4**

ENL102	Survey of British Literature I	
ENL202	Survey of British Literature II	

ENL204	American Literary Traditions	
<b>Total Credits</b>		<b>27</b>

### Mathematics

EDU220	Introduction to Middle Level Education	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU411	Mathematics Education Practicum in grades 5-8 or 5-12	1
EDU412	Methods in Teaching 5-12 Mathematics	3
EDU491	Student Teaching in Middle Level	3
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT201M	Mathematics for Elementary Education 1 <sup>1</sup>	3
MAT202	Mathematics for Elementary Education 2	3
MAT241	Discrete Mathematics	3
MAT351	Modern Geometry	3
MAT207M or MAT330	Statistical Analysis <sup>1,2</sup> Probability and Statistics	3
<b>Total Credits</b>		<b>35</b>

### Science

EDU220	Introduction to Middle Level Education	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU428	Methods in Teaching 5-8 Science	2
EDU429	Science Education Practicum in grades 5-8 or 5-12	1
EDU491	Student Teaching in Middle Level	3
BIO118 & 118D	General Biology and General Biology Lab <sup>1</sup>	4
CHE101 & 101D	Introduction to Chemistry and Introduction to Chemistry Lab <sup>1</sup>	4
GEL168 & 168D	Geology and Geology Lab <sup>1,3</sup>	4
NAS101D	Science Concepts -Life Science <sup>1</sup>	2
NAS103D	Science Concepts -Chemistry <sup>1</sup>	2
NAS104D	Science Concepts - Physics <sup>1</sup>	2
PHY102 & 102D	Concepts in Physics and Concepts in Physics Lab <sup>1</sup>	4
PHY112 & 112D	Introduction to Astronomy and Introduction to Astronomy Lab <sup>1,3</sup>	4
<b>Total Credits</b>		<b>37</b>

### Social Studies

ECO201	Principles of Economics	4
EDU220	Introduction to Middle Level Education	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU419	Middle Level Seminar and Practicum in Social Studies 5-8	2
EDU491	Student Teaching in Middle Level	3
GEO120		3
GEO/HIS 320K	History and the Human Environment <sup>1</sup>	3
HIS200L	American Civilization <sup>1</sup>	3
POS100	American Politics and Government	3
SOC101	Introduction to Sociology	3
<b>Total Credits</b>		<b>29</b>

**World Languages and Cultures—Spanish**

EDU220	Introduction to Middle Level Education	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU426	Methods in Teaching K-12 World Languages and Cultures	3
EDU427	Middle Level Education Practicum in World Languages and Cultures	1
EDU491	Student Teaching in Middle Level	3
SPA201	Intermediate Spanish I	3-4
or SPA203	Intensive Intermediate Spanish I in Guatemala	
SPA202UZ	Intermediate Spanish II <sup>1</sup>	4
or SPA204	Intensive Intermediate Spanish II in Guatemala	
Select one of the following:		3-4
SPA290	Ibero-American History	
SPA291	Ibero-American History in Guatemala	
SPA292	Ibero-American History in Spain	
Select one of the following:		4
SPA301U	Hispanic Cultures <sup>1</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U	Historic Spain and its Cultures <sup>1</sup>	
SPA300	Introduction to Hispanic Literature	3-4
or SPA305	Readings from Latin America and Spain	
One elective from 200 level or above Spanish courses		3-4
One elective from 300 level or above in Spanish courses		3-4
<b>Total Credits</b>		<b>35-40</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Due to Minnesota teacher licensure requirements, PSY230M may not be substituted for this statistics course.

<sup>3</sup> PHY112/PHY112D and GEL168/GEL168D replace NAS102D in the K-6 Elementary Education core for students in science endorsement only, which will decrease the total credits by 2.

<sup>4</sup> Students seeking licensure in the state of Minnesota with an endorsement or major in a world language who are not native speakers of that language are required to demonstrate Intermediate-High level speaking proficiency as defined by the ACTFL Proficiency Guidelines and tested via the state-required content exam. To achieve this level of proficiency, all students seeking a license or endorsement in a world language are expected to have an extended immersion experience in a country where their language of study is the primary language. Native speakers of Spanish are required to demonstrate advanced level proficiency in English and their native language.

**Minor in Science, Technology, Engineering, and Math (STEM)**

The STEM minor provides an important opportunity for elementary education majors to focus on the teaching of science, technology, engineering, and mathematics. STEM is one of the most highly valued areas for teachers in 21st century classrooms.

NAS101D	Science Concepts -Life Science <sup>1</sup>	2
NAS102D	Science Concepts - Earth/Space Science <sup>1</sup>	2
NAS103D	Science Concepts -Chemistry <sup>1</sup>	2
NAS104D	Science Concepts - Physics <sup>1</sup>	2
NAS300	Exploring Applied Concepts in Science, Technology, Engineering, and Math	4
NAS400	Applied Research in Science, Technology, Engineering, and Math Design	4
MAT201M	Mathematics for Elementary Education 1	3
MAT202	Mathematics for Elementary Education 2	3
<b>Total Credits</b>		<b>22</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

# Engineering

## B.A./B.S. Dual-Degree Engineering Program

The dual-degree engineering program is designed for the student who desires a stronger liberal arts and science background than can be achieved within a traditional engineering program. In this program, students earn both a B.A. from Bethel University and an engineering degree from a strong school of engineering. This combination of degrees has proven to be powerfully attractive to prospective employers who seek well-trained engineers with the communication and leadership skills inherent in a bachelor of arts degree. Students benefit from small introductory class sizes and the Christian emphasis at Bethel, while obtaining their engineering degree from a widely respected and recognized school of engineering.

Formal agreements exist between Bethel University and the University of Minnesota (College of Science and Engineering) in Minneapolis and Case Western Reserve in Cleveland, Ohio, but dual-degree arrangements can also be established with almost all other schools of engineering on an individual basis. The graduation requirements can normally be met in five years or less of full-time study. The program is typically arranged as three years at Bethel University and two years at the other university, although students may elect to spend more time at either or both institutions.

### Program Requirements:

1. All General Education requirements as prescribed in this catalog must be met, except the writing and speaking proficiency courses within the major.
2. The requirements for an engineering major, as listed below, must be met.
3. Formal application must be made to the chairperson of the Bethel University Department of Physics.
4. Entrance requirements for the cooperating school of engineering must be met.
5. All requirements for an engineering degree at a school of engineering must be completed.
6. Neither the bachelor of arts degree from Bethel University nor the bachelor's degree in engineering is awarded until requirements for both degrees have been met.

In addition to the engineering courses listed below, many additional courses listed in the physics section of this catalog are approved engineering courses by various schools of engineering. A complete listing of such courses approved by the University of Minnesota is available from the physics department.

## Major in Engineering

- B.A. in Engineering (p. 118)

### **ENR260 • Careers in Engineering and Physics Seminar.** 1 Credits.

Focus on developing careers in high-technology fields such as engineering and physics. Emphasis on exploring some of the wide variety of specific careers possible through methods such as video, lecture, tours, and guest speakers. Development of practical professional skills such as writing resumes and cover letters, accumulating connections and experience, and developing techniques for interviewing.

*Prerequisites:* PHY296/297. *Offered:* Fall. *Special Notes:* Carries cross-credit in physics.

### **ENR308 • Statics and Mechanics of Materials.** 4 Credits.

Force and moment vectors, equilibrium of rigid bodies in two and three dimensions; trusses, friction, centroids, and moments of inertia. Linear elasticity; introduction to stress and strain analysis applied to beams, vessels, pipes, and combined loading; stress and strain; axial, flexural, and torsional deflections for linear elastic materials.

*Prerequisites:* MAT223 (may be taken concurrently); PHY292/292D. *Offered:* Spring, even # years.

### **ENR320 • Mathematical Methods in Physics and Engineering.** 4 Credits.

Development of skill in mathematical techniques useful in the solution of physics and engineering problems. Included are vector analysis; line and surface integrals; Fourier analysis; partial differential equations; and linear algebra topics such as basis, dimension, matrices, eigenvalues/eigenvectors.

*Prerequisites:* MAT222; MAT223. *Offered:* Fall. *Special Notes:* Carries cross-credit in physics.

### **ENR352 • Computer Methods in Physics and Engineering.** 3 Credits.

Application of the computer to solving applied problems of interest to physicists and engineers. Computer techniques are developed for numerical methods, simulation models, and data acquisition and control in the laboratory.

*Prerequisites:* MAT223; PHY296/297 (grade of C or better) or consent of instructor. *Corequisites:* Concurrent registration in ENR353 is required. *Offered:* Spring. *Special Notes:* PHY302/303 is recommended. Carries cross-credit in physics.

### **ENR353 • Computer Methods in Physics and Engineering Lab.** 1 Credits.

Laboratory experience accompanying ENR352.

*Corequisites:* Concurrent registration in ENR352 is required. *Offered:* Spring. *Special Notes:* Carries cross-credit in physics.

**ENR422 • Fluid Mechanics.** 3 Credits.

Laws of statics, kinematics, and dynamics applied to fluid mechanics. Integral and differential conservation laws for mass, momentum, and energy. Dimensional analysis, viscous pipe flow, boundary layers, separated flows, and potential flow.

*Prerequisites:* MAT223; PHY296/297 (grade of C or better) or consent of instructor. *Corequisites:* Concurrent registration in PHY423 is required. *Offered:* Fall, odd # years. *Special Notes:* Carries cross-credit in physics.

**ENR423 • Fluid Mechanics Lab.** 1 Credits.

Laboratory experience accompanying ENR422.

*Corequisites:* Concurrent registration in ENR422 is required. *Offered:* Fall, odd # years. *Special Notes:* Carries cross-credit in physics.

**ENR450 • Topics in Applied Physics and Engineering.** 4 Credits.

Topics selected from various fields of engineering and applied physics for the purpose of illustrating the practical application of physical principles. Emphasis on developing the skills and viewpoints commonly used by engineers and industrial physicists.

*Prerequisites:* ENR320 (may be taken concurrently); MAT222. *Repeatable course* Course may be repeated when a different topic is emphasized. *Offered:* Occasionally. *Special Notes:* Carries cross-credit in physics. The field of engineering or applied physics is announced prior to registration.

## B.A. in Engineering

CHE113 & 113D	General Chemistry I and General Chemistry I Lab <sup>1</sup>	4
COS205	Scientific Computing	3
ENR260	Careers in Engineering and Physics Seminar	1
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT222	Differential Equations	3
MAT223	Multivariable Calculus	3
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
ENR352 & ENR353 or MAT344	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab Numerical Methods	3-4
Select 12 hours of electives from the following:		12
CHE214 & CHE215	General Chemistry II and General Chemistry II Lab <sup>3</sup>	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab <sup>3</sup>	
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab <sup>3</sup>	
ENR308	Statics and Mechanics of Materials	
ENR320	Mathematical Methods in Physics and Engineering	
ENR422 & ENR423	Fluid Mechanics and Fluid Mechanics Lab	
MAT211	Linear Algebra	
MAT330	Probability and Statistics	
PHY302 & PHY303	Electronics and Electronics Lab	
PHY312 & PHY313	Modern Physics and Modern Physics Lab	
PHY340	Mechanics	
PHY450	Topics in Applied Physics and Engineering	
General Education		51-52
Electives <sup>2</sup>		26-28

**Total Credits****122-126**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> The additional studies taken in a school of engineering are considered equivalent to the elective requirements for graduation from Bethel.

<sup>3</sup> Required for chemical engineering. CHE344/CHE345 and CHE348/CHE349 strongly recommended.

An attractive and popular alternate route to a career in engineering is to receive either a B.S. or a B.A. degree from Bethel with a major either in physics or applied physics and then apply to a graduate program in engineering at another university. Typically this approach takes four years at Bethel and two at the school of engineering, resulting in a bachelor's degree from Bethel and an M.S. in the engineering field of choice. The student applies to any school with a graduate program in engineering and will often receive full financial assistance.

## English

The Department of English approaches the study of literature and the craft of writing from a Christian perspective that recognizes faith as integral to all learning. We value language as created by God and words as the medium through which we best understand the human experience. Through extensive knowledge of English and American literature, as well as exposure to literature of other cultures, students better understand themselves, vicariously experience the lives of others, and increase their knowledge of the world around them. We equip students to pursue education at the graduate level; to work in fields closely related to the discipline (such as education, journalism, and publishing); or to bring their skills in careful analysis, effective writing, and creative thinking to a variety of other professional careers. The disciplines of literary study and writing develop the intellectual capacity for critical thought, the emotional capacity for sympathetic understanding, the aesthetic capacity for appreciating beauty, the moral capacity for ethical action, and the creative capacity for effective communication. Each of these areas must be nurtured if students are to develop as whole persons with lives committed to meaningful work and enriched by the capacity for lifelong learning.

## Majors in English

- B.A. in English Literature (p. 123)
- B.A. in Journalism (p. 124)
- B.A. in English Literature and Writing (p. 123)
- B.A. in Communication Arts and Literature Education 5-12 (English Education) (p. 122)

## Minors in English

- English Literature (p. 125)
- Creative Writing (p. 125)
- Journalism (p. 125)

### **ENL100N • Great Writers: An Introduction to Literature.** 4 Credits.

Why do great works of literature endure, and how do they illuminate the human experience? Works by classic and contemporary authors are studied for their artistry; their portrayal of great ideas, hopes, joys, and sorrows; and their insight into beauty, truth, and self-understanding.

*Offered: Fall, spring.*

### **ENL102 • Survey of British Literature I.** 4 Credits.

Major literary works from Anglo-Saxon times through the 18th century, with some attention given to the development of literary movements and genres. Authors include the Beowulf poet, Chaucer, Shakespeare, Donne, Milton, and Pope.

*Offered: Fall.*

### **ENL111N • American Life Stories.** 3 Credits.

An introduction to American autobiography, exploring how individual Americans write their life stories. Consideration of the translation of some personal narratives into film. Selections reflect the rich cultural diversity of American life.

*Offered: Occasionally.*

### **ENL200 • Juvenile Literature.** 3 Credits.

Reading of a wide range of juvenile literature. Study and discussion of reading interests and reading characteristics of juveniles. Review of bibliographies for juvenile reading.

*Offered: Spring. Special Notes: Intended especially for prospective teachers.*

### **ENL202 • Survey of British Literature II.** 4 Credits.

Major writers and works from the Romantic, Victorian, and early 20th century periods. Historical and intellectual background. Writers include Blake, Wordsworth, Keats, Shelley, Arnold, Hopkins, Joyce, Conrad, and Yeats.

*Prerequisites: GES110 or GES145. Offered: Occasionally fall, spring.*

### **ENL204 • American Literary Traditions.** 4 Credits.

Major American authors studied in their historical and cultural contexts, from the colonial era to the present.

*Prerequisites: GES110 or GES145. Offered: Fall, spring.*

### **ENL215U • World Literature.** 3 Credits.

Selected great works of non-American/non-British literature with an emphasis on non-Western works in their social and historical contexts.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, occasionally interim, spring.*



**ENL235L • Film and the Modern Sensibility.** 3 Credits.

An exploration of film as an art form and as an expression of the meanings of “modernism.” Why film is a uniquely modern art form is addressed, as well as those themes that identify the “modern sensibility.” Films such as *Citizen Kane*, *Rashomon*, *Do the Right Thing*, *Beloved*, *Tender Mercies*, *Apocalypse Now*, and others are viewed and analyzed.

*Prerequisites:* GES130 or GES244 (may be taken concurrently). *Offered:* Occasionally interim. *Special Notes:* Carries cross-credit in philosophy.

**ENL241L • Modern Mythmakers.** 3 Credits.

Consideration of how writers and filmmakers appropriate mythic structures and archetypes to create meaningful narratives of human experience. Modern mythmakers may include: J.R.R. Tolkien, George Lucas, Toni Morrison, C.S. Lewis, and others.

*Prerequisites:* GES130 or GES244 (may be taken concurrently). *Offered:* Fall or spring.

**ENL301 • Chaucer and Writers of Arthurian Quests.** 4 Credits.

Major emphasis on *The Canterbury Tales* and Arthurian literature. Medieval pilgrimage and the Grail quest, as treated by English and continental authors.

*Offered:* Spring 2018.

**ENL303 • Shakespeare: The Art of the Dramatist.** 4 Credits.

Major plays in Shakespeare’s distinct periods and genres: history, comedy, tragedy, and romance. Both literary and theatrical aspects are examined, with attention to historical context. Emphasis on performance.

*Offered:* Spring.

**ENL304 • Milton and the Seventeenth Century.** 4 Credits.

Major emphasis on Milton’s *Paradise Lost* and his other poems and prose, with readings in metaphysical and religious poetry of such writers as Donne and Herbert.

*Offered:* Spring 2016.

**ENL309 • Enlightenment and Romantic British Literature.** 4 Credits.

British literature from Dryden, Pope, Swift, and Johnson, to Wordsworth, Coleridge, Keats, Shelley, and Byron. Emphasis on social and literary satire, prose forms, Romantic nature poetry, the changing role of the imagination, and criticism.

*Offered:* Spring 2017.

**ENL311 • Studies in American Literature: The Civil War.** 4 Credits.

Study of the American Civil War and its appeal to historical and literary imaginations. Selected works are studied in historical context, including the causes, the course of the war, and the consequences of the war for the nation.

*Offered:* Spring, odd # years.

**ENL313 • Studies in American Literature: The Harlem Renaissance.** 4 Credits.

The massive migration north of African Americans after World War I resulted in a rich literary and artistic movement known as the Harlem Renaissance. Major African-American writers from this period through the Civil Rights era are studied, including: Langston Hughes, Zora Neale Hurston, W.E.B. DuBois, Richard Wright, Ralph Ellison, Alice Walker, and Toni Morrison.

*Offered:* Spring, even # years.

**ENL315G • Literature of the Oppressed.** 3 Credits.

Literature that arises out of oppression. Explores oppression through the imaginative response of the oppressed. Typical historical foci include the Holocaust; totalitarianism; and the experience of African Americans, Native Americans, and women.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course*; *World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Fall or spring.

**ENL316GZ • Literature of Faith: Christianity and Islam.** 3 Credits.

Compares important literary works from both the Christian and Islamic worlds from the Middle Ages to the present. Emphasizes literary and historical study, as well as vigorous dialogue and inquiry, as vital tools for understanding present-day Christian and Muslim cultures. A significant cross-cultural experience, involving interaction with Muslim communities, is required.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course*; *World Cultures(U) course*] or [GES246; *World Cultures (U) course*]. *Offered:* Occasionally.

**ENL321 • Drama in Great Britain.** 4 Credits.

Drama in performance, using the plays seen abroad during the England Term. Special attention paid to Shakespeare.

*Offered:* England Term, fall, odd # years.

**ENL341K • Environmental Writing.** 3 Credits.

As the environmental crisis has deepened, American nature writing has evolved into a richly creative endeavor that explores the complex interactions of nature, technology, and society. Students study environmental writing as a means for valuing biodiversity and for envisioning changes in global policies, applications of technology, and environmental ethics.

*Prerequisites:* *Laboratory Science (D) course*; *mathematics (M) course*. *Offered:* Fall or spring. *Special Notes:* Carries cross-credit in Environmental Studies.

**ENL350 • 20th Century Literature.** 4 Credits.

Major writers, movements, and themes in early 20th century literature in their historical and intellectual context. Emphasis on the rise of modernism in England, France, and America. Major figures include Eliot, Pound, Joyce, Hemingway, Lawrence, Woolf, Stevens, Williams, and Faulkner.

*Offered:* Fall, even # years.

**ENL352 • Contemporary Literature.** 4 Credits.

Major writers, movements, and themes in literature published since World War II. Emphasis on responses to modernism, current trends, and the emergence of minority and women writers, especially in America.

*Offered: Fall, odd # years.*

**ENL354 • Literature on Location: Major British Authors.** 4 Credits.

Selected British authors in conjunction with the places that inspired or were the focus of their work. Authors may include Chaucer (Canterbury), Joyce (Dublin), Wordsworth and Coleridge (Lake District), Hardy (Dorset), and Woolf (Bloomsbury).

*Offered: England Term, fall, odd # years.*

**ENL355 • Modernism in London, Dublin, and Paris.** 4 Credits.

On-location study of the rise of modernism in literature and art in London, Dublin, and Paris in the early part of the 20th century. Focus on the intellectual and historical context, and on such figures as Eliot, Woolf, Pound, Joyce, Stein, and Hemingway.

*Offered: England Term, occasionally.*

**ENL365 • Topics in Literary Studies.** 4 Credits.

Close study in a specific topic or genre of literature. Emphasis on applying the skills of literature study to a closely focused topic.

*Prerequisites: ENL102; ENL202; ENL204; or consent of instructor. Offered: Fall, even # years; spring, even # years.*

**ENL498 • Research Seminar in English.** 1 Credits.

Research methodology in literature or journalism. Development of a proposal for a scholarly project to be completed and formally presented in ENL499 or ENW499.

*Prerequisites: Major in journalism, or literature and writing; junior standing. Offered: Fall. Special Notes: May not be taken concurrently with ENL499 or ENW499.*

**ENW100A • Introduction to Creative Writing.** 3 Credits.

Exploration of the creative act, addressing writing as a means for discovering the created world and ourselves as created beings within it. Emphasis on writing original work in three major genres: fiction, creative nonfiction, and poetry.

*Offered: Fall, occasionally interim, spring.*

**ENW115 • Reporting I.** 3 Credits.

Introduction to fundamentals of reporting and writing for the news media, emphasizing print journalism. Covers news values, news judgment, the structure of news stories, information gathering, research techniques, and Associated Press style. Students learn to write quickly, accurately, and concisely on deadline.

*Offered: Fall, spring.*

**ENW201 • Methods of Tutoring Writing.** 1 Credits.

Introduction to the practical applications of writing theory, with a focus on tutoring student writers. Course readings with supervision will guide reflection on the student's work as a Writing Center tutor.

*Offered: Fall, spring. Special Notes: Required of all first-time Writing Center tutors.*

**ENW205A • Essay Writing.** 4 Credits.

Exploration of the great diversity of essay forms with an emphasis on the expository, persuasive, and personal essay.

*Prerequisites: GES110 or GES244. Offered: Fall, even # years; spring.*

**ENW214 • Principles of Editing.** 2 Credits.

Editing of copy for publication in newspapers, magazines, and online media. Exposure to the book publishing process. Includes working with the Associated Press and Chicago Style manuals.

*Offered: Fall.*

**ENW300A • Writers Workshop.** 3 Credits.

Open to students with a well-defined writing project in a genre of their choice (e.g., fiction, nonfiction, poetry, biography, etc.) to be completed by the end of the course. Regular and frequent consultations with instructor and class sessions with peers for critique and encouragement.

*Prerequisites: Consent of instructor. Repeatable course Workshop may be repeated for credit with permission of instructor. Offered: Interim, occasionally fall or spring.*

**ENW303AZ • Travel Writing.** 4 Credits.

Art and craft of travel writing are studied and practiced while traveling. Focus on reading travel writing from the past and present, and writing about one's own travel experience as it is happening. May also include reading literature and other books related to the place of travel.

*Offered: Occasionally.*

**ENW310 • Creative Nonfiction.** 4 Credits.

Writing creative nonfiction, including forms such as memoir, personal, short, and lyric essays, and literary journalism, with a focus on literary devices as tools for expressing experience. Emphasis on skills such as development of authentic voice, understanding the relationship between structure and meaning, and cultivating the descriptive power of language.

*Prerequisites: ENW205A or ENW211; consent of instructor. Offered: Fall, even # years.*

**ENW312A • Fiction Writing.** 4 Credits.

Practice in modern narrative techniques. Emphasis on writing and peer criticism of short fiction.

*Offered: Fall, odd # years.*

**ENW317A • Poetry Writing.** 4 Credits.

Metrics, imagery, and other techniques of versification, with practice in writing in a wide variety of genres.

*Offered: Spring.*

**ENW330GZ • Media and Communication in Developing Countries.** 3 Credits.

An examination of the socioeconomic, technological, and political factors that have influenced the development of communication systems in developing countries, with special emphasis on the role of Christian journalists. Includes comparative analysis of western media systems and those of developing nations.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]; junior or senior standing. Offered: Occasionally interim.*

**ENW342 • Journalism for Social Change.** 3 Credits.

Study of journalism that promotes causes, with special consideration of journalistic history, standards of objectivity and fairness, and methods of newsgathering and reporting. Taught either as an overview or with a focus on one type of advocacy journalism (such as environmental, religious, or political).

*Prerequisites: ENW115. Offered: Spring, even # years.*

**ENW360 • Topics in Journalism.** 3 Credits.

Study of a specialized topic of relevance to the practicing journalist with emphasis on the impact of journalism within a specific cultural context and the unique role of the Christian journalist.

*Prerequisites: Sophomore standing or consent of department chair. Offered: Interim.*

**ENW481 • Internship in Writing.** 1-4 Credits.

Placement in an off-campus writing position. Must be planned well in advance of placement in consultation with advisor.

*Prerequisites: Major or minor in the Department of English; completion of 10 credit hours in English; consent of instructor. Offered: Offered by arrangement.*

**ENW499 • Senior Seminar in Journalism.** 3 Credits.

Analysis of a variety of topics relevant to the practice of journalism with special consideration given to the role of the Christian journalist. Culminates in the completion of a major research project.

*Prerequisites: Senior standing; major or minor in journalism; ENL498. Offered: Spring.*

## B.A. in Communication Arts and Literature Education 5-12 (English Education)

ENL102	Survey of British Literature I	4
ENL200	Juvenile Literature	3
ENL202	Survey of British Literature II	4
ENL204	American Literary Traditions	4
ENL215U	World Literature <sup>2</sup>	3
ENW201	Methods of Tutoring Writing	1
ENL303	Shakespeare: The Art of the Dramatist	4
or ENL321	Drama in Great Britain	
Select one from the following:		4
ENL313	Studies in American Literature: The Harlem Renaissance	
ENL350	20th Century Literature	
ENL352	Contemporary Literature	
ENL354	Literature on Location: Major British Authors	
ENW205A	Essay Writing <sup>2</sup>	4
or ENW303AZ	Travel Writing	
Select one 3-4 credit ENW course		3-4
COM110N	Basic Communication <sup>2</sup>	3
COM213	Media Communication	3
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>2</sup>	3

EDU406	Methods in Teaching Middle Level English	3
EDU407	Middle Level Education Practicum in English	1
EDU408		4
EDU490	Student Teaching Block	15
General Education <sup>1</sup>		51-52
<b>Total Credits</b>		<b>130-132</b>

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 122 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement

Additional Requirements: Students must complete at least one extracurricular activity such as forensics, debate, drama, journalism, a literary journal, or other experience as determined in consultation with the advisor.

Students must earn a grade of C or better in each content area and education course (ENL, ENW, COM, EDU) in the major. Courses with grades of C- or lower must be repeated.

Students with K-12 licensure in Communication Arts and Literature Education may choose one or more Middle Level Endorsement. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.A. in English Literature

ENL102	Survey of British Literature I	4
ENL202	Survey of British Literature II	4
ENL204	American Literary Traditions	4
ENL498	Research Seminar in English	1
ENL499		3
ENL303 or ENL321	Shakespeare: The Art of the Dramatist Drama in Great Britain	4
Select one of the following:		4
ENL301	Chaucer and Writers of Arthurian Quests	
ENL304	Milton and the Seventeenth Century	
ENL309	Enlightenment and Romantic British Literature	
ENL311 or ENL313	Studies in American Literature: The Civil War Studies in American Literature: The Harlem Renaissance	4
Select one of the following:		4
ENL350	20th Century Literature	
ENL352	Contemporary Literature	
ENL354	Literature on Location: Major British Authors	
ENL215U or ENL365	World Literature <sup>1,2</sup> Topics in Literary Studies	3-4
General Education		51-52
Electives		36-38
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> This requirement can be fulfilled by LAT102S, SPA300, SPA305, SPA312, SPA313 or SPA318.

## B.A. in English Literature and Writing

ENL102	Survey of British Literature I	4
ENL202	Survey of British Literature II	4
ENL204	American Literary Traditions	4
ENW100A	Introduction to Creative Writing <sup>1</sup>	3
ENW205A or ENW303AZ	Essay Writing <sup>1</sup> Travel Writing	3-4

ENL498 & ENL499 or ENW481	Research Seminar in English and Internship in Writing	4
Select two of the following:		8
ENL301	Chaucer and Writers of Arthurian Quests	
ENL303 or ENL321	Shakespeare: The Art of the Dramatist Drama in Great Britain	
ENL304	Milton and the Seventeenth Century	
ENL309	Enlightenment and Romantic British Literature	
Select two from the following:		8
ENL311	Studies in American Literature: The Civil War	
ENL313	Studies in American Literature: The Harlem Renaissance	
ENL350	20th Century Literature	
ENL352	Contemporary Literature	
ENL354	Literature on Location: Major British Authors	
ENL365	Topics in Literary Studies	
Electives from writing (ENW) courses (7 credits must be at the 300 level or above)		11
General Education		51-52
Electives		22-23
<b>Total Credits</b>		<b>122-125</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Journalism

ENW115	Reporting I	3
ENW120		3
ENW211		3
ENW213		2
ENW214	Principles of Editing	2
ENW319		3
ENW481	Internship in Writing	4
ENW499	Senior Seminar in Journalism	3
ENL498	Research Seminar in English	1
COM170A	Media Production I <sup>1</sup>	4
COM302	Media Law	3
One literature course (300 level or above) <sup>2</sup>		3-4
Select one of the following:		4
ENL102	Survey of British Literature I	
ENL202	Survey of British Literature II	
ENL204	American Literary Traditions	
ENW342 or ENW360	Journalism for Social Change Topics in Journalism	3
Select one of the following:		3-4
ENL341K	Environmental Writing <sup>1</sup>	
ENW303AZ	Travel Writing <sup>1</sup>	
ENW330GZ	Media and Communication in Developing Countries <sup>1</sup>	
COM352	Broadcast Journalism	
General Education		51-52
Electives		27-30
<b>Total Credits</b>		<b>122-128</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> This requirement can be fulfilled with SPA305, SPA312, SPA313, or SPA318.

## Minor in Creative Writing

ENW100A	Introduction to Creative Writing <sup>1</sup>	3
Select one of the following:		4
COM305A	Screenwriting <sup>1</sup>	
ENW312A	Fiction Writing <sup>1</sup>	
ENW317A	Poetry Writing <sup>1</sup>	
Select one of the following:		3-4
ENL/ENS 341K	Environmental Writing <sup>1</sup>	
ENW303AZ	Travel Writing <sup>1</sup>	
ENW310	Creative Nonfiction	
ENW300A	Writers Workshop <sup>1</sup>	3-4
or ENW481	Internship in Writing	
Two electives from courses listed above		6-8
<b>Total Credits</b>		<b>19-23</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in English Literature

ENL204	American Literary Traditions	4
ENL102	Survey of British Literature I	4
or ENL202	Survey of British Literature II	
Electives from literature (ENL) courses at the 200 level or above <sup>1</sup>		10
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Can include up to 4 credits from LAT102S, SPA300, SPA305, SPA312, SPA313, or SPA318 to fulfill this requirement.

## Minor in Journalism

COM170A	Media Production I <sup>1</sup>	4
ENW115	Reporting I	3
ENW120		3
ENW211		3
ENW213		2
ENW214	Principles of Editing	2
ENW319		3
or ENW342	Journalism for Social Change	
<b>Total Credits</b>		<b>20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Environmental Studies

The mission of environmental studies at Bethel is to guide students in the pursuit of truth about the workings of creation and the human place in it, and to enable them to practice environmental stewardship in lifestyle and profession. Caring for the whole of creation is an immense privilege and responsibility, and we prepare students for this task through a curriculum that integrates knowledge and perspective from a variety of established disciplines (e.g., biology, chemistry, geology, history, political science). Environmental studies combines classroom and laboratory instruction with a variety of field experiences. Students cap their education in environmental studies by designing and conducting a specific research project under the direction of a faculty mentor. Those who complete the program successfully will be prepared for a variety of types of employment (e.g., natural resource conservation, outdoor education, environmental advocacy) or for graduate school. The number of such opportunities is continually increasing as is the need for educated, committed environmental stewards.

## Majors in Environmental Studies

- B.S. in Environmental Science (p. 128)
- B.A. in Environmental Studies (p. 127)

### **ENS104 • Environment and Humanity.** 3 Credits.

Introduction to environmental studies. Interrelationships and interactions of humans with the natural environment in which they live. Causes of and potential solutions to environmental problems like overpopulation; pollution of water, air, and soil; extinction of wildlife; and degradation of natural and human ecosystems are examined, using the science of ecology as a knowledge base.

*Corequisites: Concurrent registration in ENS104D is required. Offered: Fall, spring.*

### **ENS104D • Environment Humanity Lab.** 1 Credits.

Laboratory experience accompanying ENS104. Includes some outdoor and off-campus investigations.

*Corequisites: Concurrent registration in ENS104 is required. Offered: Fall, spring.*

### **ENS201 • Introduction to Geographic Information Systems.** 3 Credits.

An introduction to the science, hardware, and software of mapping geographic locations and analyzing information about those locations. Investigation of remote sensing, GPS data collection, GIS data types, editing GIS data, and spatial data analysis and display, with emphasis on applications to creation stewardship problems.

*Offered: Fall, odd # years. Special Notes: Carries cross-credit in geography.*

### **ENS205L • Sustainable Living.** 3 Credits.

A multidisciplinary approach to the challenges of living a sustainable life in a complex world. Considers how ecological, ethical, and cultural understandings inform our responsibility for personal and global decisions.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Spring.*

### **ENS305K • Transforming Technology: Environmental Perspectives.** 3 Credits.

An examination of the pervasive influence of technology in shaping our views, values, society, and environment. Develops ability to critically analyze technology and the social and environmental influences and impacts of technology. Basic concepts of environmental science serve as a focal point, leading to an understanding of the value-laden nature of technology in our modern society and how such technologies and technological artifacts have changed our environments, our social structures, and our values.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Spring, even # years.*

### **ENS310K • Human Impacts on Coral Reefs.** 4 Credits.

Travels to the Philippines and Hawaii to study exotic coral reefs and associated environmental issues. Coral reefs worldwide are currently subject to severe anthropogenic stress. Allows students to get in the water to see reefs firsthand, to explore the science and human technology relating to coral reefs, and to meet individuals who are working to address environmental problems.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in biology and general studies.*

### **ENS316 • Wildlife Ecology and Management.** 3 Credits.

Analysis of terrestrial vertebrate populations, communities, and habitats. Exploration of how these analyses are applied to the manipulation, exploitation, protection, and restoration of animal populations and communities.

*Prerequisites: Two of BIO122/122D, BIO126/127, ENS104/104D; junior or senior standing. Corequisites: Concurrent registration in ENS317 is required. Offered: Spring, even # years. Special Notes: Carries cross-credit in biology.*

### **ENS317 • Wildlife Ecology and Management Lab.** 1 Credits.

Laboratory experience accompanying ENS316. Sessions emphasize field investigation of animal populations and habitats with ecological and management techniques.

*Corequisites: Concurrent registration in ENS316 is required. Offered: Spring, even # years. Special Notes: Carries cross-credit in biology.*

### **ENS318KZ • Ecuador and the Galapagos Islands: Natural History and Future Progress.** 4 Credits.

Travel from base in Quito throughout Ecuador and the Galápagos Islands, surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human culture, presence, and activities. Sites include the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galápagos Islands.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in biology and general studies.*

### **ENS330K • Science, Values, and the Making of Environmental Policy.** 3 Credits.

What role do citizens and experts play in the public policy process? Do people approach scientific evidence with competing value perspectives? These questions are examined in order to understand the interplay between key people, institutions, values, and power that is present in a series of environmental policy case studies.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Fall. Special Notes: Carries cross-credit in political science.*

### **ENS335K • Environmental Ethics.** 3 Credits.

An examination of the intersection of science, society, and technology as it pertains to issues in environmental ethics. The course moves from theory by considering science, society, and technology philosophically, to application by concluding with a major research project on an applied issue in environmental ethics involving scientific data and technological choice.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in philosophy.*



**ENS341K • Environmental Writing.** 3 Credits.

As the environmental crisis has deepened, American nature writing has evolved into a richly creative endeavor that explores the complex interactions of nature, technology, and society. Students study environmental writing as a means for valuing biodiversity and for envisioning changes in global policies, applications of technology, and environmental ethics.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Fall or spring. Special Notes: Carries cross-credit in English.*

**ENS399 • Introduction to Research.** 1 Credits.

An introduction to research methodology in environmental studies and environmental science. Experience in the use of environmental literature and an examination of how to distinguish and evaluate different types of scientific writing and presentations. Development of a proposal for a research project to be completed in ENS496 and formally presented in ENS499.

*Prerequisites: Major in environmental studies or environmental science; junior standing. Offered: Fall. Special Notes: Carries cross-credit in biology.*

**ENS481 • Internship in Environmental Studies.** 1-4 Credits.

Off-campus field experience working with an environmental organization, business, or governmental agency.

*Prerequisites: Major in environmental studies or environmental science. Offered: Fall, spring, summer.*

**ENS496 • Research in Environmental Studies.** 1 Credits.

An opportunity to become involved in an independent research project of the student's own choosing in some area of environmental studies. Experience in the collection, manipulation, analysis, and portrayal of information and development of skills needed to be effective in environmental research.

*Prerequisites: ENS399. Offered: Fall, spring.*

**ENS498 • Seminar in Environmental Studies.** 1 Credits.

A senior capstone course for environmental studies and environmental science majors centered on a multidisciplinary discussion of current environmental issues in society.

*Prerequisites: ENS496. Offered: Spring.*

**ENS499 • Symposium.** 0 Credits.

Completion of a scientific paper and oral presentation based upon research conducted in ENS496.

*Prerequisites: ENS496. Offered: Fall, spring.*

## Au Sable Institute of Environmental Studies

Several courses in the environmental area are available during the summer term through the Au Sable Institute of Environmental Studies. Courses offered on a regular basis include: Field Botany, Natural Resources Practicum, Animal Ecology, and Water Resources. See the Au Sable advisor in the Department of Biology for additional course offerings and further details.

## Creation Care Study Program

Fall or spring off-campus study is available for students who want to take on the challenge of learning how to care for God's earth and all its creatures.

Courses offered include Tropical Ecosystems, God and Nature, and Sustainable Community Development. See the environmental studies program director for additional information.

## B.A. in Environmental Studies

Select one of the following sequences:

BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4
BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab	4
BIO330 & BIO331	Ecology and Ecology Lab	4
ENS104 & 104D	Environment and Humanity and Environment Humanity Lab <sup>1</sup>	4
ENS205L	Sustainable Living <sup>1</sup>	3
ENS399	Introduction to Research	1
ENS481	Internship in Environmental Studies	3
ENS496	Research in Environmental Studies	1
ENS498	Seminar in Environmental Studies	1
ENS499	Symposium	0
Select 15 credits from the following:		15
ENS305K	Transforming Technology: Environmental Perspectives <sup>1</sup>	
ENS330K	Science, Values, and the Making of Environmental Policy <sup>1</sup>	

ENS335K	Environmental Ethics <sup>1</sup>	
ENS341K	Environmental Writing <sup>1</sup>	
GES307K	Natural Resources: Use Them but Don't Lose Them <sup>1</sup>	
GES318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>1</sup>	
GES326K	Economic Botany <sup>1</sup>	
HIS/GEO 320K	History and the Human Environment <sup>1</sup>	
Six additional 3- or 4-credit courses from one or two departments. At least three courses must be 300 level or above		18-23
General Education		51-52
Electives		17-24
<b>Total Credits</b>		<b>122-135</b>

<sup>1</sup> A student may also choose this course to meet a General Education requirement.

With permission of the program director, appropriate courses taken in off-campus programs may substitute for those listed above.

Students are strongly urged to meet the "M" General Education requirement by taking PSY230M.

## B.S. in Environmental Science

Select one of the following sequences:		4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	
BIO126 & BIO127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab	
BIO330 & BIO331	Ecology and Ecology Lab	4
ENS104 & 104D	Environment and Humanity and Environment Humanity Lab <sup>1</sup>	4
ENS/GEO 201	Introduction to Geographic Information Systems	3
ENS205L	Sustainable Living <sup>1</sup>	3
ENS399	Introduction to Research	1
ENS481	Internship in Environmental Studies	3
ENS496	Research in Environmental Studies	1
ENS498	Seminar in Environmental Studies	1
ENS499	Symposium	0
GEL168 & 168D	Geology and Geology Lab <sup>1</sup>	4
Select 12 credits from the following:		12
ENS305K	Transforming Technology: Environmental Perspectives <sup>1</sup>	
ENS330K	Science, Values, and the Making of Environmental Policy <sup>1</sup>	
ENS335K	Environmental Ethics <sup>1</sup>	
ENS341K	Environmental Writing <sup>1</sup>	
GES307K	Natural Resources: Use Them but Don't Lose Them <sup>1</sup>	
GES318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>1</sup>	
GES326K	Economic Botany <sup>1</sup>	
HIS/GEO 320K	History and the Human Environment	
Select one of the following sequences:		4-8
CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
Select 12 credits from the following:		12
BIO328 & BIO329	Invertebrate Biology and Invertebrate Biology Lab	

BIO342 & BIO343	Aquatic Biology and Aquatic Biology Lab	
BIO372 & BIO373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO380 & BIO383	Environmental Plant Biology and Environmental Plant Biology Lab	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	
CHE312 & CHE313	Analytical Chemistry I and Analytical Chemistry I Lab	
CHE320 & CHE321	Analytical Chemistry II and Analytical Chemistry II Lab	
ENS316 & ENS317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
ENS318KZ	Ecuador and the Galapagos Islands: Natural History and Future Progress <sup>1</sup>	
General Education		56-60
Electives		10-15
<b>Total Credits</b>		<b>122-135</b>

<sup>1</sup> A student may also choose this course to meet a General Education requirement.

With permission of the program director, appropriate courses taken in off-campus programs may substitute for those listed above.

Students are strongly urged to meet the "M" General Education requirement by taking PSY230M.

## Film Studies

The film studies minor provides an interdisciplinary program of study that seeks to understand film as an art form, as a medium of communication, and as a cultural force for shaping attitudes, values, and views of the world.

### Minor in Film Studies

- Film Studies (p. 129)

#### FLM200 • Introduction to Film. 3 Credits.

How do films construct meaning and in what contexts are they created and interpreted? Consideration of film as both an art form and a cultural product, and focus on film language, history, culture, and criticism.

*Offered: Spring.*

#### FLM300 • Film Theory and Interpretation. 4 Credits.

Study of narrative film as a significant art form, including its origins, development, movements, and genres. Both classic and contemporary films will be examined from a wide variety of theoretical perspectives and specific interpretations. Emphasizes the development of analytical skills, writing proficiency, and aesthetic appreciation.

*Prerequisites: FLM200; junior standing or consent of instructor. Offered: Spring, even # years.*

#### FLM305 • Films of Great Directors. 3 Credits.

Study of representative films by selected directors, emphasizing the director's distinctive themes and cinematic styles. Considers the role of historical and cultural factors in shaping a director's artistic vision. Representative filmmakers may include Bergman, Ford, Hitchcock, Kieslowski, Kurosawa, Scorsese, and Truffaut.

*Prerequisites: FLM200 or consent of instructor. Offered: Interim.*

#### FLM481 • Internship in Film. 3-4 Credits.

Placement in an off-campus position in the film industry or allied fields. Student is responsible for finding and securing the position with an appropriate individual or organization. Plan must be approved in advance of placement by the film studies advisor.

*Prerequisites: Completion of six credit hours toward the film studies minor. Offered: By arrangement.*

### Minor in Film Studies

FLM200	Introduction to Film	3
FLM300	Film Theory and Interpretation	4
Select one of the following Film Analysis and Interpretation Courses:		3-4

COM213	Media Communication	
ENL/PHI 235L	Film and the Modern Sensibility <sup>1</sup>	
ENL241L	Modern Mythmakers <sup>1</sup>	
FLM305	Films of Great Directors	
PHI302	Philosophy and Film	
PHI310	Aesthetics	
LAFSC	Theology in Hollywood <sup>2</sup>	
Select one of the following from Film Production courses:		3-4
COM305A	Screenwriting <sup>1</sup>	
COM373	Digital Filmmaking	
FLM481	Internship in Film	
THA405	Directing	
LAFSC	Hollywood Production Workshop <sup>2</sup>	
LAFSC	Internship: Inside Hollywood <sup>2</sup>	
LAFSC	Motion Picture Production <sup>2</sup>	
LAFSC	Professional Screenwriting <sup>2</sup>	
Select two electives from Film Analysis, Interpretation, or Film Production courses		6-8
<b>Total Credits</b>		<b>19-23</b>

<sup>1</sup> A student may also choose this course to meet a General Education requirement.

<sup>2</sup> Los Angeles Film Studies Center

Please carefully consult with your advisor and the film studies advisor.

## Foreign Languages

### Modern Language Courses

- American Sign Language
- Chinese (Mandarin)
- French
- Spanish (See Department of Modern World Languages (p. 166).)

### Ancient and Classical Language Courses

- Biblical Greek
- Biblical Hebrew (See Department of Biblical and Theological Studies (p. 54), Biblical Classical Language courses.)
- Latin (See Department of Biblical and Theological Studies (p. 54), Biblical Classical Language courses; also see Classics minor (p. 90).)

### Modern Language Courses

#### ASL101 • Introductory American Sign Language I. 4 Credits.

Designed for students who have no knowledge of American Sign Language (ASL) to allow them to function comfortably in a variety of communication situations. Focuses on development of visual readiness skills and expressive and receptive skills in basic ASL. Includes introduction to conversational vocabulary, fingerspelling, grammatical principles, and syntax. Information related to deaf culture is included.

*Offered: Fall, spring.*

#### ASL102S • Introductory American Sign Language II. 4 Credits.

Continuation of functional and practical understanding and communicative use of ASL. Further study of the history and culture of the deaf community through films, discussions, and readings.

*Prerequisites: ASL101 or placement exam. Offered: Fall, spring.*

#### CHI101 • Introductory Chinese I. 4 Credits.

Development of listening, speaking, reading, and writing skills with an emphasis on promoting communicative competency in Chinese. Opportunities for meaningful communications in Mandarin Chinese.

*Offered: Fall.*

#### CHI102S • Introductory Chinese II. 4 Credits.

Continuation of functional and practical understanding and communicative use of the Chinese language. Further study of Chinese history and culture through films, discussions, and readings.

*Prerequisites: CHI101 or placement exam. Offered: Spring.*

**CHI201 • Intermediate Chinese I.** 4 Credits.

Synthesis and expansion of comprehensive knowledge, grammar, and oral and written communication skills useful in daily interactions. Further development of understanding Chinese culture and societies, and preparation for possible study abroad experience.

*Prerequisites:* CHI102S or placement exam. *Offered:* Occasionally.

**FRE101 • Introductory French I.** 4 Credits.

Listening, speaking, reading, and writing. Opportunities for oral practice encourage actual communication in French. Use of internet resources familiarizes students with the French-speaking cultures of the world.

*Prerequisites:* No more than one year of high school French or placement exam. *Offered:* Fall.

**FRE102S • Introductory French II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of the French language. Further study of French history and culture through films, discussions, and readings.

*Prerequisites:* FRE101 or placement exam. *Offered:* Spring.

**SPA101 • Introductory Spanish I.** 4 Credits.

Listening, speaking, reading, and writing. Opportunities for oral and written practice encourage actual communication in Spanish.

*Prerequisites:* No more than one year of high school Spanish or placement exam. *Offered:* Fall, spring.

**SPA102S • Introductory Spanish II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of the Spanish language. Further study of Spanish history and culture through films, discussions, and readings.

*Prerequisites:* SPA101 or placement exam. *Offered:* Fall, spring.

**SPA120A • Photography in Spain.** 3 Credits.

Technical and conceptual acquaintance with the medium of photography and its vocabulary within the realm of high art. Includes camera operation, black and white film developing, black and white print processing, and print finishing.

*Offered:* Fall. *Special Notes:* Course taught in Spanish. Carries cross-credit in art.

**SPA201 • Intermediate Spanish I.** 3 Credits.

Synthesis and expansion of language study in order to further develop communicative language ability. Study of the rich cultural diversity in the Spanish-speaking world.

*Prerequisites:* SPA102S or placement exam. *Offered:* Fall, spring. *Special Notes:* Students may not receive credit for both SPA201 and SPA203.

**SPA202UZ • Intermediate Spanish II.** 4 Credits.

A further development of communicative language ability through the study of the rich cultural diversity in the Spanish-speaking world. Topics include religious practices, Hispanics in the United States, and violations of human rights. Service-learning experience required.

*Prerequisites:* SPA201 or placement exam; GES130 (may be taken concurrently) or GES244 (may be taken concurrently). *Offered:* Fall, spring. *Special Notes:* Students may not receive credit for both SPA202UZ and SPA204.

**SPA203 • Intensive Intermediate Spanish I in Guatemala.** 4 Credits.

Synthesis and expansion of language study in order to further develop communicative language ability. Study of the rich cultural diversity in the Spanish-speaking world, including topics such as family structures, racial diversity, and perspectives on death and the afterlife. Intensive one-on-one interaction with Guatemalan instructor.

*Prerequisites:* SPA102S or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA203 and SPA201.

**SPA204 • Intensive Intermediate Spanish II in Guatemala.** 4 Credits.

A further development of communicative language ability through the study of the rich cultural diversity in the Spanish-speaking world. Topics include religious practices, Hispanics in the United States, and violations of human rights. Intensive one-on-one interaction with Guatemalan instructor.

*Prerequisites:* SPA201, SPA203, or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA204 and SPA202UZ.

**SPA208 • Spanish for Health Professionals.** 3 Credits.

Designed for those studying or preparing for healthcare professions. Emphasis on building culturally and linguistically competent communication skills with Spanish-speaking immigrants in healthcare settings.

*Prerequisites:* SPA201, SPA203, or placement exam. *Offered:* Occasionally.

**SPA228 • Intensive Language Study in the Spanish-Speaking World.** 3 Credits.

Study of the Spanish language and Hispanic culture taught in a Spanish-speaking country through an approved language school. Homestay required.

*Prerequisites:* Two semesters of intermediate Spanish at the college level or placement exam; consent of Department of Modern World Languages. *Grade exceptions:* S/U grading basis only. *Offered:* Interim, by arrangement. *Special Notes:* Program must be approved by the Department of Modern World Languages in advance. Enrollment is limited.

**SPA290 • Ibero-American History.** 3 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites:* SPA202UZ, SPA204, SPA208, or placement exam. *Offered:* Fall, spring.

**SPA291 • Ibero-American History in Guatemala.** 4 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites:* SPA202UZ, SPA204, SPA208, or placement exam. *Offered:* Spring.

**SPA292 • Ibero-American History in Spain.** 4 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites:* SPA202UZ or SPA208. *Offered:* Fall.

**SPA300 • Introduction to Hispanic Literature.** 4 Credits.

Readings in novels, essays, short stories, poetry, newspapers, and magazines from Latin America and Spain.

*Prerequisites:* SPA202UZ, SPA208, or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA300 and SPA305.

**SPA301U • Hispanic Cultures.** 4 Credits.

Study of the history, traditions, cultural practices, values, and social structures of Latin America and Spain. Service-learning experience may be required.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently); SPA290, SPA291, or SPA292. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA301U and SPA302U.

**SPA302U • Hispanic Cultures: Guatemalan Perspectives.** 4 Credits.

Study of the history, traditions, cultural practices, values, and social structures of Latin America and Spain. Intensive one-on-one interaction with on-site instructor and interviews with Guatemalans enhance understanding of cultural issues from a Guatemalan perspective.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently); SPA290 or SPA291, or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA302U and SPA301U.

**SPA303U • Historic Spain and its Cultures.** 4 Credits.

Study of the multi-cultural richness of Spain in its unique history, society, politics, art, film, and music. Students participate in a series of field trips to places of cultural and historical interest in Segovia and to museums in Madrid.

*Prerequisites:* SPA290, SPA292 (may be taken concurrently), or consent of instructor. *Offered:* Fall.

**SPA305 • Readings from Latin America and Spain.** 3 Credits.

Readings in novels, essays, short stories, and poetry from Latin America and Spain.

*Prerequisites:* SPA290, SPA291, or SPA292. *Offered:* Fall. *Special Notes:* Students may not receive credit for both SPA305 and SPA300.

**SPA308 • Current Issues in Guatemala.** 4 Credits.

Students participating in the Guatemala Term use multiple media sources available to them only in the country and interact with Guatemalan people to learn about political, economic, and social issues. Study of a literary text dealing with political issues in Guatemala is included.

*Prerequisites:* SPA300 (may be taken concurrently) or SPA305. *Offered:* Spring.

**SPA312 • Contemporary Literature.** 4 Credits.

Prose and poetry from selected contemporary Latin American and Spanish authors.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, even # years.

**SPA313 • Classical Literature.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, odd # years.

**SPA316 • Modern Spain: An Examination of Ethics - Spain.** 4 Credits.

An examination of moral and ethical questions during the Spanish Civil War, the Franco regime, and post-Franco Spain. Topics include national unity, justice, political assassination, the responsibility of individuals in society, Basque nationalism, the role of the United States, immigration, and the role of the Catholic Church.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall.

**SPA317 • Advanced Communication in Spain.** 4 Credits.

An examination of moral and ethical questions during the Spanish Civil War, the Franco regime, and post-Franco Spain. Topics include national unity, justice, political assassination, the responsibility of individuals in society, Basque nationalism, the role of the United States, immigration, and the role of the Catholic Church.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall.

**SPA318 • Classical Literature in Spain.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall. *Special Notes:* Students may not receive credit for both SPA318 and SPA313.

**SPA322 • Advanced Spanish Communication.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, odd # years.

**SPA323 • Advanced Spanish Communication in Guatemala.** 4 Credits.

Further development of communicative abilities in Spanish including reading, creative and academic writing, formal and informal discussions and debate, and formal presentation skills.

*Prerequisites:* SPA301U, SPA302U, or SPA303U. *Offered:* Spring.

**SPA327 • Marketing and Management in Spain.** 3 Credits.

Theoretical and practical concepts of marketing and management in the semi-globalized world. Understand the significant challenges globalization presents to management and marketing, specifically in the context of Spain. Business terminology and reality in a Spanish business environment.

*Prerequisites:* SPA202UZ. (*Carries cross-credit in business.*) *Offered:* Fall. *Special Notes:* The class is taught and assignments are completed in Spanish.

**SPA481 • Internship in Spanish.** 3-4 Credits.

Cross-cultural experience to apply and expand Spanish communication knowledge and skills in an off-campus setting. Placements must be at an organization or business within the Latino community or in the Spanish-speaking world. Must be planned in advance of placement in consultation with the Department of Modern World Languages.

*Prerequisites:* Spanish major or minor, or enrollment in Spain or Guatemala Term. *Offered:* Fall, interim, spring, summer.

**SPA499 • Senior Seminar.** 4 Credits.

An in-depth study and presentation of a topic related to Hispanic cultures, literatures, or the Spanish language. Service-learning experience may be required.

*Prerequisites:* Major in Spanish; senior standing. *Offered:* Fall.

## Ancient and Classical Language Courses

**GRK101 • Introductory Biblical Greek I.** 4 Credits.

Study of New Testament Greek for beginning students. Use of the New Testament to build a basic vocabulary and understand the elements of grammar and syntax.

*Offered:* Fall.

**GRK102S • Introductory Biblical Greek II.** 4 Credits.

Continuation of the study of New Testament Greek for beginning students. Use of the New Testament to build a basic vocabulary and understand the elements of grammar and syntax.

*Prerequisites:* GRK101. *Offered:* Spring.

**GRK253 • Readings in New Testament Greek.** 3 Credits.

Readings in the Greek New Testament designed to develop the student's basic knowledge of Greek grammar and enlarge his or her vocabulary.

*Prerequisites:* GRK102S. *Offered:* Fall.

**GRK371 • Advanced Greek Translation.** 3 Credits.

Translation and analysis of Greek passages, both biblical and classical, of moderate to considerable difficulty. Specific subject matter varies each term.

*Prerequisites:* GRK253. *Offered:* Spring.

**GRK498 • Seminar: Greek Exegesis.** 4 Credits.

Study of a selected book or representative passages in the Greek New Testament to increase the student's exegetical skills. A major exegetical project is followed by an oral and written presentation of the results.

*Prerequisites:* GRK253; *Interpreting Biblical Themes (J) course;* BIB321 or consent of instructor. *Offered:* Spring.

**HEB101 • Introductory Biblical Hebrew I.** 4 Credits.

Study of the Hebrew of the Old Testament. Designed for the beginning student. The Old Testament is used to build a basic vocabulary and to understand the language's phonology, morphology, basic syntax, and semantics.

*Offered:* Fall.

**HEB102S • Introductory Biblical Hebrew II.** 4 Credits.

Further study of the Hebrew of the Old Testament. Designed for the beginning student. The Old Testament is used to build a basic vocabulary and to understand the language's phonology, morphology, basic syntax, and semantics.

*Prerequisites:* HEB101 *Offered:* Spring.

**LAT101 • Introductory Latin I.** 4 Credits.

Introduction to the spoken and written language and culture of ancient Rome.

*Offered:* Fall, odd # years.

**LAT102S • Introductory Latin II.** 4 Credits.

Further study and use of the spoken and written language and culture of ancient Rome.

*Prerequisites:* LAT101 or placement exam. *Offered:* Spring, even # years.



## Gender Studies

The gender studies minor provides students with an opportunity to develop a reflective and interdisciplinary understanding of how our notions of gender, gender roles, and gender identities have been, and continue to be, shaped by the intellectual, historical, and sociocultural contexts in which they emerge.

### Minor in Gender Studies

- Gender Studies (p. 134)

### Minor in Gender Studies

HIS302	History of Sexuality in the United States	4
PHI223L	Introduction to Gender Studies <sup>1</sup>	3
Select 9-10 credits from the following:		9-10
BIB312J	Female and Male in Biblical Perspective <sup>1</sup>	
BIB317J	Family in Biblical Perspective <sup>1</sup>	
COM314G	Gender Communication <sup>1</sup>	
GES208	Human Sexuality	
GES402P	Perspectives on Christian Marriage <sup>1</sup>	
GES405P	Ethical Relationships: Choosing the Good in Family and Community Life <sup>1</sup>	
GES407P	Women's Lives, Women's Choices <sup>1</sup>	
GES410P	Family Life Cycle <sup>1</sup>	
GES413P	Women's Spiritual Experience <sup>1</sup>	
GES451P	Spirituality, Sexuality, and the Family <sup>1</sup>	
GES454P	Philosophies of Love and Sex <sup>1</sup>	
GES455P	Covenant Relationships: Marriage, Friendship, and Beyond <sup>1</sup>	
HIS245L	History of Women in America <sup>1</sup>	
PHI220L	Philosophies of Race and Gender in America <sup>1</sup>	
Gender-tagged course <sup>2</sup>		3-4
<b>Total Credits</b>		<b>19-21</b>

<sup>1</sup> A student may also choose this course to meet a General Education requirement.

<sup>2</sup> Students will choose to do a significant research or service-learning project related to the topic of gender studies in a 200-level course or above in the student's major field of study. Students will apply to complete the project at the beginning of the semester, subject to approval by the Gender Studies program co-coordinators. Students may not tag a course listed in the minor's elective categories.

## General Studies

General Education at Bethel University requires students to take several specific courses along with their choice of courses from various categories. Most of the courses listed below fulfill one of these course or category requirements; however, this is not an exhaustive list. The letter appended to a course number indicates the General Education category to which it belongs. See "The General Education Program" and "Pillars of the General Education Curriculum" in the Academic Information section of this catalog for a further description of the purpose and requirements of the General Education program at Bethel University.

#### GES101 • Pre-Intercultural Engagement Preparation. 0.5 Credits.

Provides preparation for students who wish to participate in a non-credit experience for fulfillment of the cross-cultural experience (Z) requirement. Faculty guided pre-processing includes introduction to a method of reflection and analysis of the intercultural experience, assistance in creating a proposal for the Z-tag experience, and an opportunity to develop mid-experience exercises and activities to present in GES102Z. Completion of the GES101 does not complete the Z-tag requirement, but is a pre-requisite for GES102Z. GES101 must be taken before participating in the cross-cultural experience. Graded on an S/U basis.

#### GES102Z • Post-Intercultural Engagement Processing. 0.5 Credits.

Provides the guided post-processing experience necessary for students to benefit fully from a cross-cultural experience. Designed to follow an independent cross-cultural experience to complete the cross-cultural experience (Z) requirements. Includes evaluation of the application of the method of reflection and analysis used during the intercultural experience, evaluation of the implementation of the non-credit proposal approved in GES101, and evaluation of the mid-experience exercises and activities. Prerequisite: GES101. Must be taken the semester following the completion of the independent cross-cultural experience. Graded on an S/U basis.

**GES103 • Writing Studio for Multilingual Learners.** 1 Credits.

Focuses on knowledge and skills necessary for successful college-level academic research and writing in the U.S. Students will apply reading and writing strategies to other course writing assignments. Instruction tailored to English Language Learners (international or immigrant students from non-English speaking backgrounds). Graded on an S/U basis.

**GES106 • Introduction to Liberal Arts.** 1 Credits.

Introduces students to a liberal arts education at Bethel as a foundation for scholarship, leadership, and service in a changing world. Orients students to campus resources related to academics and encourages the development of personal, academic, and relationship skills needed to be a successful college student.

**GES108 • Introduction to Life at Bethel.** 1 Credits.

Introduces transfer students to a liberal arts education at Bethel as a foundation for scholarship, leadership, and service in a changing world. Together students explore common issues of transition, personal strengths, and community. Students are oriented to resources (i.e., Bethel Library, essential technology, academic tutoring, etc.) to support and enhance the educational experience at Bethel.

**GES109 • Orientation to College Studies.** 2 Credits.

Students understand and improve their approach to learning to enhance success in college. Strategies developed in this course are directly applied to learning in the Christianity and Western Culture course as well as other courses taken during fall term.

*Corequisites: Consent of instructor, enrollment in Christianity and Western Culture (GES130). Offered: Fall. Special Notes: Taught concurrently with Introduction to the Liberal Arts (GES106).*

**GES110 • College Writing.** 3 Credits.

Focuses on the knowledge and skills necessary for successful college-level academic research and writing. Emphasizes writing as a process that includes planning/prewriting, drafting, revision, and editing, and affords multiple experiences of the process. Topics include thesis formulation, development, and support; conventions of writing (grammar, usage, and mechanics); ownership of information and creative work (issues of plagiarism, copyright, and ethical management of information); and information literacy competencies. Students are required to perform in-depth research that involves gathering, reading, and evaluating information, and to write a formal research paper that synthesizes information from a variety of properly documented sources.

*Offered: Fall, spring.*

**GES125 • Introduction to the Creative Arts.** 4 Credits.

Introduces the creative arts and highlights their crucial role in human experience. Art forms included each semester are chosen from music, visual arts, theatre, dance, literature, or film, and highlight their crucial role in human experience. Creative works spanning stylistic, social, and historical contexts are examined in light of such issues as relationships, religion, death/ despair, and humor. Students experience and critically interact with creative works and reflect on them from a Christian worldview, with the goal of developing literacy in artistic language as a tool for exploration and aesthetic interpretation and evaluation.

*Offered: Fall, interim, spring.*

**GES130 • Christianity & Western Culture.** 4 Credits.

Seeks to help students understand the key movements that have influenced the lives of people in Europe and North America up through the Enlightenment. Students explore with insight and empathy the writings and lives of those who have influenced the course of world societies. Prepares students to appreciate and evaluate the diverse ways in which Christians have interacted with Western culture by shaping, absorbing, and criticizing the culture of the West. The Humanities Program .

*Offered: Fall, interim, spring.*

**GES145 • Humanities I: Greco-Roman through Middle Ages.** 4 Credits.

The first course in the Humanities Program focuses on great writings and works of art, music, and theatre from the Greeks through the Middle Ages. Likely figures for study include Plato, Aristotle, Augustine, Anselm, and Dante.

*Offered: Fall.*

**GES147 • Humanities II: Renaissance and Reformation.** 4 Credits.

The second course considers significant figures, movements, and texts in the Renaissance and the Reformation era. Likely figures for study include Luther, Calvin, Erasmus, Anabaptist writers, Renaissance and baroque artists, and Shakespeare.

*Prerequisites: GES145. Offered: Interim. Special Notes: Completing GES147 replaces GES125 Introduction to the Creative Arts.*

**GES203 • Writing Studio for Multilingual Learners.** 1 Credits.

Focuses on knowledge and skills necessary for successful college-level academic research and writing in the U.S. Students will apply reading and writing strategies to other course writing assignments. Instruction tailored to English Language Learners (international or immigrant students from non-English speaking backgrounds). Graded on an S/U basis.

**GES208 • Human Sexuality.** 3 Credits.

An examination of sexuality through the life cycle, focusing on the nature of sexual and reproductive functioning, sexual self-understanding, sexual dimensions of interpersonal relationships, and ethical dimensions of sexuality.

*Offered: Spring.*

**GES244 • Humanities III: European Enlightenment and American Culture to 1877.** 4 Credits.

The third course begins in the European Enlightenment and culminates in a research paper on American culture through the Reconstruction era. Likely figures for study include, Edwards, Bach, Beethoven, Austen, Burke, Paine, The Federalist, de Tocqueville, American Transcendentalist writers, Frederick Douglass, and Abraham Lincoln.

*Prerequisites: GES147. Offered: Spring. Special Notes: Completing GES244 replaces GES110 College Writing and GES130 Christianity and Western Culture.*

**GES246 • Humanities IV: Modern and Contemporary Western Culture.** 4 Credits.

The final course in the Humanities Program begins with the 19th century Industrial Revolution and ends near the present. It includes a major paper on theology. Likely subjects for study include Marx, Nietzsche, T.S. Eliot, jazz, modern art, Bonhoeffer, and Martin Luther King Jr.

*Prerequisites: GES244. Offered: Fall. Special Notes: Completing GES246 replaces THE201 Christian Theology and a Contemporary Western Life and Thought (L) course.*

**GES302K • Lethal Microbes.** 3 Credits.

Despite amazing scientific and technical successes in medicine in the last century, diseases like AIDS, tuberculosis, and malaria confront us today with both national and global healthcare crises. Living with the lethal microbes responsible for these diseases requires careful inquiry about these organisms and their wide impact on human society.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**GES303K • Genetics, Ethics and the Law.** 3 Credits.

Study of the ethical and legal dilemmas created by recent advances in biotechnology. Focus on the question of what direction the law should take, specifically in the areas of patent, family, and criminal law. Exploration of the struggle between the Christian worldview, these rapid changes in science, and society's resolution of the questions these changes produce.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**GES305K • HIV/AIDS: Anatomy of a Pandemic.** 3 Credits.

Exploration of the history, biology, and social and global impact of the HIV/AIDS pandemic since discovery of the human immunodeficiency virus in 1983. Evaluation of technological advances that have generated anti-retroviral therapies, technological challenges that have prevented vaccine development, and social factors related to availability of medical treatment.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally interim.*

**GES306K • Nuclear Energy: Past and Present.** 3 Credits.

Basic scientific principles underlying nuclear fission and fusion, along with a survey of the history of nuclear weapons and reactors from 1935 to the present. Topics include weapon construction and design, delivery systems, and nuclear deterrence, along with current arms reduction agreements and waste problems.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**GES307K • Natural Resources: Use Them but Don't Lose Them.** 3 Credits.

A consideration of the use and management of natural resources and their impact on society and vice versa. Primary resources considered include forests, agricultural land, and geologic/ mineral resources. Global Positioning System (GPS) and Geographic Information System (GIS) technologies are spotlighted as key management tools.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Spring.*

**GES308K • Genomic Archaeology and Scientific Revolution.** 3 Credits.

Advances in DNA technology have led to the sequencing of whole genomes, including the human genome, and to a revolution in science. Questions of this course include: "What is this technology?" "How does it work?" and "What does it mean to you and me?" Applications related to diabetes, cancer, forensics, genetic engineering, and the nature of life itself are discussed.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**GES309K • Biology of the Mind.** 3 Credits.

Survey of contemporary technologies and studies of brain structure and function and their relation to cognitive abilities and emotion. Introduction to modern technologies of brain mapping such as MRI, PET, and CAT scans. Combines neuroscience, philosophy of self, psychology, linguistics, and sociobiology.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally interim.*

**GES310K • Human Impacts on Coral Reefs.** 3 Credits.

Travels to the Philippines and Hawaii to study exotic coral reefs and associated environmental issues. Coral reefs worldwide are currently subject to severe anthropogenic stress. Allows students to get in the water to see reefs firsthand, to explore the science and human technology relating to coral reefs, and meet individuals who are working to address environmental problems.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in biology and environmental studies.*

**GES311K • Forensics: The Science of Crime.** 3 Credits.

An introduction to the roles that biology, chemistry, physics, and psychology play in criminal investigations. Discovery, identification, and comparison of physical evidence using various current techniques. Discussion of the processes and limitations of scientific knowledge.

*Prerequisites: Laboratory Science (D) Course; Mathematics (M) course. Offered: Occasionally interim.*

**GES312G • Disability and Society.** 3 Credits.

Exploration of ideologies of disability including medical, moral, rehabilitative, and minority approaches. Identification of the social, economic, religious, and other barriers faced by people with disabilities. International perspectives on disability, as well as the concept of a “disability culture.” Experiential learning components included.

*Prerequisites:* [GES130; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES246; *World Cultures (U) course*]. Offered: *Occasionally interim.*

**GES314K • Biotechnology.** 3 Credits.

Biotechnology, or the production of technology through the manipulation of biological systems, influences many areas of our lives. Applications of biotechnology such as drug production, human cloning, gene therapy, stem cells, reproductive technologies, and their impact on society are examined.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally.*

**GES315K • Brain Research Technology and Gender Differences.** 3 Credits.

A review of gender differences revealed by recent brain mapping and scanning technology. MRI, fMRI, PET, and CAT scans reveal different aspects of brain structure and function. Several other neurologic, hormonal, and genetic technologies will also be reviewed as they relate to physiological and behavioral analysis.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally interim.*

**GES318KZ • Ecuador and the Galapagos Islands: Natural History and Future Progress.** 3 Credits.

Travel from base in Quito throughout Ecuador and the Galápagos Islands, surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human culture, presence, and activities. Sites include the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galápagos Islands.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Interim.* *Special Notes: Carries cross-credit in biology and environmental studies.*

**GES321K • Human Genetics.** 3 Credits.

Review of modern genetic history, principles, and technology as applied to humans. Includes discussion of classical Mendelian genetics, probability calculation, pedigree analysis, heritability analysis, and cytogenetics. Emphasis on more recent technologies of gene sequencing, genomics, gene therapy, genetic engineering, screening, early life (embryo) manipulations, and stem cell and cloning risks and benefits, among other issues surrounding human genetics.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally.*

**GES322K • Cancer: Science and Society.** 3 Credits.

The biology of cancer; the technologies of cancer diagnosis and treatment; and some social, family, and personal impacts of this disease.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Interim, spring.*

**GES324K • Greening the Built Environment.** 3 Credits.

A study and critique of the “built” environment: our homes, places of work and leisure, transportation systems, and food systems. Development of understanding and commitment for designing, living in, and working in our dwellings and communities in ways that demonstrate stewardship toward the creation.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally.*

**GES326K • Economic Botany.** 3 Credits.

Review of the history, principles, and technology used to domesticate and improve food and beverage crop, lumber, cloth and rope fiber, medicinal, and herbal plants for human use. Emphasis on modern technologies to increase quality, shelf life, transportability, yield, pest resistance, growing season, and soil type tolerances. Includes technologies such as genetic engineering, hybridizing, and breeding that raise ethical issues about their long-term impact on humans, other species, and the environment.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Interim69.*

**GES328K • Nutrition: The Total Diet.** 3 Credits.

Investigates the science of interactions between proper nutrition and weight management, and examines the appropriate ethical, and perhaps limited, use of technology as a means to reverse obesity. Topics include how hormonal imbalances and genetic alterations may result in failure to regulate appetite and metabolism.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally.*

**GES330K • History of Science in Europe.** 3 Credits.

Study of scientists and their discoveries throughout history within the context of an experiential learning opportunity in Europe. Astronomy, biology, chemistry, engineering, mathematics, medicine, and physics are addressed. Evaluation of the effect on society of these disciplines (architecture, art, exploration, philosophy, politics, religion, etc.) will also be evaluated.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Occasionally interim.*

**GES331K • Science in the Fifth Dimension.** 3 Credits.

An exploration of what science is, what it is not, and how it interacts with its “fifth dimension” (society) in art, politics, technology, culture, medicine, and other aspects of the nonscientific community.

*Prerequisites:* *Laboratory Science (D) course; Mathematics (M) course.* Offered: *Fall, interim, spring.*

**GES334K • Perspectives on Computing and Society.** 3 Credits.

Impact of computing technology on social, economic, and value systems. Evolution of approaches to software development. Consideration of Christian ethics in the development and application of computing technology in various areas of human activity.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Students may not receive credit for both GES334K and COS450. Offered: Occasionally.*

**GES336GZ • Building Cross-Cultural and Global Leadership Competence in Hawai'i.** 3 Credits.

Synthesizes theories of global competence and leadership, cultural diversity and cross-cultural competence, individualism and collectivism, critical thinking, and emotional intelligence with shalom and community. Examines and compares cultural groups in Hawai'i in social-historical context. Incorporates strategies for cross-cultural self-awareness and assessment with cultural and service learning experiences.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Occasionally interim.*

**GES338K • Great Controversies in Science and Technology.** 3 Credits.

Overview of great scientific controversies past and present. Topics include: science versus religion, age of the earth, evolution and creation, global warming, and energy issues. Relationships between science and society with particular emphasis on discerning the difference among scientific results, popular consensus, and societal pressures.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim.*

**GES339K • Nano:Small Science, Big Ideas.** 3 Credits.

Investigation of nanotechnology: the science of very small things and their strange, unexpected behavior. Learn why and how nanotechnology is being applied to solve some of our greatest challenges in energy, medicine, and healthcare. Societal and environmental impacts and ethical concerns from a Christian perspective are explored.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Spring.*

**GES340K • Healthcare Informatics: Merging Data, Science, Technology, and Healthcare.** 3 Credits.

Investigates how technology supports meaningful use of data in the delivery of healthcare. Explores common disease processes tracked through healthcare information systems. Considers historical, ethical, and regulatory complexities of healthcare informatics as related to the role of consumer, healthcare administrator, insurer, researcher, and healthcare professional.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Spring 170.*

**GES341Z • The House of God in the City of the World.** 3 Credits.

An exploration of how the church is influenced, expressed, and experienced through social and cultural systems. Develops a level of intercultural competency necessary for understanding Christian communities different from one's own and for hearing and speaking the gospel with cultural sensitivity.

*Offered: Spring.*

**GES390K • Decision-Making and Medical Technology.** 3 Credits.

Health technologies that may be both harmful and beneficial to human health are explored from the perspectives of ethical decision making, psychosocial dynamics, faith, and health policy formation. Topics include genetic testing, contraceptives, intensive treatment of newborns, assisted reproduction organ transplantation, enhancement technologies, aging, and end-of-life decisions.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally.*

**GES402P • Perspectives on Christian Marriage.** 3 Credits.

An analysis of the central issues involved in making a wise decision concerning Christian marriage. Topics include: what the Bible says about marriage; whether or not marriage is for you; family of origin concerns; premarital factors associated with marital stability; and planning for success.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Yearly, term varies.*

**GES403P • Rage on the Stage: Cultivating Empathy and Imagination.** 3 Credits.

Plays, films, and live productions as a springboard for reflection on relevant issues within our society. Discussion and contemplation of contemporary issues that may challenge Christians' personal or collective convictions. Issues may include dysfunctional behavior, racism, environmental or social concerns, as well as current relevant issues selected by students.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES404P • Being Just in an Unjust World.** 3 Credits.

Study and practice of moral decision making from psychological, philosophical, and Christian perspectives. Includes analysis of moral sensitivity, judgment, and action; and discussion and exercises designed to develop personal skills in these areas. Focal issues may include friendship, human rights, personal sexuality, power/authority, capital punishment, and current issues selected by students.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES405P • Ethical Relationships: Choosing the Good in Family and Community Life.** 3 Credits.

Exploration of the ethics of relationships in the context of ethical theory and Christian virtues and norms. Topics include: marriage and divorce; gender; family caregiving; end of life; professional, work, and business relationships; race relations; economic justice; and consumption ethics.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*



**GES407P • Women's Lives, Women's Choices.** 3 Credits.

Female experience during adolescence and adulthood, emphasizing female socialization and potential adult roles. Personal experiences, future life choices, and their consequences in light of the course content and Christian faith.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally/171.*

**GES409P • Christian Leadership in a Secular World.** 3 Credits.

Current issues facing Christian leaders today. The formulation of a personal biblical approach to leadership to enable one to impact society. Involves a variety of personal decisions that are designed to facilitate knowing oneself and understanding one's own responses in various situations.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Yearly, term varies.*

**GES410P • Family Life Cycle.** 3 Credits.

Study of the stages in the family life cycle, with attention to the factors that cause the family unit to separate during the cycle. Special emphasis on studying one's own family of origin in light of both Scripture and society's messages about what family should be. Opportunity to consider preparation for one's own future family development.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Yearly, term varies.*

**GES412P • The Plot Thickens: Character Growth in Literature and Life.** 3 Credits.

Readings and discussion of a number of novels and short stories, examining characters and their values, and responses in the face of complex life situations. Insights of narrative theologians will be used to think about building character as individuals and the role of the community in this process.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES413P • Women's Spiritual Experience.** 3 Credits.

Exploration of diverse women's spiritual experiences by reading spiritual autobiographies, biblical feminist writings, and research on gender and religion. Discussion of how gender influences religious institutions and Christian women's faith. Students write their own spiritual autobiographies.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES414P • The Theology of J.R.R. Tolkien.** 3 Credits.

An exploration of the theological issues raised by J.R.R. Tolkien's "Middle Earth" writings. Theological themes such as evil, salvation, and power will be discussed, with an emphasis placed on choices the characters in the story make with regard to those themes. Attention will also be given to philosophical and literary assumptions/methodologies employed by the author.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES416P • Christian Perspectives of Global Peacemaking.** 3 Credits.

The dynamics of global peacemaking are drawn from the Christian and biblical perspectives to understand the meaning of peacemaking and how absence of peace affects positive social change. This course, through a service-learning component, explores nonviolent alternatives in addressing social problems such as poverty, hunger, environmental depletion, etc.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally/172.*

**GES418P • Christian Lives: Contemporary Spiritual Narratives.** 3 Credits.

Reading, writing, and viewing contemporary spiritual narratives that explore the dimensions of one's call to the Christian life in the contemporary world. Materials are selected for their spiritual, cultural, and literary value and include both traditional Christian authors (e.g., C.S. Lewis or Dietrich Bonhoeffer) and more recent writers (e.g., Anne Lamott or Lauren Winner).

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES419P • Christian Perspectives on the 20th and 21st Centuries.** 3 Credits.

An examination of significant events and trends of the past century in light of Christian values. Topics include the environment, military intervention, immigration, and the place of the federal government in national life. An understanding of diverse Christian responses to such issues in their historical context, and implications of these perspectives for the 21st century.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Interim.*

**GES420P • Bioethics.** 3 Credits.

How technological advances have increased our abilities to conceive, sustain, and alter human lives. How to make morally responsible decisions that shape a just society. Moral issues such as healthcare practices, reproductive methods, allocation of healthcare resources, and biomedical research.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Fall, spring.*

**GES421P • Social Justice and Christian Responsibility.** 3 Credits.

Attempts to understand selected themes of social justice in the United States and the global community. Examines viewpoints of different groups of Christians concerning issues such as the market economy and business, the positive and negative consequences of international trade, the debate about the fairness of public policies in the United States, and the global community. Explores possible actions of concerned and compassionate Christians in collaboration with others to address problems of social injustice.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES424P • Christian Perspectives on Creation and Evolution.** 3 Credits.

An examination of the positions held by different scientists and Christians in regard to the origins of humans, of the world, and the interpretation of Genesis 1 and 2.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES425P • Censorship and Freedom of Expression.** 3 Credits.

Censorship from the perspective of various disciplines, such as psychology, theology, literature, history, and art. Key issues and formulation of student's own positions.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES426P • Family Interaction.** 3 Credits.

An integration of a Christian worldview related to the contemporary family unit; approaches to conflict, power, stress, intimacy, and wholeness. The family system in light of contemporary trends and Christian choices. Communication patterns are examined and evaluated.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Fall, spring.*

**GES427P • Genocide, Terrorism, and Christian Response.** 3 Credits.

Examination of the nature of genocide and religious terrorism with an emphasis on psychosocial influences in the actions of perpetrators, bystanders, and victims. Discussion of relevant religious and moral issues. Study includes religious terrorism and selected major genocides of the 20th and 21st centuries.

*Prerequisites: [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Interim, even # years.*

**GES432P • Christian Responses to Postmodernism.** 3 Credits.

Examination of postmodern theory and its effects on culture, with particular focus on various Christian responses to postmodernism. Attention will be paid to the historical development of postmodernism and the ethical and cultural impacts of postmodernism.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES433P • Biblical Spirituality: Experiencing God.** 3 Credits.

A study of spirituality in a variety of biblical texts, both Old Testament and New Testament. Essential issues related to spirituality will be addressed including: What is spirituality? What are biblical teachings regarding prayer, worship, and spiritual disciplines? How do we interpret biblical texts as guiding paradigms for the contemporary practice of spirituality? .

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES434P • The Celtic Tradition.** 3 Credits.

Development of Celtic Christianity from pre-Christian roots in legends, druids, and dragons to its contemporary renaissance in art, literature, spirituality, and politics, with particular attention to the interplay of faith and the imagination; theology and literature; indigenous beliefs and Christian worship; language; culture; and politics.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally interim.*

**GES438P • Christian Music in Context.** 3 Credits.

Consideration of the nature and function of Christian music in contemporary society, incorporating a study of its development and place in various historical and cultural contexts, as both an avenue for worship and a force for spiritual development.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.*

**GES440P • Christian Nonviolence.** 3 Credits.

What it means to be a Christian peacemaker in today's world. The biblical mandate, the quest for Christian nonviolence in a historical and biographical context, and its implications for the development of conflict-resolution skills and contemporary public policy issues.

*Prerequisites: Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Yearly, term varies.*



**GES441PZ • Issues and Praxis in Christian Social Justice.** 3 Credits.

Examines the theme of justice in the Bible. Explores related themes concerning the history of colonialism, human suffering, the church's inattention to global injustice, spiritual development in relation to justice advocacy, and Christian social responsibility. Bridges theory and action in the setting of Cambodia with specific attention to human trafficking.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Interim. *Special Notes:* All students desiring to take the course must complete an application process. Students who do not meet all of the above requirements may be admitted to the course on a case-by-case basis.174.

**GES442P • Journey from Hell to Heaven.** 3 Credits.

Explores the dynamics of spiritual growth in the context of contemporary social, political, and economic choices, through a reflective reading of Dante's Divine Comedy in its entirety.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Occasionally.

**GES444P • Christians and Conflict.** 3 Credits.

Examination of how we are called as Christians to respond to interpersonal conflicts that continually exist in our lives. Emphasis on analyzing many different types of interpersonal conflicts, which include conflicts in friendships, marriages, parent/child relationships, workplaces, and churches. Analyzes conflict as it is portrayed in the media, including conflicts that are currently making headlines in the news.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Fall, interim, spring.

**GES445P • Aging from a Cross-Cultural Perspective: Living in a Graying World.** 3 Credits.

Aging processes and roles of the older person in our society and other cultures. Choices confronting students in their own aging, their relationship to aging parents and friends, and living and operating as Christians in a rapidly aging world.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Occasionally.

**GES447PZ • Muslims and Middle Easterners: Past, Present, and Personal.** 3 Credits.

An examination of the historical, political, religious, and cultural influences of the Arab peoples of today. Students begin to develop understanding of Arabs and Islam, and initiate communication with Arab and Muslim Americans in Minnesota.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Occasionally.

**GES448P • Abusive Relationships and Christian Responsibility.** 3 Credits.

Explores different types of intimate violence using research from the fields of communication, psychology, and sociology. Examines the history of domestic violence, the prevalence of intimate violence, the cycles of violence, and the existing secular and Christian response to violence. Consideration and evaluation of choices students may face in light of their Christian values, education, and personal experience. Development of personal strategies regarding perceptions and decisions for responsibility in responding to intimate violence.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Interim175.

**GES449P • Chance or Design: Our Place in the Cosmos.** 3 Credits.

Exploration of recent advances in Big Bang cosmology and planetary science with an emphasis on apparent fine-tuning to conditions suitable for human life. Discussion of the possibility of extraterrestrial life. Analysis of design arguments, with the goal of developing a biblically sound view of our relationship to nature and God.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Spring, alternate years.

**GES450P • Reconciliation in a Racialized Society.** 3 Credits.

Study of race, racism, and reconciliation in the United States. Starting from the biblical mandate to be righteous people, a focus on discerning past and present racism, understanding the need for racial justice and reconciliation, appreciating different cultures/ethnicities, and engaging students in the process of racial reconciliation.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Interim.

**GES451P • Spirituality, Sexuality, and the Family.** 3 Credits.

Three powerful forces in everyday life that vitally affect people both personally and collectively. Both past and contemporary influences and experiences that are likely to impact people as they seek to make their personal sexuality, spirituality, and family relationships consistent with Christian values.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Fall, Spring.

**GES452P • Sports in Society.** 3 Credits.

Study of sports as a social phenomenon. Presentation of some of the basic elements involved in the interaction of the active human being. Includes sports and culture, sports in education, social stratification, race, and group dynamics.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. *Offered:* Occasionally.

**GES453P • Ethics and Faith in the Workplace.** 3 Credits.

Practical application of what it takes to function as a Christian in today's workplace. Emphasis on the transition from college to a professional environment, focusing on personal maturity, workplace ethics, and lifelong Christian growth and service.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally interim.

**GES454P • Philosophies of Love and Sex.** 3 Credits.

Examines different philosophical theories of the nature of love. Explores features associated with love and distinguishes different types of love. Asks whether there are moral or ontological constraints on different types of love. Critically investigates the role of sexuality in contemporary conceptions of love and moves toward the development of Christian attitudes and behaviors related to these complex issues.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Fall.

**GES455P • Covenant Relationships: Marriage, Friendship, and Beyond.** 3 Credits.

An exploration of the relational dynamics of marriage, friendship, and Christian community within the context of the biblical concept of covenant relationship. Competing values within contemporary Western culture (e.g., individualism, hedonism) are explored and critiqued in light of the values associated with covenant community.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally 176.

**GES456P • What Good is Leisure? Living the Rest of Your Life.** 3 Credits.

Examination of five ways that individuals and cultures have regarded time outside of work and family responsibilities. Study of time devoted to religious exercise, liberal arts education, social responsibilities, respite from labor, and recreation. Emphasis on exploring personal alternatives and experiential learning. Readings from philosophy, literature, anthropology, theology, and contemplative traditions.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Spring.

**GES460P • Christian Commitment in a Secular Age: Liberalism and Conservatism.** 3 Credits.

Despite the appeal of the cliché, "I don't like labels; they simply put people in boxes," many of our responses to culture—literary, political, and religious—are broadly "conservative" or "liberal." Examines a range of issues and texts to determine the sources of liberalism and conservatism and their relation to biblical Christianity.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Occasionally.

**GES461P • Anthropology of Tourism: Travel, Culture Change and Globalization.** 3 Credits.

Uses the lens of anthropology to explore the nature, development, and impact of various forms of travel as well as their relationships with culture change and globalization. Approaches tourism not only as an important human activity and a modern industry, but also an area of creating new cultural hegemony, economic dependency, and identity crisis. Challenges students to evaluate benefits and costs of travel and tourism in light of Christian ethics and values.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Fall, even # years.

**GES462P • The Arts, Meaning, and the Sacred.** 3 Credits.

Explores how our complex "culture of representations" interacts with belief, meaning, and understanding the sacred. Emphasizes learning to read "contemplatively" as both personal and community action. Develops deep literacy for visual, media, and literary "texts," including art, short story, TV advertising, creative nonfiction, and essays in aesthetics, philosophy, and theology.

*Prerequisites:* Senior standing; [GES110; THE201; Comparative Systems (G) course; Nature of Persons (N) course] or [GES246; Comparative Systems (G) course; Nature of Persons (N) course]. Offered: Spring.

## The Humanities Program

The Humanities Program is a four-course sequence consisting of GES145, GES147, GES244, and GES246. It emphasizes in-depth reading, discussion, and analysis of texts and works of art. Students experience literature, theology, philosophy, music, theatre, and art in historical context. They learn the foundations of theology and see how Christians have shaped and responded to Western culture. The four-course sequence must be taken in order and replaces five courses in the General Education CWILT option [GES110, GES125, GES130, THE201, and a Contemporary Western Life and Thought (L) course]. To derive full benefit from the Humanities Program, students should complete the entire program: Western Humanities in Christian Perspective I-IV. See the Academic Information section of this catalog for further information. Contact the director of the Humanities Program for details.

## Geography

Geography is the study of the physical environment and its relationship to humanity's settlements and activities. The goal of the introductory-level course is to familiarize students with the broad spectrum within geographical study. The intermediate-level coursework provides deeper understandings of interrelationships in a spatial framework.

**GEO320K • History and the Human Environment.** 3 Credits.

Environmental and geographical background of human history. Agriculture, climate, energy resources, transportation, and diseases, especially as they have influenced the historical development of Western Europe and North America. Implications for current and future environmental concerns.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Fall, spring. Special Notes: Carries cross-credit in history.*

## Geology

**GEL168 • Geology.** 3 Credits.

A study of earth's structure and the forces that continue to shape it. The fragility, power, and patience of our geologic environment are considered, as well as land use patterns and decisions. Topics include minerals and rocks, geologic time, earthquakes, volcanoes, plate tectonics, glaciers, weathering and erosion, maps/aerial photos, GPS/GIS, groundwater, mineral resources, and streams.

*Corequisites: Registration in GEL168D is required. Offered: Fall.*

**GEL168D • Geology Lab.** 1 Credits.

Laboratory experience accompanying GEL168. Includes two field trips to exposed rock layers and fossil digs.

*Corequisites: Registration in GEL168 is required. Offered: Fall.*

## History

The Department of History prepares students who are imaginatively comfortable in a historic past and actively engaged with the present. Based on the conviction that all of God's creation – including all human beings, who bear the image of God—is worthy of study, the department's curriculum is constructed broadly; students encounter the histories of peoples from the Americas, Europe, the Middle East, and other regions. The resulting broad knowledge of human history is deepened by the integration of Christian faith and learning, the recurrence of marginalization, empathy, and interconnectedness as historical themes, and the development of passionate curiosity about the past.

In addition to historical knowledge, students will cultivate wisdom, learning to live skillfully in the present day, so that they can serve others and glorify God wherever they are called. In particular, coursework in the Department of History develops skills essential to lifelong learning (research, reading, critical thinking, analysis, synthesis) and communication (listening, writing, speaking, use of multiple media) that prepare graduates for continuing study, good citizenship, service to church and community, and employment in a wide variety of fields—including business, education, law, government, pastoral ministry, journalism, and libraries and museums.

## Majors in History

- B.A. in History (p. 146)
- B.A. in Social Studies Education 5-12 (p. 180) (See Multidisciplinary section)
- B.A. in Third World Studies (p. 181) (See Multidisciplinary section)

## Minor in History

- History (p. 147)

**HIS200L • American Civilization.** 3 Credits.

A survey of American history from early Native American communities to the present. Examination of major social, cultural, economic, political, and religious change over time in the American experience.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall, spring.*

**HIS204U • African Civilizations.** 3 Credits.

The peoples and cultures of Africa. African social structures, religions, government, warfare, technology, and the arts. Traditional African societies, the impact of Western colonialism, the rise of nationalism, and contemporary issues.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally.*

**HIS205U • History of China, Japan, and Korea.** 3 Credits.

History and cultures of East Asia. Religion; economic development and trade; and family, social, and political organization. Primary focus on China, Korea, and Japan.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring.*

**HIS206U • History of India and Its Neighbors.** 3 Credits.

History of cultures and societies of South Asia. Religion; economic development and trade; and family, social, and political organization of India and its neighbors.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally.*

**HIS207U • Latin American Civilizations.** 3 Credits.

History of cultures and societies of Latin America. Social, religious, geographic, economic, and political history. The Americas before European contact (with emphasis on Mexico and Central and South America), impact of European conquest and colonization, struggles for independence and national and regional identity, relations with the United States, and Latin America's place in the global economy.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring.*

**HIS209L • Christianity in America.** 3 Credits.

Christianity as a vital factor in North American history and life. Develops an understanding of the European Reformations, the Enlightenment, and other modern developments as factors interacting with Christianity in various aspects of North American culture from colonial times to the present. Exploration of Christian responses to issues such as democracy, imperialism, slavery, secularism, industrialization, materialism, communism, civil rights, pluralism, war, globalization, and technology.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Occasionally.*

**HIS210U • Minorities in America.** 3 Credits.

History of multicultural America from the colonial period to the present through a case approach. Focuses on one of the following cultures: Native American, African American, Asian, Hispanic, Jewish American, or Muslim. Examination of themes such as family, society, arts, education, work, slavery, discrimination, immigration-assimilation, democracy, social justice, the role of religion, and women's concerns as they are experienced by various minority groups.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, odd # years.*

**HIS212U • History of Islam.** 3 Credits.

Introduces the religion of Islam from its inception and development to Islam as it is practiced worldwide today. Students interact with members of the Islamic community in Minnesota in an attempt to understand Islam from the personal experiences of Muslims. Contemporary issues and controversies are examined through the lens of the Muslim experience throughout history.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in religious studies.*

**HIS216L • American Constitutional History.** 3 Credits.

Examination of the origins and development of American constitutional ideas and institutions from the colonial period to the present. Particular attention paid to the historical connections between major constitutional cases and broader social, political, economic, and cultural trends.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in political science.*

**HIS217UZ • Hispanic Christianity.** 3 Credits.

Hispanic Christianity in Latin America and the United States with focus from the 19th century to date. Colonialism to modernity and new nations; Protestantism from mainlines to grassroots movements; responses to issues such as civil rights, liberation, race, gender, immigration, poverty, and education; diversity of Hispanic theologies, missions, and ministries. Includes significant personal intercultural engagement and service learning with an assigned local Hispanic church or faith-based community service organization.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, even # years. Special Notes: Spanish language not a requirement.*

**HIS221L • Making of Minnesota.** 3 Credits.

Examination of the historical development of Minnesota up to the present with a social and economic focus: immigration, use and abuse of natural resources, populist politics, intergroup relations, and Minnesota's impact on the nation.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Occasionally.*

**HIS223L • History of the American West.** 3 Credits.

An examination of the history of the American West from 1492 to the present. Particular attention to the interaction and competition of different cultures; the construction of political, economic, and religious institutions; and the physical environment, its representations, and its symbolic importance in the broader context of American history.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim, odd # years.*

**HIS230L • World War I.** 3 Credits.

An experiential study of the history of the First World War built around travel in England, Belgium, France, and Germany, including visits to battlefield sites, cemeteries, memorials, and museums. Students will learn what it was like to experience and remember total war and to appreciate this particular conflict's larger significance for American and European culture.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim, odd # years.*

**HIS231L • World War II.** 3 Credits.

The causes, course, conclusion, and legacy of World War II, particularly as experienced by the people of China, France, Germany, Great Britain, Japan, Russia, and the United States. Key topics include collaboration and resistance, genocide, the war in film, remembrance and forgetting, and the social and economic impacts of the war.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim, even # years.*

**HIS241L • Revolution and Political Development.** 3 Credits.

Theory and process of modernization, with special emphasis on the Anglo-American historical experience; examinations of U.S. efforts to promote democracy internationally in Europe, Asia, and the Middle East since World War II.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in political science.*

**HIS245L • History of Women in America.** 3 Credits.

Discussion of "What does it mean to be an American woman?" Historical experiences of American women cutting across race, class, and ethnicity are used to examine gender, citizenship, and the meaning of political, social, and cultural history for women and men.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall.*

**HIS290 • Introduction to History.** 3 Credits.

An introduction to the methodology and philosophy of history, with particular emphases on preparing students for historical research and writing, on the public uses of history, and on the discipline as a Christian vocation.

*Offered: Spring.*

**HIS300 • American Beginnings.** 4 Credits.

A survey of early American history from Native-American communities through the American Revolution. Investigation of the origins and character of American beginnings through the interactions of Native Americans, African Americans, and Euro-Americans. Topics covered include: Native-American responses to European invasion, colonial expansion, slavery, family structure, early industrialism, and the formation of the Constitution.

*Offered: Fall, odd # years.*

**HIS301 • A New Nation.** 4 Credits.

A survey of 19th century American history from 1790 to 1890. Examination of major social, economic, cultural, political, and religious change in 19th century America, with an emphasis on the intersections of race, class, and gender.

*Offered: Fall, even # years.*

**HIS302 • History of Sexuality in the United States.** 4 Credits.

An examination of the history of sexuality from the colonial period to the present. Particular attention to the impact of religion, culture, government, science, and economics on the formation of sexual mores and identities, and the relationship between sexuality and gender, race, ethnicity, age, and class.

*Prerequisites: Sophomore standing. Offered: Spring, even # years.*

**HIS305G • The Cold War.** 3 Credits.

The Cold War as an event in international history, studied from the perspective of the United States, the Soviet Union, China, Europe, and the Third World. Introduces students to ongoing historical debates and to the sources historians use in those debates (including declassified documents available online).

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring, odd # years. Special Notes: Carries cross-credit in political science.*

**HIS307 • The American Civil War.** 4 Credits.

A history of the American Civil War: causes, course of the war, and short- and long-term consequences. Includes, but is not limited to: examining political, military, social, cultural, economic, religious, and environmental events of the American Civil War.

*Offered: Spring, odd # years.*

**HIS310 • Near Eastern and Greek Civilizations.** 4 Credits.

Roots of Western civilization in the Near East and Greece. World of the Mesopotamian Empire; Egypt of the pharaohs; and Greece of Homer, Socrates, and Alexander. Cultural and historical context for understanding biblical literature.

*Prerequisites: Sophomore standing. Offered: Occasionally.*

**HIS311 • Roman Civilization.** 4 Credits.

Development of the Romans from their origins through their achievement of a world empire to the conversion of the Emperor Constantine. Politics, government, literature, art, philosophy, and religion as well as the emergence and growth of the Christian church. Continuing heritage of Rome in our contemporary world.

*Prerequisites: HIS200L, HIS204U, HIS207U. Offered: Spring.*

**HIS312 • Medieval Europe.** 4 Credits.

Historical developments in Western Europe from the reign of Constantine to the era of Petrarch (A.D. 325-1350). Broad cultural, economic, political, social, and religious patterns, with emphasis on the development of the church in its social context.

*Offered: Occasionally.*

**HIS320K • History and the Human Environment.** 3 Credits.

Environmental and geographical background of human history. Agriculture, climate, energy resources, transportation, and diseases, especially as they have influenced the historical development of Western Europe and North America. Implications for current and future environmental concerns.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Fall, spring. Special Notes: Carries cross-credit in geography.*

**HIS324G • Human Rights in International History.** 3 Credits.

International and comparative exploration of how human rights have been defined, violated, and protected. Discussion of historical topics (e.g., the abolition of the slave trade, social reform and Christian missions, the genocides of the 20th century), as well as contemporary issues. May include a service-learning project completed at Bethel or with a local organization.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring, even # years. Special Notes: Carries cross-credit in political science.*

**HIS328G • Muslim Women in History.** 3 Credits.

Global survey of the lives of Muslim women from the 7th century to the present. Examination of how Muslim women's lives have historically been shaped by their social context, with particular attention to religious interpretation and expression, culture, ethnicity, and geographic location.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Interim. Special Notes: Carries cross-credit in religious studies.*



**HIS329 • African Politics.** 3 Credits.

Consideration of political development in Africa from the pre-colonial era through the present, focusing on changes in political regimes through time, the nature of economic struggles, and sources of violent conflict. Specific case studies and shared African experiences and challenges will be examined.

*Prerequisites:* POS202U or POS205 recommended. *Offered:* Spring. *Special Notes:* Carries cross-credit in political science.

**HIS335G • The Reformations.** 3 Credits.

Christian worldviews in the 16th century, including the Protestant Reformation, Catholic Reformation, and Radical Reformation.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Fall, even # years.

**HIS350 • Modern America.** 4 Credits.

A survey of 20th century American history from 1890 to the present. Examination of major social, economic, cultural, political, and religious change in modern America, with an emphasis on the intersections of race, class, and gender.

*Prerequisites:* HIS200L, HIS204U, HIS207U. *Offered:* Spring.

**HIS354 • Modern Europe.** 4 Credits.

The social, political, diplomatic, intellectual, and religious history of Europe since 1750. Key themes include political reforms and revolutions, gender roles, industrialization, migration, nationalism, imperialism, total war, totalitarianism, genocide, decolonization, and secularization.

*Prerequisites:* GES130 or GES246; HIS200L, HIS204U, HIS207U. *Offered:* Fall.

**HIS356 • Modern Middle East.** 4 Credits.

Political, social, religious, economic, and cultural history of the Middle East since 1800. Particular attention is paid to colonialism, globalization, war, gender roles revolution, and reform. Controversies such as the Arab/Israeli conflict, the Islamic Revolution in Iran, Saddam Hussein's Iraq, and the U.S. war on terror are discussed.

*Prerequisites:* Sophomore standing. *Offered:* Fall. *Special Notes:* Carries cross-credit in political science.

**HIS360 • Classics in Western Political Philosophy.** 4 Credits.

Selected political theorists. Such writers as Plato, Aristotle, Machiavelli, Luther, Calvin, Locke, Marx, and Niebuhr. Concentrates on primary sources.

*Prerequisites:* One course in political science, philosophy, or European history. *Offered:* Spring, even # years. *Special Notes:* Carries cross-credit in philosophy and political science.

**HIS370 • Topics in American History.** 3-4 Credits.

Selected topics in American history. Specific topic to be announced in advance of registration.

*Prerequisites:* HIS200L or consent of instructor. *Repeatable course* The course may be repeated when a different topic is emphasized. *Offered:* Occasionally.

**HIS371 • Topics in European History.** 3-4 Credits.

Selected areas, themes, and periods of European history. Specific topic is announced in advance of registration.

*Prerequisites:* GES130 or GES246; Contemporary Western Life and Thought (L) course. *Repeatable course* The course may be repeated when a different topic is emphasized. *Offered:* Occasionally.

**HIS372 • Topics in Global History.** 3 Credits.

Selected themes, periods, and areas, focusing on Asia, Africa, or Latin America. Specific topic to be announced in advance of registration.

*Prerequisites:* GES130 or GES246; Contemporary Western Life and Thought (L) course or GES246; World Cultures (U) course. *Repeatable course* May be repeated when a different topic is emphasized. *Offered:* Occasionally.

**HIS400 • Research in History.** 3 Credits.

An opportunity to work with a member of the history faculty on a major research project.

*Prerequisites:* Major in history; coursework appropriate to the area of research; invitation of supervising faculty member; consent of department. *Offered:* Occasionally. *Special Notes:* No student may take more than six credits in HIS400 and/or directed study.

**HIS481 • Internship in History.** 3-4 Credits.

A practical experience in applying academic skills in an off-campus setting under the dual supervision of a history faculty member and a practicing historian or related professional. Designed by student in consultation with history department faculty.

*Prerequisites:* Major in history. *Offered:* Occasionally.

**HIS499 • Senior Seminar.** 4 Credits.

Historiography, historical methodology, and the philosophy of history. Emphasis on synthesis, integration, and writing of a research paper.

*Prerequisites:* Major in history; senior standing or consent of instructor. *Offered:* Spring.

## B.A. in History

HIS290	Introduction to History	3
HIS499	Senior Seminar	4
Select from American History courses (at least one at the 300 level):		7-8
HIS200L	American Civilization <sup>1</sup>	
HIS209L	Christianity in America <sup>1</sup>	
HIS210U	Minorities in America <sup>1</sup>	

HIS216L	American Constitutional History <sup>1</sup>	
HIS223L	History of the American West	
HIS245L	History of Women in America <sup>1</sup>	
HIS300	American Beginnings	
HIS301	A New Nation	
HIS302	History of Sexuality in the United States	
HIS307	The American Civil War	
HIS350	Modern America	
HIS370	Topics in American History	
Select from Global History courses (at least one at the 300 level):		7-8
HIS205U	History of China, Japan, and Korea <sup>1</sup>	
HIS206U	History of India and Its Neighbors <sup>1</sup>	
HIS207U	Latin American Civilizations <sup>1</sup>	
HIS212U	History of Islam <sup>1</sup>	
HIS217UZ	Hispanic Christianity <sup>1</sup>	
HIS241L	Revolution and Political Development <sup>1</sup>	
HIS324G	Human Rights in International History <sup>1</sup>	
HIS328G	Muslim Women in History <sup>1</sup>	
HIS329	African Politics	
HIS356	Modern Middle East	
HIS372	Topics in Global History	
Select from European History courses (at least one at the 300 level)		7-8
HIS230L	World War I <sup>1,2</sup>	
HIS310	Near Eastern and Greek Civilizations	
HIS311	Roman Civilization	
HIS312	Medieval Europe	
HIS335G	The Reformations <sup>1</sup>	
HIS354	Modern Europe	
HIS371	Topics in European History	
Electives from history courses		7-11
General Education		51-52
Electives		36-44
<b>Total Credits</b>		<b>122-138</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> If taken in Europe as a Bethel study abroad course.

Students majoring in history may choose a focus (at least 12 credits) in American, European, or global history.

All students planning to pursue graduate study in history should choose a focus. In addition, these students should complete one of the following independent study experiences: one semester or interim spent studying off-campus, HIS400, or HIS481. Students planning to pursue graduate-level study in history should also complete study of at least one modern or ancient language through the Intermediate II level and are encouraged to complete a minor in this language.

## Minor in History

HIS290	Introduction to History	3
Electives from history courses, of which 6 credits must be 300 level or above		15
<b>Total Credits</b>		<b>18</b>

## Human Kinetics and Applied Health Science

The Department of Human Kinetics and Applied Health Science endorses a philosophy that the key to health and wellness is the quality of one's lifestyle, which has physical, mental, emotional, social, and spiritual aspects. The department's mission is to promote health and wellness with an emphasis on prevention; lifelong learning; and the acquisition of knowledge, attitudes, and skills that can be integrated into a holistic lifestyle.



Professional degree programs include Athletic Training, Biokinetics, Physical Education K-12, and Health Education 5-12. The department provides physical wellness, fitness, and lifetime leisure and sport courses that fulfill General Education requirements for all Bethel students. A goal of both the professional programs and the General Education courses is to develop whole and holy persons who will strive to be salt and light as ambassadors for Jesus Christ.

Athletic Training is practiced by athletic trainers as healthcare professionals who collaborate with physicians to optimize the activity and participation of patients and clients. Athletic training students gain valuable experience in the prevention, care, treatment, and rehabilitation of illness and injury in the physically active. Athletic trainers practice in a variety of healthcare settings that provide prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions.

Biokinetics is an applied science that examines human biological systems and their reaction to stressors on the body. The program emphasizes a research-based approach to health promotion. This program prepares students to become health and fitness experts who can address a wide range of health needs related to lifestyle, aging, and inactivity, as well as strategies to improve physical performance in healthy populations.

Health Education 5-12 prepares students to teach health education in a variety of settings including public and private middle schools and high schools, community agencies, and healthcare facilities. Students in the health education major are given multiple experiential opportunities working with middle and high school students in preparation for their teaching degree.

Physical Education K-12 prepares students to teach physical education in public or private elementary, middle, or high school settings. Students in the physical education major are given multiple experiential opportunities working with elementary, middle, and high school students in preparation for their teaching degree. Additional coursework for a Developmental and Adapted Physical Education (DAPE) endorsement or coaching minor is available.

## Majors in Human Kinetics and Applied Health Science

- B.S. in Biokinetics (p. 159)
- B.A. in Physical Education K-12 (p. 158)
- B.A. in Health Education 5-12 (p. 157)
- B.A. in Athletic Training (p. 155)

## Minors in Human Kinetics and Applied Health Science

- Athletic Coaching (p. 160)
- Community Health (p. 160)
- Health Education (p. 161)
- Physical Education (p. 161)

Students planning to complete the course of study in athletic training must apply to the Athletic Training Program (ATP) in the fall of their sophomore year. Enrollment may be limited due to constraints of clinical settings. **Students may not graduate with the athletic training major without completing all clinical requirements for the ATP.**

### REQUIREMENTS FOR ADMISSION

Because of the limited opportunities for clinical experience in the Bethel University ATP, a selection process is necessary to identify the most appropriate candidates for the available positions. A selection committee will evaluate each candidate based on overall GPA, GPA in the prerequisite courses, personal interviews with the selection committee, written application materials, and letters of recommendation. The number of students accepted into the ATP each year is dependent upon the constraints of clinical settings and the number of clinical preceptors available.

Application packets are available in the Human Kinetics and Applied Health Science office by November 1. Each candidate must have all application materials, including personal reference forms, on file in the program director's office by January 7. Selections are made in January, and successful candidates begin their clinical experiences in February.

Along with submitting the application materials, the candidate must also meet the following minimum requirements to be considered for admission to the Athletic Training Education Program:

1. Attain a minimum 2.5 cumulative GPA.
2. Complete HAS120; HAS279; BIO104/104D, BIO120/121, or BIO122/122D; BIO214/215.
3. Complete observation requirements (listed separately) and submit with application.
4. Submit transcripts of all colleges and/or universities attended to the program director.
5. Commit to a minimum of five semesters for the completion of coursework and clinical experiences.

6. Provide proof of a physical exam on file at Bethel University Health Services.
7. Provide proof of Hepatitis B vaccination or signed waiver.
8. Submit signed Technical Standards for Admission form. This form is included in the application packet and can be viewed at [bethel.edu/undergrad/academics/athletic-training/majors-minors/athletic-training](http://bethel.edu/undergrad/academics/athletic-training/majors-minors/athletic-training).

Progression:

Students admitted to the ATP must meet Bethel University requirements for academic progress. In addition, a student must:

1. Maintain a cumulative GPA of 2.5 and a 2.75 GPA in major courses.
2. Maintain current certification in American Red Cross CPR/AED for the Professional Rescuer.
3. Become and remain a student member in the National Athletic Trainers Association.
4. Earn a grade no lower than C in any major course.
5. Complete clinical requirements as outlined in the ATP Student Manual and the Athletic Training Program webpage.

Note: There will be additional expenses (above tuition and fees) associated with clinical rotations. Expenses may include, but are not limited to, personal background check, physical examination and immunizations, professional conference fees, and uniforms. Each student will have a minimum of one off-campus clinical experience. Transportation is necessary to all off-campus clinical sites. Students must be available nights and weekends for clinical assignments.

6. Operate within the NATA Code of Ethics and the guidelines of the ATP Student Manual.

**PEA100 • Physical Wellness for Life.** 1 Credits.

Development of the knowledge needed to make wise and healthy lifestyle choices. Development of a lifelong fitness plan as part of a comprehensive wellness perspective. Includes both lecture and lab experience.

*Offered: Fall, spring.*

**PEA110Q • Disc Golf.** 1 Credits.

An introduction to the game of disc golf. Includes history, equipment, etiquette, rules, technique, scoring, and playing of the sport at the disc golf course.

*Offered: Fall, spring.*

**PEA112Q • Walk Jog Run.** 1 Credits.

Basic introduction to running for health. Students learn to monitor heart rates as they progress from a walking/jogging base to runs of up to an hour in length. Proper warmup and recovery are stressed. Students begin with workouts appropriate to their fitness levels and set goals appropriate for those levels.

*Offered: Fall, spring.*

**PEA113Q • Fly Fishing.** 1 Credits.

Basic skills and equipment of fly-fishing. Includes history, equipment, fly-tying, fly-casting, knot tying, and basic streamside/lakeside entomology.

*Offered: Spring.*

**PEA114QA • Jazz Dance.** 1 Credits.

An introductory course in basic jazz dance steps and technique. Emphasis on correct body placement, technique, introduction to various jazz styles, and artistic interpretation.

*Offered: Fall.*

**PEA115QA • Ballet.** 1 Credits.

An introductory course in basic ballet dance steps and technique. Emphasis on correct body placement, technique, introduction to ballet basics and artistic interpretation.

*Offered: Spring.*

**PEA116Q • Aerobics.** 1 Credits.

Development of cardiovascular fitness through aerobic rhythms and exercise. Workout includes varied aerobic conditioning, minimal strength training, and stretching.

*Offered: Fall, spring.*

**PEA117Q • Cycling.** 1 Credits.

Introduction to basic cycling skills, basic bicycle maintenance and repair, and cycling safety. Discussion includes cycling for sport (mountain biking, road biking), commuting, and leisure. Cycling responsibility and safety are emphasized.

*Offered: Spring.*

**PEA118Q • Beginning Weight Training.** 1 Credits.

Physical fitness through weight training. Basic principles of diet, weight training, and completion of an adequate program.

*Offered: Fall, spring.*

**PEA119Q • Self Defense.** 1 Credits.

Development of the awareness and basic skills necessary for protection and self-defense. Focus on observational and non-confrontational skills used to prevent or postpone physical aggression. Development of competency in the use of physical self-defense measures needed when prevention fails.

*Offered: Fall, interim, spring.*

**PEA122Q • Badminton.** 1 Credits.

Basic badminton skills, player position, and strategy. Includes instruction, drills, practice, playing time, a class tournament, history, rules, etiquette, and equipment needs.

*Offered: Fall, spring.*

**PEA124Q • Fundamentals of Basketball.** 1 Credits.

Individual skill development, coordination of individual skills with other skills, strategy, and team play for the pick-up or intramural player.

*Offered: Fall, spring. Special Notes: Not open to varsity basketball players.*

**PEA130Q • Beginning Snowboarding.** 1 Credits.

Basic skills of snowboarding to achieve success on easy and intermediate terrain. Includes history, safety, equipment, and development of riding skill and technique on groomed trails.

*Course fee will not be refunded in full if class is dropped after the first day of instruction. Offered: Interim.*

**PEA131Q • Intermediate Snowboarding.** 1 Credits.

Intermediate and advanced boarding skills on intermediate and expert terrain. Emphasis on developing riding technique to tackle bumps, steps, carving, and terrain park features.

*Course fee will not be refunded in full if class is dropped after the first day of instruction. Offered: Interim.*

**PEA132Q • Golf.** 1 Credits.

Basic golf strokes. Instruction and practice of grip, swing, woods, irons, chipping, and putting at the driving range and putting green. Includes history, equipment, etiquette, rules, and scoring, as well as playing time at the golf course.

*Offered: Fall, spring.*

**PEA133Q • Intermediate Golf.** 1 Credits.

Designed for students who have had some instruction and experience with golf. Further development of strokes and emphasis on playing a more consistent golf game.

*Prerequisites: PEA132Q or consent of instructor. Offered: Fall, spring.*

**PEA136Q • Racquetball.** 1 Credits.

Basic skills and strategy of racquetball, as well as the rules, regulations, and history of the game. Includes singles, cutthroat, and doubles.

*Offered: Fall, spring. Special Notes: Students must provide their own racquet.*

**PEA138Q • Beginning Downhill Skiing.** 1 Credits.

Basic skills of downhill skiing. Includes history, safety, and equipment; walking, climbing, gliding, and traversing the hill; wedge, steer, wide track, and parallel turns; techniques in stopping and controlling speed.

*Course fee will not be refunded in full if class is dropped after the first day of instruction. Offered: Interim.*

**PEA139Q • Intermediate Downhill Skiing.** 1 Credits.

Intermediate and advanced turns at slow and intermediate speed on steep, high, and difficult terrain. Opportunity to measure ability through a race course designed for this level of ability.

*Course fee will not be refunded in full if class is dropped after the first day of instruction. Offered: Interim.*

**PEA140Q • Cross Country Skiing I.** 1 Credits.

Recreational ski touring techniques. Equipment, waxing, and safety in the winter environment. An all-day ski trip off campus.

*Offered: Occasionally interim. Special Notes: Open to beginners and intermediates.*

**PEA141Q • Cross Country Skiing II.** 1 Credits.

Reinforcement and development of diagonal stride techniques and beginning skate-skiing techniques for intermediate skiers. Discussion of more advanced waxing techniques and equipment. Includes one extended ski off campus.

*Prerequisites: PEA140Q or consent of instructor. Offered: Occasionally interim.*

**PEA142Q • Slow Pitch Softball.** 1 Credits.

Fundamental skills of slow-pitch softball for the recreational player.

*Offered: Fall, spring.*

**PEA144Q • Beginning Tennis.** 1 Credits.

Basic tennis strokes. Includes instruction, drills, practice, and playing time. Covers rules, simple strategy, player position, etiquette, and guidelines for equipment selection.

*Offered: Fall, spring.*

**PEA145Q • Intermediate Tennis.** 1 Credits.

Further development of basic tennis skills with emphasis on solid and consistent stroking. Instruction, drills, practice, and playing time on the serve, forehand and backhand ground strokes, volleys, lobs, and overheads. Game-playing strategy, tiebreakers, and player position.

*Offered: Spring.*

**PEA146Q • Volleyball.** 1 Credits.

Power volleyball skills and techniques involved in volleyball as a recreational sport. Rules, strategy, as well as the application of rules in game situations. Traditional 6-on-6, coed, and reverse 4s are taught under the rules of USA volleyball. Emphasis on developing a positive attitude toward playing the game of volleyball.

*Offered: Fall, spring.*

**PEA147Q • Intermediate Volleyball.** 1 Credits.

Competitive volleyball play in which participants learn a variety of volleyball strategies, offenses, defenses, and various styles of play. Traditional 6-on-6, coed, and reverse 4s are used for competition under the rules of USA volleyball. Emphasis on applying rules in game situations, not only as a player, but also as an official.

*Prerequisites: PEA146Q or participation in high school varsity volleyball. Offered: Spring, even # years.*

**PEA150Q • Lifeguarding I.** 2 Credits.

Development of the highest possible skill level in the five basic strokes, as well as instruction and practice in basic skills to save one's own life or the life of another. Opportunity to receive a Red Cross Lifeguarding I Certificate.

*Prerequisites: Advanced swimming proficiency; current CPR and First Aid certification (may be taken concurrently). Offered: Spring, odd # years.*

**PEA151Q • Soccer.** 1 Credits.

Introduction to the history, rules, and fundamental skills of soccer.

*Offered: Fall.*

**PEA152Q • Yoga.** 1 Credits.

Development of physical fitness and self-awareness through core stabilizing and strengthening exercises as an integral part of health and wellness. Emphasis on the integration of Christian faith and exercise while learning correct postures, alignments, and focus.

*Offered: Spring. Special Notes: Students must provide their own exercise/yoga mat.*

**HAS120 • First Aid.** 1 Credits.

Emphasizes the citizen responder as the first link in the emergency medical services system through the American Red Cross First Aid course. Includes CPR/AED for the Professional Rescuer.

*Offered: Fall, spring.*

**HAS130 • Personal and Community Health.** 3 Credits.

Focus on health promotion and the development of skills to make informed lifestyle decisions. Examination of current information on major health issues including exercise, nutrition, stress, tobacco/alcohol/drug use, mental health, sexual health, environmental health, and disease. Emphasis on the importance of becoming an advocate for personal, family, and community health.

*Offered: Fall, spring.*

**HAS200Q • Professional Activities I.** 4 Credits.

Developmental progressions to improve personal skill through instruction, practice, and corrective feedback. Exposure to various teaching methods while participating in individual and dual sports that include badminton, golf, tumbling, tennis, and track and field. Students lacking competency in lifetime activities are encouraged or required (at discretion of the department) to take one or more separate Q courses to meet competency.

*Prerequisites: Sophomore class standing or consent of instructor. Offered: Fall.*

**HAS201 • Foundations of Physical Education.** 2 Credits.

An examination of the historical, philosophical, sociological, and psychological foundations of physical education from its earliest beginnings through the 20th century. Development of a philosophical base for physical education and study of specific issues, trends, and professional opportunities related to physical education and sport.

*Offered: Fall.*

**HAS205QA • Self-expression through Dance.** 2 Credits.

Provides students with opportunities to experience a wide variety of rhythmic movement and dance to enhance creative expression, fitness development, and understanding of, and appreciation for, a variety of dance forms. Students think and move creatively and develop rhythmic skills through participation in aerobic dance, square dance, ethnic dance, and ballroom dance.

*Offered: Occasionally.*

**HAS210 • Professional Activities II.** 3 Credits.

Development of usable progressions and methods for teaching the skills involved in team sports. Emphasis on personal skill practice, with attention to motivation, feedback, and other concepts of motor learning. Sports include flag football, soccer, volleyball, basketball, team handball, and softball. Students lacking basic skill(s) competency in one or more team sports will be encouraged or required (at discretion of the department) to take a separate course for one of those sports.

*Offered: Spring.*

**HAS215 • Professional Activities III.** 2 Credits.

Developmental progressions to improve personal skill through instruction, practice, and corrective feedback. Exposure to various teaching methods while participating in swimming, weight training, and aerobic exercise.

*Prerequisites: Sophomore class standing or consent of instructor. Offered: Fall.*

**HAS220A • Educational Rhythms.** 3 Credits.

Principles of teaching rhythmic movement, emphasizing aspects of creativity, square dance, social dance, rhythms with equipment, and ethnic dances from various countries. Includes practice and incorporation of skills into multiple teaching situations.

*Prerequisites: Sophomore class standing or consent of instructor. Offered: Spring, even # years.*

**HAS247 • Motor Development and Learning.** 3 Credits.

The mechanisms of human motor learning and development with special emphasis on the physical and psychological principles involved in the acquisition and maintenance of motor skills.

*Offered: Fall, spring.*

**HAS250M • Statistics and Research Methods in Applied Health Sciences.** 3 Credits.

Research planning, structuring, administering, and evaluating health, physical activity, and rehabilitative science protocols for healthy and special populations using parametric and nonparametric statistical techniques (descriptive, correlational, and inferential statistics). The research proposal developed in this course may be utilized for data collection and presentation in future coursework.

*Offered: Fall, spring.*

**HAS261 • Theory and Practice of Coaching.** 4 Credits.

Theoretical and practical aspects of coaching. Topics include coaching philosophy, game and practice management, drill design, player and coach relationships, and psychological and sociological aspects of sport and/or coaching.

*Offered: Spring.*

**HAS262 • Coaching of Baseball.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of baseball.

*Offered: Spring, odd # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS263 • Coaching of Basketball.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of basketball.

*Offered: Fall, odd # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS264 • Coaching of Football.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of football. Basic terminology and position nomenclature for the introduction to coaching football.

*Offered: Fall, odd # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS265 • Coaching of Hockey.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of hockey.

*Offered: Spring, even # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS266 • Coaching of Track and Field.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of track and field.

*Offered: Fall, even # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS267 • Coaching of Volleyball.** 1 Credits.

Advanced skills, strategy, techniques, and coaching philosophy of volleyball.

*Offered: Fall, even # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS269 • Coaching of Soccer.** 1 Credits.

Fundamental and advanced technical skills for coaching various age levels. Team tactics and concepts of different ability levels as well as development of a personal coaching philosophy.

*Offered: Fall, even # years. Special Notes: Recommended for students seeking the coaching minor.*

**HAS270 • Applied Nutrition and Physical Fitness.** 3 Credits.

Effects of nutrition on human performance, lifestyle, and reduction of chronic disease. Topics covered also include eating disorders, weight control, and society's effects on today's trends.

*Offered: Spring.*

**HAS279 • Introduction to Athletic Training.** 2 Credits.

An introduction to athletic training combining didactic and clinical learning experiences. Provides a basic understanding and working knowledge of athletic training room policies and procedures. Students begin completing clinical proficiencies as part of the clinical education program. Topics include injury management, therapeutic exercise and modalities, and pharmacology.

*Prerequisites: Sophomore class standing or consent of instructor. Offered: Fall.*

**HAS303KZ • Integrative Medicine in a Cross-Cultural Setting.** 3 Credits.

An introduction to the theories and practices of integrative medicine as a means to promote quality health and wellness. Students in this course are exposed to a variety of health models ranging from ancient Mayan practices to modern Western medical practices in order to develop a more holistic approach to health and well-being. Course is taught in Belize, Central America. Scientific theories include ethnobotany, psychoneuroimmunology, integrative nutrition, and biofeedback. Personal practices may include therapeutic touch, yoga, mindfulness, contemplative prayer, nature therapy, and healing effects of physical activity and movement.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally interim.*

**HAS306 • Administration of Athletics and Physical Education.** 2 Credits.

Theories, procedures, and problems involved in the administration of athletic and physical education programs at the interscholastic level and in fitness organizations.

*Offered: Fall, odd # years.*

**HAS314 • Foundations, Administration, and Evaluation of Health Education.** 3 Credits.

Introduces the health education and health promotion professions, including historical, philosophical, and theoretical foundations of health education. Explores theories of behavior change, the responsibilities of health educators, and investigates career opportunities. Examines the theoretical and practical basis for planning, implementing, administering, and evaluating health education programs.

*Prerequisites: HAS130. Offered: Spring.*

**HAS316 • Curriculum Development in Physical Education.** 3 Credits.

Curriculum theory, history, and philosophy. Procedures for translating theory into workable models for physical education, grades K–12, and non-school settings. Writing unit and lesson plans that reflect sequencing of content by students' developmental levels.

*Prerequisites: Sophomore standing. Offered: Spring, odd # years.*

**HAS318 • Epidemiology.** 2 Credits.

Study of distribution of health and disease in populations and its influential or determining factors. Examination of methodological and analytical techniques to summarize health-related indicators in populations. Focus on the tools and epidemiologic methods used to identify, prevent, and control disease and health-related conditions. Review of the epidemiology of many major diseases and health-related conditions.

*Prerequisites: HAS130; BIO104/104D or BIO122/122D; BIO238/239 or both BIO214/215 and BIO216/217. Offered: Fall, even # years.*

**HAS320 • Developmental and Adapted Physical Education.** 3 Credits.

Developmental, remedial, and corrective means to meet the needs of special students in grades K-12 and non-school settings. Emphasis on underlying principles of perceptual and motor development, and use of principles in programming for a variety of disabilities.

*Offered: Spring, odd # years.*

**HAS321 • Developmental and Adapted Field Experience.** 1 Credits.

Application of ideas from HAS320 in a 32-hour field experience with hours dispersed between school and community settings.

*Prerequisites: Sophomore standing. Corequisites: Should be taken concurrently with HAS320, but may be taken in a different term if necessary. Offered: Spring, odd # years. Special Notes: Times and locations are established by the HAS320 instructor.*

**HAS322 • Methods and Materials for Adapted Physical Activity.** 2 Credits.

Resources and methodology for teaching a wide variety of activities to individuals with disabilities. Resources include understanding of DAPE literature, family systems, and community services as they relate to the transition process. Methodology includes planning lessons, incorporating assistive devices, and utilizing assessment tools.

*Prerequisites: EDU250 or HAS320. Offered: Fall, odd # years.*

**HAS323 • Developmental and Adapted Physical Education Practicum.** 2 Credits.

Practical experience working alongside licensed professionals in the field to deliver services to special education students in their least restrictive and/or integrated environments. Students gain experience planning, leading, and assessing activities relative to IEP goals, and reflecting on their effectiveness.

*Prerequisites: EDU250 or HAS320. Offered: Fall, spring.*

**HAS325 • Prevention and Care of Athletic Injuries.** 3 Credits.

Techniques for prevention and care of athletic injuries. Practical experience in the athletic training room.

*Prerequisites: HAS120; BIO214/215 or BIO238/239. Offered: Spring.*

**HAS331 • Organization and Administration of Athletic Training.** 3 Credits.

Methods for planning, coordinating, and supervising all administrative components of an athletic training program pertaining to healthcare, financial management, training room management, personnel management, and public relations.

*Prerequisites: HAS325. Offered: Fall.*

**HAS332 • Advanced Athletic Training - Lower Extremity.** 3 Credits.

Advanced techniques for the evaluation and treatment of athletic injuries to the lower extremity.

*Prerequisites: HAS325; BIO214/215; BIO216/217. Offered: Fall.*

**HAS333 • Advanced Athletic Training - Upper Extremity.** 3 Credits.

Advanced techniques for the evaluation and treatment of athletic injuries to the upper extremity.

*Prerequisites: HAS325; BIO214/215; BIO216/217. Offered: Spring.*



**HAS335 • Clinical Experience in Athletic Training I.** 1 Credits.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training competencies.

*Prerequisites: Admission to athletic training program; HAS325. Offered: Fall.*

**HAS336 • Clinical Experience in Athletic Training II.** 1 Credits.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training skills.

*Prerequisites: HAS335. Offered: Interim.*

**HAS337 • Clinical Experience in Athletic Training III.** 1 Credits.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training competencies.

*Prerequisites: HAS336. Offered: Spring.*

**HAS340 • School Health and Drug Issues.** 3 Credits.

Examines the roles of teachers and schools in responding to adolescent health problems, with particular attention to health promotion, prevention, and referral, and to the unique role of the school health educator in this process. Topics include alcohol/drug use and abuse, mental health issues, eating disorders, violence, child abuse and neglect, and injuries. Emphasis on the characteristics of effective coordinated school health programs, including the development of comprehensive prevention curriculum.

*Offered: Spring.*

**HAS345 • Disease and Injury Control.** 2 Credits.

Analysis of chronic diseases, infectious diseases, and injuries from both personal and societal perspectives. Focuses on the prevention, identification, and control of diseases and injuries. Examines the relationship of health promotion and lifestyle to disease and injury.

*Prerequisites: HAS120; HAS130. Offered: Fall, odd # years.*

**HAS351 • Therapeutic Interventions I.** 3 Credits.

Various therapeutic modalities used in the treatment of sport-related injuries. Includes the use of thermal, electrical, light, and acoustical media as modalities for therapy. The physiological effects, clinical applications, and techniques for use are discussed for each modality. Includes practical experience.

*Prerequisites: HAS325. Offered: Fall.*

**HAS352 • Therapeutic Interventions II.** 3 Credits.

Design, implementation, and supervision of rehabilitation programs for sport-related injuries. Topics include reconditioning programs, manual therapy, and functional rehabilitation. Includes laboratory experience in the various techniques used in therapeutic exercise.

*Prerequisites: HAS325. Offered: Spring.*

**HAS360 • Advanced Emergency Care.** 3 Credits.

A comprehensive course for the healthcare practitioner who must initially evaluate and stabilize a physically active individual in a trauma situation. Teaches rapid assessment, resuscitation, packaging, and transportation of the ill or injured.

*Prerequisites: HAS325. Offered: Spring.*

**HAS375 • Biomechanics.** 3 Credits.

Mechanics of sports performance and anatomical kinesiology. Newtonian mechanics, types of motion, application of force, maintenance of equilibrium, and fluid dynamics.

*Prerequisites: BIO214/215 or BIO238/239; Mathematics (M) course. PHY102/102D and HAS247 recommended. Offered: Fall, spring.*

**HAS376 • Exercise Physiology and Assessment.** 3 Credits.

Basic principles of measurement and evaluation, particularly as they relate to physiological training and adaptation in the context of physical education instruction for normal and special populations.

*Prerequisites: BIO238/239. Offered: Fall.*

**HAS379 • Integrative Human Physiology.** 3 Credits.

Examination of how normal human physiological function (homeostasis) is altered, and subsequently restored, in response to various forms of acute and chronic stress.

*Prerequisites: BIO214/215; BIO216/217. Offered: Fall, spring.*

**HAS386 • Pathology and Medical Cond.** 3 Credits.

The study of physiological responses of human growth and development and the progression of injuries, illnesses, and diseases. Included is the recognition, treatment, and appropriate referral for general medical conditions and disabilities of athletes and others involved in physical activity.

*Prerequisites: BIO214/215 and BIO216/217 or equivalent. Offered: Fall.*

**HAS399 • Physiological Assessment.** 4 Credits.

Applied techniques in the measurement of exercise bioenergetics, neuromuscular performance, cardiorespiratory fitness, and other health components. Particular emphasis is given to the knowledge necessary for exercise testing certifications and development of fitness testing skills.

*Prerequisites: HAS379 (may be taken concurrently). Offered: Spring.*



**HAS420 • Athletic Coaching Practicum.** 2 Credits.

A practical coaching experience in an off-campus setting, applying knowledge and skill proficiency under dual supervision of a professional coach at Bethel and an on-site professional coach. Designed by the student in consultation with a staff or faculty person.

*Prerequisites:* Minor in athletic coaching; senior standing or consent of instructor. Offered: Fall, interim, spring.

**HAS436 • Clinical Experience in Athletic Training IV.** 1 Credits.

Clinical experiences at an off-campus clinical affiliate site designed to provide athletic training students the opportunity to practice, refine, and master previously learned psychomotor and cognitive athletic training competencies.

*Prerequisites:* HAS337; senior standing. Offered: Fall, interim, spring.

**HAS439 • Clinical Experience in Athletic Training V.** 3 Credits.

Acquire 320+ hours of athletic training experience working with a Bethel University athletic team for a complete season of competition, under the supervision of an athletic training program preceptor.

*Prerequisites:* HAS337. Offered: Fall, interim, spring.

**HAS440 • Essentials of Strength Training and Conditioning.** 3 Credits.

The design, evaluation, and implementation of strength training and conditioning programs. Content includes background in exercise science, nutrition, exercise techniques, testing and evaluation, and administration. Helps students prepare for fitness industry certification exams such as the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist credential (CSCS).

*Prerequisites:* BIO216/217, BIO238/239, or permission of instructor. Offered: Fall.

**HAS445 • Advanced Laboratory Techniques in Biokinetics.** 3 Credits.

Collection, interpretation, and prescription of human subjects data will be conducted. Activities focus on how to work in a dynamic laboratory and refine and master previously learned assessment skills.

*Prerequisites:* HAS399. Offered: Fall.

**HAS450 • Physiology and Interventions in Disabilities and Chronic Disease.** 3 Credits.

Examination of the physiology of various diseases and how exercise is used as a therapeutic regimen to prevent or often reverse disease pathology. Interactions of lifestyle modification, exercise, and medications are examined. Advanced electrocardiogram (ECG) recognition and testing are addressed.

*Prerequisites:* HAS399. Offered: Fall.

**HAS453 • Therapeutic Interventions III.** 3 Credits.

A broad range of therapeutic interventions including pharmacology, psychosocial strategies, and appropriate referral methods are incorporated into this course. Interventions are designed to enhance function by identifying, mediating, and preventing impairments and activity restrictions to maximize participation.

*Prerequisites:* PSY100. Offered: Fall.

**HAS478 • Senior Seminar in Athletic Training.** 3 Credits.

A capstone course in which students study and implement competencies in professional development and responsibility, as well as evidence-based medicine. Students complete and present an in-depth, evidence-based medicine research project. Aids student preparation for the Board of Certification Exam in Athletic Training.

*Prerequisites:* Admission to the athletic training education program. Offered: Spring.

**HAS481 • Internship in Human Kinetics and Applied Health Science.** 1-4 Credits.

A practical experience in an off-campus setting in applying academic knowledge and professional skills under the dual supervision of a faculty member and a practicing professional. Designed by student in consultation with a faculty member.

*Prerequisites:* Major in biokinetics. (Biokinetics students: HAS399 or consent of instructor.) Offered: Fall, spring. *Special Notes:* Application must be made at least one semester prior to the intended experience.

**HAS498 • Senior Seminar in Biokinetics.** 3 Credits.

Requires reading, writing, discussion, and accumulation of clinical hours in the Exercise Medicine and Prevention Center on pertinent topics in applied health sciences. In addition, an introduction of areas such as client interaction and clinic administration are examined.

*Prerequisites:* HAS445; major in biokinetics; senior standing. Offered: Spring.

## B.A. in Athletic Training

HAS120	First Aid	1
HAS250M	Statistics and Research Methods in Applied Health Sciences <sup>1</sup>	3
HAS270	Applied Nutrition and Physical Fitness	3
HAS279	Introduction to Athletic Training <sup>2</sup>	2
HAS325	Prevention and Care of Athletic Injuries <sup>2</sup>	3
HAS331	Organization and Administration of Athletic Training <sup>2</sup>	3
HAS332	Advanced Athletic Training - Lower Extremity <sup>2</sup>	3
HAS333	Advanced Athletic Training - Upper Extremity <sup>2</sup>	3
HAS335	Clinical Experience in Athletic Training I <sup>2</sup>	1

HAS336	Clinical Experience in Athletic Training II <sup>2</sup>	1
HAS337	Clinical Experience in Athletic Training III <sup>2</sup>	1
HAS351	Therapeutic Interventions I <sup>2</sup>	3
HAS352	Therapeutic Interventions II <sup>2</sup>	3
HAS360	Advanced Emergency Care <sup>2</sup>	3
HAS375	Biomechanics	3
HAS379	Integrative Human Physiology	3
HAS386	Pathology and Medical Cond <sup>2</sup>	3
HAS436	Clinical Experience in Athletic Training IV <sup>2</sup>	1
HAS439	Clinical Experience in Athletic Training V <sup>2</sup>	3
HAS453	Therapeutic Interventions III <sup>2</sup>	3
HAS478	Senior Seminar in Athletic Training <sup>2</sup>	3
Select one of the following sequences:		4
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1,3</sup>	
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1,3</sup>	
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	4
BIO216 & BIO217	Human Physiology and Human Physiology Lab	4
PEA118Q	Beginning Weight Training <sup>1</sup>	1
PSY100	Introduction to Psychology	3
General Education		51-52
Electives		3-4
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> This course must be completed in residence at Bethel University.

<sup>3</sup> Students interested in pre-professional programs (PT, PA, OT, etc.) should take BIO120/BIO121 or BIO122/BIO122D instead of BIO104/BIO104D. Students should consult their health professions advisor at Bethel for assistance regarding additional courses required for graduate school.

The Bethel University Athletic Training Program (ATP) is accredited by the Commission on Accreditation of Athletic Training Education Programs (CAATE) and is designed to prepare students for the Board of Certification (BOC) exam and for careers as certified athletic trainers.

Students planning to complete the course of study in athletic training must apply to the Athletic Training Program (ATP) in the fall of their sophomore year. Enrollment may be limited due to constraints of clinical settings. **Students may not graduate with the athletic training major without completing all clinical requirements for the ATP.**

## Requirements for Admission

Because of the limited opportunities for clinical experience in the Bethel University ATP, a selection process is necessary to identify the most appropriate candidates for the available positions. A selection committee will evaluate each candidate based on overall GPA, GPA in the prerequisite courses, personal interviews with the selection committee, written application materials, and letters of recommendation. The number of students accepted into the ATP each year is dependent upon the constraints of clinical settings and the number of clinical preceptors available.

Application packets are available in the Human Kinetics and Applied Health Science office by November 1. Each candidate must have all application materials, including personal reference forms, on file in the program director's office by January 7. Selections are made in January, and successful candidates begin their clinical experiences in February.

Along with submitting the application materials, the candidate must also meet the following minimum requirements to be considered for admission to the Athletic Training Education Program:

1. Attain a minimum 2.5 cumulative GPA.
2. Complete HAS120; HAS279; BIO104/BIO104D, BIO120/BIO121, or BIO122/BIO122D; BIO214/BIO215.
3. Complete observation requirements (listed separately) and submit with application.
4. Submit transcripts of all colleges and/or universities attended to the program director.

5. Commit to a minimum of five semesters for the completion of coursework and clinical experiences.
6. Provide proof of a physical exam on file at Bethel University Health Services.
7. Provide proof of Hepatitis B vaccination or signed waiver.
8. Submit signed Technical Standards for Admission form. This form is included in the application packet and can be viewed at [bethel.edu/undergrad/academics/athletic-training/majors-minors/athletic-training](https://www.bethel.edu/undergrad/academics/athletic-training/majors-minors/athletic-training) (<https://www.bethel.edu/undergrad/academics/athletic-training/majors-minors/athletic-training>).

Progression:

Students admitted to the ATP must meet Bethel University requirements for academic progress. In addition, a student must:

1. Maintain a cumulative GPA of 2.5 and a 2.75 GPA in major courses.
2. Maintain current certification in American Red Cross CPR/AED for the Professional Rescuer.
3. Become and remain a student member in the National Athletic Trainers Association.
4. Earn a grade no lower than C in any major course.
5. Complete clinical requirements as outlined in the ATP Student Manual and the Athletic Training Program webpage.  
Note: There will be additional expenses (above tuition and fees) associated with clinical rotations. Expenses may include, but are not limited to, personal background check, physical examination and immunizations, professional conference fees, and uniforms. Each student will have a minimum of one off-campus clinical experience. Transportation is necessary to all off-campus clinical sites. Students must be available nights and weekends for clinical assignments.
6. Operate within the NATA Code of Ethics and the guidelines of the ATP Student Manual.

## B.A. in Health Education 5-12

HAS120	First Aid	1
HAS130	Personal and Community Health	3
HAS314	Foundations, Administration, and Evaluation of Health Education	3
HAS318	Epidemiology	2
HAS340	School Health and Drug Issues	3
HAS345	Disease and Injury Control	2
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	4
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU422	Curriculum and Methods of 5-12 Health Education	3
EDU423	Middle Level Education Practicum in Health	1
EDU490	Student Teaching Block	15
GES208	Human Sexuality	3
General Education		51-52
Electives		11-12
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Students must earn a grade of C or better in each course in the major (HAS, BIO, EDU, GES). Courses with grades of C- or lower must be repeated.

Students with K-12 licensure in Health Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.A. in Physical Education K-12

HAS120	First Aid	1
HAS130	Personal and Community Health	3
HAS200Q	Professional Activities I <sup>2,3</sup>	4
HAS201	Foundations of Physical Education	2
HAS210	Professional Activities II <sup>3</sup>	3
HAS215	Professional Activities III	2
HAS220A	Educational Rhythms <sup>1</sup>	3
HAS247	Motor Development and Learning	3
HAS306	Administration of Athletics and Physical Education	2
HAS316	Curriculum Development in Physical Education	3
HAS320	Developmental and Adapted Physical Education	3
HAS321	Developmental and Adapted Field Experience	1
HAS340	School Health and Drug Issues	3
HAS375	Biomechanics	3
HAS376	Exercise Physiology and Assessment	3
Select one of the following sequences:		4
BIO100 & 100D	Principles of Biology and Principles of Biology Lab <sup>2</sup>	
BIO104 & 104D	Human Biology and Human Biology Lab <sup>2</sup>	
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>2</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU424	Methods in Teaching K-12 Physical Education	3
EDU425	Middle Level Practicum in Physical Education	1
EDU490	Student Teaching Block	15
General Education		51-52
<b>Total Credits</b>		<b>133-134</b>

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 125-126 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>3</sup> Students lacking competency in motor skills may be required to take additional one-credit Leisure and Lifetime Sports courses to improve their performance level.

Students must earn a grade of C or better in each content area and education course (HAS, BIO, EDU) in the major. Courses with grades of C- or lower must be repeated.

Students with K-12 licensure in Physical Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## Developmental and Adapted Physical Education (DAPE) Endorsement

Eligible students include those completing the Physical Education K-12 major concurrently as well as those already licensed in Physical Education K-12. The requirements listed below include only the courses required for the DAPE licensure that are not already part of Bethel's Physical Education K-12 major. Those adding the DAPE endorsement to an existing Physical Education K-12 license should contact the department to determine if additional courses are required.

## Developmental and Adapted Physical Education (DAPE)

EDU250	Educating the Exceptional Child	3
HAS322	Methods and Materials for Adapted Physical Activity	2
HAS323	Developmental and Adapted Physical Education Practicum	2
PSY330	Disabilities and Giftedness	4

### Total Credits

11

## B.S. in Biokinetics

HAS120	First Aid	1
HAS247	Motor Development and Learning	3
HAS250M	Statistics and Research Methods in Applied Health Sciences <sup>1</sup>	3
HAS270	Applied Nutrition and Physical Fitness	3
HAS325	Prevention and Care of Athletic Injuries	3
HAS375	Biomechanics	3
HAS379	Integrative Human Physiology	3
HAS399	Physiological Assessment	4
HAS445	Advanced Laboratory Techniques in Biokinetics	3
HAS450	Physiology and Interventions in Disabilities and Chronic Disease	3
HAS481	Internship in Human Kinetics and Applied Health Science	3
HAS498	Senior Seminar in Biokinetics	3
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	4
BIO216 & BIO217	Human Physiology and Human Physiology Lab	4
CHE113 & 113D	General Chemistry I and General Chemistry I Lab <sup>1</sup>	4
PSY100	Introduction to Psychology	3
Select one emphasis from the Emphases tab		10-12
General Education		51-52
Electives (4 credits must be at 300 level or above)		11-16

### Total Credits

122-130

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Students must earn a grade of C or better in each course in the major (HAS, BIO, CHE, PHY, PSY). Courses with grades of C- or lower must be repeated.

## Human Bioenergetics

CHE214 & CHE215	General Chemistry II and General Chemistry II Lab	4
Select one of the following sequences: <sup>2</sup>		4
BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	
Select one of the following sequences:		4
PHY102 & 102D	Concepts in Physics and Concepts in Physics Lab <sup>1</sup>	
PHY202 & 202D	Introductory Physics I and Introductory Physics I Lab <sup>1</sup>	

### Total Credits

12

## Exercise Science

Select one of the following sequences:

4

BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	
BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	
HAS130	Personal and Community Health	3
HAS440	Essentials of Strength Training and Conditioning	3
<b>Total Credits</b>		<b>10</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Students interested in pre-physical therapy, pre-physician's assistant, pre-medicine, and/or other healthcare professional programs should complete the Human Bioenergetics emphasis and take BIO122/BIO122D and PHY202/PHY202D. They should also consult the health professions advisor at Bethel for additional courses that may be required dependent upon the graduate physical therapy program they choose.

## Minor in Athletic Coaching

HAS120	First Aid	1
HAS261	Theory and Practice of Coaching	4
HAS325	Prevention and Care of Athletic Injuries	3
HAS375	Biomechanics	3
HAS420	Athletic Coaching Practicum	2
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
Select two of the following:		2
HAS262	Coaching of Baseball	
HAS263	Coaching of Basketball	
HAS264	Coaching of Football	
HAS265	Coaching of Hockey	
HAS266	Coaching of Track and Field	
HAS267	Coaching of Volleyball	
HAS268		
HAS269	Coaching of Soccer	
Select one of the following sequences:		4
BIO100 & 100D	Principles of Biology and Principles of Biology Lab <sup>1</sup>	
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	
BIO118 & 118D	General Biology and General Biology Lab <sup>1</sup>	
<b>Total Credits</b>		<b>23</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Community Health

HAS120	First Aid	1
HAS130	Personal and Community Health	3
HAS314	Foundations, Administration, and Evaluation of Health Education	3
Select either the first sequence or both the second and third:		4
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	
BIO216 & BIO217	Human Physiology and Human Physiology Lab	

Select either HAS340 or two of the other courses: 3-4

HAS340	School Health and Drug Issues	
HAS318	Epidemiology	
HAS345	Disease and Injury Control	
EDU203	School Health and Drugs	

Select one of the following sequences: 4

BIO100 & 100D	Principles of Biology and Principles of Biology Lab <sup>1</sup>	
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	

**Total Credits** 18-19

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Health Education

HAS120	First Aid	1
HAS130	Personal and Community Health	3
HAS314	Foundations, Administration, and Evaluation of Health Education	3
HAS340	School Health and Drug Issues	3
EDU422	Curriculum and Methods of 5-12 Health Education	3

Select one of the following sequences: 4

BIO100 & 100D	Principles of Biology and Principles of Biology Lab <sup>1</sup>	
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	
BIO238 & BIO239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4

**Total Credits** 21

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

As of September 1, 2001, the Minnesota Board of Teaching requires a major in Health Education 5-12 for licensure. Health endorsements will no longer be issued in Minnesota.

While the Minnesota Board of Teaching does not acknowledge minors, this minor is offered for students who anticipate teaching in a state that does acknowledge minors.

## Minor in Physical Education

HAS120	First Aid	1
HAS130	Personal and Community Health	3
HAS200Q	Professional Activities I <sup>1</sup>	4
HAS201	Foundations of Physical Education	2
HAS210	Professional Activities II	3
HAS215	Professional Activities III	2
Electives from 300 level or above physical education courses		5

**Total Credits** 20

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Completion of this minor will not result in a Minnesota physical education teaching license.

## Leadership Studies



## Minor in Leadership Studies

- Leadership Studies (p. 162)

### LEA100N • Leadership Essentials. 3 Credits.

An introduction to leadership with a focus on effective characteristics and practices of leadership theories, leadership styles, core leadership competencies, individual self-discovery, management, followership, and integration of faith and leadership. Opportunities given for students to identify, clarify, and develop individual leadership skills and abilities.

*Offered: Fall, spring.*

### LEA200 • Leading Teams. 3 Credits.

Explores effective leadership of teams, focusing on how teams interact and how effective leaders navigate opportunities and challenges of leading teams. Opportunities for creating teams in class are provided for students to explore the dynamics of team development and to grow and develop their own team leadership skills.

*Prerequisites: LEA100. Offered: Occasionally fall, spring.*

### LEA300 • Leadership of Organizations. 3 Credits.

Leadership within organizational contexts; how organizations operate and provide opportunities and challenges for leaders; demands of collaborative leadership; organizational change and leaders' means of guiding it; leadership within Christian organizations and contexts.

*Prerequisites: LEA200. Offered: Fall, occasionally spring.*

### LEA350 • Leadership Practicum and Seminar. 4 Credits.

The leadership practicum experience provides opportunities for students to learn about the practical aspects of leadership by applying theories and concepts from their academic classes to field-based learning settings. Placement sites are chosen to complement the student's major and career interests. Includes a weekly seminar.

*Prerequisites: LEA300 (may be taken concurrently); consent of instructor. Offered: Occasionally fall, spring.*

### LEA351 • Leadership Seminar. 1 Credits.

Provides opportunities for students to learn the practical aspects of leadership by applying theories and concepts from their academic experiences to their discipline-specific internship.

*Prerequisites: LEA100N; LEA300; consent of instructor; internship within a major (may be taken concurrently). Offered: Fall, spring.*

## Minor in Leadership Studies

Select one of the following:		3
LEA100N	Leadership Essentials <sup>1</sup>	
AFROTC	Leadership Studies I <sup>2</sup>	
LEA200	Leading Teams	3
Select one of the following:		3
LEA300	Leadership of Organizations	
AFROTC: Leadership Studies II <sup>2</sup>		
Select one of the following:		3-4
LEA350	Leadership Practicum and Seminar	
An approved internship course		
AFROTC	Field Training <sup>2</sup>	
Select one of the following:		1
LEA351	Leadership Seminar	
A seminar course in business		
GES409P	Christian Leadership in a Secular World <sup>1</sup>	3
or GES453P	Ethics and Faith in the Workplace	
Select one of the following:		3
COM220	Group Communication	
COM248	Organizational Communication	
COM370	Interpersonal Communication	
<b>Total Credits</b>		<b>19-20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> These requirements are fulfilled through the Aerospace Studies Program (AFROTC) at the University of St. Thomas. Students choosing this option must take at least one four-credit option in one of the remaining three choose-from categories in order to earn the minimum 18 credits required for the Leadership Studies minor.

# Mathematics

The major in mathematics prepares students for a variety of careers through a balance of theoretical and practical coursework. Theoretical study begins with discrete mathematics and continues through linear algebra, algebraic structures, real analysis, topics in mathematics, and foundations of mathematics. Problem-solving and mathematical modeling skills are honed through the calculus sequence of courses, differential equations, probability and statistics, numerical methods, and operations research. Practical computing skills are developed by using advanced software in many courses and through introductory programming courses. Students who wish to teach mathematics in grades 5-12 may also include coursework designed specifically to satisfy state licensure requirements. Electives and advising are available for students preparing for graduate school or for math-oriented careers such as the actuarial sciences.

**Advanced Placement:** The math department requires a score of 4 or better on the AP exam in order for the exam to be used to fulfill course requirements in the majors and minors it offers. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements. Students should consult the department chair with questions on AP exams and requirements for majors.

## Majors in Mathematics

- B.A. in Mathematics (p. 165)
- B.A. in Mathematics with Education 5-12 Licensure (p. 165)

## Minor in Mathematics

- Mathematics (p. 166)

### **MAT101M • Mathematics for the 21st Century.** 3 Credits.

Mathematical ideas that a liberally educated person should be familiar with in order to function well in a technological society.

*Prerequisites:* Two years of high school algebra, including logarithms and exponential functions. *Offered:* Fall, spring.

### **MAT102M • Creative Problem Solving.** 3 Credits.

An opportunity to learn to use creative thinking and intuition to gain confidence in understanding and solving some intriguing problems in mathematics.

*Prerequisites:* High school algebra and geometry. *Offered:* Interim.

### **MAT123M • Precalculus.** 3 Credits.

Mathematics topics required for MAT124M or for further study in the natural sciences. Equations and inequalities; graphs of functions and relations; polynomial, rational, exponential, logarithmic functions; trigonometric functions, identities, equations, and applications.

*Prerequisites:* Two years of high school algebra; satisfy math department placement requirements. *Offered:* Fall, spring.

### **MAT124M • Calculus 1.** 4 Credits.

A mathematical foundation for future college courses and beyond. An introduction to the concepts and methods of the derivative and the integral, and a demonstration of how they are applied in real-world modeling situations. Topics are examined graphically, numerically, and algebraically, including using a symbolic computer algebra system to aid with understanding.

*Prerequisites:* MAT123M or equivalent high school or college course(s); satisfy math department placement requirements. *Offered:* Fall, spring.

### **MAT125 • Calculus 2.** 4 Credits.

A continuation of the equipping of students with tools for effective problem solving. Study of integration, sequences and series, and introduction to differential equations and approximation techniques. Each topic is approached from several viewpoints (graphical, numerical, algebraic) to involve students with different learning styles.

*Prerequisites:* MAT124M. *Offered:* Fall, spring.

### **MAT201M • Mathematics for Elementary Education 1.** 3 Credits.

Introduction to problem solving; patterns and sequences; systems of numeration; sets and logic; concepts, operations, and algorithms for each subset of the real numbers; elementary number theory; concepts and applications of ratios, proportions, and percents.

*Prerequisites:* Major in elementary education; passing score on the MAT201M pre-test, a score of at least 23 on the math portion of the ACT, or a score of at least 519 on the math portion of the SAT. *Offered:* Fall, spring. *Special Notes:* MAT201M may not be used to fulfill the requirements for a major or minor in mathematics.

### **MAT202 • Mathematics for Elementary Education 2.** 3 Credits.

Problem-solving and reasoning strategies; algebraic expressions, equations, and functions; data analysis, statistics, combinations/permutations, and probability; concepts and applications of two- and three-dimensional geometry and measurement.

*Prerequisites:* Grade of C or higher in MAT201M. MAT202 may not be used to fulfill the requirements for a major or minor in mathematics. *Offered:* Fall, spring.

### **MAT207M • Statistical Analysis.** 3 Credits.

Descriptive statistics. Discrete probability spaces, random variables, and distributions. Normal distribution, statistical inference, estimation, hypothesis testing, linear regression, correlation analysis, and analysis of variance. Applications to business, economics, and science.

*Offered:* Fall, interim, spring. *Special Notes:* Students may not receive credit for both MAT207M and PSY230M.

**MAT211 • Linear Algebra.** 3 Credits.

Linear systems, matrices, vectors and vector spaces, linear transformations, inner products, norms, eigenvalues and eigenvectors, orthogonality, and applications. Provides a foundation for many areas of study in mathematics, computer science, engineering, and science.

*Prerequisites:* MAT125 or MAT241. *Offered:* Spring.

**MAT222 • Differential Equations.** 3 Credits.

Analytic solution methods for ordinary differential equations, including special methods for first- and second-order systems, and transformation methods. Analysis of systems of differential equations using linear algebra and qualitative phase plane techniques.

*Prerequisites:* MAT125. MAT223 strongly recommended. *Offered:* Spring.

**MAT223 • Multivariable Calculus.** 3 Credits.

Differential calculus of real functions on  $\mathbb{R}^n$ : limits, continuity, partial and directional derivatives, mean value theorem, implicit functions, Taylor's Theorem, and optimization techniques (including Lagrange multipliers). Multiple integral theory: change of variables, iterated integrals, and line integration (Green's Theorem).

*Prerequisites:* MAT125. *Offered:* Fall, spring.

**MAT241 • Discrete Mathematics.** 3 Credits.

Covers a collection of topics useful to mathematics and computer science majors. The unifying factor is that the topics deal mainly with finite collections of mathematical objects (graphs, trees, finite state machines, etc.). Also includes examination of sets, logic, Boolean algebras, proof techniques, algorithm analysis, counting, and recursion.

*Prerequisites:* MAT124M. *Offered:* Fall.

**MAT310 • Algebraic Structures.** 4 Credits.

Study of groups, rings, fields, and applications of these algebraic structures from a firm axiomatic foundation with a strong emphasis on properly written proofs.

*Prerequisites:* MAT211. *Offered:* Spring.

**MAT330 • Probability and Statistics.** 3 Credits.

Discrete and continuous probability spaces, distribution and density functions, random variables, sampling, expectation, estimation, and hypothesis testing.

*Prerequisites:* MAT125. *Offered:* Fall.

**MAT331 • Applied Statistics.** 3 Credits.

Linear and multilinear regression. Factor analysis, including analysis of variance and experimental design.

*Prerequisites:* MAT330 or consent of instructor. *Offered:* Spring, even # years.

**MAT344 • Numerical Methods.** 3 Credits.

Numerical methods for solving systems of linear equations, finding roots and fixed points, approximating data and functions, numerical integration, finding solutions to differential equations.

*Prerequisites:* MAT211 or MAT222. *Recommended:* COS105 or COS205. *Offered:* Fall. *Special Notes:* Carries cross-credit in computer science.

**MAT351 • Modern Geometry.** 3 Credits.

A survey of informal and formal geometric topics. Investigation of concepts, structure, proof, Euclidean, non-Euclidean, and transformational geometry.

*Prerequisites:* MAT241 or consent of instructor. *Offered:* Fall, even # years. *Special Notes:* Designed for students seeking licensure to teach math in grades 5-12.

**MAT376 • Operations Research.** 3 Credits.

Mathematical techniques used in systems analysis, including linear programming, simulation techniques, and other topics such as transportation models, integer programming, and network analysis.

*Prerequisites:* COS105 or COS205; MAT211. *Offered:* Fall, odd # years.

**MAT422 • Real Analysis.** 3 Credits.

Elementary set theory, properties of real numbers, functions of real variables, sequences, series, Riemann and Stieltjes integration, and introduction to normed linear spaces.

*Prerequisites:* MAT223; MAT310. *Offered:* Fall.

**MAT425 • Topics in Mathematics.** 3 Credits.

A seminar designed to provide an in-depth experience with a specific field of mathematics. Topics vary from semester to semester and include logic, number theory, dynamical systems, chaos and fractals, complex analysis, partial differential equations and Fourier analysis, intermediate probability and statistics, combinations, and topology.

*Corequisites:* MAT310 or consent of instructor. *Offered:* Spring, odd # years.

**MAT499 • Foundations of Mathematics.** 3 Credits.

A short history of mathematics' major transition points, overview of foundations of mathematics, axiomatic structures, and philosophies of mathematics.

*Prerequisites:* Major in mathematics; senior standing. *Offered:* Interim.

## B.A. in Mathematics

MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT211	Linear Algebra	3
MAT222	Differential Equations	3
MAT223	Multivariable Calculus	3
MAT241	Discrete Mathematics	3
MAT310	Algebraic Structures	4
MAT330	Probability and Statistics	3
MAT422	Real Analysis	3
MAT425	Topics in Mathematics	3
MAT499	Foundations of Mathematics	3
COS100	Introduction to Programming	3
COS105	Computer Science 1	4
Select two of the following:		6
MAT331	Applied Statistics	
MAT344	Numerical Methods	
MAT376	Operations Research	
General Education		51-52
Electives		22-23
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Mathematics with Education 5-12 Licensure

### Major in Mathematics with Education 5-12 Licensure (B.A.) <sup>1</sup>

MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT211	Linear Algebra	3
MAT223	Multivariable Calculus	3
MAT241	Discrete Mathematics	3
MAT310	Algebraic Structures	4
MAT330	Probability and Statistics	3
MAT351	Modern Geometry	3
MAT422	Real Analysis	3
MAT499	Foundations of Mathematics	3
COS100	Introduction to Programming	3
COS105	Computer Science 1	4
Select one of the following:		3
MAT331	Applied Statistics	
MAT344	Numerical Methods	
MAT376	Operations Research	
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU411	Mathematics Education Practicum in grades 5-8 or 5-12	1

EDU412	Methods in Teaching 5-12 Mathematics	3
EDU490	Student Teaching Block	15
General Education		51-52
<b>Total Credits</b>		<b>131-132</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Because of possible double counting between General Education and the major, the actual total can be reduced to 125-126 credits.

Students must earn a grade of *C* or better in each content area and education course (MAT, COS, EDU) in the major. Courses with grades of *C*- or lower must be repeated.

Students with K-12 licensure in Mathematics Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## Minor in Mathematics

MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT211	Linear Algebra	3
Electives from 200-level or above in mathematics courses or PHY320 Mathematical Methods in Physics and Engineering (excluding MAT201M, MAT202, and MAT207M)		9
<b>Total Credits</b>		<b>20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Modern World Languages

The Department of Modern World Languages equips students to be culturally responsive and linguistically competent professionals. Our department prepares graduates to understand, interact with, and serve with people from other cultures. Students learn to see God's diverse world from new perspectives and become globally aware graduates prepared to culturally engage with communities from a thoughtful, Christian perspective. Courses in the department include language, culture, history, literature, and current issues. Students can choose from American Sign Language (ASL), Chinese, French, and Spanish. Majors are offered in Linguistics, Spanish, and Teaching English as a Foreign Language (TEFL). Majors leading to Minnesota licensure to teach include Spanish K-12 (licensure in world languages and cultures) and teaching English as a second language K-12 (TESL). Programs in the Department of Modern World Languages complement majors and minors from many other departments.

## Linguistics

The major in linguistics is offered in collaboration with the Summer Institute of Linguistics–University of North Dakota (SIL-UND), the organization that provides training in linguistics for Wycliffe translators and missionaries. Three years of coursework are completed on the Bethel campus and two summers at SIL-UND in Grand Forks, N.D. Students majoring in linguistics can pursue opportunities in many fields, such as: translation, literacy program design, education, writing, research, and community development.

## Study Abroad

The Department of Modern World Languages requires all language and language education majors to live, study, or teach outside the United States for a semester during their sophomore or junior year. Students majoring in TESL or TEFL are required to teach English abroad for at least three weeks. Bethel offers semester-long programs in Guatemala and Spain (see Off-Campus programs section of this catalog) or students may work with the Office of Off-Campus Programs and the modern world languages department to select other programs abroad. In addition, students can participate in interim courses in Spanish-speaking countries.

## Placement Evaluation

Prior to enrolling in a language course at Bethel, all students who have previously taken two or more years of the language at the high school level must complete a placement exam given by the department. Prerequisites for the course in which the student places will be waived upon petition. Students wishing to receive credit toward graduation for the courses that have been waived may do so through credit by examination (AP or CLEP) for a fee. Credits earned through examination do not count as electives in the major or minor in any of the world languages offered at Bethel.

Students transferring in college-level credits in the language to be studied may continue with the next course in the sequence at Bethel upon consultation with the department, but may choose to take the placement test to ensure they enroll in the appropriate course for their language skills.

## Language Evaluation

Students may fulfill Bethel's language requirement by:

1. Completing the second semester of the first year of a (beginning or introductory) college-level language class or higher with a passing grade at Bethel University (e.g., SPA102S Introductory Spanish II or higher course into which student is placed).
2. Completing the second semester of a first-year (introductory or beginning) college-level language class or higher with grade of C or higher at another college/university (any language other than English).
3. Earning a score of 3 or better on an Advanced Placement language exam or a score of 50 or better on a language CLEP test.

(See the Academic Information section of this catalog under the General Education Program for further information about the language requirement.)

## Majors in Modern World Languages

- B.A. in Linguistics (p. 170)
- B.A. in Spanish (p. 171)
- B.A. in Spanish Education K-12 (Licensure in World Languages and Cultures) (p. 172)
- B.A. in Teaching English and a Foreign Language (TEFL) (p. 173)
- B.A. in Teaching English as a Second Language (TESL) K-12 (p. 174)

## Minors in Modern World Languages

- Linguistics (p. 175)
- Spanish (p. 176)
- Teaching English to Speakers of Other Languages (TESOL) (p. 177)

### **ASL101 • Introductory American Sign Language I.** 4 Credits.

Designed for students who have no knowledge of American Sign Language (ASL) to allow them to function comfortably in a variety of communication situations. Focuses on development of visual readiness skills and expressive and receptive skills in basic ASL. Includes introduction to conversational vocabulary, fingerspelling, grammatical principles, and syntax. Information related to deaf culture is included.

*Offered: Fall, spring.*

### **ASL102S • Introductory American Sign Language II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of ASL. Further study of the history and culture of the deaf community through films, discussions, and readings.

*Prerequisites: ASL101 or placement exam. Offered: Fall, spring.*

### **CHI101 • Introductory Chinese I.** 4 Credits.

Development of listening, speaking, reading, and writing skills with an emphasis on promoting communicative competency in Chinese. Opportunities for meaningful communications in Mandarin Chinese.

*Offered: Fall.*

### **CHI102S • Introductory Chinese II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of the Chinese language. Further study of Chinese history and culture through films, discussions, and readings.

*Prerequisites: CHI101 or placement exam. Offered: Spring.*

### **CHI201 • Intermediate Chinese I.** 4 Credits.

Synthesis and expansion of comprehensive knowledge, grammar, and oral and written communication skills useful in daily interactions. Further development of understanding Chinese culture and societies, and preparation for possible study abroad experience.

*Prerequisites: CHI102S or placement exam. Offered: Occasionally.*

### **FRE101 • Introductory French I.** 4 Credits.

Listening, speaking, reading, and writing. Opportunities for oral practice encourage actual communication in French. Use of internet resources familiarizes students with the French-speaking cultures of the world.

*Prerequisites: No more than one year of high school French or placement exam. Offered: Fall.*

### **FRE102S • Introductory French II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of the French language. Further study of French history and culture through films, discussions, and readings.

*Prerequisites: FRE101 or placement exam. Offered: Spring.*

**LIN210Z • Introduction to Second Language Acquisition.** 3 Credits.

Study of current research and theories of second language acquisition in children and adult learners. Examination of second language learning process and variables that affect second language acquisition. Classroom strategies include differentiating instruction for all language learners. Service learning experience required.

*Offered: Fall, spring.*

**LIN300 • Introduction to Linguistics.** 3 Credits.

A study of three major areas of linguistics: 1) articulatory phonetics, phonology, morphology, and syntax (how units of sound are structured into larger units, forming words and sentences); 2) sociolinguistics (how language functions in society); and 3) psycholinguistics (how children and adults acquire language).

*Prerequisites: Two college semesters of a second language or equivalent proficiency. Offered: Fall. Special Notes: Taught in English.*

**SPA101 • Introductory Spanish I.** 4 Credits.

Listening, speaking, reading, and writing. Opportunities for oral and written practice encourage actual communication in Spanish.

*Prerequisites: No more than one year of high school Spanish or placement exam. Offered: Fall, spring.*

**SPA102S • Introductory Spanish II.** 4 Credits.

Continuation of functional and practical understanding and communicative use of the Spanish language. Further study of Spanish history and culture through films, discussions, and readings.

*Prerequisites: SPA101 or placement exam. Offered: Fall, spring.*

**SPA120A • Photography in Spain.** 3 Credits.

Technical and conceptual acquaintance with the medium of photography and its vocabulary within the realm of high art. Includes camera operation, black and white film developing, black and white print processing, and print finishing.

*Offered: Fall. Special Notes: Course taught in Spanish. Carries cross-credit in art.*

**SPA201 • Intermediate Spanish I.** 3 Credits.

Synthesis and expansion of language study in order to further develop communicative language ability. Study of the rich cultural diversity in the Spanish-speaking world.

*Prerequisites: SPA102S or placement exam. Offered: Fall, spring. Special Notes: Students may not receive credit for both SPA201 and SPA203.*

**SPA202UZ • Intermediate Spanish II.** 4 Credits.

A further development of communicative language ability through the study of the rich cultural diversity in the Spanish-speaking world. Topics include religious practices, Hispanics in the United States, and violations of human rights. Service-learning experience required.

*Prerequisites: SPA201 or placement exam; GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, spring. Special Notes: Students may not receive credit for both SPA202UZ and SPA204.*

**SPA203 • Intensive Intermediate Spanish I in Guatemala.** 4 Credits.

Synthesis and expansion of language study in order to further develop communicative language ability. Study of the rich cultural diversity in the Spanish-speaking world, including topics such as family structures, racial diversity, and perspectives on death and the afterlife. Intensive one-on-one interaction with Guatemalan instructor.

*Prerequisites: SPA102S or placement exam. Offered: Spring. Special Notes: Students may not receive credit for both SPA203 and SPA201.*

**SPA204 • Intensive Intermediate Spanish II in Guatemala.** 4 Credits.

A further development of communicative language ability through the study of the rich cultural diversity in the Spanish-speaking world. Topics include religious practices, Hispanics in the United States, and violations of human rights. Intensive one-on-one interaction with Guatemalan instructor.

*Prerequisites: SPA201, SPA203, or placement exam. Offered: Spring. Special Notes: Students may not receive credit for both SPA204 and SPA202UZ.*

**SPA208 • Spanish for Health Professionals.** 3 Credits.

Designed for those studying or preparing for healthcare professions. Emphasis on building culturally and linguistically competent communication skills with Spanish-speaking immigrants in healthcare settings.

*Prerequisites: SPA201, SPA203, or placement exam. Offered: Occasionally.*

**SPA228 • Intensive Language Study in the Spanish-Speaking World.** 3 Credits.

Study of the Spanish language and Hispanic culture taught in a Spanish-speaking country through an approved language school. Homestay required.

*Prerequisites: Two semesters of intermediate Spanish at the college level or placement exam; consent of Department of Modern World Languages. Grade exceptions: S/U grading basis only. Offered: Interim, by arrangement. Special Notes: Program must be approved by the Department of Modern World Languages in advance. Enrollment is limited.*

**SPA290 • Ibero-American History.** 3 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites: SPA202UZ, SPA204, SPA208, or placement exam. Offered: Fall, spring.*

**SPA291 • Ibero-American History in Guatemala.** 4 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites: SPA202UZ, SPA204, SPA208, or placement exam. Offered: Spring.*



**SPA292 • Ibero-American History in Spain.** 4 Credits.

An examination of key historical processes in Spain, Latin America, and the Spanish-speaking communities in the United States with a focus on social, economic, political, geographic, and religious dimensions.

*Prerequisites:* SPA202UZ or SPA208. *Offered:* Fall.

**SPA300 • Introduction to Hispanic Literature.** 4 Credits.

Readings in novels, essays, short stories, poetry, newspapers, and magazines from Latin America and Spain.

*Prerequisites:* SPA202UZ, SPA208, or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA300 and SPA305.

**SPA301U • Hispanic Cultures.** 4 Credits.

Study of the history, traditions, cultural practices, values, and social structures of Latin America and Spain. Service-learning experience may be required.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently); SPA290, SPA291, or SPA292. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA301U and SPA302U.

**SPA302U • Hispanic Cultures: Guatemalan Perspectives.** 4 Credits.

Study of the history, traditions, cultural practices, values, and social structures of Latin America and Spain. Intensive one-on-one interaction with on-site instructor and interviews with Guatemalans enhance understanding of cultural issues from a Guatemalan perspective.

*Prerequisites:* GES130 (may be taken concurrently) or GES244 (may be taken concurrently); SPA290 or SPA291, or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA302U and SPA301U.

**SPA303U • Historic Spain and its Cultures.** 4 Credits.

Study of the multi-cultural richness of Spain in its unique history, society, politics, art, film, and music. Students participate in a series of field trips to places of cultural and historical interest in Segovia and to museums in Madrid.

*Prerequisites:* SPA290, SPA292 (may be taken concurrently), or consent of instructor. *Offered:* Fall.

**SPA305 • Readings from Latin America and Spain.** 3 Credits.

Readings in novels, essays, short stories, and poetry from Latin America and Spain.

*Prerequisites:* SPA290, SPA291, or SPA292. *Offered:* Fall. *Special Notes:* Students may not receive credit for both SPA305 and SPA300.

**SPA308 • Current Issues in Guatemala.** 4 Credits.

Students participating in the Guatemala Term use multiple media sources available to them only in the country and interact with Guatemalan people to learn about political, economic, and social issues. Study of a literary text dealing with political issues in Guatemala is included.

*Prerequisites:* SPA300 (may be taken concurrently) or SPA305. *Offered:* Spring.

**SPA312 • Contemporary Literature.** 4 Credits.

Prose and poetry from selected contemporary Latin American and Spanish authors.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, even # years.

**SPA313 • Classical Literature.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, odd # years.

**SPA316 • Modern Spain: An Examination of Ethics - Spain.** 4 Credits.

An examination of moral and ethical questions during the Spanish Civil War, the Franco regime, and post-Franco Spain. Topics include national unity, justice, political assassination, the responsibility of individuals in society, Basque nationalism, the role of the United States, immigration, and the role of the Catholic Church.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall.

**SPA317 • Advanced Communication in Spain.** 4 Credits.

An examination of moral and ethical questions during the Spanish Civil War, the Franco regime, and post-Franco Spain. Topics include national unity, justice, political assassination, the responsibility of individuals in society, Basque nationalism, the role of the United States, immigration, and the role of the Catholic Church.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall.

**SPA318 • Classical Literature in Spain.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA305 or concurrent enrollment in SPA300. *Offered:* Fall. *Special Notes:* Students may not receive credit for both SPA318 and SPA313.

**SPA322 • Advanced Spanish Communication.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites:* SPA300 or SPA305. *Offered:* Fall, odd # years.

**SPA323 • Advanced Spanish Communication in Guatemala.** 4 Credits.

Further development of communicative abilities in Spanish including reading, creative and academic writing, formal and informal discussions and debate, and formal presentation skills.

*Prerequisites:* SPA301U, SPA302U, or SPA303U. *Offered:* Spring.

**SPA327 • Marketing and Management in Spain.** 3 Credits.

Theoretical and practical concepts of marketing and management in the semi-globalized world. Understand the significant challenges globalization presents to management and marketing, specifically in the context of Spain. Business terminology and reality in a Spanish business environment.  
*Prerequisites: SPA202UZ. (Carries cross-credit in business.) Offered: Fall. Special Notes: The class is taught and assignments are completed in Spanish.*

**SPA481 • Internship in Spanish.** 3-4 Credits.

Cross-cultural experience to apply and expand Spanish communication knowledge and skills in an off-campus setting. Placements must be at an organization or business within the Latino community or in the Spanish-speaking world. Must be planned in advance of placement in consultation with the Department of Modern World Languages.

*Prerequisites: Spanish major or minor, or enrollment in Spain or Guatemala Term. Offered: Fall, interim, spring, summer.*

**SPA499 • Senior Seminar.** 4 Credits.

An in-depth study and presentation of a topic related to Hispanic cultures, literatures, or the Spanish language. Service-learning experience may be required.

*Prerequisites: Major in Spanish; senior standing. Offered: Fall.*

**TEL230 • Introduction to Teaching English to Speakers of Other Languages.** 3 Credits.

Overview of the field of teaching English to speakers of other languages (TESOL) for those considering employment in schools in the U.S. or abroad, or serving in missions or in the local community. Provides basic skills and resources for anyone interacting with new Americans.

*Offered: Occasionally interim or spring.*

**TEL240 • TESOL Practicum Abroad.** 1 Credits.

In consultation with the department, students select a program outside the United States in which they tutor English as a foreign language for at least three weeks. Prior to departure, students complete a study of the culture in which they will be living. Students share their experiences in a colloquium of TESL/TEFL majors upon their return.

*Prerequisites: LIN210Z; consent of the Department of Modern World Languages. Grade exceptions: Graded on an S/U basis. Offered: By arrangement.*

**TEL301 • Analysis of the English Language.** 3 Credits.

Overview of the English language structure geared to the needs of teachers of English to speakers of other languages (both EFL and ESL).

Understanding and application of English grammar and pronunciation with the purpose of being able to explain various grammatical aspects and provide answers to student questions concerning English grammar.

*Prerequisites: LIN210Z or LIN300. Offered: Spring, odd # years.*

**TEL305 • Teaching Language Skills for Second Language Learners.** 3 Credits.

The principles of teaching listening and speaking skills to second language learners. Strategies for teaching language skills include using authentic materials, creating meaningful communicative activities, and teaching with Total Physical Response (TPR) and Total Physical Response Storytelling (TPRS). Students create lesson plans and practice teaching with these strategies.

*Offered: Fall.*

**TEL320 • Curriculum Development and Assessment.** 3 Credits.

Development of curricula for EFL/ESL students in various settings and with various needs, including special education. Appropriate teaching and assessment materials for the EFL/ESL classroom.

*Prerequisites: LIN210Z. Offered: Spring. Special Notes: Can be taken concurrently with EDU400.*

**TEL481 • Internship in TESL/TEFL.** 3-4 Credits.

Supervised experience in an overseas school program or with a local agency to apply knowledge of and skills in teaching English to non-native speakers.

*Prerequisites: Major or minor in TEFL. Offered: Fall, interim, spring.*

## B.A. in Linguistics

### Courses at Bethel

LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	3
LIN300	Introduction to Linguistics	3
ANT200U	Introduction to Anthropology <sup>1</sup>	3
SCS350	Qualitative Research Methods	4
Select from the following Modern Languages: <sup>2</sup>		19-20
ASL101	Introductory American Sign Language I	
ASL102S	Introductory American Sign Language II <sup>1</sup>	
CHI101	Introductory Chinese I	
CHI102S	Introductory Chinese II <sup>1</sup>	
FRE101	Introductory French I	
FRE102S	Introductory French II <sup>1</sup>	
GRK101	Introductory Biblical Greek I	

GRK102S	Introductory Biblical Greek II <sup>1</sup>	
GRK253	Readings in New Testament Greek	
HEB101	Introductory Biblical Hebrew I	
HEB102S	Introductory Biblical Hebrew II <sup>1</sup>	
LAT101	Introductory Latin I	
LAT102S	Introductory Latin II <sup>1</sup>	
SPA101	Introductory Spanish I	
SPA102S	Introductory Spanish II <sup>1</sup>	
SPA201	Intermediate Spanish I	
<b>Courses at SIL-UND <sup>3</sup></b>		
Courses taken first summer at SIL-UND		
LING450	Articulatory Phonetics	2
LING452	Syntax and Morphology I	3
LING470	Introduction to Sociolinguistics	2
LING480	Learner-Directed Second Language Acquisition	3
Courses taken second summer at SIL-UND		
LING451	Phonology I	3
LING506	Field Methods	3
LING510	Semantics and Pragmatics	3
<b>General Education</b>		51-52
<b>Electives</b>		20-22
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Five (5) semesters of study in two or three languages other than English, including at least one Indo-European language and at least one non-Indo-European language. One of the two languages of study may be taken at the 201 level or higher. Bethel currently offers classes in two non-Indo-European languages: Chinese and Hebrew.

<sup>3</sup> Students attend classes at SIL-UND in Grand Forks, N.D., during the summers after their sophomore and junior years at Bethel University.

The major in linguistics is offered in collaboration with the Summer Institute of Linguistics–University of North Dakota (SIL-UND), the organization that provides training in linguistics for Wycliffe translators and missionaries. Three years of coursework are completed on campus and two summers at SIL-UND in Grand Forks, N.D.

## B.A. in Spanish

Select from intermediate Spanish I courses:		3-4
SPA201	Intermediate Spanish I <sup>2</sup>	
SPA203	Intensive Intermediate Spanish I in Guatemala <sup>2</sup>	
Select from intermediate Spanish II courses:		3-4
SPA202UZ	Intermediate Spanish II <sup>1,2</sup>	
SPA204	Intensive Intermediate Spanish II in Guatemala <sup>2</sup>	
SPA208	Spanish for Health Professionals	
Select from history courses in Spanish:		3-4
SPA290	Ibero-American History	
SPA291	Ibero-American History in Guatemala	
SPA292	Ibero-American History in Spain	
Select from culture courses in Spanish:		4
SPA301U	Hispanic Cultures <sup>1</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U	Historic Spain and its Cultures <sup>1</sup>	
Select from advanced Spanish language courses:		4
SPA317	Advanced Communication in Spain	
SPA322	Advanced Spanish Communication	
SPA323	Advanced Spanish Communication in Guatemala	

Select from introductory literature courses in Spanish:	3-4
SPA300 Introduction to Hispanic Literature	
SPA305 Readings from Latin America and Spain	
Select two from literatures and current events in Spanish:	7-8
SPA308 Current Issues in Guatemala	
SPA312 Contemporary Literature	
SPA313 Classical Literature	
SPA316 Modern Spain: An Examination of Ethics - Spain	
SPA318 Classical Literature in Spain	
SPA327 Marketing and Management in Spain	
Select from Spanish electives:	3
SPA120A Photography in Spain <sup>1</sup>	
Electives from Spanish courses at 200 level or above <sup>2</sup>	
Select from related areas of study:	3-4
LIN210Z Introduction to Second Language Acquisition <sup>1</sup>	
LIN300 Introduction to Linguistics	
SCS330G Sociology of Third World Development <sup>1</sup>	
SPA481 Internship in Spanish	
SPA499 Senior Seminar	4
General Education	51-52
Electives	34-40
<b>Total Credits</b>	<b>122-135</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> SPA201, SPA202UZ, SPA203, or SPA204 may not be used to fulfill the Spanish elective course requirement.

Additional requirements for a major in Spanish: Students must have a semester-long experience in a Spanish-speaking setting outside the United States. The experience must include living with members of the host culture. The program must be approved by the chair of the Department of Modern World Languages.

## B.A. in Spanish Education K-12 (Licensure in World Languages and Cultures)

Select from intermediate Spanish I courses:	3-4
SPA201 Intermediate Spanish I <sup>2</sup>	
SPA203 Intensive Intermediate Spanish I in Guatemala <sup>2</sup>	
Select from intermediate Spanish II course:	4
SPA202UZ Intermediate Spanish II <sup>1,2</sup>	
SPA204 Intensive Intermediate Spanish II in Guatemala <sup>2</sup>	
Select from history courses in Spanish:	3-4
SPA290 Ibero-American History	
SPA291 Ibero-American History in Guatemala	
SPA292 Ibero-American History in Spain	
Select from culture courses on Spanish:	4
SPA301U Hispanic Cultures <sup>1</sup>	
SPA302U Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U Historic Spain and its Cultures <sup>1</sup>	
Select from advanced Spanish language courses:	4
SPA317 Advanced Communication in Spain	
SPA322 Advanced Spanish Communication	
SPA323 Advanced Spanish Communication in Guatemala	
Select from introductory literature courses in Spanish:	3-4
SPA300 Introduction to Hispanic Literature	
SPA305 Readings from Latin America and Spain	
Select two literatures and current events in Spanish:	8

SPA308	Current Issues in Guatemala	
SPA312	Contemporary Literature	
SPA313	Classical Literature	
SPA316	Modern Spain: An Examination of Ethics - Spain	
SPA318	Classical Literature in Spain	
Select from Spanish electives:		3
SPA120A	Photography in Spain <sup>2</sup>	
Elective Spanish courses at 200 level or above <sup>2</sup>		
LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	3
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU426	Methods in Teaching K-12 World Languages and Cultures	3
EDU427	Middle Level Education Practicum in World Languages and Cultures	1
EDU490	Student Teaching Block	15
General Education		51-52
<b>Total Credits</b>		<b>123-127</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> SPA201, SPA202UZ, SPA203, or SPA204 may not be used to fulfill the Spanish elective course requirement.

Additional requirements for a major in Spanish Education K-12 (world languages and cultures licensure): Students must have a semester-long experience in a Spanish-speaking setting outside the United States. The experience must include living with members of the host culture. The program must be approved by the chair of the Department of Modern World Languages.

Students seeking licensure in the state of Minnesota to teach Spanish K-12 (licensure in world languages and cultures) who are not native speakers of Spanish are required to demonstrate intermediate-high level speaking proficiency as defined by the ACTFL Proficiency Guidelines, as well as proficiency in reading, listening, and writing via the MTLE exam. Native speakers of Spanish are required to demonstrate advanced-level proficiency in English and Spanish.

Student must earn a grade of C or better in each content area (SPA, LIN) and education courses in the major. Courses with grades of C- or lower must be repeated.

## B.A. in Teaching English as a Foreign Language (TEFL)

LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	3
LIN300	Introduction to Linguistics	3
TEL240	TESOL Practicum Abroad	1
TEL301	Analysis of the English Language	3
TEL305	Teaching Language Skills for Second Language Learners	3
TEL320	Curriculum Development and Assessment	3
TEL481	Internship in TESL/TEFL	3-4
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU426	Methods in Teaching K-12 World Languages and Cultures	3
A modern world language <sup>2</sup>		10
Select from TESOL Ara Electives: <sup>3</sup>		9

ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	
HIS204U	African Civilizations <sup>1</sup>	
HIS205U	History of China, Japan, and Korea <sup>1</sup>	
HIS206U	History of India and Its Neighbors <sup>1</sup>	
HIS207U	Latin American Civilizations <sup>1</sup>	
HIS212U	History of Islam <sup>1</sup>	
HIS217UZ	Hispanic Christianity <sup>1</sup>	
HIS354	Modern Europe	
PHI375G	Asian Philosophy <sup>1</sup>	
SPA301U	Hispanic Cultures <sup>1</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U	Historic Spain and its Cultures <sup>1</sup>	
Select from TESOL Cross-cultural Electives		3-4
ANT242UZ	Peoples and Cultures of the United States <sup>1</sup>	
ANT371GZ	Christianity in Cross-Cultural Perspective	4
COM355Z	Intercultural Communication <sup>1</sup>	
HIS210U	Minorities in America <sup>1</sup>	
POS202U	Introduction to International Relations <sup>1</sup>	
PSY308G	Cross-Cultural Psychology <sup>1</sup>	
REL205U	Religions of India, China and Japan <sup>1</sup>	
SCS330G	Sociology of Third World Development <sup>1</sup>	
SCS387Z	Cross Cultural Experience <sup>1</sup>	
SCS389	Cross-Cultural Missions Practicum	
SPA481	Internship in Spanish	
THE401	Christianity and the World's Religions	
General Education		51-52
Electives		16-18
<b>Total Credits</b>		<b>126-131</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> TEFL majors who are non-native speakers of English must reach an advanced proficiency level in English.

<sup>3</sup> Courses must be chosen so that at least two different geographic areas are studied (e.g., a course on Africa, a course on Latin America).

## B.A. in Teaching English as a Second Language (TESL) K-12

LIN210Z	Introduction to Second Language Acquisition <sup>2</sup>	3
LIN300	Introduction to Linguistics	3
TEL240	TESOL Practicum Abroad	1
TEL301	Analysis of the English Language	3
TEL305	Teaching Language Skills for Second Language Learners	3
TEL320	Curriculum Development and Assessment	3
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
K-6 Education Block 1 <sup>5</sup>		10
EDU271	Education Psychology and Pedagogy	
EDU272	Language and Literacy Development for Young Learners (K-3)	
EDU273	Primary Grade Practicum	
EDU274	Education Technology	
EDU275	Kindergarten Education	
EDU317GZ	Educational Equity <sup>2</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2

EDU400	Methods in Teaching K-12 English to Speakers of Other Languages	3
EDU401	Middle Level Education Practicum in TESL	1
EDU490	Student Teaching Block	15
A modern world language <sup>4</sup>		7-8
Select from TESOL Area Electives: <sup>4</sup>		6
ANT214U	Peoples and Cultures of Latin America <sup>2</sup>	
HIS204U	African Civilizations <sup>2</sup>	
HIS205U	History of China, Japan, and Korea <sup>2</sup>	
HIS206U	History of India and Its Neighbors <sup>2</sup>	
HIS207U	Latin American Civilizations <sup>2</sup>	
HIS212U	History of Islam <sup>2</sup>	
HIS217UZ	Hispanic Christianity <sup>2</sup>	
HIS354	Modern Europe	
PHI375G	Asian Philosophy <sup>2</sup>	
SPA301U	Hispanic Cultures <sup>2</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>2</sup>	
SPA303U	Historic Spain and its Cultures <sup>2</sup>	
Select from Cross-cultural Electives:		3
ANT242UZ	Peoples and Cultures of the United States <sup>2</sup>	
ANT371G	<sup>2</sup>	
COM355Z	Intercultural Communication <sup>2</sup>	
HIS210U	Minorities in America <sup>2</sup>	
POS202U	Introduction to International Relations <sup>2</sup>	
PSY308G	Cross-Cultural Psychology <sup>2</sup>	
REL205U	Religions of India, China and Japan <sup>2</sup>	
SCS330G	Sociology of Third World Development <sup>2</sup>	
SCS387Z	Cross Cultural Experience <sup>2</sup>	
SCS389	Cross-Cultural Missions Practicum	
SPA481	Internship in Spanish	
THE401	Christianity and the World's Religions	
General Education <sup>1</sup>		51-52

**Total Credits****126-128**

- <sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 122 credits, including 1 elective credit.
- <sup>2</sup> A student may also choose to use this course to meet a General Education requirement.
- <sup>3</sup> TESL majors who are non-native speakers of English must reach an advanced proficiency level in English.
- <sup>4</sup> Courses must be chosen so that at least two different geographic areas are studied (e.g., a course on Africa, a course on Latin America).
- <sup>5</sup> This first block in the elementary education sequence has five courses that must be taken concurrently.

Students must earn a grade of *C* or better in each content area (TEL, LIN) and education courses in the major. Courses with a grade of *C-* or lower must be repeated.

Students with K-12 licensure in TESL may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## Minor in Linguistics

### Courses at Bethel

LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	3
LIN300	Introduction to Linguistics	3
Select from Modern Languages 1:		6-8
ASL101	Introductory American Sign Language I	
ASL102S	Introductory American Sign Language II <sup>1</sup>	



CHI101	Introductory Chinese I	
CHI102S	Introductory Chinese II <sup>1</sup>	
FRE101	Introductory French I	
FRE102S	Introductory French II <sup>1</sup>	
GRK101	Introductory Biblical Greek I	
GRK102S	Introductory Biblical Greek II <sup>1</sup>	
HEB101	Introductory Biblical Hebrew I	
HEB102S	Introductory Biblical Hebrew II <sup>1</sup>	
LAT101	Introductory Latin I	
LAT102S	Introductory Latin II <sup>1</sup>	
SPA101	Introductory Spanish I	
SPA102S	Introductory Spanish II <sup>1</sup>	

**Courses at SIL-UND**

LING450	Articulatory Phonetics	2
LING452	Syntax and Morphology I	3
LING470	Introduction to Sociolinguistics	2
LING480	Learner-Directed Second Language Acquisition	3

**Total Credits****22-24**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

The minor in linguistics is offered in collaboration with the Summer Institute of Linguistics–University of North Dakota (SIL-UND), the organization that provides training in linguistics for Wycliffe translators and missionaries.

## Minor in Spanish

SPA201	Intermediate Spanish I	3-4
or SPA203	Intensive Intermediate Spanish I in Guatemala	
Select one of the following:		3-4
SPA202UZ	Intermediate Spanish II <sup>1</sup>	
SPA204	Intensive Intermediate Spanish II in Guatemala	
SPA208	Spanish for Health Professionals	
Select one of the following:		3-4
SPA290	Ibero-American History	
SPA291	Ibero-American History in Guatemala	
SPA292	Ibero-American History in Spain	
Select one of the following:		4
SPA301U	Hispanic Cultures <sup>1</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U	Historic Spain and its Cultures <sup>1</sup>	
SPA300	Introduction to Hispanic Literature	3-4
or SPA305	Readings from Latin America and Spain	
Select from the following: <sup>2</sup>		6
Electives from Spanish courses at 200 level or above		
BUS/SPA 327	Marketing and Management in Spain	
EDU204UZ	Teaching and Learning in Guadalajara <sup>1</sup>	
EDU426	Methods in Teaching K-12 World Languages and Cultures	
LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	
SCS330G	Sociology of Third World Development <sup>1</sup>	
SPA120A	Photography in Spain <sup>1</sup>	

**Total Credits****22-26**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Only one course chosen may carry the EDU, LIN, or SCS designation.

Students are encouraged to study abroad. This experience could substitute for courses in the minor with prior approval of the department.

## Minor in Teaching English to Speakers of Other Languages (TESOL)

LIN210Z	Introduction to Second Language Acquisition <sup>1</sup>	3
TEL240	TESOL Practicum Abroad	1
TEL305	Teaching Language Skills for Second Language Learners	3
TEL320	Curriculum Development and Assessment	3
LIN300	Introduction to Linguistics	3
or TEL301	Analysis of the English Language	
A modern world language		6
Select one of the following:		3-4
ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	
ANT242UZ	Peoples and Cultures of the United States <sup>1</sup>	
ANT371GZ	Christianity in Cross-Cultural Perspective	
COM355Z	Intercultural Communication <sup>1</sup>	
HIS204U	African Civilizations <sup>1</sup>	
HIS205U	History of China, Japan, and Korea <sup>1</sup>	
HIS206U	History of India and Its Neighbors <sup>1</sup>	
HIS207U	Latin American Civilizations <sup>1</sup>	
HIS217UZ	Hispanic Christianity <sup>1</sup>	
HIS354	Modern Europe <sup>1</sup>	
LIN300	Introduction to Linguistics	
PHI375G	Asian Philosophy <sup>1</sup>	
POS202U	Introduction to International Relations <sup>1</sup>	
PSY308G	Cross-Cultural Psychology <sup>1</sup>	
REL205U	Religions of India, China and Japan <sup>1</sup>	
SCS330G	Sociology of Third World Development <sup>1</sup>	
SCS389	Cross-Cultural Missions Practicum	
SPA301U	Hispanic Cultures <sup>1</sup>	
SPA302U	Hispanic Cultures: Guatemalan Perspectives <sup>1</sup>	
SPA303U	Historic Spain and its Cultures <sup>1</sup>	
SPA481	Internship in Spanish	
TEL301	Analysis of the English Language	
THE401	Christianity and the World's Religions	

**Total Credits**

**22-23**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Students who minor in TESOL must have three weeks or more of experience in teaching English abroad or an ESL experience in the United States. This experience must be approved by the chair of the Department of Modern World Languages prior to the experience.

## Multidisciplinary

### Majors in Multidisciplinary

- B.S. in Biochemistry/Molecular Biology (p. 182)
- B.A. in Business and Political Science (p. 178)
- B.A. in International Relations (p. 179)
- B.A. in Social Studies Education 5-12 (p. 180)
- B.A. in Third World Studies (p. 181)

## Minor in Multidisciplinary

• Asian Studies (p. 183)

## B.A. in Business and Political Science

This major is designed for students who wish to combine substantial work in the fields of business and political science with additional supporting courses in economics and mathematics. (See Multidisciplinary section.)

BUS105	Information Technology and Applications	3
ECO201	Principles of Economics	4
BUS100M	Business Calculus <sup>1</sup>	3
or BUS130	Business Problem Solving	
MAT207M	Statistical Analysis <sup>1</sup>	3
POS211	The Political Quest	3
POS306	Public Administration	3
POS499	Senior Seminar	4
Select one of the following:		3
POS100	American Politics and Government	
POS202U	Introduction to International Relations <sup>1</sup>	
Select 15 credits from the following:		15
BUS210	Financial Accounting	
BUS220	Principles of Marketing	
BUS230	Principles of Management	
BUS344	Managerial Finance	
BUS361	Business Law	
Elective from 200 level or above economics course, excluding ECO200		3
Select one course from three of the following four areas		9-10
American Politics and Government:		
POS325	Political Communication	
POS330K	Science, Values, and the Making of Environmental Policy <sup>1</sup>	
POS340	American Political Institutions	
POS342	American Public Policy	
International Relations: <sup>1</sup>		
POS305G	The Cold War <sup>1</sup>	
POS310	American Foreign Relations	
POS313G	The Politics of Globalization: Diplomacy, Trade and Organization <sup>1</sup>	
POS324G	Human Rights in International History <sup>1</sup>	
Comparative Politics:		
POS304	Political Parties and Elections	
POS315	The Politics of Terrorism and Counterterrorism	
POS317	Political Psychology	
POS321	Contemporary Democracies	
POS329	African Politics	
Political Philosophy:		
POS345	Modern Political Thought	
POS360	Classics in Western Political Philosophy	
General Education		51-52
Electives		18-20
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in International Relations

This major provides a solid foundation in international relations, U.S. foreign policy, economics, geography, and a foreign language competency. The electives are designed to allow students to integrate other interests with their focus on international relations. (See Multidisciplinary section.)

ECO201	Principles of Economics	4
ECO305	International Trade and Finance	3
GE0120		3
POS202U	Introduction to International Relations <sup>1</sup>	3
POS211	The Political Quest	3
POS310	American Foreign Relations	3
A modern world language <sup>1</sup>		6
Culminating Experience (Directed Study, Senior Seminar, etc.) <sup>2</sup>		4
Select two of the following:		6
POS221L	American Political Ideologies <sup>1</sup>	
POS241L	Revolution and Political Development <sup>1</sup>	
POS313G	The Politics of Globalization: Diplomacy, Trade and Organization <sup>1</sup>	
POS321	Contemporary Democracies <sup>1</sup>	
Select one of the following:		3
BUS370G	International Business <sup>1</sup>	
ECO310	History of Economic Thought	
ECO320G	Economic Development of Less-Developed Countries <sup>1</sup>	
Select from the courses listed above or below. Three credits must be from departments other than economics, modern world languages, and political science. Six credits must be 300 level or above		15
Anthropology and Sociology		
ANT200U	Introduction to Anthropology <sup>1</sup>	
ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	
ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	
SOC101	Introduction to Sociology	
SOC342G	Race, Ethnicity, and Peacemaking <sup>1</sup>	
SOC372G	Religion in Society <sup>1</sup>	
SCS379G	Mission in the 21st Century <sup>1</sup>	
SCS387Z	Cross Cultural Experience <sup>1</sup>	
Art and Design		
ARH321	Art History - 19th and 20th Century Europe	
Biblical and Theological Studies		
BIB309J	A Biblical Theology of Poverty <sup>1</sup>	
THE256L	Christian Apologetics <sup>1</sup>	
THE263	Christian Social Ethics	
THE401	Christianity and the World's Religions	
English		
ENL202	Survey of British Literature II	
ENL315G	Literature of the Oppressed <sup>1</sup>	
ENL241L	Modern Mythmakers <sup>1</sup>	
ENL350	20th Century Literature	
ENL354	Literature on Location: Major British Authors	
ENL355	Modernism in London, Dublin, and Paris	
Environmental Studies		
ENS104 & 104D	Environment and Humanity and Environment Humanity Lab <sup>1</sup>	
General Studies		
GES416P	Christian Perspectives of Global Peacemaking <sup>1</sup>	
GES440P	Christian Nonviolence <sup>1</sup>	

GES445P	Aging from a Cross-Cultural Perspective: Living in a Graying World <sup>1</sup>	
<b>Geography</b>		
Any geography course		
<b>History</b>		
HIS354	Modern Europe	
HIS241L	Revolution and Political Development <sup>1</sup>	
HIS320K	History and the Human Environment <sup>1</sup>	
HIS372	Topics in Global History	
<b>Modern World Languages</b>		
Any modern world language course <sup>1</sup>		
<b>Philosophy</b>		
PHI210L	The Modern Mind <sup>1</sup>	
PHI252	History of Philosophy II	
PHI375G	Asian Philosophy <sup>1</sup>	
<b>Psychology</b>		
PSY215	Social Psychology	
PSY308G	Cross-Cultural Psychology <sup>1</sup>	
<b>Theatre Arts</b>		
THA291L	Theatre in the Modern Age <sup>1</sup>	
<b>General Education</b>		51-52
<b>Electives</b>		18-19
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> This must have a major international relations emphasis.

Students are strongly encouraged to seek appropriate international study experiences, for which academic credit will be given wherever possible under Bethel policies.

## B.A. in Social Studies Education 5-12

ANT200U	Introduction to Anthropology <sup>2</sup>	3
ECO201	Principles of Economics	4
GEO120		3
HIS320K	History and the Human Environment <sup>2</sup>	3
POS100	American Politics and Government	3
PSY100	Introduction to Psychology	3
SOC101	Introduction to Sociology	3
Select one of the following:		3-4
GES246	Humanities IV: Modern and Contemporary Western Culture	
HIS200L	American Civilization <sup>2</sup>	
Electives from 200 level or above, at least half of which must be 300 level or above, from two or more of the seven disciplines listed above or from sociocultural studies courses		24
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>2</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU418	Methods in Teaching 9-12 Social Studies	2
EDU419	Middle Level Seminar and Practicum in Social Studies 5-8	2
EDU490	Student Teaching Block	15

General Education <sup>1</sup>

51-52

**Total Credits****137-139**

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 125-126 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

To be admitted to the Education program with a major in Social Studies Education 5-12, students must have a minimum overall grade point average of 3.00. To continue in the program, students must maintain an overall GPA of 3.00. To be approved for student teaching in Social Studies 5-12, students must have a minimum GPA of 3.00, both overall and in their major coursework.

Students must earn a grade of C or better in all education courses and each content area course (ANT, ECO, GEO, HIS, POS, PSY, SOC) listed above in the major. Courses with grades of C- or lower must be repeated.

Students with 5-12 licensure in Social Studies Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.A. in Third World Studies

(to be taken only with another major)

ANT200U	Introduction to Anthropology <sup>1</sup>	3
SCS385	Cross-Cultural Exp Guatemala <sup>1</sup>	4
or SCS387Z	Cross Cultural Experience	
Select 6 credits from any four of the areas listed below:		24-25

(None of these may come from the department of the student's other major)

### Anthropology and Sociology

ANT214U	Peoples and Cultures of Latin America <sup>1</sup>	
ANT371GZ	Christianity in Cross-Cultural Perspective <sup>1</sup>	
SCS379G	Mission in the 21st Century <sup>1</sup>	
ANT241UZ	Peoples and Cultures of Africa <sup>1</sup>	

### Biblical and Theological Studies

BIB331G	Cultural World of the New Testament <sup>1</sup>	
REL205U	Religions of India, China and Japan <sup>1</sup>	
THE401	Christianity and the World's Religions	

### Economics

ECO201	Principles of Economics	
ECO305	International Trade and Finance	
ECO320G	Economic Development of Less-Developed Countries <sup>1</sup>	

### History

HIS204U	African Civilizations <sup>1</sup>	
HIS205U	History of China, Japan, and Korea <sup>1</sup>	
HIS206U	History of India and Its Neighbors <sup>1</sup>	
HIS207U	Latin American Civilizations <sup>1</sup>	
HIS217UZ	Hispanic Christianity <sup>1</sup>	
HIS241L	Revolution and Political Development <sup>1</sup>	
HIS372	Topics in Global History	

### Modern World Languages <sup>1</sup>

Spanish at the intermediate level or above or any indigenous language of the third world at any level

### Political Science

POS202U	Introduction to International Relations <sup>1</sup>	
POS241L	Revolution and Political Development <sup>1</sup>	

### Psychology

PSY308G	Cross-Cultural Psychology <sup>1</sup>	
PSY313G	Families in Cross-cultural Perspective <sup>1</sup>	

Major from another department (minimum 30 credits)

30-31

General Education

51-52

Electives	10-13
<b>Total Credits</b>	<b>122-128</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

A student should consult the coordinator of the third world studies major as early as possible in the program.

Additional requirements for a major in third world studies:

1. At least 12 credits (may include SCS387Z or SCS389) must be focused on a single geographic area (e.g., Latin America, Africa, Southeast Asia). This focus can be achieved, for example, by a term paper or major project in the course, or by supplementary readings. These courses must be pre-approved by the coordinator of the third world studies major.
2. Integrative, culminating experience in the student's senior year. This course must be chosen in consultation with the coordinator of the Third World Studies major. It can often be the Senior Seminar of the student's other major, provided it allows for a third-world focus.

## B.S. in Biochemistry/Molecular Biology

(American Chemical Society certified major)<sup>2</sup>

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4
BIO332 & BIO333	Genetics and Genetics Lab	4
BIO354 & BIO355	Cell Biology and Cell Biology Lab	4
BIO388 & BIO389	Biochemistry I and Biochemistry I Lab	4
BIO396 & BIO397	Molecular Biology and Molecular Biology Lab	4

Select one of the following sequences:

4-8

CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE226 & CHE227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE312 & CHE313	Analytical Chemistry I and Analytical Chemistry I Lab	4
CHE344 & CHE345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE396 & CHE397	Biochemistry II and Biochemistry II Lab	4
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4

Select one of the following sequences:

4

BIO399 & BIO495 & BIO496 & BIO499	Introduction to Research and Biology Seminar and Biology Research and Biology Symposium	
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CHE391 & CHE392 & CHE493 & CHE494	Chemistry Seminar: Introduction to Chemical Information and Chemistry Seminar: Introduction to Research and Chemistry Seminar: Research and Chemistry Seminar: Research Presentation	
General Education <sup>3</sup>		51-52
Electives		3-6
<b>Total Credits</b>		<b>122-130</b>

- <sup>1</sup> A student may also choose to use this course to meet a General Education requirement.
- <sup>2</sup> Biochemistry/Molecular Biology students who select Chemistry Seminar will qualify for the ACS-accredited degree by completing one 300-level chemistry course in addition to those required by the major. This also completes the requirements for a Chemistry B.A.
- <sup>3</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 122 credits, including up to 6-7 credits of electives.

BIO234 is recommended.

## Minor in Asian Studies

HIS205U or HIS206U	History of China, Japan, and Korea <sup>1</sup> History of India and Its Neighbors	3
Competency in an Asian language <sup>2</sup>		8
Select 7-15 credits from the following:		7-15
ARH/REL 201	Religion and Art in Asia	
HIS205U	History of China, Japan, and Korea (if not selected above) <sup>1</sup>	
HIS206U	History of India and Its Neighbors (if not selected above) <sup>1</sup>	
HIS372	Topics in Global History (Asian topic or focus) <sup>3,4</sup>	
PHI365	Topics in Philosophy (Asian topic or focus) <sup>3,4</sup>	
PHI375G	Asian Philosophy <sup>1</sup>	
POS202U	Introduction to International Relations (Asian focus) <sup>1,4</sup>	
POS241L	Revolution and Political Development (Asian focus) <sup>1,4</sup>	
REL205U	Religions of India, China and Japan <sup>1</sup>	
SOC372G	Religion in Society <sup>1,4</sup>	
REL/THE 401	Christianity and the World's Religions (Asian focus) <sup>4</sup>	
<b>Total Credits</b>		<b>18-26</b>

- <sup>1</sup> A student may also choose to use this course to meet a General Education requirement.
- <sup>2</sup> Coursework or other experience equivalent to a first-year college course in that language.
- <sup>3</sup> "Asian topic" means that the student can apply this course to the minor only when an Asian topic is offered.
- <sup>4</sup> "Asian focus" means that the instructor must have Asian expertise and students must contract with the instructor early in the term to do the majority of their work on Asia. At least 50% of the student's work in this course, including term papers, must have Asian content.

Consult the registrar prior to enrolling in courses taken elsewhere for transfer to Bethel.

Consult the Asian studies advisor regarding language competency and program guidance.

## Music

The Department of Music offers three degree programs for music majors:

1. Bachelor of Music in Applied Performance—a professional degree designed for students with strong performance skills who wish to become professional musicians, college and university teachers, or private studio teachers.
2. Bachelor of Arts in Music—a degree designed for students who want to develop their musical skills within a liberal arts program with enough flexibility to pursue additional studies in other fields of interest, such as biblical studies, business, psychology, theatre arts, etc.
3. Bachelor of Music Education—a professional degree designed for students who wish to become fully qualified elementary or secondary school music teachers. Students may elect certification in instrumental K-12 or vocal K-12. Bethel's music education degree fulfills the Minnesota certification requirements.

Students majoring in fields outside of music may choose elective courses in music, take private lessons, and participate in performance organizations.

Transfer students must demonstrate acceptable proficiency levels in music theory, music history, and applied music before admittance to the major program. Credits used toward the major are evaluated on an individual basis by the department.

## Majors in Music

- B.Mus. in Applied Performance (p. 189)
- B.A. in Music (p. 188)
- B.Mus.Ed. in Music Education (p. 190)

## Minor in Music

- Music (p. 191)

## Music Courses

### MUS101 • Music Fundamentals. 1 Credits.

Fundamentals of music theory notation: clefs; time signatures; major and minor key signatures; major and all three forms of minor scales; intervals and triads, including qualities and inversions; Roman numeral analysis with figured bass; overtone series.

*Corequisites: Requires concurrent registration with MUL143A or consent of instructor. Offered: Fall.*

### MUS103 • Introduction to Music Literature. 2 Credits.

Development of listening skills and musical vocabulary pertinent to the study of Western music history through a chronological survey of major historical style periods and representative literature.

*Corequisites: Requires concurrent registration with MUS101 and MUL143A, or consent of instructor. Offered: Fall.*

### MUS104 • Music Theory I. 3 Credits.

A continuation of MUS101 concepts and materials: voice-leading and part-writing of triads and seventh chords, and modulations in diatonic chorale style. Beginning development of ear-training and sight-singing, music technology, computer applications, and continuation of functional keyboard skills.

*Prerequisites: MUS101; MUS103. Offered: Spring.*

### MUS195 • Music Hour. 0 Credits.

A semi-monthly informal recital for the purpose of student performance or discussion of topics of significance to musicians. Music majors and minors are required to perform on their applied instruments in a minimum of one Music Hour recital per semester. First-semester freshmen perform at the discretion of the private instructor. Music majors must register each semester in residence in order to complete the Recital and Concert Attendance requirements for graduation.

*Prerequisites: Music major or minor. Grade exceptions: S/U grading. Offered: Fall, spring.*

### MUS202 • Music Theory II. 3 Credits.

A continuation of MUS104 concepts and materials: advanced voice-leading and part-writing skills, chromaticism/non-diatonicism, introduction to jazz and pop theory. Continued development of ear-training, sight-singing, functional keyboard skills, music technology, and computer applications.

*Prerequisites: MUS104. Offered: Fall.*

### MUS203 • Music Theory III. 3 Credits.

Practice in 16th century counterpoint; analysis of forms from 18th century counterpoint through classical forms; continuation of ear-training, sight-singing, and functional keyboard skills.

*Prerequisites: MUS202 or consent of instructor. Offered: Spring.*

### MUS210 • Collaborative Keyboard Skills. 2 Credits.

A series of class lessons for the advancing piano student. Topics include sight-reading, ensemble playing, transposition, open score reading, and accompanying.

*Prerequisites: MUS104 or consent of instructor. Offered: Spring 2017.*

### MUS262A • How To Write A Song. 3 Credits.

Explore song history, analysis, and structure in order to compose and record original piece.

*Offered: Occasionally. Special Notes: Does not require formal music background.*

### MUS301 • Music Theory IV. 3 Credits.

Advanced analysis and composition in all styles with a focus on 20th century music.

*Prerequisites: MUS203. Offered: Spring, odd # years.*

### MUS305G • Music in World Cultures. 3 Credits.

Introductory study of cultural traditions, belief systems, and practices of world cultures through the study and analysis of the music of ethnic groups. Specific cultures included may vary each year.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring, even # years.*

**MUS312 • Music History and Literature I.** 3 Credits.

Chronological survey of Western musical art from the Greek civilization through the Baroque period with detailed examination of representative works.

Required listening, examinations, and written projects.

*Prerequisites:* MUS103; MUS104. *Offered:* Fall.

**MUS313 • Music History and Literature II.** 3 Credits.

A continuation of MUS312, from 1750 to the present.

*Prerequisites:* MUS312. *Offered:* Spring.

**MUS315 • Piano Literature.** 3 Credits.

A survey of the literature for the solo piano, spanning 400 years from the Baroque through the Modern Era.

*Prerequisites:* Keyboard major or minor, or instructor's permission. *Offered:* Spring 2016.

**MUS322 • Instrumental Literature and Conducting.** 3 Credits.

Principles of conducting as applied to orchestral and band literature. Musical style and the responsibility of the conductor to the score. Instrumental music of the Classic, Romantic, and 20th century periods will be explored.

*Prerequisites:* MUS324. *Offered:* Spring.

**MUS323 • Instrumentation.** 2 Credits.

Introduction of all major instruments with emphasis on transpositions, ranges, and idiomatic writing. Arranging of music for large and small combinations of woodwind, brass, string, and percussion instruments.

*Prerequisites:* MUS202; MUS312. *Offered:* Spring.

**MUS324 • Choral Literature and Conducting.** 3 Credits.

Development of conducting techniques with the application of stylistic principles to the styles of the Renaissance, Baroque, Classic, Romantic, and 20th century periods.

*Prerequisites:* MUS203; MUS313 or consent of instructor. *Offered:* Fall.

**MUS357 • Piano Pedagogy.** 2 Credits.

Methods of teaching piano. Overview of teaching materials including method books, literature collections and anthologies, and supplementary materials.

*Prerequisites:* Major or minor in music. *Offered:* Spring 2015.

**MUS358 • Brass Methods.** 2 Credits.

Methods of teaching brass instruments (trumpet, horn, trombone, tuba). Performance techniques and materials as well as practical experience on each of the representative instruments.

*Prerequisites:* Major or minor in music. *Offered:* Fall, even # years.

**MUS359 • Percussion Methods.** 2 Credits.

Methods of teaching percussion (snare drum, keyboard/mallets, timpani, concert accessories/auxiliary, drum set). Performance techniques and materials as well as practical experience on most of the represented instruments.

*Prerequisites:* Major or minor in music. *Offered:* Spring, odd # years.

**MUS360 • String Pedagogy.** 2 Credits.

Methods of teaching stringed instruments (violin, viola, cello, bass). Performance techniques and materials as well as practical experience on each of the representative instruments.

*Prerequisites:* Major or minor in music. *Offered:* Spring, even # years.

**MUS362 • Woodwind Pedagogy.** 2 Credits.

Methods of teaching woodwind instruments (flute, clarinet, oboe, saxophone, bassoon). Performance techniques and materials as well as practical experience on each of the representative instruments.

*Prerequisites:* Major or minor in music. *Offered:* Fall, odd # years.

**MUS363 • Vocal Pedagogy.** 2 Credits.

Methods of teaching the vocal mechanism and its functions. Performance techniques and materials as well as practical experience.

*Prerequisites:* Four semesters of voice lessons. *Offered:* Spring, odd # years.

**MUS366 • Italian and English Lyric Diction.** 1 Credits.

Studies in pronunciation of Italian and English songs through the use of the International Phonetic Alphabet (IPA). Verbal, written, and sung realization of this work practiced on assigned repertoire.

*Prerequisites:* One year private voice study or equivalent. *Offered:* Fall.

**MUS395 • Junior Recital.** 0 Credits.

A culminating performance experience required for the bachelor of music applied performance major. A one half-hour recital of Level III repertoire is presented.

*Prerequisites:* Pre-recital hearing. *Offered:* Fall, spring.

**MUS495 • Half Senior Recital.** 0 Credits.

A culminating performance experience required for the bachelor of arts in sacred music and bachelor of music education majors. A one-half-hour recital of Level III repertoire is presented.

*Prerequisites: Pre-recital hearing. Offered: Fall, spring.*

**MUS496 • Full Senior Recital.** 0 Credits.

A culminating performance experience required for the bachelor of music applied performance major. A one-hour recital of Level IV repertoire is presented.

*Prerequisites: Pre-recital hearing. Offered: Fall, spring.*

## Music Performance Organizations

### MUP101A through MUP163A. Performance Organizations. 0-1 Credit.

Students with a major in music are required to be in a performance organization for four years. Students with a minor in music are required to be in a performance organization for a minimum of two years. Credit for transfer students is evaluated on an individual basis. For non-majors, four credits may be applied toward the graduation requirement of 122 credits.

**MUP101A • Bethel Women's Chorale.** 1 Credits.

The Bethel Women's Chorale is open by audition to female students from all academic disciplines. The chorale rehearses four times each week and performs and tours throughout the United States.

*Offered: Fall, spring.*

**MUP111A • Bethel Choir.** 1 Credits.

The Bethel Choir is open by audition and presents concerts throughout the United States or Europe during its annual concert tours. The choir rehearses four days each week.

*Offered: Fall, spring.*

**MUP121A • Bethel Royal Singers.** 1 Credits.

An ensemble of men rehearsing, studying, and learning a wide variety of music literature composed specifically for male voices. Approaches all aspects of musical and vocal learning: singing properly, singing proper notation, reading music, singing in tune, and singing expressively.

*Prerequisites: Audition and the ability to sing at least at entry level. Offered: Fall, spring.*

**MUP153A • Bethel Chamber Orchestra.** 1 Credits.

A performance ensemble for music majors, minors, and other serious players. Performs repertoire from the Baroque to the Modern Era, tours annually, gives concerts, and participates in Festival of Christmas and Classics in the Great Hall. Plays in chapel and collaborates with the Opera Workshop and other musical theater events.

*Offered: Fall, spring.*

**MUP163A • Wind Symphony.** 1 Credits.

The Wind Symphony is an active performance group presenting concerts locally as well as throughout the United States or Europe. The Wind Symphony is open by audition to woodwind, brass, and percussion players from all academic disciplines of the university.

*Offered: Fall, spring.*

## Musical Ensembles

### MUE101A-MUE161A. Ensembles. 0-1 Credit.

Bethel offers a large selection of vocal and instrumental ensembles. All ensembles are open by audition to students who are members of a performance organization (MUP101A-MUP163A) or who have special permission from the conductor. Though a student may participate in more than one ensemble (MUE101a-MUE163A) each semester, only one may be taken for credit. No more than two ensembles or performance organizations may be taken for credit in any semester. During the college career no more than 16 credits total for ensembles and performance organizations may be taken for credit. Prerequisite: Participation in a major performance organization (MUP101A through MUP163A).

**MUE101A • Chamber Choir.** 1 Credits.

The Chamber Choir rehearses and performs music specifically designed for small ensemble part-singing. In the first semester the ensemble explores traditional pre-20th century literature including French chansons and European madrigal literature. In the second semester emphasis shifts to the 20th century, with exploration of contemporary literature and vocal jazz.

*Prerequisites: Participation in Bethel Choir, Bethel Women's Chorale, or Bethel Male Chorus. Offered: Fall, spring.*

**MUE131A • Handbell Ensemble.** 1 Credits.

The Handbell Ensemble performs a wide range of repertoire from the finest original compositions and arrangements available for handbells. The ensemble performs in the Festival of Christmas, presents a spring concert, and performs in area churches. One rehearsal each week.

*Offered: Fall, spring. Special Notes: Open by audition to students from all academic disciplines.*

**MUE141A • Chamber Ensemble.** 1 Credits.

An opportunity to develop self-expression through the discovery and performance of instrumental chamber music. This class meets once a week for 1.5 hours of coaching and requires 1.5 hours of additional preparation.

*Offered: Occasionally. Special Notes: Ensembles are arranged by individual audition, and practicing is required.*

**MUE151A • Jazz Orchestra.** 1 Credits.

This ensemble explores the unique American art form of jazz, performing various styles from traditional big band to fusion. Concerts include the spring Jazz in the Great Hall. One rehearsal each week.

*Prerequisites: Participation in Wind Symphony or approval of director of instrumental activities. Offered: Fall, spring. Special Notes: Open by audition.*

**MUE161A • Chamber Winds.** 1 Credits.

Small instrumental groups emphasize performance and training in ensemble repertoire for small wind or percussion ensembles including but not limited to: brass quintet, woodwind quintet, percussion ensemble, or any other instrumental family ensembles. One rehearsal each week.

*Prerequisites: Participation in Wind Symphony or approval of director of instrumental activities. Offered: Fall, spring. Special Notes: Open by audition.*

## Music Lessons

**MUL101A through MUL439. Private Lessons. 0-2 Credits.**

Private lessons are offered in voice, piano, pipe organ, violin, viola, cello, double bass, flute, oboe, clarinet, bassoon, saxophone, English horn, horn, trumpet, euphonium, tuba, harp, percussion, and guitar. Lessons may be taken for one-half hour, three-quarter hour, or one hour per week with or without credit. Practice requirement expectations and standards are detailed in the *Music Department Student Handbook*. Students receive 12 lessons per semester if they register before or during the first week of the semester. To receive credit, a student must have a minimum of 10 lessons. Students registering late are not allowed to make up the lessons they missed. Lessons cannot begin or be registered for after the third week of the semester. All music majors are required to register for a three-quarter hour lesson. Students preparing for a recital are encouraged to register for a one-hour lesson. Voice lessons require regularly scheduled studio voice lab.

**MUL140A • Beginning Piano.** 1 Credits.

A series of class lessons recommended for students who have not had formal piano study. Using the keyboard laboratory, students learn to read music and harmonize simple folk melodies at the piano as well as acquire some basic theory.

*Offered: Fall, spring.*

**MUL141A • Beginning Voice.** 1 Credits.

A series of class lessons, lectures, and student performances to give the beginning vocalist a basic foundation in singing. Incorporates folk, musical theatre, and classic literature.

*Offered: Fall, spring.*

**MUL142A • Beginning Guitar.** 1 Credits.

A series of lessons designed to give the beginning guitarist a foundation in acoustic (nonelectric) guitar, including basic tuning techniques, chords in seven keys, reading of notes on the first five frets, strumming rhythms, fingerpicking, and song leading.

*Offered: Fall, spring. Special Notes: Music education majors may use successful completion of this course to satisfy the guitar proficiency requirement.*

**MUL143A • Introduction to Keyboard Theory.** 1 Credits.

A series of class lessons for music majors and minors who have little or no background in keyboard theory skills.

*Corequisites: Must be taken concurrently with MUS101. Grade exceptions: Graded on an S/U basis. Offered: Fall. Special Notes: Students with more advanced keyboard skills may attempt to test out after registration.*

**MUL144A • Group Voice.** 1 Credits.

A series of lessons given for a group of three to four beginning students. Lessons last one hour and cover basic techniques of singing and performance of folk, musical theatre, or classical literature. Some one-on-one instruction may occur as the class advances.

*Prerequisites: MUL141A or membership in Women's Chorale or Male Chorus. Offered: Fall, spring.*

**MUL242A • Intermediate Guitar.** 1 Credits.

A series of lessons designed to advance the student beyond the foundational guitar techniques introduced in MUL142A, including barred chords, chord alteration, advanced strumming and fingerpicking, performance techniques, guitar music theory, and arranging.

*Prerequisites: MUL142A or consent of instructor. Offered: Spring.*

**MUL243 • Practical Studies in Vocal Performance.** 3 Credits.

Lessons, workshops, and observations of students and professionals on campus and in New York City. Designed to help students increase performance abilities. Pedagogical study and coaching of two pieces from art song, operatic, or musical theatre repertoire prepared prior to course. A final performance is on campus.

*Prerequisites: Instructor approval. Repeatable course May be taken for repeated credit. Offered: Interim, even # years.*

**MUL300 • Applied Composition.** 2 Credits.

Private (or small group) study in composition beginning with single instruments followed by chamber groups and large ensembles. Computer notation and MIDI sequencing also included. Performance of original works encouraged when appropriate or required.

*Prerequisites: MUS202 or consent of instructor. The private lesson fee applies to this course. Offered: Fall, spring.*

**MUL343 • Practical Studies in Vocal Performance.** 3 Credits.

Lessons, workshops, and observations of students and professionals on campus and in New York City. Designed to help students increase performance abilities. Pedagogical study and coaching of two pieces from art song, operatic, or musical theatre repertoire prepared prior to course. A final performance is on campus.

*Prerequisites: Instructor approval. Repeatable course May be taken for repeated credit. Offered: Interim, even # years.*

**MUL443 • Practical Studies in Vocal Performance.** 3 Credits.

Lessons, workshops, and observations of students and professionals on campus and in New York City. Designed to help students increase performance abilities. Pedagogical study and coaching of two pieces from art song, operatic, or musical theatre repertoire prepared prior to course. A final performance is on campus.

*Prerequisites: Instructor approval. Repeatable course May be taken for repeated credit. Offered: Interim, even # years.*

## Music Proficiencies

- **Applied Proficiencies.** All students majoring in music must meet competency performance standards as specified by the department. The levels of proficiency are determined by the student's degree program. Applied performance majors must fulfill Level IV; sacred music majors must fulfill Level III; music education majors must fulfill Level III; B.A. majors must fulfill Level III. Consult the Department of Music for the repertoire required for each level in voice, keyboard, and all instruments.
- **Piano Proficiency.** Expectations and standards are detailed in the *Department of Music Student Handbook*.
- **Guitar Proficiency.** Expectations and Standards are detailed in the *Department of Music Student Handbook*.

## Additional Requirements

- **Recital and Concert Attendance.** Music majors are required to attend 32 on-campus concerts/recitals/Music Hours or approved professional off-campus concerts during each academic year. Expectations are detailed in the *Department of Music Student Handbook*. Music minors are required to attend 64 concerts over a four-year period. Expectations are detailed in the *Department of Music Student Handbook*. Concerts that meet this requirement include faculty recitals, student recitals, and approved professional off-campus concerts.
- **Music Juries.** Music majors and minors taking private lessons must perform on their applied instruments before the music faculty at music juries. The music jury is waived during the semester in which a recital is given or the sophomore interview is taken. A music minor is required to perform before a music jury a minimum of four semesters. The music jury can constitute the 12th lesson for music majors and minors.

## B.A. in Music

### Music Core

MUS101	Music Fundamentals	1
MUS103	Introduction to Music Literature	2
MUS104	Music Theory I	3
MUS195	Music Hour	0
MUS202	Music Theory II	3
MUS203	Music Theory III	3
MUS312	Music History and Literature I	3
MUS313	Music History and Literature II	3
MUS322	Instrumental Literature and Conducting	3
MUS323	Instrumentation	2
MUS324	Choral Literature and Conducting	3
MUL143A	Introduction to Keyboard Theory <sup>1</sup>	1
Performance Organizations <sup>2</sup>		5-6
Private Lessons <sup>2</sup>		5-6

### Major Requirements

MUS495	Half Senior Recital	0
PHI310	Aesthetics	3

**General Education** 51-52

**Electives** 31-32

**Total Credits** 122-126

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Instrumental K–12 majors take 5 credits of performance organizations and 5 credits of private lessons, resulting in 37 credits in the Music Core. All other majors are required to earn 39 credits for their core classes.

## Additional Requirements

- Must be in a performance organization for a minimum of four years.
- Must fulfill recital and concert attendance requirement.
- Must pass the piano proficiency.

## B.Mus. in Applied Performance

### Music Core

MUS101	Music Fundamentals	1
MUS103	Introduction to Music Literature	2
MUS104	Music Theory I	3
MUS195	Music Hour	0
MUS202	Music Theory II	3
MUS203	Music Theory III	3
MUS312	Music History and Literature I	3
MUS313	Music History and Literature II	3
MUS322	Instrumental Literature and Conducting	3
MUS323	Instrumentation	2
MUS324	Choral Literature and Conducting	3
MUL143A	Introduction to Keyboard Theory <sup>1</sup>	1
Performance Organizations <sup>2</sup>		5-6
Private Lessons <sup>2</sup>		5-6

### Major Requirements

MUS301	Music Theory IV	3
MUS395	Junior Recital	0
MUS496	Full Senior Recital	0
PHI310	Aesthetics	3
Select one emphasis from the Emphases tab		10-12

### General Education

51-52

### Electives

18-21

### Total Credits

122-130

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Instrumental K-12 majors take 5 credits of performance organizations and 5 credits of private lessons, resulting in 37 credits in the Music Core. All other majors are required to earn 39 credits for their core classes.

### Additional Requirements:

1. Must be in a performance organization for a minimum of four years.
2. Must fulfill recital and concert attendance requirement.
3. Must pass the piano proficiency.

## Composition

MUL300	Applied Composition	2
Select two from Music Core and four additional		4
Select three of the following:		6
MUS358	Brass Methods	
MUS359	Percussion Methods	
MUS360	String Pedagogy	
MUS362	Woodwind Pedagogy	

### Total Credits

12

## Instrumental Performance

Private Lessons		8
Select one of the following:		2
MUS358	Brass Methods	
MUS359	Percussion Methods	
MUS360	String Pedagogy	



MUS362	Woodwind Pedagogy	
<b>Total Credits</b>		<b>10</b>

## Piano Performance

Private Lessons		4
MUS210	Collaborative Keyboard Skills	2
MUS315	Piano Literature	3
MUS357	Piano Pedagogy	2
<b>Total Credits</b>		<b>11</b>

## B.Mus.Ed. in Music Education

### Music Core <sup>1</sup>

MUS101	Music Fundamentals	1
MUS103	Introduction to Music Literature	2
MUS104	Music Theory I	3
MUS195	Music Hour	0
MUS202	Music Theory II	3
MUS203	Music Theory III	3
MUS312	Music History and Literature I	3
MUS313	Music History and Literature II	3
MUS322	Instrumental Literature and Conducting	3
MUS323	Instrumentation	2
MUS324	Choral Literature and Conducting	3
MUL143A	Introduction to Keyboard Theory <sup>2</sup>	1
Performance Organizations <sup>3</sup>		5-6
Private Lessons <sup>3</sup>		5-6

### Major Requirements

MUS305G	Music in World Cultures <sup>3</sup>	3
MUS495	Half Senior Recital	0
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>3</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU432	Methods in Teaching Elementary Music	3
EDU433	Methods in Teaching Secondary Music	3
EDU434	Middle Level Education Practicum in Music	1
EDU490	Student Teaching Block	15
Select one emphasis from the Emphases tab <sup>2</sup>		4-6
General Education <sup>4</sup>		51-52
<b>Total Credits</b>		<b>135-140</b>

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 131-132 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>3</sup> Instrumental K-12 majors take 5 credits of performance organizations and 5 credits of private lessons, resulting in 37 credits in the Music Core. Vocal K-12 majors take 39 credits in the Music Core.

<sup>4</sup> Instrumental K-12 majors take 6 credits and vocal K-12 majors take 4 credits.

Students must earn a grade of C or better in each content area and education course (MUS, EDU) in the major. Courses with a grade of C- or lower must be repeated.

Students with K-12 licensure in Music Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## Instrumental K-12

MUS358	Brass Methods	2
MUS359	Percussion Methods	2
MUS362	Woodwind Pedagogy	2
<b>Total Credits</b>		<b>6</b>

Additional requirements:

1. Must be in Wind Symphony or University Orchestra for a minimum of four years.
2. Must complete proficiency level 3 on a band or orchestral instrument.
3. Must fulfill recital and concert attendance requirement.
4. Must pass the piano proficiency and guitar proficiency.

## Vocal K-12

MUS363	Vocal Pedagogy	2
MUS366	Italian and English Lyric Diction	1
MUS367 or MUS368		1
<b>Total Credits</b>		<b>4</b>

Additional requirements:

1. Must be in a choral organization for a minimum of four years.
2. Must major in voice. (Keyboard majors must achieve the department's stated vocal proficiency in lieu of majoring in voice.)
3. Must fulfill recital and concert attendance requirement.
4. Must pass the piano proficiency and guitar proficiency.

## Minor in Music

MUS101	Music Fundamentals	1
MUS103	Introduction to Music Literature	2
MUS104	Music Theory I	3
MUS202	Music Theory II	3
MUS312	Music History and Literature I	3
MUS313	Music History and Literature II	3
MUS324	Choral Literature and Conducting	3
MUL143A	Introduction to Keyboard Theory <sup>1</sup>	1
Performance Organizations <sup>2</sup>		2
Private Lessons		2
<b>Total Credits</b>		<b>23</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Must be in a performance organization for a minimum of two years.

Additional Requirement:

1. Must fulfill recital and concert attendance requirement.

In addition to the usual music vocations, students can prepare for the following careers by combining the bachelor of arts major in music with prescribed minors in business or psychology. (Consult with the Department of Music for specific courses.)

*Music Business*

(sales, marketing, commercial composition, recording industry, arts management)

#### *Music Therapy*

(use of music in therapy with individuals with disabilities and others who need human services)

## Natural Sciences

The four 100-level natural sciences courses are required for all elementary education majors to meet the content licensure standards for Minnesota. The courses are each seven weeks in length and include both classroom and laboratory experiences. The courses are inquiry-based and distinct from typical college science courses; the laboratory experiences are designed to build a conceptual understanding necessary for teaching science in the elementary classroom.

### Minor in Natural Sciences

- Science, Technology, Engineering, and Math (STEM) (p. 116) (See Education Department section)

#### **NAS101D • Science Concepts -Life Science.** 2 Credits.

Study of fundamental concepts and processes of life science. Emphasis on the means by which science knowledge is produced through inquiry-based activities, which are an important, active-learning component in elementary school education.

*Prerequisites: Major in elementary education. Offered: Fall, spring. Special Notes: This course is a half-term course. Students may not take this course and another NAS course the same half-term.*

#### **NAS102D • Science Concepts - Earth/Space Science.** 2 Credits.

Study of fundamental concepts and processes of earth/space science. Emphasis on the means by which science knowledge is produced through inquiry-based activities, which are an important, active-learning component in elementary school education.

*Prerequisites: Major in elementary education. Offered: Fall, spring. Special Notes: This course is a half-term course. Students may not take this course and another NAS course the same half-term.*

#### **NAS103D • Science Concepts -Chemistry.** 2 Credits.

Study of fundamental concepts and processes of chemistry. Emphasis on the means by which science knowledge is produced through inquiry-based activities, which are an important, active-learning component in elementary school education.

*Prerequisites: Major in elementary education. Offered: Fall, spring. Special Notes: This course is a half-term course. Students may not take this course and another NAS course the same half-term.*

#### **NAS104D • Science Concepts - Physics.** 2 Credits.

Study of fundamental concepts and processes of physics. Emphasis on the means by which science knowledge is produced through inquiry-based activities, which are an important, active-learning component in elementary school education.

*Prerequisites: Major in elementary education. Offered: Fall, spring. Special Notes: This course is a half-term course. Students may not take this course and another NAS course the same half-term.*

#### **NAS300 • Exploring Applied Concepts in Science, Technology, Engineering, and Math.** 4 Credits.

Using an integrative approach, the course focuses on the nature of science and engineering, scientific argumentation, and scientific inquiry to solve authentic problems in order to develop a greater understanding of STEM as it applies to elementary classrooms.

*Prerequisites: NAS101D; NAS102D; NAS103D; NAS104D; MAT201M; MAT202. A minimum cumulative GPA of 2.75 is required within the PQ courses. Offered: Fall.*

#### **NAS400 • Applied Research in Science, Technology, Engineering, and Math Design.** 4 Credits.

Draws from prior NAS coursework to design, test, and implement a Science, Technology, Engineering, and Math (STEM) unit focusing on a local issue applicable in an elementary classroom. The senior capstone project culminates with a teaching experience followed by a formal presentation of the original engineering design project and demonstration of its application to elementary education.

*Prerequisites: NAS300. Offered: Spring.*

## Nursing

The pre-licensure nursing program offers a four-year sequence leading to the bachelor of science degree. Students are prepared to practice in entry-level professional nursing positions in all types of healthcare agencies. Graduates of the program are eligible to apply to take the NCLEX® licensure examination (for registered nurses). The goals of the nursing department are:

1. To prepare nurses with skills in critical thinking, with the ability to function in both structured and unstructured professional nursing positions, and with the background necessary for advanced education.
2. To prepare students for lifelong learning with a theoretical foundation based on Judeo-Christian principles and the liberal arts and sciences.
3. To express within the nursing profession Christian values through excellence in professional practice, scholarly endeavors, and community service.

Students may enter the program in the prenursing sequence of courses or as transfer students on a space-available basis.

The degree completion program is open to registered nurses (RNs) through an accelerated evening option through the College of Adult & Professional Studies. A Master of Science in Nursing is also offered through the Graduate School.

The baccalaureate program is approved by the Minnesota Board of Nursing and accredited by:

The Commission on Collegiate Nursing Education  
One Dupont Circle NW Suite 530  
Washington, D.C. 20036-1120  
Phone: 202.463.6930

## Majors in Nursing

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## Participation Requirements

The following are **minimum** threshold requirements to be considered for admission into the nursing program. Space is limited, however, and not all qualified applicants are guaranteed admission.

1. Be admitted to Bethel University;
2. Achieve a cumulative Bethel GPA of at least 2.75;
3. Achieve a cumulative GPA of at least 2.75 in the required prerequisite science courses;
4. Applicants must earn a C- or better for all prerequisite science courses;
5. Demonstrate competency in oral and written communication;
6. Demonstrate a level of personal health consistent with safe nursing practice as determined in a physical examination;
7. Provide documentation of current immunizations as required by clinical agencies;
8. Give evidence of personality, character, and emotional stability consistent with the mission of the nursing department and the role and responsibility of the professional nurse;
9. Be recommended for admission into the nursing program by two persons outside the Department of Nursing;
10. Have completed the required prerequisite courses and have sophomore standing;
11. Applicants taking courses more than once will be less competitive. Students can only reapply once for admission to the nursing program;
12. Provide documentation of successful completion of a Certified Nursing Assistant/Nursing Assistant Registered Program prior to beginning the nursing program;
13. Students who submitted a Test of English as a Foreign Language (TOEFL) score as part of their application process to Bethel must have a TOEFL IBT overall score of 84 with a minimum speaking score of 26.

(These scores were established by the Minnesota Board of Nursing as minimum eligibility criteria for taking the licensure examination for registered nurses.)

Application materials and procedures are available from the nursing department for students interested in the traditional baccalaureate nursing program. RN applicants may contact the College of Adult & Professional Studies.

Courses in the nursing program require students to spend substantial time in off-campus clinical settings, such as hospitals, clinics, and public health agencies. Students must furnish their own transportation to and from these clinical sites, some of which may not be conveniently reached by public transportation.

In addition, students should be aware that Minnesota state law requires that healthcare facilities complete background checks on all employees (and students); background checks may include fingerprinting. If an employee (or student) has been convicted of certain crimes, he/she may not be allowed to work in such facilities. All prospective students need to be aware of this law because a student convicted of these crimes may be unable to complete the clinical requirements of the nursing program and, consequently, may not be able to graduate from the program or be eligible to practice as a registered nurse. Any questions should be addressed to:

Minnesota Department of Human Services  
Division of Licensing, Background Study Unit  
444 Lafayette Road  
St. Paul, MN 55155-3842

or

The Minnesota Board of Nursing  
2829 University Ave. Suite 200  
Minneapolis, MN 55414.

Students are required to provide evidence of current health insurance as a condition of beginning the program. Information about health insurance is available through the Office of Student Life. Malpractice insurance is also required (see the Finances section of this catalog).

## Program Performance Requirements

Nursing is a practice discipline, and the baccalaureate nursing education program prepares nurse generalists. All nursing students must demonstrate a wide variety of cognitive, interpersonal, and motor skills. A list of core program performance standards is available from the nursing department. The university will provide reasonable accommodations to eligible students who can demonstrate need based on a qualifying disability in accordance with the applicable law. Students seeking reasonable accommodations must request them in a timely manner in order to avoid scheduling delays. A minimum of 30 days advance notice prior to the start of a semester is required because of the complex nature of clinical and laboratory courses. Consultation related to reasonable accommodations is available through the Office of Disability Services.

## Progression for Students

To progress in the program, the student must meet the Bethel University requirements for academic progress. In addition, a student must:

1. Earn a grade of C or better in BIO248/BIO249 and each nursing course. This indicates satisfactory achievement of objectives and completion of course requirements;
2. Maintain a major GPA of at least 2.75;
3. Function in a safe and ethical manner;
4. Successfully complete each prerequisite nursing course before progressing to the next sequential course;
5. Complete at least half of the credits designated as Nursing (NUR) in residence at Bethel;
6. Successfully complete NUR201, NUR411Z, NUR412, NUR415Z, NUR416, NUR419, NUR425GZ, and NUR426 in residence at Bethel University; and
7. Inform Health Services of any changes in health status that would affect performance as a nursing student.

## Transfer and/or Advanced Standing

Transfer student requirements are found in the Academic Information section of this catalog. Further details on departmental policies and procedures are described in the *Pre-licensure Nursing Program Student Handbook*.

The nursing department requires a score of 4 or better on the AP exams in order for the exams to be used to fulfill the BIO118/BIO118D and CHE101/CHE101D science course prerequisites for the nursing program. However, the nursing department recommends students with a 4 or better take BIO118/BIO118D and CHE101/CHE101D at Bethel. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements.

### **NUR201 • Foundations of Health Ministry.** 2 Credits.

Exploration of personal ability, call, commitment, and vision for health ministry with consideration of strengths and weaknesses of the current healthcare delivery system from social justice, biblical, and historical viewpoints. Examination of the impact of lifestyle and culture on health status of the individual and family that includes physical, psychosocial, and spiritual perspectives. Emphasis on effective communication strategies and the health promotion framework.

*Prerequisites: Acceptance into the nursing program. Corequisites: Concurrent registration in NUR202 is required. Offered: Spring.*

### **NUR202 • Nursing Skills I: Health Assessment.** 2 Credits.

Introduction to assessment of the physical, cultural, psychosocial, and spiritual parameters in individuals and family health within the context of the nursing process.

*Prerequisites: Acceptance into the nursing program. Corequisites: Concurrent registration in NUR201 is required. Offered: Spring.*

### **NUR311 • Nursing Skills II.** 2 Credits.

Development of beginning nursing skills related to caring for clients of various health/illness states. Emphasis on the nursing process, medication administration, communication, and evidence-based skills linked with theoretical content in concurrent courses.

*Prerequisites: BIO248/249; NUR201; NUR202. Corequisites: Must be taken concurrently with NUR313 and NUR315. Offered: Fall.*

### **NUR312 • Nursing Skills III.** 1 Credits.

Development of beginning nursing skills related to caring for clients of various health/illness states. Emphasis on the intravenous medication administration and evidence-based skills linked with theoretical content in concurrent nursing course.

*Prerequisites: NUR311; NUR313; NUR315. Corequisites: Must be taken concurrently with NUR314, NUR316, and NUR318. Offered: Spring.*

### **NUR313 • Nursing Care of Individuals I.** 3 Credits.

Analysis of nursing care relating to individuals experiencing selected acute, chronic, and/or potential health issues. Students use evidence, including clinical knowledge, as a framework for developing nursing diagnosis, interventions, and expected outcomes.

*Prerequisites: BIO248/249; NUR201; NUR202. Corequisites: Must be taken concurrently with NUR311 and NUR315. Offered: Fall.*

### **NUR314 • Nursing Care of Individuals II.** 3 Credits.

Analysis of nursing care relating to individuals experiencing selected acute, chronic, and/or potential health issues. Students use evidence, including clinical knowledge, as a framework for developing nursing diagnoses, interventions, and expected outcomes. This course is a continuation of NUR313.

*Prerequisites: NUR311; NUR313; NUR315. Corequisites: Must be taken concurrently with NUR312, NUR316, and NUR318. Offered: Spring.*

**NUR315 • Nursing Practicum I.** 2 Credits.

A focus on the care of individuals in various health/illness states. Students will implement the nursing process in laboratory and various healthcare settings fulfilling nursing roles with a focus on critical thinking and evidence-based practice.

*Prerequisites:* BIO248/249; NUR201; NUR202. *Corequisites:* Must be taken concurrently with NUR311 and NUR313. *Offered:* Fall.

**NUR316 • Nursing Practicum II.** 5 Credits.

A focus on the care of individuals in various health/illness states. Students will implement the nursing process in laboratory and various healthcare settings, fulfilling nursing roles with a focus on critical thinking and evidence-based practice. This course is a continuation of Nursing Practicum I.

*Prerequisites:* NUR311; NUR313; NUR315. *Corequisites:* Must be taken concurrently with NUR312; NUR314; NUR318. *Offered:* Spring.

**NUR318 • Chronicity: Mental Health Focus.** 2 Credits.

Overview of chronic health issues throughout the lifespan in the context of families and communities with an emphasis on mental health issues.

*Prerequisites:* NUR311; NUR313; NUR315. *Corequisites:* Must be taken concurrently with NUR312; NUR314; NUR316. *Offered:* Spring.

**NUR411Z • Nursing Skills IV.** 1 Credit.

Develop nursing skills used in specialty areas of nursing with a focus on children, families, and populations. Enhance nursing informatics skills in order to improve the quality and safety of healthcare delivery.

*Prerequisites:* NUR312; NUR314; NUR316; NUR318. *Corequisites:* Must be taken concurrently with NUR415Z; NUR419; NUR425GZ. *Offered:* Fall.

**NUR412 • Nursing Skills V.** 1 Credit.

Practice and demonstrate competency in complex clinical situations. Includes consideration of the scope of nursing practice in the integration of technology, skills, resource allocation, interdisciplinary collaboration, and delegation and supervision of nursing personnel.

*Prerequisites:* NUR411Z; NUR415Z; NUR419; NUR425GZ. *Corequisites:* Must be taken concurrently with NUR416 and NUR426. *Offered:* Spring.

**NUR415Z • Nursing Practicum III.** 4 Credits.

Evidence-based practice, analysis of societal issues, and an understanding of cross-cultural relationships to improve nursing care. Synthesis of baccalaureate nursing roles in the care of individuals, families, and communities.

*Prerequisites:* NUR312; NUR314; NUR316; NUR318. *Corequisites:* Must be taken concurrently with NUR411Z; NUR419; NUR425GZ. *Offered:* Fall.

**NUR416 • Nursing Practicum IV.** 4 Credits.

An emphasis on baccalaureate nursing role synthesis. Students use critical thinking, data and technology, evidence-based findings, and principles of leadership to manage complex patient problems and improve client health outcomes.

*Prerequisites:* NUR411Z; NUR415Z; NUR419; NUR425GZ. *Corequisites:* Must be taken concurrently with NUR412 and NUR426. *Offered:* Spring.

**NUR419 • Family Nursing: Peds/OB Focus.** 2 Credits.

Overview of theoretical frameworks and practice applications for family health nursing with an emphasis on pediatric and obstetric clients.

*Prerequisites:* NUR312; NUR314; NUR316; NUR318. *Corequisites:* Must be taken concurrently with NUR411Z; NUR415Z; NUR425GZ. *Offered:* Fall.

**NUR425GZ • Population Focused Nursing Care.** 5 Credits.

Exploration of population-focused nursing care with an emphasis on culturally diverse and underserved populations. Includes consideration of the research process and cultural perspectives. Focuses on the advocacy and collaborator roles within the context of service-learning (1 credit service-learning).

*Prerequisites:* NUR312; NUR314; NUR316; NUR318; [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Fall. *Corequisites:* Must be taken concurrently with NUR411Z; NUR415Z; NUR419.

**NUR426 • Leadership Development.** 4 Credits.

Application of the leadership role in preparation to enter the professional nursing workforce. Integration of critical thinking skills and leadership, management, professional ethics, and Christian worldview frameworks.

*Prerequisites:* NUR411Z; NUR415Z; NUR419; NUR425GZ. *Corequisites:* Must be taken concurrently with NUR412 and NUR416. *Offered:* Spring.

**NUR431 • Conversations about End of Life.** 1 Credit.

Development of advance care planning facilitation skills in the context of faith, cultural, healthcare system, and societal perspectives. A First Steps ACP Facilitator Certificate is available for students who successfully complete ACP Facilitator requirements.

*Prerequisites:* Senior standing in nursing or social work, or consent of instructor. *Offered:* Spring. *Special Notes:* Carries cross-credit in social work.

**NUR481 • Internship in Nursing.** 1-4 Credits.

Provides clinical-based learning opportunities to encourage application of theory and research-based knowledge in clinical practice. Students engage in experiences to enhance the development of their professional nursing role.

*Prerequisites:* Completed junior year of nursing program; acceptance into an approved clinical internship program. *Grade exceptions:* Graded on an S/U basis. *Offered:* Summer.

## B.S. in Nursing

BIO248 & BIO249	Clinical Pathophysiology and Pharmacology and Clinical Pathophysiology and Pharmacology Lab	4
NUR201	Foundations of Health Ministry	2
NUR202	Nursing Skills I: Health Assessment	2
NUR311	Nursing Skills II	2

NUR312	Nursing Skills III	1
NUR313	Nursing Care of Individuals I	3
NUR314	Nursing Care of Individuals II	3
NUR315	Nursing Practicum I	2
NUR316	Nursing Practicum II	5
NUR318	Chronicity: Mental Health Focus	2
NUR411Z	Nursing Skills IV <sup>2</sup>	1
NUR412	Nursing Skills V	1
NUR415Z	Nursing Practicum III <sup>2</sup>	4
NUR416	Nursing Practicum IV	4
NUR419	Family Nursing: Peds/OB Focus	2
NUR425GZ	Population Focused Nursing Care <sup>2</sup>	5
NUR426	Leadership Development	4
<b>Prerequisite Courses:</b>		
BIO118 & 118D	General Biology and General Biology Lab <sup>2</sup>	4
BIO224 & BIO225	Clinical Anatomy and Clinical Anatomy Lab	4
BIO226 & BIO227	Clinical Physiology and Clinical Physiology Lab	4
BIO230 & BIO231	Clinical Microbiology and Clinical Microbiology Lab	4
CHE101 & 101D	Introduction to Chemistry and Introduction to Chemistry Lab <sup>2</sup>	4
CHE106 & 106D	Introduction to Nutrition and Introduction to Nutrition Lab <sup>2</sup>	4
PSY100	Introduction to Psychology	3
PSY203	Lifespan Development	3
<b>General Education</b> <sup>1</sup>		51-52
<b>Total Credits</b>		<b>128-129</b>

<sup>1</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 122 credits.

<sup>2</sup> A student may also choose to use this course to meet a General Education requirement.

A course in ethical decision making must be included within the total program. Courses approved to meet this requirement include:

ENS335K	Environmental Ethics	3
GES390K	Decision-Making and Medical Technology	3
GES405P	Ethical Relationships: Choosing the Good in Family and Community Life	3
GES420P	Bioethics	3
PHI110N	Contemporary Moral Issues	3
THE263	Christian Social Ethics	3

It is highly recommended that nursing students fulfill the General Education mathematics requirement by taking a statistics course, preferably PSY230M.

## Philosophy

Philosophy is devoted to providing a learning environment in which students broaden their perspectives, stretch their thinking, and learn to reason and communicate in a critical, clear, and consistent manner. Major areas of philosophical inquiry are explored with reference to both historical and contemporary thought. Together, students and faculty pursue answers to the perennial questions involved in the common search for meaning, truth, and values. Through dialogue, disciplined thinking and writing, and mutual concern and respect, an attempt is made to articulate God's truth as it relates to these basic questions. Emphasis is placed on the integration of philosophy with other disciplines and the development of Christian perspectives.

A minor in philosophy is of special value for most disciplines in that it provides a framework for the integration of study and learning, as well as an emphasis on the basic tools of language and reasoning. Students with a major in philosophy often seek further study in theology, law, biblical studies,



and history, in addition to graduate work in philosophy. Philosophy provides an excellent background for careers in the business world, government service, the legal profession, and medicine and related health fields, as well as in teaching or ministry. Not only does philosophy enhance professional credentials, it also aids students in becoming liberally educated people with a variety of interests to pursue throughout the rest of their lives.

## Majors in Philosophy

- B.A. in Philosophy (p. 199)

## Minor in Philosophy

- Philosophy (p. 199)

### **PHI105N • Meaning, Persons, and God.** 3 Credits.

Addresses some central questions of philosophy about the meaning of life, the nature of morality, and the existence of God. Takes students on a philosophical journey with a professor, explores answers proposed by great thinkers of the past and present, and helps students develop their own ideas.

*Offered: Fall, interim, spring.*

### **PHI110N • Contemporary Moral Issues.** 3 Credits.

A moral analysis of abortion, euthanasia, capital punishment, sexual morality, and self-interest. Ethical approaches of Plato, Hobbes, Butler, Bentham, Mill, Ross, Rawls, and Kant. Development of principles of love and justice, and the role of a Christian in society. Emphasis on moral decision making.

*Offered: Fall, interim, spring.*

### **PHI120N • Philosophy Through Film.** 3 Credits.

Viewing and discussion of films that raise intriguing philosophical issues, combined with reading classical texts in philosophy in order to develop reflective, reasoned responses to some of life's basic questions.

*Offered: Spring, even # years.*

### **PHI125M • Introduction to Logic.** 3 Credits.

A study of standard forms of deductive and inductive logical reasoning, critical thinking, and informal fallacies. Covers rules for evaluating arguments and acquaints students with ways to distinguish good arguments from bad ones, with the goal of problem solving and making reasonable decisions about beliefs and actions.

*Offered: Spring.*

### **PHI210L • The Modern Mind.** 3 Credits.

Themes and movements that have shaped European and American culture in the last 200 years, drawing on significant works in philosophy, literature, and art. Reflection on the personal and cultural meanings of living in the modern age.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall.*

### **PHI220L • Philosophies of Race and Gender in America.** 3 Credits.

Investigates the impact of theories of race and gender on life and thought in contemporary America. Analyzes the philosophical concepts and arguments underlying the historical development of these theories. Critically evaluates the philosophical commitments inherent in the moral and religious language used in discussions of race and gender in America.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall.*

### **PHI223L • Introduction to Gender Studies.** 3 Credits.

Provides a philosophical grounding in the field of Gender Studies. Introduces a broad spectrum of theories and ideas about gender, and explores key debates within the field. Examines how theories of gender emerge as well as shape and influence individual lives and social contexts in America and beyond.

*Offered: Spring.*

### **PHI230U • Medieval Islamic Philosophy.** 3 Credits.

Most Westerners would be surprised to learn that from 800-1200 A.D., Arabic civilization was the world's center of intellectual, cultural, and economic developments. A study of the philosophical and theological thought developed in the Arabic world during the medieval period, and its influence on later intellectual traditions, including the Western Christian tradition.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring.*

### **PHI235L • Film and the Modern Sensibility.** 3 Credits.

An exploration of film as an art form and as an expression of the meanings of "modernism." Why film is a uniquely modern art form is addressed, as well as those themes that identify the "modern sensibility." Films such as Citizen Kane, Rashomon, Do the Right Thing, Beloved, Tender Mercies, Apocalypse Now, and others are viewed and analyzed.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Occasionally interim. Special Notes: Carries cross-credit in English.*

### **PHI251 • History of Philosophy I.** 4 Credits.

Development of Western philosophy from its origin with the ancient Greeks to the time of the Renaissance, emphasizing the works of Plato, Aristotle, Augustine, and Thomas Aquinas.

*Prerequisites: One philosophy course. Offered: Fall.*

**PHI252 • History of Philosophy II.** 4 Credits.

Philosophical traditions beginning with the rise of modern science, including the Continental rationalists, British empiricists, Kant, and Hegel, and tracing 19th century reactions to idealism and subsequent developments in Continental and Anglo-American philosophy in the 20th century.

*Prerequisites:* One philosophy course. *Offered:* Spring.

**PHI301 • Symbolic Logic.** 4 Credits.

A study of symbolic logic including standard translations from arguments in natural language, methods of quantification and formal proofs of validity, and an introduction to modal logic. Focus on the application of symbolic logic to philosophical arguments.

*Prerequisites:* PHI125M or MAT241. *Offered:* Occasionally.

**PHI302 • Philosophy and Film.** 4 Credits.

What can philosophy contribute to the critical discussion of film? How does film present philosophical arguments? Why is film a unique art form? Are the worlds of film real? In what ways do films have meaning? Questions such as these are considered in the context of classic and contemporary films, as well as recent philosophical discussions of film.

*Prerequisites:* FLM200 and one philosophy course, or consent of the instructor. *Offered:* Occasionally spring.

**PHI305G • Philosophy of Religion.** 3 Credits.

Study of issues central to religious belief. Explores different approaches to the relation of faith and reason, the sources of religious knowledge, the nature of God, the problem of evil, religious diversity, and the afterlife.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Spring.

**PHI310 • Aesthetics.** 3 Credits.

Problems and perspectives concerning the nature of art and aesthetic experience. Questions such as "What is art?" "What is good art?" and "What good is art?" in the context of the visual arts, music, literature, and film. The relationships among aesthetic, moral, and religious values are explored.

*Prerequisites:* GES125. *Offered:* Fall.

**PHI315 • Kierkegaard and Existentialism.** 4 Credits.

The meanings and influence of the works of Søren Kierkegaard, 19th century Danish philosopher. Topics may include Kierkegaard's philosophical style, his views on the nature of the self and authentic existence, freedom and despair, religious faith, Kierkegaard as social critic, and the elaboration of these themes by other existentialists. Readings from Kierkegaard's works and those of later existentialists.

*Prerequisites:* One philosophy course. *Offered:* Spring, odd # years.

**PHI316 • Consciousness: Psychology and Philosophy in Dialogue.** 3 Credits.

A team-taught investigation of ancient, medieval, and modern philosophies of consciousness and the historical roots of contemporary psychology. Shows how philosophical and psychological theories of consciousness transcend disciplinary boundaries. Focuses on interaction between philosophy and psychology, emphasizing the origins of cognitive science in philosophy of mind and consciousness.

*Prerequisites:* GES130, GES146, GES244; PSY100 or one philosophy course. *Offered:* Spring, odd # years. *Special Notes:* Carries cross-credit in psychology.

**PHI320 • Ethics: Theory and Practice.** 4 Credits.

Principal ethical theories and their application to problems concerning the individual and society. Readings in classical and contemporary sources focus on questions such as the meaning and justification of moral judgments, ethical relativism, and the nature of moral reasoning.

*Prerequisites:* One philosophy course. *Offered:* Spring.

**PHI323 • Social and Political Philosophy.** 4 Credits.

A study and analysis of various theories of human interaction and association. Address questions such as: What are the differences among a community, a society, and a state? What is the role of the individual in each of these associations? What makes a social organization just? .

*Prerequisites:* One philosophy course. *Offered:* Occasionally.

**PHI335K • Environmental Ethics.** 3 Credits.

An examination of the intersection of science, society, and technology as they pertain to issues in environmental ethics. The course moves from theory by considering science, society, and technology philosophically to application by concluding with a major research project on an applied issue in environmental ethics involving scientific data and technological choice.

*Prerequisites:* Laboratory Science (D) Course; Mathematics (M) course. *Offered:* Fall, interim. *Special Notes:* Carries cross-credit in environmental studies.

**PHI340K • Philosophy of Science.** 3 Credits.

Nature of scientific method and knowledge, with special attention given to current issues in the philosophy of science. Ways in which scientific explanations relate to religious and philosophical explanations. Both natural science and social science applications.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. One philosophy course recommended. *Offered:* Spring.

**PHI360 • Classics in Western Political Philosophy.** 4 Credits.

Selected political theorists. Such writers as Plato, Aristotle, early Christian writers, Machiavelli, Luther, Calvin, Locke, Marx, and Niebuhr. Concentrates on primary sources.

*Prerequisites:* One course in political science, philosophy, or European history; junior standing. *Offered:* Spring, even # year. *Special Notes:* Carries cross-credit in political science and history.

**PHI365 • Topics in Philosophy.** 4 Credits.

Intensive analysis of a philosophical issue or a major philosophical figure to be announced prior to registration.

*Prerequisites:* One course in philosophy. Repeatable course Students may repeat the course for credit provided a different topic or philosopher is studied. *Offered:* Fall or spring.

**PHI375G • Asian Philosophy.** 3 Credits.

Selected Asian philosophical streams drawn from Hinduism, Buddhism, Confucianism, Shintoism, and the contemporary Kyoto school. Readings from religious treatises, philosophical works, and literature, with examples from the arts to encourage an understanding of Eastern worldviews, especially Japan. Persons, ethics, and aesthetics.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Fall.

**PHI401 • Epistemology and Metaphysics.** 4 Credits.

Topics such as the nature and meaning of knowledge, the foundations and limits of knowledge and belief, the problem of universals, the mind-body relation, and the freedom-determinism debate. Traditional and contemporary perspectives.

*Prerequisites:* Two courses in philosophy. Offered: Spring.

**PHI499 • Senior Seminar.** 4 Credits.

A capstone course in which students and faculty consider contemporary issues in philosophy as well as the relationship between philosophy and Christian faith.

*Prerequisites:* Philosophy major or minor with senior standing, or consent of the instructor. Offered: Fall.

## B.A. in Philosophy

PHI251	History of Philosophy I	4
PHI252	History of Philosophy II	4
PHI320	Ethics: Theory and Practice	4
PHI401	Epistemology and Metaphysics	4
PHI499	Senior Seminar	4
Electives from philosophy courses, of which at least six credits must be from 300 level or above		10
General Education		51-52
Electives		41-42
<b>Total Credits</b>		<b>122-124</b>

## Minor in Philosophy

PHI251	History of Philosophy I	4
or PHI252	History of Philosophy II	
Electives from philosophy courses, of which six credits must be 300-level or above		14
<b>Total Credits</b>		<b>18</b>

A philosophy minor can complement nearly any major at Bethel. Here are some suggested tracks, with recommended courses that fit well with particular majors and pre-professional programs. These tracks are suggestions only.

## Business Track

PHI125M	Introduction to Logic	3
PHI251	History of Philosophy I	4
or PHI252	History of Philosophy II	
PHI320	Ethics: Theory and Practice	4
PHI335K	Environmental Ethics	3
Electives		4
<b>Total Credits</b>		<b>18</b>

## Pre-Healthcare Professions Track

PHI251	History of Philosophy I	4
or PHI252	History of Philosophy II	
PHI320	Ethics: Theory and Practice	4
PHI340K	Philosophy of Science	3
Electives		7
<b>Total Credits</b>		<b>18</b>

## Pre-Law Track

PHI125M	Introduction to Logic	3
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PHI251	History of Philosophy I	4
or PHI252	History of Philosophy II	
Electives (11 credits of which 6 must be 300 level or above)		11
<b>Total Credits</b>		<b>18</b>

## Pre-Seminary Track

PHI251	History of Philosophy I	4
PHI252	History of Philosophy II	4
PHI305G	Philosophy of Religion	3
Electives (7 credits of which 3 must be 300-level or above)		7
<b>Total Credits</b>		<b>18</b>

## Physics

The Department of Physics seeks to prepare students in a liberal arts setting for careers in physics, engineering, and related fields. Students oriented toward engineering careers are encouraged to consider the dual-degree program in engineering and liberal arts (listed in the Engineering section of this catalog), the applied physics major, and the major in physics followed by a graduate program in engineering. The department is also committed to making physics a significant component of the liberal arts experience for other Bethel students.

**Advanced Placement:** The physics department requires a score of 4 or better on the AP exam in order for the exam to be used to fulfill course requirements in the majors it offers. Students with a score of 3 will receive elective credit or receive credit toward General Education requirements. Students should consult the department chair with questions on AP exams and requirements for majors.

## Majors in Physics

- B.A. in Physics (p. 202)
- B.S. in Physics (p. 205)
- B.S. in Applied Physics (p. 204)
- B.A. in Science Education 5-12: Physics Emphasis (p. 203)
- B.A. in Engineering (p. 118) (See Engineering section)

## Minor in Physics

- Physics (p. 206)

### PHY102 • Concepts in Physics. 3 Credits.

Physical perspective of the universe designed for liberal arts students. Topics from mechanics, wave motion (including sound and light), and atomic and nuclear physics. Lecture demonstrations and laboratories stress a clear understanding of observed phenomena.

*Corequisites: Concurrent registration in PHY102D is required. Offered: Spring.*

### PHY102D • Concepts in Physics Lab. 1 Credits.

Laboratory experience accompanying PHY102.

*Corequisites: Concurrent registration in PHY102 is required. Offered: Spring.*

### PHY112 • Introduction to Astronomy. 3 Credits.

The concepts, techniques, and tools of astronomy and astrophysics for nonscience students. Includes historical overview; identification of constellations; telescopes; the nature of light, atomic spectra, and structure; the nuclear physics of stars; the life cycle of stars; and current theories of the fate of the universe.

*Corequisites: Concurrent registration in PHY112D is required. Offered: Fall.*

### PHY112D • Introduction to Astronomy Lab. 1 Credits.

Laboratory experience accompanying PHY112. Includes optics, atomic spectra, and observations with simple instruments and telescopes.

*Corequisites: Concurrent registration in PHY112 is required. Offered: Fall.*

### PHY202 • Introductory Physics I. 3 Credits.

Mechanics, thermal properties of matter, and mechanical waves, including laboratory exercises.

*Prerequisites: MAT123M, MAT124M, or solid understanding and competency in high school mathematics as demonstrated by at least one of the following: a Math ACT score of at least 23, 519 on the Math portion of the SAT, a Math Placement Test score of at least 3. Corequisites: Concurrent registration in PHY202D is required. Offered: Fall.*

### PHY202D • Introductory Physics I Lab. 1 Credits.

Laboratory experience accompanying PHY202.

*Corequisites: Concurrent registration in PHY202 is required. Offered: Fall.*

**PHY206 • Introductory Physics II.** 3 Credits.

Electricity and magnetism, sound waves, optical phenomena, and modern physics, including laboratory exercises.

*Prerequisites:* PHY202/202D. *Corequisites:* Concurrent registration in PHY207 is required. *Offered:* Spring.

**PHY207 • Introductory Physics II Lab.** 1 Credits.

Laboratory experience accompanying PHY206.

*Corequisites:* Concurrent registration in PHY206 is required. *Offered:* Spring.

**PHY260 • Careers in Engineering and Physics Seminar.** 1 Credits.

Focus on developing careers in high-technology fields such as engineering and physics. Emphasis on exploring some of the wide variety of specific careers possible through methods such as video, lecture, tours, and guest speakers. Development of practical professional skills such as writing resumes and cover letters, accumulating connections and experience, and developing techniques for interviewing.

*Prerequisites:* PHY296/297. *Offered:* Fall. *Special Notes:* Carries cross-credit in engineering.

**PHY292 • General Physics I.** 3 Credits.

Kinematics, mechanics, and conservation principles, including laboratory exercises.

*Prerequisites:* MAT124M (may be taken concurrently). *Corequisites:* Concurrent registration in PHY292D is required. *Offered:* Fall.

**PHY292D • General Physics I Lab.** 1 Credits.

Laboratory experience accompanying PHY292.

*Corequisites:* Concurrent registration in PHY292 is required. *Offered:* Fall.

**PHY296 • General Physics II.** 3 Credits.

Electricity, magnetism, thermodynamics, sound waves, and optics.

*Prerequisites:* PHY292/292D (with a grade of C or better); MAT125 (may be taken concurrently). *Corequisites:* Concurrent registration in PHY297 is required. *Offered:* Spring.

**PHY297 • General Physics II Lab.** 1 Credits.

Laboratory experience accompanying PHY296.

*Corequisites:* Concurrent registration in PHY296 is required. *Offered:* Spring.

**PHY302 • Electronics.** 3 Credits.

Fundamentals of digital and analog electronics intended for scientists and engineers.

*Prerequisites:* PHY296/297 (grade of C or better); MAT124M. *Corequisites:* Concurrent registration in PHY303 is required. *Offered:* Fall.

**PHY303 • Electronics Lab.** 1 Credits.

Laboratory experience accompanying PHY302. Extensive laboratory exercises and a choice of projects provide hands-on experience with circuits using transistors, operational amplifiers, logic gates, flip-flops, and other devices.

*Corequisites:* Concurrent registration in PHY302 is required. *Offered:* Fall.

**PHY312 • Modern Physics.** 3 Credits.

Relativity, quantum theory, atomic structure, nuclear structure, and elementary particles.

*Prerequisites:* PHY296/297 (grade of C or better); MAT223. *Corequisites:* Concurrent registration in PHY313 is required. *Offered:* Spring.

**PHY313 • Modern Physics Lab.** 1 Credits.

Atomic and nuclear laboratory experiments accompanying PHY312.

*Corequisites:* Concurrent registration in PHY312 is required. *Offered:* Spring.

**PHY320 • Mathematical Methods in Physics and Engineering.** 4 Credits.

Development of skill in mathematical techniques useful in the solution of physics and engineering problems. Included are vector analysis; line and surface integrals; Fourier analysis; partial differential equations; and linear algebra topics such as basis, dimension, matrices, eigenvalues/eigenvectors.

*Prerequisites:* MAT222; MAT223. *Offered:* Fall. *Special Notes:* Carries cross-credit in engineering.

**PHY332 • Optics.** 3 Credits.

Principles of geometrical and physical optics.

*Prerequisites:* PHY312/313; MAT223. *Corequisites:* Concurrent registration in PHY333 is required. *Offered:* Spring, even # years.

**PHY333 • Optics Lab.** 1 Credits.

Laboratory experience accompanying PHY332 emphasizing physical optics measurements, laser technology, and holography.

*Corequisites:* Concurrent registration in PHY332 is required. *Offered:* Spring, even # years.

**PHY340 • Mechanics.** 4 Credits.

Particle dynamics, conservative motion, central forces, accelerated coordinate systems, and Lagrange's equations of motion.

*Prerequisites:* PHY296/297 (grade of C or better); MAT222; MAT223. *Offered:* Spring.

**PHY352 • Computer Methods in Physics and Engineering.** 3 Credits.

Application of the computer to solving applied problems of interest to physicists and engineers. Computer techniques are developed for numerical methods, simulation models, and data acquisition and control in the laboratory.

*Prerequisites:* MAT223; PHY296/297 (grade of C or better) or consent of instructor. PHY302/303 is recommended. *Corequisites:* Concurrent registration in PHY353 is required. *Offered:* Spring. *Special Notes:* Carries cross-credit in engineering.

**PHY353 • Computer Methods in Physics and Engineering Lab.** 1 Credits.

Laboratory experience accompanying PHY352.

*Corequisites: Concurrent registration in PHY352 is required. Offered: Spring. Special Notes: Carries cross-credit in engineering.*

**PHY365 • Physics Research Seminar.** 1 Credits.

An introduction to research in physics and the development of scientific writing skills. Emphasis placed on preparing for departmental research experiences such as PHY490 and external research experiences such as those found in industry, summer fellowship programs, and graduate schools.

*Prerequisites: PHY260; PHY312/313; junior standing; a major in the physics department. Offered: Spring.*

**PHY400 • Electricity and Magnetism.** 4 Credits.

Electro- and magnetostatics, electric and magnetic fields, and electromagnetic waves.

*Prerequisites: PHY296/297 (grade of C or better); MAT222; MAT223. Offered: Fall, odd # years.*

**PHY410 • Thermodynamics.** 4 Credits.

Laws of thermodynamics, conditions for thermodynamic equilibrium, and fundamentals of statistical mechanics.

*Prerequisites: PHY296/297 (grade of C or better); MAT223. PHY312/313 is strongly recommended. Offered: Spring, odd # years.*

**PHY422 • Fluid Mechanics.** 3 Credits.

Laws of statics, kinematics, and dynamics applied to fluid mechanics. Integral and differential conservation laws for mass, momentum, and energy. Dimensional analysis, viscous pipe flow, boundary layers, separated flows, and potential flow.

*Prerequisites: PHY296/297 (grade of C or better); MAT223. Corequisites: Concurrent registration in PHY423 is required. Offered: Fall, odd # years. Special Notes: Carries cross-credit in engineering.*

**PHY423 • Fluid Mechanics Lab.** 1 Credits.

Laboratory experience accompanying PHY422.

*Corequisites: Concurrent registration in PHY422 required. Offered: Fall, odd # years. Special Notes: Carries cross-credit in engineering.*

**PHY424 • Condensed Matter and Materials.** 3 Credits.

Explores theory and application of condensed matter physics including semiconductors, optical properties of metals, dielectrics, magnetism, and liquid crystals. Includes the study of behavior at the nanoscale and practical concerns for device fabrication.

*Prerequisites: PHY302/303 or PHY312/313. Corequisites: Concurrent registration in PHY425 is required. Offered: Fall, even # years.*

**PHY425 • Condensed Matter and Materials Lab.** 1 Credits.

Laboratory experience accompanying PHY424 explores techniques such as scanning electron microscopy, Raman microscopy, thin film deposition, and lithography.

*Corequisites: Concurrent registration in PHY424 required. Offered: Fall, even # years.*

**PHY432 • Topics in Contemporary Optics.** 3 Credits.

Fourier optics, theory of coherence, quantum optics, nonlinear optics, and the physics of lasers.

*Prerequisites: PHY312/313; MAT222; MAT223. Concurrent registration in PHY433 is required. Offered: Spring, odd # years.*

**PHY433 • Topics in Contemporary Optics Lab.** 1 Credits.

Laboratory experience accompanying PHY432.

*Corequisites: Concurrent registration in PHY432 is required. Offered: Spring, odd # years.*

**PHY440 • Quantum Mechanics.** 4 Credits.

Concepts and techniques of quantum mechanics.

*Prerequisites: PHY312/313; MAT222; MAT223. Offered: Spring, even # years.*

**PHY450 • Topics in Applied Physics and Engineering.** 4 Credits.

Topics selected from various fields of engineering and applied physics for the purpose of illustrating the practical application of physical principles. Emphasis on developing the skills and viewpoints commonly used by engineers and industrial physicists. The field of engineering or applied physics is announced prior to registration.

*Prerequisites: PHY320 (may be taken concurrently); MAT222. Repeatable course Course may be repeated when a different topic is emphasized. Offered: Occasionally. Special Notes: Carries cross-credit in engineering.*

**PHY481 • Internship in Physics.** 1-4 Credits.

A practical experience in an off-campus professional setting in which the student applies the skills and perspectives of a physicist. Designed by student in consultation with a faculty member.

*Prerequisites: Major in applied physics or physics; junior or senior standing. Offered: Fall, spring.*

**PHY490 • Research.** 3 Credits.

An opportunity for individual student projects under the supervision of the faculty.

*Prerequisites: Senior standing; PHY365; major in physics department. Offered: Fall, spring.*

## B.A. in Physics

PHY260	Careers in Engineering and Physics Seminar	1
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4



PHY296 & PHY297	General Physics II and General Physics II Lab	4
PHY302 & PHY303	Electronics and Electronics Lab	4
PHY312 & PHY313	Modern Physics and Modern Physics Lab	4
PHY320	Mathematical Methods in Physics and Engineering	4
Electives from 300- or 400-level physics courses, one of which must be PHY332/333, PHY432/433, or PHY490		12
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT222	Differential Equations	3
MAT223	Multivariable Calculus	3
General Education		51-52
Electives		24-25
<b>Total Credits</b>		<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## B.A. in Science Education 5-12: Physics Emphasis

PHY112 & 112D	Introduction to Astronomy and Introduction to Astronomy Lab <sup>1</sup>	4
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
PHY302 & PHY303	Electronics and Electronics Lab	4
PHY312 & PHY313	Modern Physics and Modern Physics Lab	4
PHY352 & PHY353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
BIO118 & 118D	General Biology and General Biology Lab <sup>1</sup>	4
CHE113 & 113D	General Chemistry I and General Chemistry I Lab <sup>1</sup>	4
CHE214 & CHE215	General Chemistry II and General Chemistry II Lab	4
EDU200	Introduction to Education	3
EDU201	Introduction to Education Field Experience	1
EDU203	School Health and Drugs	2
EDU220	Introduction to Middle Level Education	3
EDU240	Educational Psychology	3
EDU241	Educational Psychology Field Experience	1
EDU317GZ	Educational Equity <sup>1</sup>	3
EDU320	Pedagogy and the Young Adolescent Learner	2
EDU420	Methods in Teaching Secondary Science	3
EDU429	Science Education Practicum in grades 5-8 or 5-12	1
EDU490	Student Teaching Block	15
GEL168 & 168D	Geology and Geology Lab <sup>1</sup>	4
MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT223	Multivariable Calculus	3



General Education <sup>2</sup>

51-52

**Total Credits****139-140**<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.<sup>2</sup> Because of possible double counting between General Education and the major, the actual total can be reduced to 129-130 credits.

Students must earn a grade of C or better in each content area or education course in the major (BIO, CHE, EDU, GEL, MAT, PHY). Courses with grades of C- or lower must be repeated.

Students with 5-12 licensure in Science Education may choose one or more Middle Level Endorsements. See endorsement area listing under Major in Elementary Education with Middle Level Endorsement in the Education section of this catalog.

## B.S. in Applied Physics

PHY260	Careers in Engineering and Physics Seminar	1
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
PHY302 & PHY303	Electronics and Electronics Lab	4
PHY312 & PHY313	Modern Physics and Modern Physics Lab	4
PHY320	Mathematical Methods in Physics and Engineering	4
PHY340	Mechanics	4
PHY352 & PHY353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
PHY365	Physics Research Seminar	1
PHY490	Research	3
CHE208 & 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	4
COS205	Scientific Computing	3
MAT125	Calculus 2	4
MAT223	Multivariable Calculus	3
Select one emphasis from the Emphases tab		18-24
General Education		51-52
Electives		6-12
<b>Total Credits</b>		<b>122-135</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Biomedical Emphasis (24 credits)

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	4
BIO216 & BIO217	Human Physiology and Human Physiology Lab	4
PHY400	Electricity and Magnetism	4
PHY422 & PHY423	Fluid Mechanics and Fluid Mechanics Lab	4
PHY424 & PHY425	Condensed Matter and Materials and Condensed Matter and Materials Lab	4
<b>Total Credits</b>		<b>24</b>

## Computational Emphasis (18 credits)

COS351	High-Performance Computing	3
MAT222	Differential Equations	3
MAT241	Discrete Mathematics	3
MAT330	Probability and Statistics	3
MAT344	Numerical Methods	3
MAT376	Operations Research	3
<b>Total Credits</b>		<b>18</b>

## Mechanics Emphasis (19 credits)

ENR308	Statics and Mechanics of Materials	4
MAT222	Differential Equations	3
PHY410	Thermodynamics	4
PHY422 & PHY423	Fluid Mechanics and Fluid Mechanics Lab	4
PHY424 & PHY425	Condensed Matter and Materials and Condensed Matter and Materials Lab	4
<b>Total Credits</b>		<b>19</b>

## Optics Emphasis (19 credits)

MAT222	Differential Equations	3
PHY332 & PHY333	Optics and Optics Lab	4
PHY400	Electricity and Magnetism	4
PHY432 & PHY433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	4
PHY440	Quantum Mechanics	4
<b>Total Credits</b>		<b>19</b>

## B.S. in Physics

PHY260	Careers in Engineering and Physics Seminar	1
PHY292 & 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY296 & PHY297	General Physics II and General Physics II Lab	4
PHY302 & PHY303	Electronics and Electronics Lab	4
PHY312 & PHY313	Modern Physics and Modern Physics Lab	4
PHY320	Mathematical Methods in Physics and Engineering	4
Select one of the following sequences:		4
PHY332 & PHY333	Optics and Optics Lab	
PHY432 & PHY433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	
PHY340	Mechanics	4
PHY365	Physics Research Seminar	1
PHY400	Electricity and Magnetism	4
PHY410	Thermodynamics	4
PHY440	Quantum Mechanics	4
PHY490	Research	3
COS205	Scientific Computing	3

MAT124M	Calculus 1 <sup>1</sup>	4
MAT125	Calculus 2	4
MAT222	Differential Equations	3
MAT223	Multivariable Calculus	3
Select one of the following:		3-4
MAT344	Numerical Methods	
PHY352 & PHY353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	
General Education		51-52
Electives		6-8
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Physics

Select one of the following sequences:		8
PHY202 & 202D & PHY206 & PHY207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab <sup>1</sup>	
PHY292 & 292D & PHY296 & PHY297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab <sup>1</sup>	
PHY302 & PHY303	Electronics and Electronics Lab	4
PHY312 & PHY313	Modern Physics and Modern Physics Lab	4
Select one of the following:		4
PHY332 & PHY333	Optics and Optics Lab	
PHY340	Mechanics	
PHY410	Thermodynamics	
<b>Total Credits</b>		<b>20</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Political Science

Political science is the study of power, justice, liberty, and order, whether at the local community level, nationally, or internationally. How can we best organize our common life together? How, in fact, do we, and with what results? How should we, and according to what standards or values? Americans are still working out the answers to such questions, whether in terms of the president's latest foreign policy move, a decision by the local board of education to close a neighborhood school, efforts to alleviate world hunger, or the more abstract questions of political philosophy.

Political science courses are concerned with such topics as Christian political values; the place of the individual in relation to larger organizations; the ways governments make and administer policies; comparative government, foreign policy, and international relations; and contemporary political ideologies. The aim throughout is to enable students to function more effectively within the complexities of the modern world by providing a broad competence in terms of knowledge and how to use it, and by giving careful attention to the spiritual values implicit in most political choices. Political science courses stress developing the operational, analytic, and imaginative skills required for success in virtually all areas of modern society, including business, law, government, education, and ministry, and for responsible Christian citizenship in today's world.

## Special Study Opportunities

All students are strongly encouraged to take advantage of at least one special study opportunity as part of their major or minor, such as:

- American Studies Program in Washington, D.C.
- Guatemala Term
- Latin American Studies Program

- Spain Term
- Internships (Minnesota State Legislature, local government, political campaigns, or interest groups)
- Foreign study (full year, one semester, or interim)
- Directed study

## Majors in Political Science

- B.A. in Political Science (p. 209)
- B.A. in Business and Political Science (p. 178) (See Multidisciplinary section)
- B.A. in International Relations (p. 179) (See Multidisciplinary section)
- B.A. in Social Studies Education 5-12 (p. 180) (See Multidisciplinary section)
- B.A. in Third World Studies (p. 181) (See Multidisciplinary section)
- Pre-Law Education (p. 210) (See Pre-Professional section)

## Minor in Political Science

- Political Science (p. 210)

### **POS100 • American Politics and Government.** 3 Credits.

Structure and workings of major parts of the United States national government, such as the Constitution, the presidency, Congress, the courts, the electoral process, and others. How these institutions help Americans deal with significant current issues.

*Offered: Fall, spring.*

### **POS202U • Introduction to International Relations.** 3 Credits.

How governments interact to further their different political, military, and economic interests; basic factors affecting international cooperation and conflict; topics such as summit meetings, terrorism, arms control, and food and energy resources distribution; one or more international crisis simulation exercises.

*Prerequisites: Second-semester freshman standing or higher; GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall, spring.*

### **POS205 • Introduction to Comparative Politics.** 3 Credits.

An introduction to the subfield of Comparative Politics with special emphasis on the nature, history, and development of political regimes. Systems to be covered include Western democracies, communist and post-communist states, military dictatorships, and politically developing states.

*Offered: Fall.*

### **POS211 • The Political Quest.** 3 Credits.

Major problems of politics and international relations, such as the proper goals of political life, the nature of justice, and the role of the state. Methods of inquiry. Development of the student's personal political stance and its relation to his or her maturing faith.

*Prerequisites: One political science course. Offered: Fall, odd # years, spring.*

### **POS216L • American Constitutional History.** 3 Credits.

Examination of the origins and development of American constitutional ideas and institutions from the colonial period to the present. Particular attention paid to the historical connections between major constitutional cases and broader social, political, economic, and cultural trends.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in history.*

### **POS219L • Public Leadership.** 3 Credits.

Principles of public leadership and challenges for leaders to meet in the modern age; American experiences with leaders in various roles.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Occasionally.*

### **POS221L • American Political Ideologies.** 3 Credits.

Major modern American ideologies. Liberalism, conservatism, democratic socialism, anarchism, liberation theology, fascism, and gender and ethnic politics. Christian interfaces with various political theories.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Fall.*

### **POS230L • Politics and Religion in the United States.** 3 Credits.

Examines the historical and contemporary relationship between religion and politics in the United States. Divisions and political affiliations of various religious communities are considered alongside discussion of secularism, pluralism, and civil religion in America.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in religious studies.*

### **POS241L • Revolution and Political Development.** 3 Credits.

Theory and process of modernization, with special emphasis on the Anglo-American historical experience; examinations of U.S. efforts to promote democracy internationally in Europe, Asia, and the Middle East since World War II.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in history.*

**POS304 • Political Parties and Elections.** 3 Credits.

Examines the role of political parties and elections in democratic political systems with a particular focus on the electoral process, political parties, voting behavior, and citizen participation. Begins with the American case as the first large-scale democratic system and uses that case as a basis for comparison in examining a number of other different electoral systems from both the developed and developing worlds.

*Prerequisites: Open to sophomores with consent of instructor; POS100 recommended. Offered: Fall, even # years.*

**POS305G • The Cold War.** 3 Credits.

The Cold War as an event in international history, studied from the perspective of the United States, the Soviet Union, China, Europe, and the Third World. Introduces students to ongoing historical debates and to the sources historians use in those debates (including declassified documents available online).

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring, odd # years. Special Notes: Carries cross-credit in history.*

**POS306 • Public Administration.** 3 Credits.

How public policy is put into effect through the administrative agencies of government and the problems in management of such agencies and their relations with the public.

*Prerequisites: Sophomore standing. POS100 recommended. Offered: Spring. Special Notes: Carries cross-credit in business.*

**POS310 • American Foreign Relations.** 3 Credits.

Development of United States foreign policy since the Nixon administration, with particular attention paid to contemporary issues, long-range historical trends, and the ways in which foreign policy is formulated and carried out. Independent study on specific topics and issues.

*Prerequisites: Sophomore standing with consent of instructor. POS100 or POS202U recommended. Offered: Fall, even # years.*

**POS313G • The Politics of Globalization: Diplomacy, Trade and Organization.** 3 Credits.

Examination of the processes, institutions, relationships, and dynamic trends in the international system. Attention is given to the creation or maintenance of international economic systems and international organizations as they address emerging or enduring problems of world politics. Key international institutions, such as the World Trade Organization or the United Nations, are used as case studies.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. POS202U or POS310 recommended. Offered: Spring, even # years.*

**POS315 • The Politics of Terrorism and Counterterrorism.** 3 Credits.

Analysis of terror and terrorism, both historically and contemporarily, through study of the political psychology of terrorists and terrorist groups, the tactics of terror, and the complex relationship between terror and states. Special attention paid to the motivations for terror and the effect of religion on terrorism as a political strategy.

*Prerequisites: POS202U. Offered: Spring, odd # years.*

**POS317 • Political Psychology.** 3 Credits.

Political psychology is concerned with the causes, dynamics, and consequences of human thinking and action in the context of politics. This field survey covers the psychology of decision making, political attitude formation, public opinion, personality and emotions, intergroup relations, ideology, and the role of mass media in politics.

*Prerequisites: One political science course. Offered: Fall, odd # years. Special Notes: Carries cross-credit in psychology.*

**POS321 • Contemporary Democracies.** 3 Credits.

The meaning of democracy in theory and practice throughout history and in the modern political systems of Great Britain, Japan, and Mexico. Independent research in other democratic systems.

*Offered: Fall, odd # years. Special Notes: Students are recommended to take POS100 or POS211 before enrolling in this course.*

**POS324G • Human Rights in International History.** 3 Credits.

International and comparative exploration of how human rights have been defined, violated, and protected. Discussion of historical topics (e.g., the abolition of the slave trade, social reform and Christian missions, the genocides of the 20th century) as well as contemporary issues. Includes a service-learning project completed at Bethel or with a local organization.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring, even # years. Special Notes: Carries cross-credit in history.*

**POS325 • Political Communication.** 3 Credits.

Analysis of the theoretical background behind political communication from a public speaking and media perspective. Attention to decision-making skills required in political campaigns. Discussion of advanced persuasive campaign theory.

*Prerequisites: COM110N, POS100, or consent of instructor. Offered: Occasionally interim. Special Notes: Carries cross-credit in communication studies.*

**POS329 • African Politics.** 3 Credits.

Consideration of political development in Africa from the pre-colonial era through the present, focusing on changes in political regimes through time, the nature of economic struggles, and sources of violent conflict. Specific case studies and shared African experiences and challenges will be examined.

*Offered: Spring. Special Notes: POS202U or POS205 recommended. Carries cross-credit in history.*

**POS330K • Science, Values, and the Making of Environmental Policy.** 3 Credits.

What role do citizens and experts play in the public policy process? Do people approach scientific evidence with competing value perspectives? These questions are examined in order to understand the interplay among key people, institutions, values, and power that is present in a series of environmental policy case studies.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Fall, even # years. Special Notes: Carries cross-credit in environmental science.*

**POS340 • American Political Institutions.** 3 Credits.

Examination of the U.S. Congress, Supreme Court, and presidency, with attention to the effects of institutions on the democratic and policy processes. Consideration of political science research on political institutions and contemporary issues facing them.

*Prerequisites: POS100 or consent of instructor. Offered: Fall, even # years.*

**POS342 • American Public Policy.** 3 Credits.

Examination of public policy—the result of government action—through consideration of the policy process, policy design, and current status of American public policy. Special attention devoted to social policy with student investigation and research in public policy.

*Prerequisites: POS100 or consent of instructor. Offered: Spring, even # years.*

**POS345 • Modern Political Thought.** 3 Credits.

Examination and consideration of selected political thinkers of the 19th and 20th centuries, including Freud, Nietzsche, Kuyper, Arendt, Rawls, Berlin, Yoder, Foucault, Mouw, and others. Concentrates on primary sources and Christian responses to the “end of political theory” in the 20th century.

*Prerequisites: One course in political science, philosophy, or Western history, or consent of instructor. Offered: Spring, odd # years.*

**POS360 • Classics in Western Political Philosophy.** 4 Credits.

Selected political theorists. Writers such as Plato, Aristotle, early Christian writers, Machiavelli, Luther, Calvin, Locke, Marx, and Niebuhr. Concentrates on primary sources.

*Prerequisites: One course in political science, philosophy, or European history. Offered: Spring, even # years. Special Notes: Carries cross-credit in philosophy and history.*

**POS410 • Topics in Political Science.** 3 Credits.

Intensive study of a specialized topic in political science. The topic to be studied and the subfield of the course are announced prior to the relevant registration period.

*Prerequisites: Junior standing; two courses in political science. Repeatable course Students may repeat the course for credit provided a different topic is covered. Offered: Occasionally.*

**POS481 • Internship in Political Science.** 1-4 Credits.

An off-campus working experience in a government agency or political organization under appropriate supervision. Placement is individually arranged with the Department of Political Science.

*Prerequisites: Consent of department chairperson. Offered: Fall, spring.*

**POS499 • Senior Seminar.** 4 Credits.

Advanced research and analysis in selected problems and value questions in political science.

*Prerequisites: POS211; senior standing or consent of instructor. Offered: Fall, spring.*

**Washington D.C., Experience**

Firsthand experience in Washington, D.C., for academic credit is available through the American Studies Program of the Council for Christian Colleges and Universities. See and advisor in the Department of Political Science.

## B.A. in Political Science

POS211	The Political Quest	3
POS499	Senior Seminar	4
Select one of the following American politics and government courses:		3
POS100	American Politics and Government	
POS216L	American Constitutional History <sup>1</sup>	
POS219L	Public Leadership <sup>1</sup>	
POS230L	Politics and Religion in the United States <sup>1</sup>	
POS306	Public Administration	
POS325	Political Communication	
POS330K	Science, Values, and the Making of Environmental Policy <sup>1</sup>	
POS340	American Political Institutions	
POS342	American Public Policy	
Select one of the following international relations courses:		3
POS202U	Introduction to International Relations <sup>1</sup>	
POS305G	The Cold War <sup>1</sup>	

POS310	American Foreign Relations	
POS313G	The Politics of Globalization: Diplomacy, Trade and Organization <sup>1</sup>	
Select one of the following comparative politics courses:		3
POS205	Introduction to Comparative Politics	
POS241L	Revolution and Political Development <sup>1</sup>	
POS304	Political Parties and Elections	
POS315	The Politics of Terrorism and Counterterrorism	
POS317	Political Psychology	
POS321	Contemporary Democracies	
POS324G	Human Rights in International History <sup>1</sup>	
POS329	African Politics	
Select one of the following political philosophy courses:		3-4
POS221L	American Political Ideologies <sup>1</sup>	
POS345	Modern Political Thought	
POS360	Classics in Western Political Philosophy	
Electives from political science courses		15
General Education		51-52
Electives		37-39
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Minor in Political Science

POS211	The Political Quest	3
Electives from political science courses, of which at least 7 credits must be 300 level or above		15
<b>Total Credits</b>		<b>18</b>

## Pre-Professional

### Pre-Law Education

Students planning to attend law school after graduation should seek a broad liberal arts education. Law schools do not recommend any specific pre-law curriculum and accept students from many majors. The Law School Admission Test (LSAT), which is an essential gateway to legal education, examines students' abilities in reading comprehension as well as logical and analytical reasoning. Thus, it is most important that students develop their thinking, writing, and speaking skills through a variety of courses and experiences, and gain a critical understanding of human behavior, institutions, and values.

Students should discuss their interest in the law with their academic advisor and the pre-law advisor early in their academic careers to create a program that best fits the student's interests and helps to prepare the student for admission to and success in law school. The following courses may be especially helpful for students considering careers in the law, though they are not required for admission to law school.

BUS210	Financial Accounting	4
ECO201	Principles of Economics	4
ENW205A	Essay Writing <sup>1</sup>	4
HIS/POS 216L	American Constitutional History <sup>1</sup>	3
PHI125M	Introduction to Logic	3
POS100	American Politics and Government	3

<sup>1</sup> A student may choose to use this course to meet a General Education requirement.

## Pre-Medicine and Other Healthcare Professional Programs

Many students come to Bethel seeking necessary preparation to pursue graduate programs to become chiropractors, dentists, occupational therapists, optometrists, pharmacists, physical therapists, physicians, physician assistants, podiatrists, veterinarians, and other types of healthcare professionals. The pursuit of these careers requires graduate degrees at the master's or doctoral level, and Bethel University has a rich history of providing the necessary preparation for students to enter these programs.



As a result of the university's excellent reputation with many professional schools, a significant number of Bethel graduates are accepted into healthcare programs each year. Professional schools seek well-rounded graduates with a genuine interest in helping people. Students are encouraged to complete a major that best fits their interests, while allowing them to take courses required for the graduate program they desire. While these students are not limited to a specific undergraduate major, they should realize that each professional program expects certain courses to be completed before admission. Students interested in a graduate program in healthcare should meet with one of Bethel's healthcare professional advisors as early as possible for advice on selecting a major and to plan the best way to complete prerequisite requirements before graduation.

## Pre-Medical Track

(Recommended for careers in medicine, osteopathic medicine, dentistry, veterinary medicine, optometry, podiatry, or chiropractic medicine as well as a career as a physician assistant.)

BIO120 & BIO121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO122 & 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4
CHE113 & 113D & CHE214 & CHE215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	8
CHE224 & CHE225 & CHE226 & CHE227	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	8
Select one of the following sequences:		4-8
CHE304 & CHE305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
Select one of the following sequences:		8
CHE388 & CHE389 & CHE396 & CHE397	Biochemistry I and Biochemistry I Lab and Biochemistry II and Biochemistry II Lab	3
PHY202 & 202D & PHY206 & PHY207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab <sup>1</sup>	
PHY292 & 292D & PHY296 & PHY297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab	
<b>Total Credits</b>		<b>39-43</b>

<sup>1</sup> A student may choose to use this course to meet a General Education requirement.

Additional courses in mathematics, composition, literature, and social and behavioral sciences may be required by specific professional schools.

## Nursing

See the Nursing section of this catalog for information about Bethel's undergraduate nursing program. Bethel University's College of Adult and Professional Studies offers an R.N. to B.S. in Nursing program and our Graduate School offers an M.S. in Nursing and an M.S. in Nurse-Midwifery.

## M.S. in Physician Assistant at Bethel University

An M.S. in Physician Assistant is offered through the Bethel University Graduate School. The College of Arts and Sciences offers all prerequisites as well as recommended courses for this program. Students must earn a grade of *B-* or higher in all prerequisites. Completion of these prerequisites and recommended courses does not guarantee admission to Bethel's Physician Assistant program. Consult the Graduate School catalog for further information.

### Required Prerequisites Offered in the College of Arts and Sciences

Select one of the following sequences:		4
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	

BIO224 & BIO225	Clinical Anatomy and Clinical Anatomy Lab	
Select one of the following sequences:		4
BIO216 & BIO217	Human Physiology and Human Physiology Lab	
BIO226 & BIO227	Clinical Physiology and Clinical Physiology Lab	
CHE224 & CHE225	Organic Chemistry I and Organic Chemistry I Lab	4
Select one of the following sequences:		4
CHE304 & CHE305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
CHE388 & CHE389	Biochemistry I and Biochemistry I Lab	
Select one of the following sequences:		4
BIO234 & BIO235	Microbiology and Microbiology Lab	
BIO230 & BIO231	Clinical Microbiology and Clinical Microbiology Lab	
PHY202 & 202D	Introductory Physics I and Introductory Physics I Lab <sup>1</sup>	4
PSY100	Introduction to Psychology	3
Select one of the following:		3-4
MAT207M	Statistical Analysis <sup>1</sup>	
PSY230M	Introduction to Statistical Methods and Experimental Design <sup>1</sup>	
HAS250M	Statistics and Research Methods in Applied Health Sciences <sup>1</sup>	
<b>Recommended Courses Offered in the College of Arts and Sciences</b>		
PHI110N or GES420P	Contemporary Moral Issues <sup>1</sup> Bioethics	
Select one of the following sequences:		4
BIO244 & BIO245	Pathophysiology and Pharmacology and Pathophysiology and Pharmacology Lab	
BIO248 & BIO249	Clinical Pathophysiology and Pharmacology and Clinical Pathophysiology and Pharmacology Lab	
BIO332 & BIO333	Genetics and Genetics Lab	
<b>Total Credits</b>		<b>34-35</b>

<sup>1</sup> A student may choose to use this course to meet a General Education requirement.

## Doctor of Physical Therapy Program at Southwest Baptist University

Bethel University has an agreement with Southwest Baptist University (SBU) by which students meeting the requirements listed below will automatically receive preference points and be eligible for the admission process.

1. Students must have a minimum 3.0 overall grade point average.
2. Students must complete the graduate record exam (GRE).
3. Students must complete the PT application through PTCAS by the deadline of the intended enrollment date.
4. Students must document up to 40 hours experience/observation in physical therapy.
5. International students must meet eligibility requirements as outlined in section on Admission to the University in the Southwest Baptist University catalog.
6. Students must demonstrate computer literacy.
7. Students must complete all of the following prerequisite courses with a minimum grade of C and a 3.25 prerequisite GPA. Prerequisites should not be taken pass/fail.

### Prerequisite Equivalency for SBU DPT program

Select one of the following sequences:

4

BIO104 & 104D	Human Biology and Human Biology Lab	
BIO118 & 118D	General Biology and General Biology Lab	
Any other upper level biology course with a lab		
CHE113 & 113D	General Chemistry I and General Chemistry I Lab	4
CHE214 & CHE215	General Chemistry II and General Chemistry II Lab	4
Select one of the following sequences:		8
PHY202 & 202D & PHY206 & PHY207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab	
PHY292 & PHY202D & PHY296 & PHY297	General Physics I and Introductory Physics I Lab and General Physics II and General Physics II Lab	
MAT207M or PSY230M or HAS250M	Statistical Analysis Introduction to Statistical Methods and Experimental Design Statistics and Research Methods in Applied Health Sciences	3
PSY100	Introduction to Psychology	3
Select any other psychology course (except PSY230M)		3
<b>Recommendations</b>		
BIO105	Medical Terminology <sup>1</sup>	2
HAS376	Exercise Physiology and Assessment <sup>1</sup>	3
BIO214 & BIO215	Human Anatomy and Human Anatomy Lab	4
BIO216 & BIO217	Human Physiology and Human Physiology Lab	4
BIO244 & BIO245	Pathophysiology and Pharmacology and Pathophysiology and Pharmacology Lab	4
BIO409	Advanced Human Gross Anatomy	4
<b>Total Credits</b>		<b>50</b>

<sup>1</sup> Highly recommended and will potentially be added as prerequisite courses.

## Health Professional Tracks

Many Bethel students pursue careers in other healthcare professions. Most of these are post-graduate degrees beyond college. Specific tracks are available from the health professions advisor for pre-professional programs in the following areas:

- Nursing (see Department of Nursing)
- Pre-chiropractic Medicine
- Pre-dentistry
- Pre-medicine
- Pre-occupational Therapy
- Pre-physical Therapy (also see major in biokinetics)
- Pre-optometry
- Pre-osteopathic Medicine
- Pre-pharmacy
- Pre-physician Assistant
- Pre-podiatry

# Psychology

Psychology can be defined as the scientific study of behavior and mental processes. The courses in the department are designed to acquaint students with psychological theory and the findings of psychological researchers; familiarize students with the terminology and principles of cognition and behavior; provide education in the techniques of psychological investigation with an emphasis on empirical research; study ways in which psychological principles apply to practical situations; and relate the findings of psychology to biblical Christianity. Psychology department courses interface with numerous other Bethel majors, including business, education, nursing, biology, sociocultural studies, biblical and theological studies, and many others. A Master of Arts in Counseling Psychology is offered through the Department of Psychology and is administered through the Graduate School.

The required internship is an opportunity to gain experience in a professionally supervised setting. Students' participation in retirement facilities, hospitals, correctional facilities, drug and alcohol treatment centers, human resources departments, and a variety of other sites help refine career goals and graduate study plans as well as offer opportunities to integrate classroom learning with experience.

## Major in Psychology

- B.A. in Psychology (p. 217)

## Minor in Psychology

- Psychology (p. 218)

### **PSY100 • Introduction to Psychology.** 3 Credits.

Methods, theories, and principal findings of psychological investigation.

*Offered: Fall, spring.*

### **PSY105N • Personal Wholeness in Relating to Self, Others, and God.** 3 Credits.

Nature and process of growth in persons. Personal wholeness in relationship with self, others, and God is explored from various spiritual and psychological perspectives. Emphasis is placed on personal application of course material to promote greater self-awareness and ability to live out healthy choices regarding areas explored in course.

*Offered: Fall, interim, or spring.*

### **PSY130 • Introduction to Neuroscience.** 3 Credits.

An introduction to the biological basis of behavior. Focuses on two main themes: the cellular, molecular, and genetic processes that form the foundation of nervous system function and the systems-level organization of the nervous system that forms the foundation of human and animal behavior.

*Corequisites: Concurrent registration in PSY130D is required. Offered: Spring. Special Notes: Carries cross-credit in biology.*

### **PSY130D • Introduction to Neuroscience Lab.** 1 Credits.

Laboratory experience accompanying PSY130.

*Corequisites: Concurrent registration in PSY130 is required. Offered: Spring. Special Notes: Carries cross-credit in biology.*

### **PSY203 • Lifespan Development.** 3 Credits.

Physical, cognitive, emotional, social, moral, and spiritual development from conception to death. Includes a consistent focus on individual differences.

*Prerequisites: PSY100. Offered: Fall, spring. Special Notes: Students may not receive credit for PSY203 if they receive credit for PSY206.*

### **PSY206 • Child and Adolescent Development.** 3 Credits.

Interacting processes of physical, cognitive, social, emotional, moral, and spiritual development from conception through adolescence. Includes observations of children.

*Prerequisites: PSY100. Offered: Fall. Special Notes: Students may not receive credit for both PSY206 and PSY203.*

### **PSY211 • Adult Development and Aging.** 3 Credits.

Interacting processes of physical, cognitive, social, emotional, moral, and spiritual development and change from early adulthood until death.

*Prerequisites: PSY100. Offered: Spring.*

### **PSY215 • Social Psychology.** 3 Credits.

Behavior and experience of individuals and groups in relation to other individuals and groups. Theory, method, and findings in areas such as conformity, persuasion, social cognition, attraction, altruism, aggression, prejudice, group behavior, and applied topics.

*Prerequisites: PSY100. Offered: Fall, spring.*

### **PSY230M • Introduction to Statistical Methods and Experimental Design.** 4 Credits.

Descriptive, correlational, and inferential statistics, plus experimental design. Parametric and nonparametric statistical techniques are taught with emphasis on designing and conducting two-group experiments and analyzing the data.

*Offered: Fall, spring. Special Notes: Students may not receive credit for both PSY230M and MAT207M.*

### **PSY300 • Abnormal Psychology.** 3 Credits.

Classification, causes, symptoms, and treatment of various forms of psychopathology. Analysis of Christian and secular perspectives of psychopathology and a survey of some major issues in the field of mental health.

*Prerequisites: PSY100. Offered: Fall, spring.*

**PSY304 • Introduction to Forensic Psychology.** 3 Credits.

Provides students the opportunity to explore psychological and social processes in the legal, judicial, and criminal investigation systems. Emphasis is placed upon students developing the capacity to evaluate relevant research critically in order to better appreciate both the value and the limitations of the findings. Secondary emphasis is placed upon theory development and application in forensic psychology. Includes a section on the psychology of terrorism.

*Prerequisites:* An introductory social sciences course (PSY100, SOC101, or ANT200U); a quantitative research course in the social sciences (PSY230M or SCS351); or consent of instructor. Offered: Fall, even # years.

**PSY305 • Personality.** 3 Credits.

Personality theories understood as the worldview of individuals living in certain times and places. Both classical Western theories and non-Western views.

*Prerequisites:* PSY100. Offered: Fall, spring.

**PSY308G • Cross-Cultural Psychology.** 3 Credits.

Behavior and experience related to cultural differences. Theory, method, and findings in areas of cognition, social psychology, and applied concerns. Specific people groups may be emphasized.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.

**PSY310 • Addiction and Recovery.** 3 Credits.

Psychological, physiological, and causal aspects of addiction, with emphasis on understanding the experience of persons with addiction. Addictions studied include drugs, alcohol, gambling, sex, and the internet. Also covers family issues related to addiction, models of recovery, and treatment options. Integration of Christianity with this topic throughout the course.

*Prerequisites:* PSY100. Offered: Interim.

**PSY313G • Families in Cross-cultural Perspective.** 3 Credits.

Contemporary, historical, and cross-cultural, predominantly non-Western perspective on a variety of family systems and the people living in them. Explores values and assumptions underlying these systems, roles, intergenerational relationships, identity formation, and developmental tasks.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Fall.

**PSY315 • History of Psychology.** 3 Credits.

Historical roots of contemporary psychology. Focus is on the influence of historical trends, people, and events on the evolution of psychological questions, constructs, methods, and issues from the early Greeks to the present.

*Prerequisites:* PSY100; junior or senior standing. Offered: Occasionally fall, spring even # years.

**PSY316 • Consciousness: Psychology and Philosophy in Dialogue.** 3 Credits.

A team-taught investigation of ancient, medieval, and modern philosophies of consciousness and the historical roots of contemporary psychology. Shows how philosophical and psychological theories of consciousness transcend disciplinary boundaries. Focuses on interaction between philosophy and psychology, emphasizing the origins of cognitive science in philosophy of mind and consciousness.

*Prerequisites:* PSY100 or one philosophy course. Offered: Spring, odd # years. *Special Notes:* Carries cross-credit in philosophy.

**PSY317 • Political Psychology.** 3 Credits.

Political psychology is concerned with the causes, dynamics, and consequences of human thinking and action in the context of politics. This field survey covers the psychology of decision making, political attitude formation, public opinion, personality and emotions, intergroup relations, ideology, and the role of mass media in politics.

*Prerequisites:* One political science course. Offered: Fall, odd # years. *Special Notes:* Carries cross-credit in political science.

**PSY320Z • European Pioneers in Psychology.** 3 Credits.

A study-abroad experience that explores prominent European figures in the history of psychology within the context of the major historical currents and schools. Study of the cultural, philosophical, intellectual, and spiritual roots of psychological theory—especially in connection with our host countries. Site and museum visits, and encounters with local professional and academic psychologists.

*Prerequisites:* PSY100; GES130 or GES244; junior or senior standing; permission of instructors; timely completion of application process. Offered: Occasionally interim.

**PSY323 • Motivation and Emotion.** 4 Credits.

How do biological, environmental, cognitive, emotional, and personal systems interact to initiate and direct human behavior? How do experimental psychologists study emotional and motivational systems? Topics covered include hunger and eating, love and sexual behavior, arousal and peak performance, aggression, emotional stress and health, negative and positive emotions, curiosity, creativity, and self-esteem.

*Prerequisites:* PSY100; PSY230M. Offered: Fall.

**PSY325G • Psychology of Religion.** 3 Credits.

Topics of central importance within many world religions (e.g., wisdom, love) are examined through various psychological theories and empirical findings. Major emphasis on developing the capacity to understand religious behavior and experience from the psychological and religious perspectives studied in the course, regardless of the extent to which one agrees or disagrees with a particular viewpoint.

*Prerequisites:* PSY100; [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered: Spring.

**PSY330 • Disabilities and Giftedness.** 4 Credits.

Development of exceptional people from a lifespan perspective. Cognitive, physical, emotional, and sociocultural variables relevant to mental retardation; giftedness; learning disabilities; physical, sensory, and communication disabilities; emotional disturbance; and multiple disabilities. Critical analysis of education and management programs. Literature review, research, and student contact with a number of exceptionalities.  
*Prerequisites: EDU240, PSY203, PSY206, or PSY211; junior standing. Offered: Fall.*

**PSY335 • Tests and Measurement.** 4 Credits.

Methods of assessing human behavior and the nature and significance of individual differences. Includes basic psychometric theory; principles of test construction; and theory and utilization of current standardized tests of intelligence, achievement, and personality.  
*Prerequisites: PSY100; PSY230M. Offered: Spring.*

**PSY337K • Behavioral Robotics.** 3 Credits.

Control and automation are fundamental aspects of human, animal, and machine behavior. These topics will be considered from philosophical and psychological perspectives and explored through robotics and other hands-on experimental labs, in order to develop both a practical and theoretical understanding of behavior.  
*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Occasionally interim. Special Notes: Carries cross-credit in computer science.*

**PSY340 • Physiological Psychology.** 4 Credits.

Physiological and neuroanatomical mechanisms underlying behavior; sensory mechanisms, wakefulness, and attention processes; and brain mechanisms of aggression, fear, pain, thirst, reproductive behavior, learning, and discrimination processes.  
*Prerequisites: PSY100; Mathematics (M) course. Offered: Fall.*

**PSY345 • Conditioning and Learning.** 4 Credits.

Basic procedures of classical and operant conditioning, theories of learning, and applications of behavioral conditioning principles to selected problems in human learning. Includes laboratory experience.  
*Prerequisites: PSY100; Mathematics (M) course. Offered: Interim.*

**PSY346 • Animal Behavior.** 3 Credits.

Behavior from primitive invertebrates to advanced mammals, highlighting trends in behavior systems. Natural setting studies in the ethology tradition, comparative psychology studies, and biosociological principles with their implications for human social systems.  
*Prerequisites: One course in biology or PSY100. Offered: Spring, odd # years. Special Notes: Carries cross-credit in biological sciences.*

**PSY347 • Animal Behavior Lab.** 1 Credits.

Laboratory course accompanying PSY346.  
*Corequisites: Concurrent enrollment in PSY346 is required. Offered: Spring, odd # years. Special Notes: Carries cross-credit in biological sciences.*

**PSY350 • Cognitive Psychology.** 4 Credits.

Psychological theory and research concerning thinking, memory, reasoning, language, and problem solving. Includes laboratory experience.  
*Prerequisites: PSY100; PSY230M. Offered: Spring.*

**PSY355 • Research Principles and Laboratory.** 4 Credits.

Research methods in psychology in the context of designing independent research. Standard research designs (experimental, quasi-experimental, and non-experimental) are evaluated in terms of threats to internal and external validity. Factorial designs, analysis of variance, and regression models are introduced.  
*Prerequisites: PSY100; PSY230M. Offered: Fall, spring.*

**PSY399 • Topics in Psychology.** 3 Credits.

Contemporary concerns in psychology not covered in the current formal course offerings of the department.  
*Prerequisites: PSY100. Offered: Occasionally.*

**PSY400 • Principles of Counseling and Psychotherapy.** 4 Credits.

Introduction and analysis of major therapy systems from Christian and secular perspectives, basic counseling techniques, and current ethical issues facing the counseling professions. Designed for students planning graduate study in human services.  
*Prerequisites: PSY100; PSY300 or PSY305. Offered: Fall, spring.*

**PSY430 • Developmental Psychopathology.** 4 Credits.

Understanding issues pertaining to the nature and occurrence of psychological disorders during childhood and adolescence, including topics such as classification, developmental context, etiology, and treatment. Critical evaluation of contemporary theory and research, including conceptualizations, methodologies, and statistical approaches.  
*Prerequisites: PSY203, PSY206; PSY230M; PSY300. Offered: Occasionally interim.*

**PSY440 • Sensation and Perception.** 4 Credits.

A study of how the brain receives and interprets information from the environment. The biological operation of each of the senses is covered, as well as how the action of sense organs is translated into meaningful perceptions.  
*Prerequisites: PSY100; at least one of the following: PSY340, BIO100/100D, BIO104/104D, BIO118/118D, BIO122/122D. Offered: Spring, odd # years.*

**PSY481 • Internship in Psychology.** 3-4 Credits.

A directed experience relevant to psychology in an off-campus setting.  
*Prerequisites: Consent of supervising instructor. Offered: Fall, spring.*

**PSY493 • Psychology Internship and Seminar.** 4 Credits.

A professionally supervised, applied learning experience in the work world. The senior internship includes a seminar component in which students meet regularly on campus with the Bethel faculty supervisor. This structured classroom experience will facilitate students' processing of their internship experiences and offer a forum for discussion of internship-related issues.

*Prerequisites: Psychology major; senior standing; minimum 2.25 GPA in psychology courses, 2.0 cumulative. Offered: Fall, spring, summer.*

**PSY498 • Research.** 2-4 Credits.

Work with a psychology faculty member on an empirical research project. Emphasis on the use of research methodology, techniques, and psychological theory. The work may be spread over two semesters.

*Prerequisites: Major in psychology; invitation of supervising faculty member; PSY230M. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring.*

**PSY499 • Senior Seminar.** 3 Credits.

Foundational issues in psychology and the interface of psychology, Christianity, and other disciplines. Includes an in-depth individual writing project.

*Prerequisites: Major in psychology; senior standing. Offered: Fall, spring.*

## B.A. in Psychology

PSY100	Introduction to Psychology	3
PSY230M	Introduction to Statistical Methods and Experimental Design <sup>1</sup>	4
PSY355	Research Principles and Laboratory	4
PSY493	Psychology Internship and Seminar	4
PSY499	Senior Seminar	3
Select one of the following from Developmental Psychology courses:		3
PSY203	Lifespan Development	
PSY206	Child and Adolescent Development	
PSY211	Adult Development and Aging	
Select one of the following from History of Psychology courses:		3
PSY315	History of Psychology	
PSY316	Consciousness: Psychology and Philosophy in Dialogue	
PSY320Z	European Pioneers in Psychology <sup>1</sup>	
Select one of the following Socio-cultural Bases of Behavior courses:		3
PSY215	Social Psychology	
PSY308G	Cross-Cultural Psychology <sup>1</sup>	
PSY313G	Families in Cross-cultural Perspective <sup>1</sup>	
Select one of the following from Abnormal or Personality courses:		3
PSY300	Abnormal Psychology	
PSY305	Personality	
Select from the following from Experimental Psychology courses:		8
PSY322		
PSY323	Motivation and Emotion	
PSY335	Tests and Measurement	
PSY340	Physiological Psychology	
PSY345	Conditioning and Learning	
PSY350	Cognitive Psychology	
PSY430	Developmental Psychopathology	
PSY440	Sensation and Perception	
Select One 4-Credit Elective: Choose from any of the above 4-credit Experimental Psychology courses or the following:		4
PSY330	Disabilities and Giftedness	
PSY400	Principles of Counseling and Psychotherapy	
Select One 3- or 4-Credit Elective: Choose from any 3- or 4-credit courses above or the following:		3
PSY304	Introduction to Forensic Psychology	
PSY310	Addiction and Recovery	
PSY317	Political Psychology	
PSY325G	Psychology of Religion <sup>1</sup>	
PSY337K	Behavioral Robotics <sup>1</sup>	



Electives	26-27
<b>Total Credits</b>	<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Note: No student may take more than eight credits in any combination of PSY481, PSY498, or a Directed Study in Psychology.

## Minor in Psychology

PSY100	Introduction to Psychology	3
Select one of the following:		3
PSY203	Lifespan Development	
PSY206	Child and Adolescent Development	
PSY211	Adult Development and Aging	
Select one of the following:		4
PSY323	Motivation and Emotion	
PSY330	Disabilities and Giftedness	
PSY335	Tests and Measurement	
PSY340	Physiological Psychology	
PSY345	Conditioning and Learning	
PSY350	Cognitive Psychology	
PSY400	Principles of Counseling and Psychotherapy	
PSY430	Developmental Psychopathology	
PSY440	Sensation and Perception	
Electives from 200-level or above psychology courses (excluding PSY481, PSY498, and PSY499)		9
<b>Total Credits</b>		<b>19</b>

## Religious Studies

The religious studies minor is a broadly based interdisciplinary program focused on the various components of religious aspects of human life. This minor is designed to complement academic programs currently offered at Bethel and responds to Bethel's commitment to understanding diversity, specifically with regard to the fact of religious diversity. The context of the program is an evangelical Christian liberal arts environment that seeks to foster an appreciation for the complexity of the human religious phenomenon; to develop the capacity to critically evaluate religious traditions and worldviews; and to cultivate the skills necessary to engage responsibly as evangelical Christians in religiously plural societies. The goal for students in this program is not only to supplement their major field of study with further preparation for a variety of roles, including leadership in many professional settings, but also to prepare them for graduate study in religion and related fields.

## Minor in Religious Studies

- Religious Studies (p. 219)

### REL201 • Religion and Art in Asia. 3 Credits.

Examination of artistic expressions of the major religious traditions of India, China, Japan, and Southeast Asia. Definitions of "religion" and "art" provide a guide for identifying and understanding Asian architecture, statuary, and paintings. Doctrinal and ritual elements of the major traditions are explained, and art that symbolizes and expresses these elements is analyzed.

*Offered: Spring, even # years. Special Notes: Carries cross-credit in art.*

### REL202 • Introduction to Religious Studies. 3 Credits.

An introduction to the world's religious traditions and to the history and methods of religious studies as a discipline. Using primary and secondary sources, this course focuses on affirmations regarding ultimate reality as it relates to the meaning and purpose of human existence within various religious and cultural contexts.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall or spring.*

### REL205U • Religions of India, China and Japan. 3 Credits.

Introduction to the study of religion and its application to religions of India, China, and Japan. The origin, development, and diversity of major and minor religions including Hindu, Buddhist, Confucian, and Shinto traditions through reading primary and secondary literature. The spread and importance of these traditions in America is demonstrated.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Fall.*

**REL206UZ • Religious Traditions in Asia: Thailand.** 3 Credits.

Formal academic study, direct observation of, and interaction with the Buddhist, Muslim, Christian, and traditional religions on location in Thailand. The rich presence of mosques, pagodas, temples, churches, and shrines supported by the respective communities of faith provides the opportunity to engage with living representatives and with the concrete manifestations of the traditions. Interaction with representatives of the religions supplement academic learning.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally interim.*

**REL212U • History of Islam.** 3 Credits.

Introduces the religion of Islam from its inception and development to Islam as it is practiced worldwide today. Students interact with members of the Islamic community in Minnesota in an attempt to understand Islam from the personal experiences of Muslims. Contemporary issues and controversies are examined through the lens of the Muslim experience throughout history.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in history.*

**REL225L • New Religious Movements.** 3 Credits.

History, beliefs, and practices of the major alternative religions active in America today, including Mormonism, Jehovah's Witnesses, offshoots of Eastern religious traditions, and the New Age movement. Relationships of these movements to their parent traditions are discussed and comparative analyses drawn.

*Prerequisites: BIB101; GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Occasionally.*

**REL230L • Politics and Religion in the United States.** 3 Credits.

Examines the historical and contemporary relationship between religion and politics in the United States. Divisions and political affiliations of various religious communities are considered alongside discussion of secularism, pluralism, and civil religion in America.

*Prerequisites: GES130 (may be taken concurrently) or GES244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in political science.*

**REL328G • Muslim Women in History.** 3 Credits.

Global survey of the lives of Muslim women from the 7th century to the present. Examination of how Muslim women's lives have historically been shaped by their social context, with particular attention to religious interpretation and expression, culture, ethnicity, and geographic location.

*Prerequisites: [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. Offered:*

*Interim. Special Notes: Carries cross-credit in history.*

**REL356 • Judaism.** 3 Credits.**REL401 • Christianity and the World's Religions.** 3 Credits.

Exploration of the historical and contemporary relationships of Christianity and various world religions, specifically focused at the theological level. Focus rotates from year to year, emphasizing the interfaith dialogue between Christianity and one other world religious tradition.

*Prerequisites: BIB101; THE201. Offered: Occasionally. Special Notes: Carries cross-credit in biblical and theological studies.*

## Minor in Religious Studies

REL202	Introduction to Religious Studies	3
Select two of the following:		6
REL205U	Religions of India, China and Japan <sup>1</sup>	
REL206UZ	Religious Traditions in Asia: Thailand <sup>1</sup>	
REL225L	New Religious Movements <sup>1</sup>	
REL212U	History of Islam <sup>1</sup>	
REL356	Judaism	
Select three of the following:		9
REL201	Religion and Art in Asia	
REL230L	Politics and Religion in the United States <sup>1</sup>	
REL328G	Muslim Women in History <sup>1</sup>	
REL401	Christianity and the World's Religions	
ENL316GZ	Literature of Faith: Christianity and Islam <sup>1</sup>	
GES413P	Women's Spiritual Experience <sup>1</sup>	
PHI230U	Medieval Islamic Philosophy <sup>1</sup>	
GES447PZ	Muslims and Middle Easterners: Past, Present, and Personal	
PHI305G	Philosophy of Religion <sup>1</sup>	
PHI375G	Asian Philosophy <sup>1</sup>	
PSY325G	Psychology of Religion <sup>1</sup>	
SOC372G	Religion in Society <sup>1</sup>	

**Total Credits**

**18**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Four of the seven courses required in this minor must be taken at Bethel.

## Social Work

### Program Mission and Goals

The Social Work Program at Bethel University prepares students for professional generalist social work practice, equipping them to be advocates of hope and change. Students learn to practice in a diverse world through scholarship, service, justice, and leadership, all in the context of a Christian liberal arts learning community.

- Students will demonstrate a commitment to critical thinking, ethical social work practice, scientific inquiry, and lifelong learning.
- Students will acquire social work knowledge, values, and skills that promote the well-being of individuals, families, communities, and organizations.
- Students will integrate a Christian faith and justice perspective that honors the dignity and worth of all persons.
- Students will develop leadership abilities that promote reconciliation in a local and global context.

Bethel's Social Work Program, accredited by the Council on Social Work Education, prepares students to serve individuals, families, groups, organizations, and communities. Graduates are eligible to be licensed as social workers. While preparation for practice is the program's objective, academically qualified graduates are prepared to pursue graduate-level social work education. (A number of graduate schools offer advanced standing.) The 63-credit major includes classroom and field courses, and select biological, social, and behavioral science foundational support courses.

### Field Program Admission

Students may apply for admission to the Field Program during fall of their junior year. Acceptance into the Social Work Program and the Field Program must be finalized before a student begins SOW331. Field courses require students to spend time in off-campus field settings. Students must furnish their own transportation to and from field settings. Students may be required to complete a criminal background check, at their own cost, as part of agency requirements.

### International Field Practicum

Junior-level students may fulfill SOW331 Social Work Field Experience II in a social work-approved international semester program. Students must work with the Office of Off-Campus Programs/International Studies and obtain approval from the field director of the Social Work Program. Students must also meet the Bethel requirements to study abroad and be accepted into a study abroad program.

### Major in Social Work

- B.A. in Social Work (p. 223)

### Minor in Social Work

- Social Welfare Studies (p. 225)

#### Application for Candidacy for the Social Work Program

Candidacy indicates intention to apply for full admission to the program the fall of a student's junior year. To progress in the program, a student must meet the departmental and Bethel University requirements for academic progress.

A. At the time of application for candidacy, the student must:

1. Have second semester sophomore standing;
2. Be enrolled in or have completed SOW200Z, with a grade of C or better;
3. Provide a copy of unofficial transcript that documents a current GPA of 2.25 or greater;
4. Provide summary of progress toward 50 hours experience in a community agency, school, hospital, or other social service organization;
5. Sign the Statement of Understanding and Agreement form after thoroughly examining all listed documents, including the Code of Ethics and the *Social Work Program Field and Policy Manual*;
6. Examine and agree to adhere to the Standards for Academic and Professional Performance; and
7. Meet with instructor of SOW200Z to review and complete Standards for Academic and Professional Performance Checklist. This signed form will be placed in student candidacy file.

B. The social work department gives written notification to the applicant concerning candidacy status.

#### Application for Full Admission to the Social Work Program

The following are **minimum** threshold requirements to be considered for admission into the social work program. Space is limited, however, and not all qualified applicants are guaranteed admission.

A. At the time of application for full admission, the student must:

1. Have completed SOW200Z, with a grade of C or better;
2. Have a cumulative GPA of 2.25 at time of admission to the program;
3. Have his or her candidacy application accepted;
4. Give evidence of ability to meet Standards for Academic and Professional Performance (critical thinking and decision-making, interpersonal relationship skills, professional values and ethics, communication skills, responsible conduct, professional readiness, and self-awareness.) These standards are consistent with the role and responsibilities of the social work professional (note: a criminal history may preclude one's ability to become licensed as a social worker upon graduation);
5. Complete an application for admission to the Social Work Program that includes the following steps:
  - a. Document at least 50 hours of experience in a community agency, school, hospital, or other social service organization;
  - b. Write admission narratives on five topics addressing your interest in the social work profession;
  - c. Complete a self-assessment of your readiness for social work practice;
  - d. Provide two letters of reference from qualified individuals to assess applicant's aptitude to pursue social work as a profession;
  - e. Submit a resume; and
  - f. Submit copy of transcript from Blink.

Interview with social work faculty to discuss application and readiness to enter Social Work Program.

B. The full-time faculty will assess the application. Written notification of decision will be given to the applicant.

#### **Field Program Admission**

Students may apply for admission to the Field Program during fall of their junior year. Acceptance into the Social Work Program and the Field Program must be finalized before a student begins SOW331. Field courses require students to spend time in off-campus field settings. Students must furnish their own transportation to and from field settings. Students may be required to complete a criminal background check, at their own cost, as part of agency requirements.

#### **International Field Practicum**

Junior-level students may fulfill SOW331 Social Work Field Experience II in a social work-approved international semester program. Students must work with the Office of Off-Campus Programs/International Studies and obtain approval from the field director of the Social Work Program. Students must also meet the Bethel requirements to study abroad and be accepted into a study abroad program.

#### **Standards for Continuance and Graduation**

In order to remain in the program, student must:

1. Earn a grade of C or better in each social work course (courses with a grade of C- or lower must be repeated);
2. Maintain a cumulative GPA of at least 2.25;
3. Demonstrate understanding of the NASW Code of Ethics and a commitment to ethical practice in accordance with this code;
4. Obtain an evaluation from junior-level (SOW331) field instructor and faculty liaison confirming that satisfactory progress is evident and the student is ready for senior-level field practice (SOW432, 433, 434). Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;
5. Obtain evaluations during senior-level field practicum (SOW432, 433, 434) from the field instructor and the faculty liaison confirming that satisfactory progress is being made toward competent, ethical, and professional social work practice. Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;
6. Obtain a final (SOW432, 433, 434) evaluation from the field instructor and the faculty liaison confirming that the student is adequately prepared to graduate as a professional social worker. Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;

7. Maintain ongoing evidence of meeting standards of professional conduct and emotional maturity requisite for professional practice as outlined in the Standards for Academic and Professional Performance, which includes: critical thinking and decision-making, interpersonal relationship skills, professional values and ethics, communication skills, responsible conduct, professional readiness, and self-awareness; and
8. Demonstrate continued development of professional knowledge, values, skills, ethics, and conduct expected of a generalist social work practitioner as presented throughout the Social Work Program.

Note: Students who request to resume their involvement with the Social Work Program after dropping out of the program or withdrawing from Bethel University for any reason must apply for readmission into the program. Issues that led to the decision to drop out (whether voluntary or involuntary) must be addressed prior to being readmitted to the Social Work Program. Being readmitted to Bethel University does not constitute readmission into the Social Work Program.

**SOW200Z • Introduction to Social Work.** 4 Credits.

Overview of social work mission, core values, history, and fields of practice. Understanding dimensions of diversity, cultures, and structures that may oppress and marginalize people groups. Significant cross-cultural, community-based service learning in which students communicate and collaborate with diverse individuals. Consideration of social work as career choice.

*Prerequisites:* Sophomore standing; major in social work or consent of instructor. *Offered:* Fall, spring.

**SOW250 • Social Welfare History.** 3 Credits.

Examines the historical movements of social welfare responses to the poor and oppressed from the colonial period to the present, with emphasis on economic, demographic, cultural, and political forces. Historical documents representing significant turning points in society are presented to gain appreciation of the linkage among past, present, and future reforms.

*Offered:* Interim.

**SOW304 • Social Work Practice I.** 3 Credits.

Generalist social work theory and practice with organizations and communities. Application of human behavior in the social environment. Research-based knowledge emphasized. Assignments in community settings focus on engagement and assessment; dimensions of diversity; interaction of social systems; and strategies to promote human and civil rights.

*Prerequisites:* SOW200Z; major in social work. *Corequisites:* Must be taken concurrently with SOW330; SOW313. *Offered:* Fall.

**SOW305 • Social Policy Practice.** 4 Credits.

Interrelationship of social problems, social welfare policies, and service delivery from historical, economic, political, and program perspectives. Social systems content applied to social policy analysis. Students develop, analyze, advocate, and provide leadership for policy and service delivery that promote economic and social justice through community-based projects.

*Prerequisites:* Major in social work. (Non-majors may take course only with consent of instructor.) *Offered:* Spring.

**SOW313 • Social Work Practice II.** 3 Credits.

Generalist social work theory and practice with individuals and families. Beginning professional development, critical thinking, effective communication, Human Behavior and the Social Environment (HBSE), ethical and evidenced-based practice is emphasized. Simulated case assignments provide student development of knowledge and skills of social work practice: engagement, assessment, planning, intervention, evaluation, and termination.

*Prerequisites:* SOW200Z; major in social work. *Corequisites:* Must be taken concurrently with SOW330; SOW304. *Offered:* Fall.

**SOW327G • Social Perspective, Human Worth, and Social Action.** 3 Credits.

Examines historical and current societal conditions and their impact on individuals and communities. Culture, power, oppression, exclusion, and the impact of diverse realities in the U.S. are explored. Engages students in a comparative examination through the synthesis of contemporary writings, social theory, and diverse voices. Experiential learning and dialogue promotes deepened understanding, justice seeking strategies, and social action.

*Prerequisites:* [GES130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES246; World Cultures (U) course]. *Offered:* Spring.

**SOW330 • Social Work Field Experience I.** 2 Credits.

Provides an introductory field experience in a multi-service community-based agency serving an ethnically diverse population. Students apply and integrate beginning knowledge, values, skills, and ethics for social work practice with an emphasis on developing a professional identity. Weekly on-campus field seminar supports this integration while students work a minimum of 80 hours in a field setting under agency supervision.

*Prerequisites:* SOW200Z; major in social work. *Corequisites:* Must be taken concurrently with SOW304; SOW313. *Offered:* Fall.

**SOW331 • Social Work Field Experience II.** 2 Credits.

Field experience in which students apply and integrate beginning knowledge, values, skills, and ethics for social work practice with an emphasis on diversity, human rights and justice, and professional generalist practice. Weekly on-campus field seminar supports integration while students work a minimum of 100 hours in field setting under agency supervision.

*Prerequisites:* SOW304; SOW313; SOW330; major in social work; admission to the Social Work Program; admission to the Social Work Field Program. *Offered:* Spring.

**SOW351 • Methods of Applied Social Research.** 4 Credits.

Social research methods, including an emphasis on becoming proficient and critical consumers of research-based data, for the purposes of knowledge advancement, informed practice, and program and practice effectiveness evaluation.

*Prerequisites:* Mathematics (M) course; introductory course in the social and behavioral sciences. PSY230M recommended. *Offered:* Fall.

**SOW405 • Social Work Practice III.** 4 Credits.

Generalist social work theory and practice with systems of all sizes. Emphasis on groups including task and treatment, group dynamics, leadership, and development of group work model. Case studies promote application of critical thinking, cultural competency skills, and research-informed practice.

*Prerequisites:* SOW200Z; SOW304; SOW313; SOW330; SOW331; admission to the Social Work Program. *Corequisites:* Must be taken concurrently with SOW432. *Offered:* Fall.

**SOW431 • Conversations about End of Life.** 1 Credits.

Development of advance care planning (ACP) facilitation skills in the context of faith, cultural, healthcare system, and societal perspectives. A First Steps ACP Facilitator Certificate is available for students who successfully complete ACP Facilitator requirements.

*Prerequisites:* Senior standing in nursing or social work, or consent of instructor. *Offered:* Spring. *Special Notes:* Carries cross-credit in nursing.

**SOW432 • Social Work Field Instruction I.** 3 Credits.

Field practicum in a practice setting in which students perform the role of a professional social worker under supervision of a qualified field instructor. Weekly on-campus field seminar, facilitated by social work faculty, supports integration of theory with social work practice. Students work a minimum of 135 hours in field. A structured learning contract provides application of social work knowledge, values, and skills.

*Prerequisites:* Admission to the Social Work Program; admission to the Social Work Field Program. *Corequisites:* Must be taken concurrently with SOW405. *Offered:* Fall.

**SOW433 • Social Work Field Instruction II.** 3 Credits.

A continuation of SOW432. Time involvement must total a minimum of 135 hours in the field. Satisfactory progress must be made toward competence in professional social work practice.

*Prerequisites:* SOW432. *Offered:* Spring.

**SOW434 • Social Work Field Instruction III.** 3 Credits.

A continuation of SOW433. Time involvement must total a minimum of 135 hours in the field. Satisfactory progress in SOW432/433/434 on field assignments, learning contract, and 400 hours of supervised practice indicate student's readiness to perform the role of a generalist social work practitioner.

*Prerequisites:* SOW432. *Corequisites:* Must be taken concurrently with SOW433; SOW499. *Offered:* Spring.

**SOW499 • Senior Integrative Seminar.** 3 Credits.

Integration of generalist social work knowledge, values, and skills through ethics-based case studies and completion of practice/program evaluation research applied to field practicum setting. Critical thinking, leadership, and scholarship emphasized.

*Prerequisites:* SOW405; SOW432. *Corequisites:* Must be taken concurrently with SOW433/434. *Offered:* Spring.

## B.A. in Social Work

SOW200Z	Introduction to Social Work <sup>1</sup>	4
SOW250	Social Welfare History	3
SOW304	Social Work Practice I	3
SOW305	Social Policy Practice	4
SOW313	Social Work Practice II	3
SOW327G	Social Perspective, Human Worth, and Social Action <sup>1</sup>	3
SOW330	Social Work Field Experience I	2
SOW331	Social Work Field Experience II	2
SOW351	Methods of Applied Social Research	4
SOW405	Social Work Practice III	4
SOW432	Social Work Field Instruction I	3
SOW433	Social Work Field Instruction II	3
SOW434	Social Work Field Instruction III	3
SOW499	Senior Integrative Seminar	3
BIO104 & 104D	Human Biology and Human Biology Lab <sup>1</sup>	4
ECO200	Economics of Public Policy Analysis	3
POS100	American Politics and Government	3
PSY100	Introduction to Psychology	3
PSY203	Lifespan Development	3
SOC101	Introduction to Sociology	3
General Education		51-52

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

Students planning on graduate school should choose PSY230M or MAT207M to satisfy the mathematics (M) course requirement.

## Application for Candidacy for the Social Work Program

Candidacy indicates intention to apply for full admission to the program the fall of a student's junior year. To progress in the program, a student must meet the departmental and Bethel University requirements for academic progress.

1. At the time of application for candidacy, the student must:
  - a. Have second semester sophomore standing;
  - b. Be enrolled in or have completed SOW200Z, with a grade of C or better;
  - c. Provide a copy of unofficial transcript that documents a current GPA of 2.25 or greater;
  - d. Provide summary of progress toward 50 hours experience in a community agency, school, hospital, or other social service organization;
  - e. Sign the Statement of Understanding and Agreement form after thoroughly examining all listed documents, including the Code of Ethics and the *Social Work Program Field and Policy Manual*;
  - f. Examine and agree to adhere to the Standards for Academic and Professional Performance; and
  - g. Meet with instructor of SOW200Z to review and complete Standards for Academic and Professional Performance Checklist. This signed form will be placed in student candidacy file.
2. The social work department gives written notification to the applicant concerning candidacy status.

## Application for Full Admission to the Social Work Program

The following are **minimum** threshold requirements to be considered for admission into the social work program. Space is limited, however, and not all qualified applicants are guaranteed admission.

1. At the time of application for full admission, the student must:
  - a. Have completed SOW200Z, with a grade of C or better;
  - b. Have a cumulative GPA of 2.25 at time of admission to the program;
  - c. Have his or her candidacy application accepted;
  - d. Give evidence of ability to meet Standards for Academic and Professional Performance (critical thinking and decision-making, interpersonal relationship skills, professional values and ethics, communication skills, responsible conduct, professional readiness, and self-awareness.) These standards are consistent with the role and responsibilities of the social work professional (note: a criminal history may preclude one's ability to become licensed as a social worker upon graduation);
  - e. Complete an application for admission to the Social Work Program that includes the following steps:
    - i Document at least 50 hours of experience in a community agency, school, hospital, or other social service organization;
    - ii Write admission narratives on five topics addressing your interest in the social work profession;
    - iii Complete a self-assessment of your readiness for social work practice;
    - iv Provide two letters of reference from qualified individuals to assess applicant's aptitude to pursue social work as a profession;
    - v Submit a resume; and
    - vi Submit copy of transcript from BLink.
  - f. Interview with social work faculty to discuss application and readiness to enter Social Work Program.
2. The full-time faculty will assess the application. Written notification of decision will be given to the applicant.

## Standards for Continuance and Graduation

In order to remain in the program, student must:

1. Earn a grade of C or better in each social work course (courses with a grade of C- or lower must be repeated);
2. Maintain a cumulative GPA of at least 2.25;
3. Demonstrate understanding of the NASW Code of Ethics and a commitment to ethical practice in accordance with this code;



4. Obtain an evaluation from junior-level (SOW331) field instructor and faculty liaison confirming that satisfactory progress is evident and the student is ready for senior-level field practice (SOW432, SOW433, SOW434). Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;
5. Obtain evaluations during senior-level field practicum (SOW432, SOW433, SOW434) from the field instructor and the faculty liaison confirming that satisfactory progress is being made toward competent, ethical, and professional social work practice. Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;
6. Obtain a final (SOW432, SOW433, SOW434) evaluation from the field instructor and the faculty liaison confirming that the student is adequately prepared to graduate as a professional social worker. Application process, field expectations, and standards are detailed in the *Social Work Program Field and Policy Manual*;
7. Maintain ongoing evidence of meeting standards of professional conduct and emotional maturity requisite for professional practice as outlined in the Standards for Academic and Professional Performance, which includes: critical thinking and decision-making, interpersonal relationship skills, professional values and ethics, communication skills, responsible conduct, professional readiness, and self-awareness; and
8. Demonstrate continued development of professional knowledge, values, skills, ethics, and conduct expected of a generalist social work practitioner as presented throughout the Social Work Program.

Note: Students who request to resume their involvement with the Social Work Program after dropping out of the program or withdrawing from Bethel University for any reason must apply for readmission into the program. Issues that led to the decision to drop out (whether voluntary or involuntary) must be addressed prior to being readmitted to the Social Work Program. Being readmitted to Bethel University does not constitute readmission into the Social Work Program.

## Minor in Social Welfare Studies

SOW200Z	Introduction to Social Work <sup>1</sup>	4
SOW250	Social Welfare History	3
SOW305	Social Policy Practice	4
SOW351	Methods of Applied Social Research	4
ECO200	Economics of Public Policy Analysis	3
or POS100	American Politics and Government	
Elective from introductory course in the social and behavioral sciences		3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

## Theatre Arts

Theatre Arts prepares students to bring the “word” to life through purposeful relationships and to tell important life-changing stories. Incarnation is the heart of theatre, making the “word” become “flesh.” Effectively accomplished, theatre awakens the members of the audience to an awareness of their spiritual capability. A good story, powerfully conceived and well executed, forces the consideration of significant questions such as: Is this true? Could it be true? Am I like this? Could I be? Should I be?

The focus of the program is to provide artistic preparation and exploration for a broad range of individual interests—from those who desire to influence professional theatre to those who plan to use theatre in ministry, education, or business. Within the liberal arts setting, the department also seeks to develop educated and artistically sensitive audience members capable of perceptively interacting with all manner of productions from a Christian worldview.

In order to accommodate specialized interests in theatre arts, the major is divided into two emphases: acting/directing and musical theatre. While integrating the Christian faith throughout each specialization, analysis and production of dramatic literature from ancient classics to modern experimental pieces enrich the study of theatre at Bethel University.

## Majors in Theatre Arts

- B.A. in Theatre Arts (Acting/Directing Emphasis) (p. 227)
- B.A. in Theatre Arts (Musical Theatre Emphasis) (p. 228)

## Minor in Theatre Arts

- Theatre Arts (p. 228)

**THA100NA • Creative Performance.** 3 Credits.

Art of acting. Workshop experiences to develop personal creative talents through an exploration of performance techniques including movement, improvisation, and stage acting.

*Offered: Fall, spring.*

**THA120A • Projects in Performance.** 1 Credits.

An individual project in backstage/technical work (set building, props, lights, or costumes) or acting to be done in conjunction with the theatre productions being performed during current semester. Minimum of 30 hours. Class size depends on the needs for the individual production.

*Prerequisites: Consent of department. Offered: Fall, spring even # years.*

**THA195 • Theatre Hour.** 0 Credits.

Attendance at a performance at an area theatre and discussion of topics of significance to theatre artists.

*Prerequisites: Theatre major or minor. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring. Special Notes: Theatre majors must register each semester in residence in order to complete the theatre attendance requirement for graduation.*

**THA202A • Producing and Performing a Musical.** 3 Credits.

An intensive experience in the production and performance of a musical. Instruction and coaching in the unique art of musical theatre as well as direct involvement in all aspects of mounting a show according to a professional summer stock or repertory model.

*Prerequisites: Audition for and be cast in the show. Offered: Interim, odd # years.*

**THA212 • Voice Production.** 3 Credits.

A group-intensive laboratory designed to explore special topics in theatre. The art of using the voice. Key skills such as projection, articulation, vocal flexibility, and vocal exercises designed to broaden and develop the vocal instrument.

*Prerequisites: THA100NA or consent of instructor; sophomore standing. Offered: Fall 2017.*

**THA214 • Stage Combat.** 3 Credits.

A group-intensive laboratory designed to explore special areas in theatre. Students will learn techniques of stage combat and movement including unarmed, quarterstaff, and rapier.

*Prerequisites: THA100NA; consent of instructor; sophomore standing. Offered: Spring 2017.*

**THA220 • Projects in Performance.** 1 Credits.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Be cast in a production or consent of department. Offered: Fall, spring. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years.*

**THA240 • Stagecraft.** 4 Credits.

Techniques used to mount a theatre production through developing and adapting the skills and creative capabilities inherent in each student.

Costuming, set construction, painting and dyeing, makeup, and lighting techniques.

*Prerequisites: GES125 or GES147. Offered: Spring, odd # years.*

**THA279 • Theatre and Culture: Classical to Modern.** 4 Credits.

Dynamic interrelationship of theatre and culture, focusing on the correlations among a people's worldview; their religious, philosophical, political, and aesthetic concerns; and their dramatic art as it was brought to life on the stages of their time. Script analysis and theatrical activity of the classical, medieval, Renaissance, and neoclassical periods.

*Offered: Fall, odd # years.*

**THA291L • Theatre in the Modern Age.** 3 Credits.

Theatre's role as a reflector and instigator of cultural change during the modern period: religious, philosophical, political, social, and aesthetic. The theatrical "isms": naturalism, realism, surrealism, symbolism, expressionism, and absurdism.

*Prerequisites: GES130 or GES244 (may be taken concurrently). Offered: Spring, even # years.*

**THA302 • Producing and Performing a Musical.** 3 Credits.

Additional experience in the production and performance of a musical. Instruction and coaching in the unique art of musical theatre as well as direct involvement in all aspects of mounting a show according to a professional summer stock or repertory model.

*Prerequisites: Audition for and be cast in the show; THA202A. Offered: Interim, odd # years.*

**THA310 • Design for the Stage.** 4 Credits.

Principles of costume, scenery, and lighting design. Training in communicating design through figure drawing, drafting, rendering, and model making.

*Prerequisites: GES125 or GES147; sophomore standing. Offered: Spring, even # years.*

**THA311 • Stage Dialects.** 3 Credits.

A group-intensive laboratory designed to explore special topics in theatre. Learn key skills needed to create believable stage dialects such as American Southern, Brooklynese, Standard British, Cockney, Irish, and German. Develop performance skills using dialects.

*Prerequisites: THA100NA or consent of instructor; sophomore standing. Offered: Fall 2015.*

**THA313 • Auditioning and Acting for the Camera.** 3 Credits.

A group intensive laboratory designed to explore special topics in theatre. Techniques utilized in acting for the camera. Work in scene study, character analysis, and individual performance skills needed in acting for film, auditioning, and creating résumés.

*Prerequisites: THA100NA or consent of instructor; sophomore standing. Offered: Spring 2016.*

**THA315 • Performing Shakespeare.** 3 Credits.

The art of performing and acting Shakespeare. Basic key skills such as scansion and anti-thesis, and performance techniques needed to analyze and interpret Shakespearean text for performance. Group lab experiences and work with Shakespearean scenes and monologues.

*Prerequisites: THA100NA, ENL303 (can be taken concurrently), ENL321; THA350, junior or senior standing. Offered: Spring, odd # years.*

**THA320 • Projects in Performance.** 1 Credits.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Be cast in a production or consent of department. Offered: Fall, spring. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years.*

**THA330 • Topics in Theatre Arts.** 3 Credits.

A group-intensive laboratory designed to explore special topics in theatre such as playwriting, character/tap dance, theatre for youth and children, and other topics depending on student interest. Students may interact with theatre professionals and develop individual performance skills.

*Prerequisites: Consent of instructor; sophomore standing. Offered: Occasionally.*

**THA350 • Advanced Acting.** 3 Credits.

Advanced work in scene study, character analysis, and individual performance skills.

*Prerequisites: THA100NA. Offered: Fall, even # years.*

**THA360 • Musical Theatre.** 3 Credits.

The identification and development of a singer-actor's skills through classroom exercises and assignments utilizing the literature of musical theatre; process and value of group interaction and coaching. Includes various performances.

*Prerequisites: THA100NA; THA202A; sophomore standing. Offered: Spring, even # years.*

**THA405 • Directing.** 4 Credits.

Directing fundamentals including: blocking, characterization, how to find and secure rights, playscript interpretation, character analysis, organization and preparing budgets, and director/actor and director/designer relationships. Development of a directoral perspective and process through play analysis and workshop experience.

*Prerequisites: THA100NA or THA291L; junior or senior standing. Offered: Fall, even # years.*

**THA410 • Theatrical Styles.** 4 Credits.

Advanced study of various theatrical styles (Greek, Neoclassic, Commedia, Antirealism, Experimental) from an acting/directing/design perspective.

Analysis of acting, directing, and design theories and workshop exercises.

*Prerequisites: THA405; THA350 or THA360. Offered: Spring, odd # years.*

**THA420 • Projects in Performance.** 1 Credits.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Be cast in a production or consent of department. Offered: Fall, spring. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years.*

**THA481 • Internship in Theatre.** 3-4 Credits.

Application of skills and knowledge to off-campus theatre situations. Internships may include church, community, professional, or summer stock theatre companies.

*Prerequisites: Major in theatre arts. Offered: Fall, interim, spring.*

**THA490 • Theatre Practicum.** 4 Credits.

A culminating theatre project intended to challenge the creativity and professional talents of the senior theatre arts major. Projects may include designing for a major production, performing an acting recital, directing a one-act play, writing a script, or developing an experimental project.

*Prerequisites: Major in theatre arts; consent of department. Offered: Fall, interim, spring.*

## B.A. in Theatre Arts (Acting/Directing Emphasis)

THA100NA	Creative Performance <sup>1</sup>	3
THA195	Theatre Hour <sup>2</sup>	0
THA212	Voice Production	3
THA214	Stage Combat	3
THA240	Stagecraft	4
THA279	Theatre and Culture: Classical to Modern	4
THA291L	Theatre in the Modern Age <sup>1</sup>	3
THA310	Design for the Stage	4
THA315	Performing Shakespeare	3
THA350	Advanced Acting	3
THA405	Directing	4
THA410	Theatrical Styles	4
THA 481/490	Internship in Theatre	3-4
PEA114QA	Jazz Dance <sup>1</sup>	1
PEA115QA	Ballet <sup>1</sup>	1

Select two of the following:	6
THA311 Stage Dialects	
THA313 Auditioning and Acting for the Camera	
THA330 Topics in Theatre Arts	
General Education	51-52
Electives	22-23
<b>Total Credits</b>	<b>122-125</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Students are required to attend Theatre Hour twice a semester.

## Additional Requirement

Students must participate in a minimum of six Bethel theatre productions. One of these experiences must include stage managing/assistant directing for at least one theatre production.

## B.A. in Theatre Arts (Musical Theatre Emphasis)

THA100NA Creative Performance <sup>1</sup>	3
THA195 Theatre Hour <sup>2</sup>	0
THA202A Producing and Performing a Musical <sup>1</sup>	3
THA212 Voice Production	3
THA240 Stagecraft	4
THA279 Theatre and Culture: Classical to Modern	4
THA291L Theatre in the Modern Age <sup>1</sup>	3
THA315 Performing Shakespeare	3
THA350 Advanced Acting	3
THA360 Musical Theatre	3
THA405 Directing	4
THA410 Theatrical Styles	4
THA 481/490 Internship in Theatre	4
MUL143A Introduction to Keyboard Theory <sup>1</sup>	1
MUS101 Music Fundamentals	1
MUS103 Introduction to Music Literature	2
MUS104 Music Theory I	3
PEA114QA Jazz Dance <sup>1</sup>	1
PEA115QA Ballet <sup>1</sup>	1
THA311 Stage Dialects	3
or THA330 Topics in Theatre Arts	
General Education	51-52
Electives	18-19
<b>Total Credits</b>	<b>122-124</b>

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

<sup>2</sup> Students are required to attend Theatre Hour twice a semester.

## Additional Requirement

Students must participate in a minimum of six Bethel theatre productions.

## Minor in Theatre Arts

THA100NA Creative Performance <sup>1</sup>	3
THA240 Stagecraft	4
THA291L Theatre in the Modern Age <sup>1</sup>	3
Select two of the following:	6-7

THA212	Voice Production	
THA315	Performing Shakespeare	
THA330	Topics in Theatre Arts (Theatre for Youth and Children or Playwriting)	
THA330	Topics in Theatre Arts (Theatre Entrepreneurship)	
THA350	Advanced Acting	
THA360	Musical Theatre	
THA405	Directing	
Select one or two of the following:		2-3
THA202A	Producing and Performing a Musical <sup>1</sup>	
THA 220/320/420	Projects in Performance	

**Total Credits** **18-20**

<sup>1</sup> A student may also choose to use this course to meet a General Education requirement.

A Theatre Minor can complement nearly any major at Bethel. Here are some suggested tracks with recommendations that fit well with particular majors and pre-professional programs. These tracks are suggestions only.

## Education Track: K-12

THA330	Topics in Theatre Arts	3
THA405	Directing	4
<b>Total Credits</b>		<b>7</b>

## Education Track: Communication Arts and Literature

THA315	Performing Shakespeare	3
THA350	Advanced Acting	3
THA405	Directing	4
<b>Total Credits</b>		<b>10</b>

## Music Track

THA212	Voice Production	3
THA360	Musical Theatre	3
<b>Total Credits</b>		<b>6</b>

## Business Track

THA330	Topics in Theatre Arts	3
THA405	Directing	4
<b>Total Credits</b>		<b>7</b>

## Healthcare Track

THA350	Advanced Acting	3
THA405	Directing	4
<b>Total Credits</b>		<b>7</b>

# ADMISSIONS PROCEDURES

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To consider your application for admission, Bethel University must receive the following:

## New Freshmen

- Your completed online application, including your personal statement of faith ([bethel.edu/undergrad/admissions/apply](https://www.bethel.edu/undergrad/admissions/apply))
- An official transcript from your high school
- Your SAT, ACT, or PSAT scores
- References upon request

## PSEO Students

- Your completed online application ( ([catalog.bethel.edu/arts-sciences/admissions-procedures/https://www.bethel.edu/undergrad/admissions/apply](https://www.bethel.edu/undergrad/admissions/apply))[bethel.edu/undergrad/admissions/apply](https://www.bethel.edu/undergrad/admissions/apply)) must be received in the Office of Admissions by April 1 of your junior year in high school
- Your completed reference forms, filled out by your pastor or youth pastor and a school official (non-relatives), must be received in the Office of Admissions by April 1
- An official transcript from your high school (through at least the middle of your junior year)
- Your ACT, SAT, or PSAT scores must be received before April 1

## Transfer Students or Nontraditional Students

- Your completed online application, including your personal statement of faith ([bethel.edu/undergrad/admissions/apply](https://www.bethel.edu/undergrad/admissions/apply))
- Official transcripts from all colleges and/or universities you have attended
- Official high school transcript is required if:
  - You have completed less than one year of college OR
  - Your cumulative college GPA is 3.0 or greater
- References may be requested in certain cases

## International Students

- Your completed application by January 1, including your personal statement of faith
- The names of two references: an academic reference and a spiritual reference. A name of an alternate reference (employer) may be used in place of an academic reference if you were not enrolled in school during the past year (non-relatives)
- Official transcripts from your high school and all colleges and/or universities you have attended. Your transcripts may need to be evaluated by one of the members of NACES
- Your TOEFL or IELTS scores
- A copy of your current visa
- Your completed International Student Certification of Finance certificate

## Admissions Calendar for New Freshmen and Transfers

### Fall Term

- The Office of Admissions will begin reviewing applications and notifying students of admission decisions beginning **October 1** and will continue as space allows.
- It is important that admitted students save their spot in the incoming class by submitting a \$300 enrollment deposit.
- The enrollment deposit is refundable until May 1 of each year. Requests for refund of the deposit must be received in writing by May 1. After May 1, the deposit is non-refundable.
- Housing and course registration processes will begin after the enrollment deposit is received.

### Spring Term

#### Regular Admission

- The Office of Admissions will begin reviewing applications and notifying students of admission decisions beginning **October 1** and will continue as space allows.
- It is important for admitted students to save their spot in the incoming class by submitting a \$300 enrollment deposit.
- Housing and course registration processes will begin after enrollment deposit is received.

## Admissions Calendar for PSEO Students

Each year Bethel accepts students into the PSEO program for enrollment beginning in the fall term only. Here are the key deadlines you need to remember. Materials must be received in the Office of Admissions by these dates:

- April 1—Complete file deadline (Application, references, transcripts, and test scores must be received in the Office of Admissions by this date.)
- May 15—Admissions decisions mailed
- June 1—PSEO admissions reply date
- June-August—PSEO class registration

**Send all materials to:**

Bethel University  
CAS Office of Admissions  
3900 Bethel Drive  
St. Paul, MN 55112-6999

You can also email us at [undergrad-admissions@bethel.edu](mailto:undergrad-admissions@bethel.edu).

Apply online or download an application by visiting the admissions website: [cas.bethel.edu/admissions](http://cas.bethel.edu/admissions)



# FINANCES

The Bethel University Board of Trustees reserves the right to change any financial charges or regulations listed in this catalog.

## Student Cost for 2015-16

FT = full-time enrollment (12-18 credits per semester; 3-5 per interim)

PT = part-time enrollment (fewer than 12 credits per semester)

NR = not registered

Tuition	Fall	Interim	Spring	Summer
<b>FT Fall and FT Spring</b>	\$16,995	No charge <sup>2</sup> (up to 5 credits)	\$16,995	NA
<b>FT Fall and PT Spring</b>	\$16,995	\$710/credit	\$1,420/credit	NA
<b>PT Fall and FT Spring</b>	\$1,420/credit	\$710/credit	\$16,995	NA
<b>PT Fall and PT Spring</b>	\$1,420/credit	\$1,420/credit	\$1,420/credit	NA
<b>FT fall and NR Spring</b>	\$16,995	\$710/credit	-	NA
<b>NR Fall and FT Spring</b>	-	\$710/credit	\$16,995	NA
<b>PT Fall and NR Spring</b>	\$1,420/credit	\$1,420/credit	-	NA
<b>NR Fall and PT Spring</b>	-	\$1,420/credit	\$1,420/credit	NA
<b>Interim Only</b>	-	\$1,420/credit	-	NA
<b>Off-Campus Programs</b>	Contact Office of Off-Campus Programs/International Studies	Contact Office of Off-Campus Programs/International Studies	Contact Office of Off-Campus Programs/International Studies	NA
<b>Teacher Licensure Rate</b>	\$903/credit	\$903/credit	\$903/credit	\$903/credit
<b>Post-baccalaureate Rate</b>	\$903/credit	\$903/credit	\$903/credit	\$903/credit
<b>Tuition Overload<sup>1</sup></b>	\$1,008/credit	NA	\$1,008/credit	NA
<b>2016 Summer Term</b>	NA	NA	NA	\$470/credit
<b>Audit</b>	\$270/credit	\$270/credit	\$270/credit	\$160/credit

<sup>1</sup> Overloads are not permitted during interim.

<sup>2</sup> Students enrolled for at least 12 credits for both fall and spring terms, and paying the block tuition rate of \$16,995 per semester, are not charged tuition for 1-5 credits taken at Bethel during interim. Fall and spring term tuition is not reduced if students do not enroll in an interim course at Bethel. Students who were charged tuition on a "per-credit" basis for either fall or spring will be charged for interim tuition, as illustrated above.

Fee	Fall	Interim	Spring	Summer
<b>Bethel Student Government fee (full time)</b>	\$75	NA	\$75	NA

### Room (first-time residents in Bethel housing)

	Fall	Interim	Spring
<b>In Bethel Housing Fall, Spring, and Interim</b>	\$2,795	No Charge	\$2,795
<b>In Bethel Housing Fall and Interim</b>	\$2,795	\$288	-
<b>In Bethel Housing Spring and Interim</b>	-	\$288	\$2,795
<b>In Bethel Housing Interim Only</b>	-	\$576	-

### Room (second consecutive year in Bethel Housing)

	Fall	Interim	Spring
<b>In Bethel Housing Fall, Spring, and Interim</b>	\$2,700	No Charge	\$2,700
<b>In Bethel Housing Fall and Interim</b>	\$2,700	\$288	-
<b>In Bethel Housing Spring and Interim</b>	-	\$288	\$2,700
<b>In Bethel Housing Interim Only</b>	-	\$576	-

### Room (third consecutive year in Bethel housing)

	Fall	Interim	Spring
In Bethel Housing Fall, Spring, and Interim	\$2,625	No Charge	\$2,625
In Bethel Housing Fall and Interim	\$2,625	\$288	-
In Bethel Housing Spring and Interim -	-	\$288	\$2,625

### Room (fourth consecutive year in Bethel Housing)

	Fall	Interim	Spring
In Bethel Housing Fall, Spring, and Interim	\$2,550	No Charge	\$2,550
In Bethel Housing Fall and Interim	\$2,550	\$288	-
In Bethel Housing Spring and Interim -	-	\$288	\$2,550

### Meal Plan

More information regarding meal plans is available at [bethel.edu/offices/dining-services/meal-plans](https://www.bethel.edu/offices/dining-services/meal-plans) (<https://www.bethel.edu/offices/dining-services/meal-plans>)

(Maximum amount is \$4,180 per year)

To manage your meal plan: **Blink>Student Services tab>Housing channel>My Housing and Meal Plans**

### Music Instruction

1/2 hour per week private lesson	\$480 per semester
3/4 hour per week private lesson	\$680 per semester
One hour per week private lesson	\$865 per semester

- Regular tuition is charged in addition to any special course fee if the music instruction is taken for credit.
- No refund is given after Friday of the second week of the semester for students who withdraw from private music instruction. Copies of the complete Refund Policy for Private Instruction are available from the Department of Music.

### Special Fees

Enrollment Deposit (nonrefundable after May 1)	\$300
Additional Course Fees (indicated in registration materials)	Amount varies
Science Lab Fee	\$120
Natural Science Education Lab Fee (NAS)	\$35
Nursing Lab Fee (Juniors and Seniors)	\$120 per semester
Nursing Testing Fee (Juniors and Seniors)	\$127.50 per semester
Nursing Clinical Fee for Clinical Site Placement, Criminal Background Checks, and Malpractice Insurance (Juniors and Seniors)	\$80 per semester
Nursing Lab Fee (Sophmores)	\$30 (spring semester)
Nursing Fee for Criminal Background Check (Sophmores)	\$20 (spring semester)
Human Kinetics and Applied Health Science Fee for First Aid Certification	\$45 per year
Human Kinetics and Applied Health Science Athletic Training for Red Cross Recertification (Junior and Seniors)	\$45 per year
Language Skills Test	\$25
Credit by Examination	\$60 per credit
Student Health Insurance Fee (if proof of student's own health insurance plan is not provided)	policy cost varies per year
Offical Transcript: <a href="https://www.bethel.edu/registar">https://www.bethel.edu/registar</a>	minimum of \$6 per copy
Non-sufficient Funds Fee (NSF)	\$20 per item
Parking Permit	\$100 per semester
Commuter Parking Fee	\$100 per semester

## Bethel Student Government Fee

The Bethel Student Government fee is charged per semester when a student is enrolled full time (12-18 credits). This fee is determined by the Bethel Student Government (BSG).

### Overload Fee

An overload fee is charged for each credit enrolled over 18 credits in a semester. No overloads are permitted during interim. Note the eligibility requirements in the Academic Information section of this catalog.

### Audit Fee

A student who is registered for full time during the semester will not be charged to audit a course. The student will be charged the audit fee per credit if not enrolled full time during the semester. The free audit does not include students who are billed at the Post-baccalaureate or Teacher Licensure rates.

### Student Health Insurance

Students enrolled in the College of Arts & Sciences are required to report that they have health insurance with a minimum of \$50,000 coverage for each accident or sickness. Student health insurance can be through a family plan, an individual plan, or the accident and sickness plan that Bethel provides through Student Assurance Services. Student athletes are required to have health insurance that meets the NCAA requirement minimum of \$90,000 for each accident or injury and does not exclude intercollegiate sports accidents or injuries. If a student has been enrolled in the health insurance plan made available through Bethel, the additional sports premium will be billed to the student account as well.

**Each year students must complete an online waiver form to meet this important requirement. If the waiver is not completed by the deadline, the student will be *automatically* enrolled in the plan Bethel is making available, and the yearly premium will be billed to their student account.** Note: Charges for this student health insurance plan are not refundable.

To provide health insurance information, students complete their waiver form through **Blink > Banner icon > Student tab > Student Health > Insurance Waiver Form.**

For complete information about this requirement, including important reporting deadlines and current costs, visit [bethel.edu/offices/health-services/health-insurance/requirement](http://bethel.edu/offices/health-services/health-insurance/requirement), or contact Health Services at 651.635.8532 (800.255.8706, ext. 8532), or [health-insurance@bethel.edu](mailto:health-insurance@bethel.edu).

## Financial Aid

### Financial Aid Guidelines

We believe financial aid should provide assistance to those students who would not otherwise be able to attend college. Financial aid is also awarded to encourage the enrollment of students who have demonstrated high academic achievement, special talents, or a strong likelihood of success at Bethel. The following guidelines help us provide the best possible aid to those needing it:

1. The student's family has primary responsibility for financing the education, and a student requesting financial aid is expected to contribute toward his or her own educational expenses. This self-help may be in the form of summer or school-year earnings or loans in any reasonable combination. Financial aid from the university and other sources will be viewed only as supplemental to support from the family.
2. Awards can consist of gift aid, loans, or employment. They are offered singly or in combination. Although the student is free to request a change in the award package, the final decision will be made by the university.
3. Students are encouraged to seek grants and scholarships from third-party sources. (This includes church scholarships, matching grants, high school and community awards, national merit scholarships, etc.) When private scholarships are reported to the financial aid office, loan and/or work eligibility is reduced, if needed, to keep the student's total aid package within federal need limits. Institutionally controlled grants and scholarships are reduced if total gift aid from all sources exceeds the financial aid budget for tuition, fees, room, board, books, and supplies.
4. Recipients of military-related educational benefits (e.g., army tuition assistance, Post-9/11 GI Bill) will have their institutionally controlled grants and scholarships reduced if total military benefits, grants, and scholarships exceed the financial aid budget for tuition, fees, room, board, books, and supplies.
5. A student's financial need is determined by an analysis of the information provided in the Free Application for Federal Student Aid (FAFSA). Consideration is given to elements that affect a family's financial status, including current income, assets, number of dependents, other educational expenses, and retirement needs.
6. All financial aid, excluding job earnings, is first credited to a student's Bethel account. Only after all current Bethel charges are satisfied will surplus aid be disbursed to students for use in meeting other expenses.
7. Gift aid from federal, state, and Bethel programs is only available to undergraduate students who have not yet earned their first baccalaureate degree. Postbaccalaureate students taking undergraduate courses will not receive gift aid, but will be eligible for government loans if they are seeking licensure, certification, or a second type of bachelor's degree (e.g., a student has a B.A. and is now seeking a B.S.).

## Financial Aid Application Procedures

1. New students only: Complete the application process for admission to Bethel while you are applying for financial aid. A financial aid offer is made only after admission to Bethel has been granted.
2. Complete and submit the Free Application for Federal Student Aid (FAFSA). The FAFSA may be completed online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Bethel's FAFSA code number is 002338.
3. After your FAFSA is processed, you will receive a Student Aid Report (SAR) from the government. Review the data on the SAR for accuracy. If you need to make corrections, follow the instructions on the SAR or contact a counselor in the Office of Financial Aid at Bethel.
4. Students who have unusual, non-discretionary expenses; whose family experienced a recent loss of income; or who are applying for independent status must submit an appeal form with supporting documentation. Appeal forms are available at [cas.bethel.edu/financial-aid/apply/special-circumstances](http://cas.bethel.edu/financial-aid/apply/special-circumstances).
5. The financial aid office will mail students who have been selected for verification a Verification Form that indicates what must be verified along with instructions for how to submit the information. If selected to verify income, applicants must either utilize the IRS Data Retrieval or request a Tax Return Transcript.

Bethel's priority deadline for financial aid applications is April 15 for new students, and May 10 for returning students each year. Students who have completed and mailed all the necessary forms by that date will receive first consideration. Bethel will continue awarding financial aid funds to students who complete their applications after the priority deadline, but such students may receive diminished financial aid awards.

Awards are made for the entire academic year on the assumption that the student will continue to meet the standards for the award and remain eligible for the spring semester. Should a student's status change, the university will review and adjust the award.

Each year, a returning student seeking either loans or need-based gift aid must re-apply for financial aid before a new award will be made.

## Financial Aid Satisfactory Academic Progress Policy

### Process Overview and Responsibilities

The Code of Federal Regulations, title 34, sections 668.34 requires that an institution establish, publish, and apply reasonable standards for measuring whether a student is maintaining satisfactory progress in his or her course of study in order for the student to receive financial aid under a Title IV program of the Higher Education Act. Minnesota Statute 136A.101 Subd. 10 applies this federal Satisfactory Academic Progress (SAP) regulation to Minnesota financial aid programs. Bethel University applies this federal SAP regulation to institutionally controlled financial aid programs.

All financial aid recipients must progress at a reasonable rate ("make satisfactory progress") toward achieving a certificate or degree. This requirement applies to all terms regardless of whether or not the student received financial aid.

Evaluating Financial Aid Satisfactory Academic Progress (SAP)

Financial aid SAP evaluation begins once grades from the prior term are processed by the Registrar, which typically requires six (6) business days after the end of each term (fall, spring, and summer) using three benchmarks: Qualitative Measure, Pace, and Maximum Timeframe.

### Qualitative Measure

Undergraduate and non-doctoral seminary students must maintain a cumulative grade point average (GPA) of at least 2.00. Students enrolled in the Graduate School or the Doctor of Ministry program must maintain a cumulative GPA of at least 3.00. All undergraduate coursework is considered when calculating the cumulative GPA for undergraduate degrees. At the graduate level, cumulative GPA is calculated separately for Graduate School doctoral programs, Graduate School non-doctoral programs, Bethel Seminary doctoral programs, and Bethel Seminary non-doctoral programs.

### Pace of Completion

Students must progress through their educational program at a pace that ensures they will complete the program within the maximum timeframe. The pace is calculated by dividing the cumulative number of credit hours the student has successfully completed by the cumulative number of credit hours the student has attempted. Students must successfully complete a minimum of 67.0% of their cumulative attempted credits.

### Maximum Timeframe

Students are expected to complete their program within the normal time for completion (122 credits for a baccalaureate degree). However, there may be special circumstances like a program change or an illness that would prevent students from completing their program of study within the normal timeframe.

To accommodate these special circumstances, students may continue receiving aid until they either

1. complete graduation requirements for their program of study, or
2. attempt 150% of the number of credits (including transfer credits, advanced placement, or CLEP credits) required for their program of study, or
3. reach the point where they cannot earn the number of credits necessary to complete their program of study within 150% of required credits for the degree, whichever comes first.

Students become ineligible for financial aid at the time that it is determined they are unable to complete their degree within the maximum timeframe. Transfer students who will transfer more than 50% of the credits needed for their program of study should request that only the credits that apply to their program of study are accepted by Bethel, to ensure that they do not exceed the maximum timeframe prior to completing their program of study, and therefore become ineligible for financial aid.

Program of Study	Maximum Time Frame
Undergraduate Certificate	45 semester credits
Associate's Degree: CAS	61 x 1.5 = 92 semester credits
Associate's Degree: CAPS	60 x 1.5 = 90 semester credits
Baccalaureate Degree	122 x 1.5 = 183 semester credits
Graduate Certificates	Varies (150% x ___ credits in certificate)
Master of Arts: Seminary	64 x 1.5 = 96 semester credits
Master of Arts: Graduate School	Varies (150% x ___ credits in degree)
Master of Business Administration	44 x 1.5 = 66 semester credits
Master of Divinity	96 x 1.5 = 144 semester credits
D.Min.	48 x 1.5 = 72 semester credits
Ed.D.	61 x 1.5 = 92 semester credits

## Treatment of Special Academic Course Situations

### Term

The financial aid office evaluates SAP at the end of each semester. All terms of enrollment are counted for SAP, including terms in which a student did not receive financial aid. Courses taken during interim are evaluated as part of spring semester.

### Remedial Courses

Remedial courses are treated the same as non-remedial courses in evaluation of quality, pace, and maximum timeframe.

### Pass/Fail Courses

Some of Bethel's courses offer a grade of Satisfactory (S) or Unsatisfactory (U). These courses are not included in the calculation of GPA; they are counted as "attempted" credits. Courses with an S grade are considered "earned" credits. Courses with a U grade are not "earned" credits.

### English as a Second Language Courses

Bethel does not offer any ESL courses.

### Consortium Courses

Consortium courses involve a "home" and a "host" school. The home school provides the academic credit, monitors SAP, and provides financial aid. The host school provides the instruction for the designated course(s).

- When Bethel is the home school, the credits are counted as "attempted" and "earned," as appropriate (depending on the student's grade in each course). All attempted credits count toward maximum timeframe. The Office of the Registrar maintains a list identifying whether or not the courses are included in the GPA calculation.
- When Bethel is the host school, the credits are not counted as either "attempted" or "earned" at Bethel. Rather, the student's home school is responsible to monitor SAP for courses taken at Bethel under this type of consortium agreement.

### Repeated Courses

Courses that a student is repeating are included when determining the student's enrollment status for Title IV purposes as long as the course is not a result of (a) more than one repetition of a previously passed course, or (b) any repetition of a previously passed course due to the student failing other coursework.

Repeated courses are always included in the cumulative credits attempted and maximum timeframe calculation. They are included in the GPA and cumulative credits earned calculations, provided that the grade for the repeated courses, and the original course, are both included in the GPA calculation.

### Audited and Enrichment Courses

Courses that are audited, or not eligible for academic credit, are excluded from SAP calculations since they are ineligible for federal, state, or institutional financial aid programs.

## Earned Credits

For purposes of this policy, credits in which the student earns a grade of A, A-, B+, B, B-, C+, C, D+, D, or S are considered “earned” credits, and are counted as both “attempted” and “earned” in the pace calculation.

## Transfer Credits

College-level courses taken outside of Bethel before students received their high school diploma or G.E.D. (e.g., CLEP, PSEO, AP) are treated as transfer credits. (Postsecondary Enrollment Options credits attempted at Bethel are treated the same as other courses taken at Bethel after receiving a high school diploma.) Transfer credits are included as both “attempted” and “completed” credits when measuring Pace, and are included in the maximum timeframe calculation. All transfer credits accepted by Bethel will be used in determining when the maximum timeframe requirement has been reached. The student may, however, appeal to have only the credits accepted toward his or her Bethel program of study included in the maximum timeframe calculation.

## Change of Majors

If a student changes majors, the credits earned under all majors will be included in the calculation of attempted, earned, and maximum timeframe credits, as well as GPA calculation. The student may, however, appeal to have only the credits accepted toward his or her Bethel program of study included in the maximum timeframe calculation.

## Dropping a Course

Courses that the student drops after the 100% refund period are included in the cumulative credits attempted and in the maximum timeframe. (If a student fails all courses attempted during the term, the financial aid staff will check to see if the student was enrolled for the entire period or unofficially withdrew from school.)

## Incompletes

Courses assigned an incomplete grade are included in the cumulative credits attempted and in the maximum timeframe. These credits cannot be counted as earned credits until a satisfactory grade is assigned.

## Second Degree

Students may attempt up to 150% of the credits required for a subsequent program of study (183 credits for a baccalaureate degree, plus an additional 183 credits for a second baccalaureate degree). Students who already have a first baccalaureate degree are eligible for loans (not grants) if they are pursuing teacher licensure or a second degree (e.g., a student has a B.A. and is now seeking a B.S.).

## Multiple Majors and/or Dual Degree Students

Students who choose to earn more than one major or more than one degree at the same time are subject to the maximum time limits of one degree (e.g., 183 credits for a baccalaureate degree).

## Concurrent Enrollment in Bethel's Schools

Students who are concurrently enrolled in more than one of Bethel's schools may receive more than one financial aid SAP review each term. Students must be demonstrating SAP in every school they are attending. Failure to demonstrate SAP in any school will impact financial aid eligibility in all schools. For example, if as a result of not demonstrating financial aid SAP in the Graduate School a student's financial aid eligibility is terminated, the student's financial aid eligibility is also terminated at Bethel Seminary, the College of Arts & Sciences, and the College of Adult & Professional Studies.

## Programs Exempt from Financial Aid SAP Review

Some private educational loans and employer educational benefits are available to students who are not demonstrating satisfactory academic progress. Students should check with their employer or private educational loan provider to see if they must be demonstrating SAP as a condition of receiving these funds.

Students enrolled solely in academic programs that are excluded from eligibility for federal, state, and Bethel-funded financial aid are not subject to the financial aid SAP policy. For example, since no federal, state, or unfunded institutional funds are offered to Postsecondary Enrollment Options students, they are exempt from the financial aid SAP review.

## Failure to Meet Minimum SAP Standards

Students who are not meeting the minimum SAP standards will be placed on Financial Aid Warning status. Following a warning term, students who are still not meeting the minimum SAP standards become ineligible for financial aid, and will have their financial aid eligibility terminated.

## Financial Aid Warning

Financial Aid Warning is a status assigned to students who fail to make financial aid SAP at an institution that evaluates academic progress at the end of each term. The Financial Aid Warning status lasts for one term. If after the Financial Aid Warning term the student is not demonstrating financial aid SAP, the student becomes ineligible for financial aid (Financial Aid Terminated).

## Financial Aid Terminated

Financial Aid Terminated is a status assigned to students who have lost their financial aid eligibility due to failure to demonstrate financial aid SAP. Students whose financial aid eligibility has been terminated may appeal the termination.

## Appeal of Financial Aid Termination

Students who fail to meet financial aid SAP standards and lose financial aid eligibility can appeal this decision. The appeal must be made in writing and should be accompanied by appropriate supporting documentation.

Appeals must be submitted to the Office of Financial Aid within seven (7) calendar days of the date on the notification letter or email. Appeals will be evaluated by a cross-departmental committee. Appeals must explain why the student failed to make SAP, and what has changed to resolve the issue(s) that prevented the student from demonstrating SAP. Acceptable reasons for appeal may include injury or illness of the student, illness or death of an immediate relative of the student, or other extenuating circumstances beyond the student's control. Students who cannot demonstrate financial aid SAP within one term will be required to submit an academic plan as a part of their appeal.

## Financial Aid Probation

Financial Aid Probation is a status assigned to students who have successfully appealed the termination of financial aid due to failure to demonstrate financial aid SAP. Students on Financial Aid Probation may receive financial aid for one term.

## Financial Aid Academic Plan Probation

If it is impossible for the student to meet the minimum SAP standards after one term, then the institution and the student may agree upon an academic plan to monitor the student's academic progress for more than one term. The institution will use the academic plan as the benchmark for SAP for the length of time specified in the academic plan. Students who fail to fulfill the requirements of the academic plan become ineligible for financial aid.

- College of Arts & Sciences will work with staff in the Academic Enrichment & Support Center (AESC) to develop academic plans.
- College of Adult & Professional Studies students will work with their student success advisor to develop academic plans.
- Graduate School students will work with their student success advisor to develop academic plans.
- Seminary students will work with the student development office to develop academic plans.

## Student Notification

Students who are not meeting the minimum financial aid SAP standards will be notified by the financial aid office of their Warning or Termination status. Students who submit an appeal will be notified by the financial aid office of their Financial Aid Probation, Financial Aid Academic Plan Probation, or Financial Aid Termination status. Students whose financial aid status had been at a Warning, Probation, Academic Plan Probation, or Terminated status, but are meeting minimum SAP standards when reviewed, will be notified of the change in their status.

Students who graduated during the term that is being reviewed for SAP and are not registered for the subsequent term will not be notified of changes in SAP status.

### Regaining Eligibility

Students whose financial aid was terminated due to lack of SAP may choose to enroll without benefit of financial aid. If the standards are met, financial aid eligibility is restored for subsequent terms of enrollment. Students should consult with a financial aid counselor in the Office of Financial Aid if they have any questions about this policy, the appeal process, or reinstatement of financial aid eligibility.

### Interpretation and Enforcement

The director of financial aid will have primary responsibility for the interpretation and enforcement of this policy.

## Financial Aid Criteria

### Enrollment Level

Students are awarded financial aid on the assumption that they will maintain a full-time course load. Those who take less than a full course load (or drop below full time during the semester) will have a diminished need and will receive less aid. Bethel scholarships and grants that are not based on need are awarded only to students who are full time.

### Exit Counseling

All Direct Subsidized and Unsubsidized and Perkins loan borrowers and TEACH grant recipients who graduate, withdraw, transfer to another school, or drop below half-time attendance must complete an exit session. During this session borrowers are informed of their rights and responsibilities, including repayment options for student loans.

### Transfer Students



Transfer students will be considered for financial aid on the same basis as entering freshmen. Former students who have taken coursework at another school and then return to Bethel will be considered for financial aid on the basis of their previous Bethel record.

#### Citizenship

Students who are not citizens or permanent residents of the United States will be considered for financial assistance on the basis of the Declaration of Finances form. In some cases a statement of financial status from the student's pastor or pertinent information provided by a missionary will be necessary to help determine the possibility of coming to the United States. International students who do not qualify to apply for federal aid are eligible only for the academic scholarships, International Student Grant, and for Bethel-sponsored work. They are not eligible for federal or state-supported aid programs or for other grants from Bethel.

#### International Study Programs

Bethel has established a financial aid policy for students who study overseas or at another U.S. college or university as part of their Bethel program. This policy may be obtained from the Office of Off-Campus Programs/International Studies or the Office of Financial Aid.

#### Changes in Financial Aid Programs

From time to time changes are made in the availability of scholarships, grants, and loans. We recommend that you go to [bethel.edu/undergrad/financial-aid](http://bethel.edu/undergrad/financial-aid) or contact the Office of Financial Aid for up-to-date information.

## Tuition and Payment Options

Full payment or enrollment in the 5-Month Semester Payment Plan is **required** by August 10, 2015 for the Fall term and January 15, 2016 for the Spring term. The bill for fall and spring semesters will include, but is not limited to: tuition, room, meal plan, Bethel Student Government fee, course fees, music lessons, health insurance, parking permits, and commuter fees (if applicable). Students are responsible for payment reaching the Business Office when due, regardless of the source of payment. Payment must be received in U.S. dollars. If loans are needed to help meet a financial obligation, students may apply for them through the Office of Financial Aid. Loan applications should be made well in advance for the funds to be disbursed by the beginning of the term. Students will not be permitted to move into housing or attend classes unless their balance has been paid in full, or they have enrolled in the Semester Payment Plan. Students must also be current on their monthly installment payment(s). Enrollment for succeeding terms is dependent on full payment of the previous term's expenses. A finance charge of 1% per month will be assessed on any charges more than 30 days past due.

### Payment Options

#### Full Payment (Option 1)

Full payment for **fall semester** is due **August 10, 2015**.

Full payment for **interim/spring semester** is due **January 15, 2016**.

Full payment for **summer school** is due **May 31, 2016**.

#### 5-Month Semester Payment Plan (Option 2)

Students have the option to enroll in a 5-Month Semester Payment Plan. Enrollment in the payment plan and payment of the first installment are required prior to the beginning of each semester. See these important enrollment dates below.

##### Fall Semester Payment Plan

Enrollment in the fall payment plan is available beginning on approximately July 1, 2015. **The deadline to enroll in the payment plan and pay your first installment is August 10, 2015. Please note: The first installment payment for fall is due on August 10.** The remaining installment payments for fall are due on September 15, October 15, November 15, and December 15.

##### Spring Semester Payment Plan

Enrollment in the spring payment plan is available beginning on December 26, 2015. **The deadline to enroll in the payment plan and pay your first installment is January 15, 2016.** The remaining installment payments for spring are due on February 15, March 15, April 15, and May 15.

The 5-Month Semester Payment Plan is for all charges on the student account. Enrollment in the Payment Plan is elected online on a semester-by-semester basis, with payments spread out over the semester. The enrollment fee is \$20 per semester. The monthly payment amount is recalculated each time there is a new transaction posted to the account. Therefore, your monthly payment amounts may differ each month. You will be notified by email each time your payment amount changes. If a student does not stay current on their monthly installment payment(s) they will be removed from the payment plan. If removed from the payment plan, the student will be required to pay the entire balance due for the term before future registration is granted. A finance charge of 1% will be assessed each month for any unpaid balance. (Payment plans are not offered for summer school). Visit [bethel.edu/business-office/cas/account/payment-plan](http://bethel.edu/business-office/cas/account/payment-plan) for more payment plan information.

## Online Monthly Statements

Around the 17th of each month, an email, including access instructions, will be sent to the student's Bethel email address alerting them that the Bethel University Online Monthly Statement is available to view. Monthly statements will not be mailed to the home address. Students are responsible for forwarding monthly statement information to parents or others who are helping to pay their bill.

To view online monthly statements:

**Blink** > Student Services tab > My Statement channel > Statement and Payment History > Select Statement Bill Date > View Statement

Students can view their account, enroll in a Semester Payment Plan, and pay online through **Blink** > Student Services tab > My Bethel Account channel > "Make a Payment." This will direct you to the Touchnet/Bill-Pay site. To make a payment click "Make a Payment" and follow the prompts. To enroll in a Semester Payment Plan click "Payment Plans" on the toolbar > click "Enroll Now" and follow the prompts.

## Ways to Make a Payment

- Online by electronic check: Authorize a one-time payment of automatic withdrawal from your checking or savings account with no fee.
- Online by credit card: MasterCard, Visa, American Express, or Discover with a non-refundable fee of 2.75% or \$3 minimum, charged by PayPath (processing service).
- In person: Pay by cash, check, or money order at the Business Office (Room CC208), 8 a.m. - 4:30 p.m., M-F. Credit cards accepted online only.
- For after-hour payments, a drop box is located next to the Business Office door (CC208).
- Mail a check to:  
Bethel University, Business Office  
3900 Bethel Drive  
St. Paul, MN, 55112-6999  
Please include your student ID number in the memo portion of the check.

## Banking Window Hours (closed during Chapel)

Fall/Spring hours:

11:15 a.m.-2 p.m. (M,W,F)

10 a.m.-2 p.m. (T, TH)

Interim hours:

noon-2 p.m. (M,W,F)

10 a.m.-2 p.m. (T, TH)

Summer hours:

10:30 a.m.-12:30 p.m.(M-TH)

## Authorized Users

If a student would like to give electronic access to a parent, spouse, or another person to view their account, enroll in a Semester Payment Plan, and make online payments, the student will need to authorize him/her as a user.

Visit [bethel.edu/business-office/authorized-users](http://bethel.edu/business-office/authorized-users) for more information.

## Finance Charges

A finance charge of 1% per month will be assessed on any charges more than 30 days past due.

## Registration Hold

Registration for classes in succeeding terms is dependent on full payment of the previous term's expenses. A student whose account is in arrears will have a registration hold on the account and will not be permitted to register for the subsequent term.

Any student who pays an outstanding balance by check will have their registration dropped (for future terms) if the check is returned from the bank due to non-sufficient funds. The student will not be permitted to re-register until full payment is received. If repayment is made via check, the payment must be cleared through the bank before registration is granted.

Any student in good standing on a payment plan (current on their monthly payment installments) will be allowed to register for future terms. If the student fails to pay their remaining monthly installments in full, their registration will be dropped.

Be advised that students whose registrations have been dropped have no guarantee that the same course(s) will be available when they re-register.

## Transcript Hold

When full payment has not been received, a transcript hold is placed on the student account. A transcript hold will prevent an official transcript from being printed by the Office of the Registrar.

## Finance Clearance for Graduation

A student will not be issued an official transcript or receive their diploma until all financial obligations have been met.

## Financial Suspension

Bethel reserves the right to suspend a student from a program, course(s), housing, and meal plan if there is failure to provide full payment on the student account when due. Any student who is financially suspended during a semester will be withdrawn from their classes, removed from their meal plan, and required to move out of Bethel housing.

## Past Due Accounts

A student who is not currently registered at Bethel University and has an account balance more than 60 days past due may be transferred to Educational Computer Systems, Inc. (ECSI). ECSI is a billing service that offers payment plans for students not currently registered at Bethel University. Accounts sent to ECSI are automatically reported to the National Credit Bureau. No student who has an account balance with ECSI will be considered for re-admittance. Official transcripts and diplomas will not be released until the balance has been paid in full.

In the event Bethel University has to incur any expense in collecting on a student account, the student agrees to pay all of Bethel's costs for collection. This includes, but is not limited to, a collection agency fee and/or attorney's fees at the rate of 25-40%, depending on the actions necessary to collect the debt.

## Non-Sufficient Funds

If payment is returned from the bank for non-sufficient funds, a \$20 returned check fee will be assessed on the student account. Any student (or parent/guardian) who has two checks returned due to non-sufficient funds will not be allowed to make future payments by personal check.

## Enrollment Deposit

A one-time enrollment deposit of \$300 is required of all students. The deposit allows students to register for each succeeding semester, provided all financial obligations have been met.

Enrollment deposits are not required of students admitted on a special basis, including but not limited to: Postsecondary Enrollment Options (PSEO) program students, summer school students, or consortium visitors.

## Off-Campus Programs

Students participating in a Bethel-sponsored fall semester or spring semester off-campus program who maintain their status as Bethel students are considered full time for purposes of determining the cost of interim tuition. See the Office of Off-Campus Programs/International Studies for a list of Bethel-sponsored off-campus programs.

## Summer School

Summer school information is available in the Office of Academic Affairs or the Office of the Registrar.

## Postsecondary Enrollment Options Program (PSEO)

Students participating in the PSEO program at Bethel are not responsible for paying the enrollment deposit, tuition, the Bethel Student Government fee, course fees, and books. Fees for tuition, the Bethel Student Government fee, and course fees will appear on the student account and then the charges will be credited (reversed) on the account. PSEO students are responsible for the following, including but not limited to: room, meal plans, parking permits, commuter fees, campus store charges, library fines, and traffic fines (if applicable). Specific questions regarding the PSEO program should be directed to the Office of Admissions.

## Military and Veterans Educational Benefits

If you need assistance in determining what military or veteran benefits you may be eligible for, you may contact Bethel's Veterans Resource Center at 651.635.8096 or [veterans-center@bethel.edu](mailto:veterans-center@bethel.edu). If you qualify for GI benefits and intend to use them, you must contact the Certifying Official at Bethel University in the Office of the Registrar at 651.635.8734 (800.255.8706, ext. 8734).

## Refunds

Students who withdraw from classes during the term may be eligible for a refund. There are two types of refunds: billing refunds (tuition, room, meal plan, etc.) and financial aid refunds. A billing refund credits funds to the student account, thereby decreasing the amount that is owed on the student

account. A financial aid refund reduces the amount of financial aid available to pay the billing charges, thereby increasing the amount that is owed on the student account.

A student seeking to withdraw from all classes at Bethel must notify the Office of Student Life. The student will be provided with a packet of information regarding the withdrawal and stop-out processes and will be scheduled for a withdrawal/stop-out interview with one of the student life deans. Students are asked to read through all materials provided in the packet in advance of their interview with the dean.

## Tuition and Housing Refund Schedules

### Fall/Spring

Through the sixth business day	100%
Through Friday of the third week	75%
Through Friday of the fifth week	50%
Through Friday of the seventh week	25%
After Friday of the seventh week	No refund

### Interim

Through the second business day	100%
Through the fifth business day	75%
Through the eighth business day	50%
Through the eleventh business day	25%
After the eleventh business day	No refund

### Summer School

(See summer housing contract agreement for refund policy and schedule.)

### Summer Full Term

Through the sixth business day	100%
Through Friday of the third week	75%
Through Friday of the fourth week	50%
Through Friday of the fifth week	25%
After Friday of the fifth week	No refund

### Summer Term A and Summer Term B

Through the second business day	100%
Through the fifth business day	75%
Through the eighth business day	50%
Through the eleventh business day	25%
After the eleventh business day	No refund

The Bethel Student Government fee, course fees, science lab fees, and nursing department fees (if applicable) are refunded in full through the 100% refund period. Thereafter, there is no refund of the fees.

Students who withdraw from Bethel or drop below full-time status may incur additional tuition and housing costs for interim. Please see the "Student Costs" section or contact the Bethel Business Office for additional information.

Students with a meal plan who officially withdraw or choose to cancel their meal plan must notify the Office of Campus Services. A student may receive a prorated refund of their meal plan.

## Student Account Questions

More student account information is available at [bethel.edu/business-office/cas/account](https://www.bethel.edu/business-office/cas/account) (<https://www.bethel.edu/business-office/cas/account>), or contact the Business Office at 651.638.6208 (800.255.8706, ext. 6208).

## Financial Aid Refunds

There are four sources of financial aid: federal government (Title IV funds), state governments, Bethel University, and private third-party organizations (e.g., Dollars for Scholars). Financial aid is refunded in accordance with policies established by each entity. Refunds are first calculated for federal funds, then state funds, then Bethel and third-party funds.

Students who withdraw from all classes during the 100% tuition refund period are presumed to have not attended their classes. These students will receive a full refund of all their financial aid unless they complete a Supplemental Withdrawal Form (available in the Office of Student Life), documenting their attendance at each class. Upon receipt of the Supplemental Withdrawal Form, the federal financial aid refund policy will be calculated using the last date of class attendance as the official date of withdrawal. If students receive a full (100%) refund of tuition, they are ineligible for any state, institutional, or private sources of financial aid.

- Federal (Return of Title IV Funds) Refund Policy.** If a student withdraws or is expelled from Bethel after a term has begun, the school or the student may be required to return some of the federal funds awarded to the student.  
The federal formula requires a return of Title IV (federal) aid if the student received federal financial assistance in the form of a Pell Grant, Supplemental Educational Opportunity Grant, TEACH Grant, Perkins Loan, Direct Subsidized Loan, Direct Unsubsidized Loan, or Direct PLUS Loan and withdrew on or before completing 60% of the term. Students retain funds earned through the Federal Work Study Program prior to withdrawing from Bethel.  
For semester-long courses the percentage of Title IV aid to be returned is equal to the number of days remaining in the term divided by the number of calendar days in the term. Scheduled breaks of more than four consecutive days are excluded. For modular courses (e.g., interim), the same principle applies that students earn federal financial aid based on the percent of their enrollment period, but the number of course days in the numerator and denominator only includes days for courses the student is registered to attend when the withdrawal is initiated.
- Minnesota Office of Higher Education (OHE) Financial Aid Refund Policy.** Bethel is required to use the OHE financial aid refund policy when calculating refunds for the Minnesota Public Safety Officer's Survivor Grant Program, Minnesota GI Bill, Minnesota State Grants, and Minnesota SELF loans. After applying Bethel's "billing refunds" and the "Return of Title IV Funds" refund calculations to the student's account, a proportionate share of the state aid is refunded. Students who withdraw during a 100% tuition refund period are not eligible for any Minnesota state financial aid. Students retain funds earned through the Minnesota State Work Study Program prior to withdrawing from Bethel.
- Financial Aid Refunds for Institutional and Third-Party Funds.** After calculating the federal and Minnesota financial aid refund policies, Bethel reduces institutional and third-party sources of gift aid using the Tuition and Housing Refund Schedule. Institutional and third-party gift aid is reduced by the same percent as the student's tuition was reduced. Private educational loans are first used to pay any remaining balance on the student's account. If, after all refund calculations, there is a credit on the student's account, a portion of the private loan may be refunded to the lender.

**Sample refund calculation.** Because there are several different refund policies involved in most withdrawals, students may still owe money to the school after all calculations are completed. Students considering withdrawal are encouraged to visit a financial aid counselor and simulate the financial effect of withdrawing before officially withdrawing from the university.

Suppose a student is enrolled full time and withdraws from all classes on the 10th day of a 110-day semester. The student lived on campus and had a meal plan. Sample charges and financial aid are listed in the "original" columns below. After applying all the refund calculations, this student will owe \$365.25.

**Sample Refund Calculation (Student withdraws from all 15 credits on 10th day of classes.)**

Institutional Charges	Original	Refund	Refund	Net Charges
Tuition	\$15,810	75%	(\$11,857.50)	\$3,952.50
Room	\$2,625	75%	(\$1,968.75)	\$656.25
Meal Plan	\$1,975	(110-11)/110=90%	(\$1,777.50)	\$197.50
Bethel Student Association Fee	\$70	0%	0	\$70
Lab Fee	\$50	0%	0	\$50
<b>Total Charges</b>	<b>\$20,530</b>		<b>(\$15,603.75)</b>	<b>\$4,926.25</b>
Financial Aid and Cash	Original	Refund	Refund	Net Payments
Direct Subsidized Loan	(\$2,750)	-100%	\$2,750	\$0
Federal Pell Grant	(\$1,750)	-74%	\$1,300	(\$450)
<b>Subtotal: Federal Aid</b>	<b>(\$4,500)</b>	<b>-90%</b>	<b>\$4,050</b>	<b>(\$450)</b>
Minnesota State Grant	(\$1,900)	-86%	\$1,641	(\$259)
Minnesota SELF Loan	(\$750)	-86%	\$648	(\$102)
Bethel Grant	(\$2,500)	-75%	\$1,875	(\$625)
Private Scholarship	(\$500)	-75%	\$375	(\$125)
<b>Total Financial Aid</b>	<b>(\$10,150)</b>	<b>-85%</b>	<b>\$8,589</b>	<b>(\$1,561)</b>
Cash Paid	(\$3,000)	0%	0	(\$3,000)
<b>Total Payments on Account</b>	<b>(\$13,150)</b>		<b>\$8,589</b>	<b>(\$4,561)</b>
Summary	Original Bill	Refund	Revised Bill	
<b>Total Charges</b>	<b>\$20,530</b>	<b>(\$15,603.75)</b>	<b>\$4,926.25</b>	

<b>Total Payments on Account</b>	(\$13,150)	\$8,589	(\$4,561)
<b>Difference</b>	\$7,380	(\$7,014.75)	\$365.25

## Departmental Scholarships (Special Awards)

### Departmental Scholarships

These departmental scholarships are given to students in the spring of the year to be applied toward the coming school year. Students are selected by the faculty and the Financial Aid Committee. Applications are distributed by the Office of Financial Aid each fall. Further information may be obtained from the Office of Financial Aid.

#### Abens Family Scholarship

This scholarship is given annually to a student majoring in biblical and theological studies who wishes to be effective as a lay person in a profession of his or her choice. The recipient must be at least a junior, maintain at least a 3.0 GPA, and be recommended by a professor in his/her major. This is not a need-based scholarship. (EAA002)

#### Accenture Scholarship

This scholarship is awarded to a junior majoring in computer science, mathematics, physics, business, or economics who is interested in a career in business and technology consulting. (EAA007)

#### Accounting and Business Encouragement Scholarship

This scholarship is given to an upperclassman of good scholastic standing who exhibits a strong Christian commitment, without regard to financial need, and who is majoring in business, economics, or accounting. (EAA004)

#### Paul and Laura Ackerman Family Scholarship Fund

This scholarship is given annually to a Bethel student whose parent is in full-time Christian ministry, demonstrates financial need, and maintains a cumulative 3.0 GPA. The scholarship is renewable provided the recipient meets the criteria and is making satisfactory progress toward graduation. It is given out of gratitude for the positive influence Bethel has had on the Ackermans' extended family. (EAA003)

#### Theodore J. Adams Memorial Endowment

This award is a memorial to Theodore Adams, a business entrepreneur whose strength of faith and character were evident in all he did and in the relationships on which his family and business were built. College of Arts & Sciences students in financial need are eligible. (EAA222)

#### Alumni Math Scholarship

This scholarship is given to a College of Arts & Sciences sophomore who is a math major and shows promise. (EAA005)

#### Anderson-McJunkin Family Scholarship

This scholarship is awarded to students in need of financial assistance for their undergraduate education who have demonstrated a commitment to spiritual growth and community service. (EAA006)

#### Anna Anderson Memorial Scholarship

An annual scholarship is given from the estate of Anna Anderson of Topeka, Kansas, to a student of good scholastic standing who evidences leadership in campus activities. (EAA008)

#### B. Laverne Anderson Memorial Scholarship

This scholarship is given in memory of Laverne Anderson to children of Converge Worldwide (BGC) missionaries who are attending Bethel University. (EAA011)

#### Charlotte Anderson Nursing Scholarship

This scholarship is awarded to nursing majors who demonstrate financial need. (EAA009)

#### Dr. and Mrs. Karl W. Anderson Memorial Scholarship

This scholarship is established in memory of Dr. and Mrs. Karl W. Anderson and is awarded to pre-medical students at Bethel University. (EAA010)

#### Ralph H. Anderson Engineering Scholarship

This scholarship, given to honor Ralph H. Anderson, is awarded to new or returning students pursuing the study of engineering and/or applied physics in the College of Arts & Sciences at Bethel University. The recipient of this scholarship will honor Anderson's memory by pursuing excellence, following Christ, and living out Christian faith. Anderson, a disabled veteran of World War II and a resident of Chicago, overcame many obstacles, trusted Christ,

and provided amply for his family and many charities. He would encourage those receiving scholarships from the endowment to learn, grow, and serve in the name of Christ. (EAA236)

### **Thomas K. Anderson Memorial Scholarship**

Established in memory of Thomas Kirk Anderson (C'73) by his family, this scholarship is awarded to business majors, based upon financial need, with preference for one female and one male recipient annually. (EAA012)

### **Anthropology and Sociology Achievement Award**

This scholarship is given to a worthy Bethel University College of Arts & Sciences student in the Department of Anthropology, Sociology, and Reconciliation Studies who is either a sophomore or junior, has a strong academic achievement in the department (3.0 GPA or above), participates in departmental activities, and has the potential for Christian achievement and service after graduation. (EAA230)

### **Arlander Memorial Scholarship**

This scholarship is for students who demonstrate financial need and who have demonstrated initiative in earning a portion of their college expenses. The students must also have high academic standing and a Christian purpose. (EAA014)

### **J. O. and Clara M. Backlund Memorial Scholarship**

This scholarship was established by Linnea M. Backlund in memory of her parents, J. O. and Clara M. Backlund. This scholarship is awarded to undergraduate students selected by the scholarship committee. (EAB015)

### **Reverend William G. and Ruth J. Backlund Memorial Scholarship**

This scholarship is awarded to a deserving student making acceptable academic and career preparation progress while exhibiting a high level of Christian character and leadership. (EAB016)

### **Gordon Bear Memorial Social Work Scholarship**

This scholarship is awarded to a student majoring in social work. Preference is given for a student who demonstrates financial need. (EAB017)

### **August F. and Ella M. Becker Memorial Scholarship**

This scholarship is given in memory of August and Ella Becker to undergraduate students who are actively growing and maturing in their walk and commitment to Jesus Christ. Preference is given to students (a) from small communities in the Dakotas and Nebraska, or (b) who are active members of a Baptist church (or churches with doctrines, ordinances, and practices similar to Baptist). (EAB018)

### **Lawrence and Audrey Berglund Scholarship**

These scholarships are given annually to qualified students who demonstrate both academic achievement and financial need. (EAB019)

### **Violet Bergquist Spanish Scholarship**

This scholarship is awarded to a Spanish major who will teach Spanish or will use it in missionary work in a Spanish-speaking country. (EAB020)

### **Margo Bergstrom Memorial Scholarship**

This award is given through the Temple Baptist Church of Portland, Oregon. Usually it is given to a student who demonstrates financial need, is from the church's congregation, and is recommended by Temple Baptist Church. On occasion, it may be given to a student from elsewhere. (EAB002)

### **Fred and Retha Berndt Scholarship**

In honor of Fred and Retha Berndt, this scholarship is given to worthy College of Arts & Sciences students who are studying to become teachers. (EAB256)

### **Terence W. Berntson Scholarship**

In memory of Bethel alumnus Terence W. Berntson (C'76), this scholarship is given to worthy Bethel students in the College of Arts & Sciences who demonstrate financial need and who are studying anthropology or history. (EAB022)

### **Hazel and George Berquist Memorial Scholarship**

This scholarship is provided in memory of this loving, generous couple to provide assistance to undergraduate and seminary students from the Midwestern states of the United States (excluding Minnesota). The students must be members of a Converge Worldwide (BGC) church and demonstrate financial need. (EAB021)

### **Bethel Golf Scholarship**

This scholarship was endowed through funds raised through the Bethel Golf Classic and is awarded to students who demonstrate financial need regardless of their major. (EAG069)



### **Bethel University Scholarship Endowment (CAS)**

This scholarship is awarded to Bethel University students in the College of Arts & Sciences who demonstrate financial need. (EAB001)

### **Donald C. and Jo G. Bishop Scholarship Fund**

Several \$1,000 scholarships are awarded to business and economics majors and/or students in summer missions or interim assignments. The scholarships are only for returning students. (EAB024)

### **David M. and Sadie L. Blomberg Missionary Scholarship Fund**

In recognition of the important contribution that students from missionary families make to Bethel University, the Blomberg Missionary Scholarship Fund provides an annual award of at least \$200 to all Bethel University students who are children of missionaries and spent the majority of their high school years outside of the United States. This award is made without regard to financial need. (EAB031)

### **David M. and Sadie L. Blomberg Scholarship**

This scholarship provides an annual award of \$500 to all students enrolled from the Moraine Valley Baptist Church in Illinois, the Sawyer Highlands Baptist Church in Michigan, and the Oak Community Church in Illinois. It may also provide awards for qualifying students from the Midwest Baptist Conference of Converge Worldwide (BGC). (EABL0M)

### **Merilyn Blomgren Memorial Scholarship**

An annual scholarship established in memory of Merilyn Blomgren by her family and friends is awarded to a student who demonstrates academic achievement. (EAB025)

### **Gust and Dagny Bohlin Memorial Education Scholarship**

This scholarship is awarded in memory of Gust and Dagny Bohlin to Bethel University students who demonstrate financial need and who are preparing to become teachers. (EAB023)

### **Mable Elsie and Ernest Eugene Bonar Voice Scholarship**

This scholarship has been established by Alson Toavs in memory of his maternal grandfather and grandmother. It is awarded to a junior or senior vocal major to assist with the cost of lessons. (EAB026)

### **Dr. John D. Bower Social Work Leadership Scholarship**

This endowed scholarship is established in honor of Dr. John D. Bower, chair of the Bethel social work department from 1978-2005. It is primarily funded by longtime friends Dr. J. Richard and Karen Burton along with alumni and friends of Bethel's social work program. Recipients will be chosen based on their good standing in the social work program and their interest in developing leadership skills. Dr. Bower's varied accomplishments and recognitions include initial CSWE Accreditation of the Social Work Program, president of the National Association of Social Work (NASW-MN Chapter), and Social Worker of the Year. (EAB242)

### **Ray I. and Genevieve Brace Scholarship**

An annual scholarship is given to a student already accepted into medical school. It may also be given to a student who by all indications will be accepted into medical school. The funds are to be used toward Bethel tuition and fees. (EAB030)

### **Kenneth and Ruth Brown Memorial Music Scholarship**

This scholarship is given in memory of Kenneth and Ruth Brown to College of Arts & Sciences students taking private music lessons who demonstrate financial need. (EAB248)

### **Brushaber Leadership Awards**

Given in recognition of Ralph E. and Marie C. Brushaber for their lifelong interest in young people and education, this scholarship is given to assist worthy Bethel University students in the College of Arts & Sciences who demonstrate financial need, show high academic potential, demonstrate leadership capacity, give evidence of serious reflective Christian commitment, and who are involved in their local church. Incoming students are given priority and the scholarship is renewable if criteria continue to be met. (EAB253)

### **Ralph and Marie Brushaber Memorial Scholarship**

These awards are given to students in a Bethel music ensemble who show high promise of future leadership and service and who give evidence of vital faith in Jesus Christ. The students must also demonstrate financial need. (EAB027, EAB032)

### **Rev. C. Walter and Jeanette Bunger Scholarship for Innovation**

This award is given in honor of Rev. C. Walter and Jeanette Bunger. Walter, a BGC minister, taught his son to question life and be objective—creating in him a spirit of inquisitiveness and innovation. The recipients of this award will be those who are inquisitive and demonstrate a capacity for innovation to promote research-mindedness and objective thinking. It is not limited to any particular discipline; majors may be in the arts, sciences, theology, or other academic majors. (641221)

### **Barbara Burton Memorial Scholarship**

This annual scholarship is given in loving memory of Barbara Burton's life by her friends and family to the top senior chemistry major, regardless of financial need. (EAB028)

### **Edith and James Calhoun Memorial Scholarship**

These scholarships are available to reduce loan debt for Bethel University students who are preparing for missionary service. (EAC033)

### **Bert H. and Bernice Carlson Memorial Scholarship**

Scholarships in the amount of \$1,500 are given annually to qualified history or political science majors who demonstrate both academic achievement and financial need. The scholarship is given out of Bert Carlson's love for Bethel and his desire that students grow intellectually and spiritually. (EAC034)

### **The Rev. and Mrs. C.A. Carlson Memorial Scholarships**

This scholarship is awarded to undergraduate students chosen by the scholarship committee. (EAC035)

### **C. Emanuel Carlson Memorial Scholarship**

An annual scholarship has been established as a memorial to the life and work of Dr. Emanuel Carlson—dean of Bethel College from 1945 to 1954, professor of history and political science at Bethel Academy and College from 1928 to 1954, and executive secretary of the Baptist Joint Committee on Public Affairs from 1954 to 1971—and as an encouragement to worthy students to pursue academic excellence in service to God and mankind. (EAC036)

### **Central Baptist Scholarship**

This scholarship was established by Central Baptist Church of Sioux Falls, South Dakota, to provide incentive and assistance for qualified College of Arts & Sciences students from the church. (EAC005)

### **Chemistry Student Award Endowment**

This scholarship is awarded to students who are majoring in chemistry. (EAC006)

### **Dorothy Christison Memorial Nursing Scholarship**

This scholarship was established by the estate of Dorothy Christison for the purpose of funding a scholarship for qualified persons enrolled in the nursing program at Bethel University. (EAC041)

### **Karen and Don Ciske Nursing Scholarship**

The fund was established in memory of Cleo Atkinson, mother of retired Bethel nursing professor Karen Ciske. This scholarship is awarded to worthy students in the College of Arts & Sciences who demonstrate financial need and who are enrolled in the Department of Nursing. (EAC203)

### **Class of '58 Scholarship**

This award is presented on behalf of the Class of 1958 as an outward display of their loyalty, interest in educating young people, and continued devotion to the cause of Christ. An award is given to students in the College of Arts & Sciences who demonstrate financial need. (EAC215)

### **Class of '63 Scholarship**

This scholarship is given to a deserving Bethel University College of Arts & Sciences student. (EAC044)

### **Class of '64 Scholarship**

This award is presented on behalf of the members of the Bethel University Class of '64 to an upperclassman (sophomore to senior) who has demonstrated scholarship excellence, leadership excellence, Christian service involvement, and a financial need. The student selection is made by the Bethel Scholarship Committee. (EAC042)

### **Class of 1970 Scholarship**

This scholarship is sponsored by the Class of 1970 and is awarded to Bethel University College of Arts & Sciences students who demonstrate need. (EAC233)

### **Class of '76 Award**

The Class of '76 presents this annual award to a chemistry student who models Christian commitment, integrity, academic excellence, perseverance, a positive spirit, and mutual support. (EAC040)

### **Coca-Cola and Bethel Campus Store Scholarship**

This scholarship was established by The Coca-Cola Company and the Bethel Campus Store. It is awarded to a student with financial need who comes from a single-parent family. (EAC046)

### **Communication Scholarship**

This annual scholarship was established to encourage communication studies majors. It is awarded to two seniors majoring in communication studies, regardless of their need. (EAC179)

### **Community Life Scholarship**

An annual scholarship is awarded to students who have contributed significantly to the campus through planning and participating in activities to strengthen campus spiritual life. (EAC167)

### **Donald M. Constable Scholarship Fund**

This scholarship is in memory of Donald M. Constable and is given to worthy junior or senior Bethel University students in the College of Arts & Sciences who major in business, with a preference for those with an emphasis first in finance, then in accounting. Students must have a GPA of 3.2 or higher on a scale of 4.0 to qualify. Students must demonstrate financial need. (EAC225)

### **Royden S. and Fern M. Dane Memorial Scholarship**

This scholarship was given in memory of Royden S. and Fern M. Dane and financed by their estate. The Dane Fund is to supply one or more scholarships for eligible students. (EAD047)

### **Deubener Juenemann Students of Color Scholarship**

This scholarship is given by the Deubener Juenemann Foundation to undergraduate students of color who demonstrate financial need. (EAJ103)

### **Walter H. and Lydia Deubener Memorial Scholarships**

This scholarship is awarded to undergraduate students selected by the scholarship committee. (EAD048)

### **Lillian Devine Memorial Biblical and Theological Studies Scholarship**

This scholarship is to be given annually to deserving junior and senior students of good scholarship who demonstrate interest and proficiency in biblical and theological studies and who are preparing for full-time Christian work. (EAD049)

### **Dwyer Nursing Endowment**

In recognition of William and Ruth Dwyer's interest in encouraging nursing as a professional career and through gifts from the Banner Health System, this fund awards worthy students who are pursuing a career in nursing. First preference is given to incoming students, then to continuing students. (EAD050)

### **Donald A. and Nadine F. Dye Scholarship**

Awarded in honor of Donald and Nadine Dye to students with financial need who regularly attend a Converge Worldwide (BGC) church. (EAD219)

### **Esther V. Eastlund Memorial Scholarship**

Each year a scholarship is given from the estate of Esther V. Eastlund to a worthy student studying for the ministry or for missionary work. (EAE051)

### **Sagrid E. Edman Undergraduate Nursing Scholarship**

Established in honor of Dr. Edman, founding chair of the Bethel University nursing program in 1981 and chair of the Department of Nursing until her retirement in 1997, the fund assists worthy nursing students in the undergraduate nursing program. Selected by the nursing faculty, recipients are seniors who best exemplify excellence in clinical nursing practice, Christian care, and compassion; demonstrate leadership potential; and rank high academically. (EAE052)

### **Edwall Music Memorial Scholarship**

A scholarship is awarded to a music major who is majoring in either voice or an instrument and who demonstrates financial need. (EAE053)

### **Elementary Education Encouragement Scholarship**

This scholarship is given to an upperclassman who is majoring in elementary education without regard to financial need. The recipient must be in good scholastic standing and exhibit a strong Christian commitment. (EAE054)

### **Reuben and Ethel Englund Memorial Scholarship**

A scholarship is given annually in memory of Mr. and Mrs. Englund by their children. The recipient is to be a musician, with preference given to a string performer. (EAE056)

### **Amy M. Erickson Memorial Scholarships**

These scholarships are given in memory of Amy M. Erickson to undergraduate students selected by the scholarship committee. (EAE057)

### **Dorothy Erickson Memorial Scholarship**

This scholarship is awarded to an undergraduate student selected by the scholarship committee who demonstrates financial need. (EAE058)

### **Fair Family Scholarship**

The Fair Family Scholarship is awarded in recognition of Christian stewardship to a full-time college sophomore whose cumulative GPA is 3.0 or higher and who demonstrates active involvement in church activities. Preference is given to pre-seminarians pursuing a vocation in the pastorate, missions, or youth ministry. The scholarship is renewable for up to two years provided the student maintains a cumulative GPA of 3.0 or higher. (EAF060)

### **Colleen M. Feldman Psychology Scholarship**

This scholarship is awarded to upperclass students in the College of Arts & Sciences who are majoring in psychology and maintaining a minimum GPA of 3.0. (EAF151)

### **David Maynard Frost Scholarship**

The fund makes awards to students from single-family homes who demonstrate financial need, with preference given to dependents of widows and widowers. Awards of \$1,000 may be renewed for students maintaining a 3.0 GPA or higher. (EAF066)

### **Garven Family Fund Scholarship**

This scholarship fund, established by David and Gayle Garven, provides three student scholarships. The Family Fund provides scholarships of \$1,000 each to an incoming freshman, a provisional student, and an incoming minority student. The Jeffrey D. Garven Memorial Fund provides an award of \$1,000 to a male sophomore or junior who has shown signs of spiritual maturity at Bethel and who places a high priority on Christian growth. First priority would go to a student from Minnetonka High School or a lacrosse player. (EAG063)

### **Geis Family College of Arts & Sciences Scholarship**

Two scholarships are awarded to full-time Bethel University students who show high promise of future leadership and service and exhibit evidence of a strong Christian faith. Each recipient must be at least a sophomore in the year the scholarship is received and must have at least a 3.0 cumulative GPA unless other outstanding attributes are considered worthy of making an exception to this criterion. The scholarship is renewable provided the recipient meets the scholarship criteria and is making satisfactory progress toward graduation. (EAG003)

### **Bonnie E. Goodwin Memorial Scholarship**

This scholarship is given to honor the memory of Bonnie Goodwin and to assist undergraduate students in great financial need. (EAG070)

### **Lester R. and Esther M. Granlund Encouragement Scholarship**

This scholarship is awarded to a junior or senior of good scholastic standing with strong Christian commitment, regardless of financial need. (EAG071)

### **Gloria Grayum Nursing Scholarship**

This scholarship is awarded to a nursing student who is preparing for mental health service, is in need of financial assistance, and has a GPA of 2.5 or above. (EAG072)

### **James B. and Christina Z. Green Scholarship Fund**

This scholarship is given to full-or part-time Bethel University students in the College of Arts & Sciences who demonstrate need, maintain a 2.5 GPA, and are an employee, retiree, spouse, parent, sibling, direct descendant, or stepchild of an employee or retiree of Kemps LLC. One award per year will be given. (EAG261)

### **Gruez Physics Scholarship**

Recipients of this scholarship are selected by the faculty of the Department of Physics and must be enrolled in a calculus-based physics or pre-engineering program at Bethel. Candidates must also be involved in at least one extracurricular activity that is NOT directly connected to physics, mathematics, or computers (e.g., performing arts, athletics, service projects, etc.). Up to three scholarships are awarded each year. (EAG073)

### **Charles and Marilyn Gustafson Nursing Scholarship**

This annual scholarship is awarded to a deserving nursing student. (EAG075)

### **J. Alfred Gustafson Memorial Scholarship**

An annual award is given from the estate of Mabel T. Danielson, J. Alfred Gustafson's daughter, as an encouragement to a worthy student. (EAG074)

### **Margaret-Rose Guthrie Memorial Scholarship**

This is an annual scholarship established in memory of Margaret-Rose Guthrie by family and friends. The recipient will be at least a junior who demonstrates scholastic ability, expresses an interest in service to others (not necessarily in a Christian field), and is a member of a Baptist affiliation. (EAG076)

### **Sara Haile-Selassie Scholarship**

In recognition of a woman of color who overcame great difficulties in coming to America and then pursuing with excellence an education in the sciences at Bethel, this scholarship will be awarded to students of color and international students at Bethel University who are pursuing a degree in the sciences. (EAH077)

### **Truman and Verna Halvorsen Scholarship**

This scholarship is awarded to students who are preparing for careers in Christian ministry or education, have at least a 3.0 GPA, and demonstrate financial need. (EAH078)

### **Ralph E. and Mary J. Hammond Scholarship**

As an example of their commitment and generosity to serve both the College of Arts & Sciences and Bethel Seminary, professor Mary Hammond and her late husband professor Ralph Hammond give this scholarship to assist students in financial need at both schools. Previously two separate scholarships, this is awarded to College of Arts & Sciences students planning to teach in the public school system in even years and Bethel Seminary students planning to work in ministry in odd years. (EAH001)

### **Irene Hanwell Memorial Nursing Scholarships**

Two annual scholarships are given from the estate of Irene Hanwell to nursing students preparing for Christian mission service who demonstrate financial need. (EAH080)

### **Irene Hanwell Memorial Scholarship**

This annual scholarship is given in memory of Irene Hanwell by Mrs. Millie Hanwell to a student whose life exemplifies a sincere Christian commitment and who demonstrates financial need. (EAH081)

### **Leonard and Doris Hasselblad Memorial Scholarship**

This award is given by the family of Leonard O. Hasselblad of San Jose, California, to perpetuate his long-standing relationship with Bethel University and to further his desire to help young people secure an evangelical Christian education. (EAH082)

### **William Randolph Hearst Endowed Scholarship Fund**

This scholarship has been funded by the Hearst Foundation with the intention of providing scholarship funds for students with financial need who intend to reside in the United States after completing their studies. (EAH085, EAH086)

### **Graydon Held Memorial Scholarship**

An annual scholarship is granted to a qualified student demonstrating an interest and proficiency in business education and meeting established criteria of need and achievement. This award is given in honor of Graydon Held, who served as comptroller at Bethel University from 1968 until his death in 1978. (EAH083)

### **Sheloa Hanson Hillman Memorial Scholarship**

Two scholarships are given in memory of Sheloa Hanson Hillman '74 by her family and friends. These scholarships are awarded to two female students who exhibit godly character and a competitive spirit. (EAH084)

### **Edith Holm and Lydia Holm Memorial Scholarship**

This scholarship from the estates of Edith Holm and Lydia Holm is for students who demonstrate financial need and who have demonstrated initiative in earning a portion of their college expenses. The students must also have high academic standing and a Christian purpose. (EAH087)

### **Edna V. Holm Nursing Scholarship**

Two scholarships will be awarded each year to nursing students contemplating missionary service and showing financial need. These scholarships are given in memory of Edna V. Holm, who graduated in 1929 from Mounds Midway School of Nursing and served as a missionary with her husband in Assam, India, and Ethiopia. (EAH088)

### **Lydia Holm Scholarship Fund**

An endowment established from the estate of Lydia Holm in appreciation of Bethel's mission of excellence and Christian ministry, the fund is available to worthy students attending the College of Arts & Sciences at Bethel University. (EAH089)

### **Ralph T. and Karla Calais Holman Chemistry Endowment**

The Ralph T. and Karla Calais Holman Chemistry Endowment is given to worthy Bethel University students in the College of Arts & Sciences who demonstrate need. First preference will be given to incoming students with a minimum ACT score of 27 (or comparable SAT score) and an interest in majoring in chemistry. The scholarship is renewable if students maintain a 3.3 GPA and continue to major in chemistry. (EAH252)

### **Lynn Cherie Hummel Memorial Nursing Scholarship**

This scholarship was established in memory of the life of Lynn Cherie Hummel, who died while she was a nursing student at Bethel. It is awarded annually to a promising and dedicated junior nursing student based on faculty recommendation. (EAH090)

### **Fred and Ellen Jacobson Scholarship Fund**

Established by Betty Jacobson in honor of her parents, awards are made to worthy students in the College of Arts & Sciences who are enrolled in the department of nursing or are pursuing a pre-medicine degree. The students must also demonstrate financial need. (EAJ091)

### **Jacol Computer Science Encouragement Award**

This scholarship is given to deserving computer science students selected by the department faculty. (EAJ092)

### **John and Elaine Jahnke Scholarship for Children of Missionaries**

This scholarship is awarded to students who demonstrate financial need and who have acquired their basic education in schools of a foreign country and/or who have been home-schooled. Recipients' parents must be duly appointed career missionaries. (Short-term service does not qualify.) This does not include staff members of local churches and parachurch organizations. (EAJ094)

### **Thelma Jahnke Memorial Scholarship**

An annual scholarship is given in memory of Thelma Jahnke to a junior or senior nursing student who demonstrates financial need. (EAJ093)

### **Janke Memorial Scholarship**

An annual scholarship of \$500 is provided by friends of the Janke family for an upper-level student majoring in history or political science. The recipient is nominated by the faculty from the two departments. (EAJ095)

### **Albert H. and Edythe M. Jensen Memorial Scholarship**

This scholarship was established to perpetuate the influence of Mr. and Mrs. Albert H. Jensen and as a memorial also to Joanne Jensen Trettien, a former Bethel student. It is to provide financial aid and encouragement to Bethel University students who show proficiency in music and meet the established requirements of need and academic achievement. (EAJ096)

### **Doris Ruth Johnson Scholarship Fund**

This scholarship is awarded to worthy students in the College of Arts & Sciences with proven leadership skills who demonstrate financial need. Students must maintain a cumulative GPA of 3.0 or higher and exhibit Christian character and a well-rounded balance of scholarship, work, service, and worship. (EAJ206)

### **Elizabeth Tobey Johnson Scholarship for Nursing Education**

An annual scholarship is given in memory of Elizabeth Tobey Johnson by her children to a junior or senior nursing student who shows a strong aptitude for patient care. (EAJ097)

### **James E. and Louella K. Johnson History Scholarship**

This scholarship was established to perpetuate the influence of James E. Johnson and to provide financial aid and encouragement to a Bethel University history student who has indicated financial need and excellence in scholarship. (EAJ098)

### **Lawrence Robert Johnson Memorial Scholarship**

This scholarship is established as a memorial to Lawrence Johnson, a husband, father, and successful businessman, by his family that dearly loved him and miss him. Students in the College of Arts & Sciences majoring in history are eligible, with preference to those planning to teach in secondary education or attend seminary. (EAJ224)

### **Linda Ostrom Johnson Memorial Scholarship**

This scholarship is given to a Bethel University student who has been accepted into the elementary education major. Preference should be given to Minnesota residents from the east-central areas around Cambridge or Mora. (EAJ101)

### **Russell W. and Margaret Johnson Scholarship**

An annual award given by alumnus William Slivka, Class of 1953, in recognition of Russell W. Johnson, biology professor at Bethel from 1951-1976, who excelled as a teacher and influenced the lives and careers of many students. It is to be awarded to the most promising junior who is a pre-medical student. (EAJ100)

### **Ardys Jordan Memorial Music Scholarship**

This scholarship is awarded to a junior College of Arts & Sciences student who is studying music at Bethel University. Preference is given to a student from North Dakota. Award can be given again for the senior year if the student continues his or her program and makes acceptable academic progress. (EAJ201)



### **Janice Turnblom Jorgensen Memorial Scholarship**

This scholarship, given by the husband of Janice Turnblom, was originally established at Mounds Midway School of Nursing of which Mrs. Jorgensen was a graduate. The scholarship was transferred to Bethel University in 1993. Grants are given to Bethel nursing program students planning employment in the nursing home field upon graduation. (EAJ102)

### **Fred W. Julius Scholarship**

This scholarship is given to a Bethel University College of Arts & Sciences student who is studying either science or biblical and theological studies. (EAJ104)

### **Gladys Kleinsasser Memorial Scholarship for Medical Mission**

This scholarship is awarded to any undergraduate upperclass student with a 2.5 GPA or higher, who has an intention and/or career goal of medical missions. (EAK108)

### **Harland and Pauline Knight Family Scholarship**

This scholarship is awarded to sophomores, juniors, or seniors majoring in the field of education with a cumulative GPA of at least 3.75. (EAK106)

### **Jeff Koenigsberg Memorial Scholarship**

This scholarship is established in loving memory of Jeff, who died of cancer in 1996 at the age of 13. It is intended to be awarded to a promising art student with financial need, who demonstrates exceptional and genuine talent, in recognition of Jeff's unique personality, creative nature, and promising artistic ability. This scholarship is intended for returning students majoring in visual arts, upon the recommendation and confirmation of the art department faculty, as an encouragement to students to develop their God-given gifts within a Christian environment. (EAK109)

### **Gunnar Kronholm Business Scholarship**

In honor of former banker, Bethel administrator, and adjunct faculty member Gunnar Kronholm, whose life exemplified faithful Christian service and ethical business practice, this scholarship is awarded to students majoring in business in the College of Arts & Sciences. (EAK110)

### **C. Richard Lane Multicultural Student Memorial Scholarship**

This gift has been given to encourage multicultural students in all areas of their college life. The award is given to multicultural students with financial need and demonstrated qualities of leadership and character. (EAL117)

### **Rholan E. Larson Scholarship**

In memory of Rholan E. Larson, this scholarship is given to worthy Bethel University College of Arts & Sciences students who demonstrate financial need. (EAL246)

### **John A. and Ethel M. Lee Journalism Scholarship**

An annual scholarship is given to a student who shows interest and proficiency in journalism and has financial need. Proceeds from the Martin Erickson Memorial Scholarship partially fund this scholarship. (EAL107)

### **Emily L. Lewis Scholarship**

The fund awards worthy students who demonstrate financial need, with preference given to those pursuing a teaching career. (EAL112)

### **Harold and Gertrude Lidbom Memorial Scholarship**

Several annual scholarships are given in memory of Harold and Gertrude Lidbom to students who demonstrate financial need. (EAL114)

### **Harry Nels and Jeannette Lindberg Scholarship**

This scholarship is given by the family of Harry Nels and Jeanette Lindberg to honor their commitment to Christ. It is given to worthy College of Arts & Sciences students who demonstrate financial need. (EAL240)

### **Dwight Lindbloom Memorial Scholarship**

This scholarship is awarded to education majors in good standing who anticipate a career in public education teaching. (EAL115)

### **David and Richard Lissner Memorial Scholarship**

An annual scholarship is given in memory of David Lissner, former president of the Bethel Foundation, and in memory of his son, Richard Lissner, to a student who demonstrates financial need, with preference given to a student from a rural area. (EAL116)

### **James R. Lonn Memorial Scholarship**

This scholarship is awarded to a student who has a 2.0 GPA or above and who demonstrates financial need. (EAL118)



### **Margaret Magnuson Scholarship**

Established by Dr. Warren Magnuson in memory of his wife in appreciation for kindness and care shown to her by the staff of Friendship Village of Bloomington, Minn., the scholarship is awarded to students pursuing nursing or related caring professions who have been/are/desire to be employed by Friendship Village of Bloomington. (EAM120)

### **Pearl B. Magnuson Memorial Scholarship**

This scholarship is awarded to undergraduate students who demonstrate financial need, in remembrance of the life of Pearl Magnuson. (EAM121)

### **Wilbur and Ruth Marker Music Scholarship**

The scholarship is available to a worthy music student in the university's College of Arts & Sciences who demonstrates financial need. (EAM122)

### **Katie Marriott Scholarship**

Several awards are made annually to undergraduate music students (preferably members of a Bethel instrumental ensemble) and to nursing students with financial need and Christian character. (EAM123, EAM124)

### **James and Norma Mason Speech Scholarship**

This award is given annually to a deserving upper-division student in the area of speech. (EAM125)

### **Harold and Winifred McClure Scholarship Fund**

This scholarship is given to worthy College of Arts & Sciences students who demonstrate financial need. (EAM245)

### **Dr. Ruth Eckert McComb Memorial Scholarship**

This scholarship is awarded to an undergraduate upperclassman who demonstrates financial need and who has excellent academic performance along with a deep commitment to Christ and His service. (EAM126)

### **Garvin and Lynne N. McGettrick Music Scholarship**

This endowment is given by Garvin and Lynne McGettrick in memory of Lynne's parents to provide private music lessons for students of evident Christian commitment, musical ability, and financial need. (EAM138)

### **Elizabeth C. Miller Scholarship Fund**

This scholarship is given to worthy Bethel University students in the College of Arts & Sciences who are admitted in the Fresh Start Program and are committed Christ-followers. Its purpose is to encourage and inspire a worthy student's journey towards success. (EAM262)

### **Minnesota Multicultural Student Endowment Fund**

This award is given to promote educational opportunities for Minnesota multicultural students who demonstrate financial need. The funds in this endowment are provided by the St. Paul Companies. (EAM128, EAM129)

### **Minnesota Private College Fund Scholarships**

The Minnesota Private College Fund provides approximately 20 annual scholarships for Bethel University students. These scholarships are funded by the generous donations of private businesses and foundations, such as Access & Equity Pooled Scholarship Fund, Buuck Family Foundation Scholarship, Cargill Diversity Scholarship, Cargill Access & Equity Scholarship, Cargill Galileo Scholarship, Carlson Foundation Scholarship, Galileo Pooled Scholarship, B.C. Gamble and P.W. Foundation Scholarship, Graco Foundation Scholarship, Medtronic Foundation Scholarship, Meslow First-Generation Scholarship, Minnesota Scholars Fund, Securian Foundation Scholarship, Tennant Company Diversity Scholarship, UPS Foundation Scholarship, Wells Fargo Foundation Scholarship, and Xcel Energy Foundation Scholarship. Recipients are selected by the Office of Financial Aid from eligible financial aid applicants.

### **Minority Student Endowment Fund**

This award is given out of concern for promoting educational opportunities for worthy minority students who demonstrate financial need. The funds for this endowment are made available in memory of Pamela Baltz, Sabina Gustafson, and Berta Osbeck. (EAM130)

### **Missionaries' and Pastors' Dependents Scholarship**

These scholarships are awarded to dependents of missionaries and pastors who demonstrate financial need and academic potential. (EAM131, EAM132)

### **JoAnn Moberg Memorial/Friends of Bethel Nursing Scholarship**

This scholarship is given in honor of the memory of JoAnn Moberg's life of dedication to God, family, and ministry through nursing to junior or senior nursing students who demonstrate financial need as well as academic excellence and service to Christ. It is funded by family, friends, and the Friends of Bethel. (Formerly known as the Bethel Auxiliary, FOB was a group of volunteers who met regularly to pray for Bethel and provide student

scholarships and faculty grants.) JoAnn's life was marked by Christian love, a humble spirit, and academic excellence. JoAnn was an FOB member since its founding in 1991. (EAM133)

### **Oliver Mogck Vocal Scholarship**

This scholarship is given in honor of Oliver Mogck and his career training and guiding students in voice instruction as the chair of the Bethel Department of Music. An award will be given to assist worthy undergraduate vocal students in the College of Arts & Sciences. (EAM210)

### **John and Dorothy Morley College Scholarship Fund**

This scholarship is intended to assist College of Arts & Sciences students who exhibit financial need. (EAM217)

### **Mary Jo Monson/Mounds-Midway School of Nursing Scholarship**

This scholarship is for worthy and needy students enrolled in the undergraduate nursing program of Bethel University who demonstrate a servant's spirit, are in good academic standing with a GPA of 3.0 or above, and have financial need. (EAM254)

### **Mounds Midway Nursing Scholarships**

Five scholarships are awarded annually to incoming freshmen who intend to major in nursing and who demonstrate financial need. These scholarships are renewable for the sophomore, junior, and senior years, provided the recipient remains a nursing student in good standing and continues to demonstrate need. This scholarship is intended to continue the fine tradition of educating Christian nurses who began at the Mounds Midway School of Nursing under the sponsorship of the Baptist Hospital Fund. (EAM141, EAM143)

### **Mounds Midway School of Nursing Memorial Scholarship**

Established by alumni of Mounds Midway School of Nursing in honor and in memory of its students and faculty, the fund is used to assist worthy Bethel University undergraduate nursing students who demonstrate financial need. (EAM145)

### **James R. Mullins Memorial Scholarship**

This scholarship was established in memory of James R. Mullins '69 to assist any students who demonstrate financial need. (EAM134)

### **Raymond and Esther Jorgenson Mullins Memorial Scholarship Fund**

In memory of Raymond and Esther Jorgenson Mullins, this scholarship will be awarded to worthy Bethel University students in the College of Arts & Sciences who demonstrate financial need. (EAM135)

### **Vera Narregang Piano Scholarship**

This scholarship was established in appreciation of Vera Narregang and is awarded annually to an outstanding piano emphasis music major upon the recommendation of the faculty of the Department of Music. (EAN136)

### **Nels A. and Irene M. Nelson Memorial Scholarship Fund**

This scholarship is given in memory of Nels and Irene Nelson to worthy Bethel University students in the College of Arts & Sciences who demonstrate need. Preference given to students who participate in extra-curricular athletics. (EAN264)

### **Stephen F. Nelson Memorial Scholarship**

Established in memory of Bethel alumnus Stephen Nelson who taught high school physics and had a business career at Honeywell, this fund is to encourage future generations to honor and glorify God as they pursue their studies at Bethel and their careers. (EAN144)

### **Nontraditional Age Scholarship**

An annual award is made to enable a student of nontraditional age who would otherwise lack sufficient funds to attend Bethel University. (EAN140)

### **Edwin G. and Lillian E. Nordell Memorial Scholarship Fund**

Ed and Lillian Nordell were committed to the Lord and to Christian education. Because of this, their children have honored them with this scholarship to assist worthy Bethel University College of Arts & Sciences students who demonstrate financial need. (EAN231)

### **John Nordquist Memorial Music Scholarship**

This music scholarship is awarded to a serious performer whose aim is to glorify God through his or her art. (EAN142)

### **Gertrude Nyborg Memorial Scholarship**

This scholarship has been given in memory of Miss Gertrude Nyborg by Mrs. Carl A. Schultz of Meriden, Connecticut. The recipient must have a cumulative GPA of 3.6 or better. (EAN146)

### **Marvin T. Nystrom Scholarship Endowment**

This annual scholarship is awarded to a deserving student who demonstrates financial need without designation of any particular discipline. The recipient must have a minimum cumulative GPA of 3.0 and be a U.S. citizen. The award is made to a student who will be a junior during the first year of the award, and will be renewed during his or her senior year if the student continues to meet the above requirements. (EAN147)

### **Marilyn Olsen/Class of 1965 Scholarship**

In memory of Marilyn Olsen '65, this scholarship is given to female students of Bethel University's College of Arts & Sciences. (EA0204)

### **Dr. Olaf S. Olsen Scholarship Fund**

This scholarship is given to worthy Bethel University College of Arts & Sciences students who are majoring in history and demonstrate need. (EA0260)

### **Lloyd M. and Elsie B. Olson Memorial Scholarship**

This scholarship should be awarded to worthy Bethel University students in the College of Arts & Sciences from Forest City, Iowa. First consideration will be given to first-year students who demonstrate financial need. The award may be renewed after the first year. (EA0148)

### **Pamela G. Olson Mathematics/Physics Scholarship**

The fund was established to assist worthy Bethel University students who demonstrate financial need and who are majoring in mathematics or physics in the College of Arts & Sciences. The award is available to undergraduates and is renewable if an overall GPA of 3.0 or higher is maintained. (EA0200)

### **Karl A. Olsson Memorial Nursing Scholarship**

This scholarship is awarded to Bethel University students enrolled in the nursing program. (EA0149)

### **Oscar E. and Mary Ostling Memorial Scholarship**

Awards are granted to worthy Bethel undergraduate students in memory of Oscar and Mary Ostling, Swedish immigrants and active members of Salem Baptist Church of Chicago. The Ostlings were involved in establishing the world mission board of the Baptist General Conference and with women's ministries of the conference. (EA0151)

### **Ruth M. Palmquist Scholarship**

A scholarship is given from the estate of Mrs. Jennie Thornburg Jennings for a female student needing financial assistance. (EAP152)

### **David A. Parod Memorial Scholarship**

This scholarship is set up to assist worthy Bethel University students in the College of Arts & Sciences who demonstrate financial need, maintain a GPA of at least 2.0, and exhibit godly character and a competitive spirit outside the classroom. (EAP153)

### **Muriel Paulson Memorial Scholarship**

This scholarship is awarded to any Bethel University student working toward a degree in Christian education. The recipient must maintain a cumulative GPA of 3.0 or higher. (EAP154)

### **Leroy and Twyla Pederson Scholarship**

This scholarship is given to a worthy junior or senior in the College of Arts & Sciences who is majoring in mathematics/computer science and has a GPA of 3.0 or better. First preference is to a student who is a dependent of pastors or missionaries. (EAP249)

### **Pepsi-Cola Company and Bethel Campus Store Scholarship**

Established with funding from the Pepsi-Cola Company, this scholarship is awarded to a student with financial need who comes from a single-parent home. (EAP155)

### **Thomas A. Perkins Memorial Music Scholarship**

This scholarship is given to assist worthy music majors who demonstrate financial need. (EAP156)

### **Bertha Petersen Memorial Scholarship**

This scholarship has been established by an endowment from Bertha Petersen's estate to assist worthy students. An annual award is made to a student who has a 3.6 cumulative GPA. (EAP157)

### **Peterson/Krohnolm Scholarship Fund**

This scholarship is available to worthy Bethel University College of Arts & Sciences students who are majoring in nursing or modern world languages and demonstrate financial need. (EAP239)

### **Bob Peterson Business Scholarship**

This scholarship is awarded to a freshman who demonstrates financial need and who intends to major in business, participates in extracurricular activities, demonstrates spiritual leadership, ranks in the upper third of his or her high school class, and has a cumulative GPA of 2.5 or higher. Renewable for up to three years if recipient is a business major, involved in extracurricular activities, has a minimum cumulative GPA of 2.5, and demonstrates leadership in campus ministry activities. It may be awarded to a sophomore or junior business major who demonstrates financial need and meets the above criteria, upon recommendation of faculty or staff (if freshman not available). (EAP158)

### **Doraine Peterson Business Scholarship**

This scholarship is awarded to a freshman who demonstrates financial need, has declared an interest to major in business, and who maintains extracurricular participation in music. The recipient should demonstrate spiritual leadership, be involved in campus activities, and have a 3.2 GPA while in high school. The scholarship may be awarded to an upperclassman if a freshman candidate is not available. This scholarship is renewable for up to three years if the student continues to meet the above listed qualifications and maintains a 3.0 overall GPA. (EAP159)

### **R. W. Peterson Scholarship in Physics**

This scholarship is awarded to a Bethel University student in the College of Arts & Sciences who is an exceptional physics or engineering major with financial need while in the process of completing both semesters of General Physics I and II. The student will be chosen by full-time physics faculty members as based on Physics I and Physics II academic records in conjunction with recommendations of the instructor(s) of these classes. In addition to written exam performance, the student's passion for physics and engineering, lab project excellence, potential for undergraduate research at Bethel, and likelihood of future graduate work may impact the instructor's recommendations. (EAP235)

### **Sena Petry Memorial Scholarship**

This scholarship is awarded to an undergraduate student selected by the scholarship committee. (EAP160)

### **Esther Phillips Nursing Scholarship**

This scholarship is in honor of the life and nursing service of Mrs. Esther Zak Phillips. It shall be used to assist worthy nursing students who demonstrate financial need. (EAP229)

### **Virginia E. and Susan J. Port Memorial Scholarship**

This scholarship is given annually by Dr. Wilbert Port in memory of his wife, Virginia, and his daughter, Susan. Susan graduated from Bethel in 1975 and was a member of the Bethel Choir. This award is given to a member of the Bethel Choir who is in need of financial assistance. (EAP161)

### **Danielle Joy Pound Memorial Scholarship**

This scholarship honors the life of Danielle Joy Pound whose life was cut short on May 17, 2008, in a car accident just days from completing her junior year at Bethel. Danielle enjoyed life and lived it to the fullest. Her caring, outgoing personality and love for Jesus will be remembered by all who knew her. The award goes to a College of Arts & Sciences student with financial need. (EAP223)

### **President's Scholarship**

Formerly known as the Pooled Endowment Scholarship, the President's Scholarship is awarded to top scholars in the College of Arts & Sciences at Bethel University. This is a non-need-based scholarship. (EAP162)

### **Professor's Restaurant Scholarship**

This award is given each year to a Bethel University athlete who has demonstrated financial need and exemplary Christian character, who has made a constructive contribution to campus life, and who is making academic progress. (EAP163)

### **Kari Rasmussen Memorial Scholarship**

This scholarship is given in memory of Kari Rasmussen, an alum who loved her time at Bethel and contributed much to the music department. It is given to students who show financial need and are juniors or seniors taking private music lessons at Bethel, with preference given to wind symphony members. (EAR232)

### **Reader's Digest Foundation Scholarship**

Four annual scholarships are awarded from a fund provided by Reader's Digest to students with superior academic standing who demonstrate financial need. (EAR165)

### **Dr. James A. Reynhout Scholarship in Biology**

This scholarship is named after James K. Reynhout, who served for 28 years as professor of biological sciences. In honor of his parents, who were lifelong missionaries, the award is given to College of Arts & Sciences junior and senior biology and pre-med students who plan to be involved in missions nationally or internationally. (EAR209)

### **Edgar and Doris Ritchie Scholarship in Humanities**

This scholarship is established in honor of the parents of Daniel Ritchie, professor of English, who founded Bethel's humanities program in 2002. It is awarded to a student who has finished the humanities program and has demonstrated a commitment to liberal arts education in the service of Christ. (EAR259)

### **Harold and Velma Rixe Memorial Scholarship**

This scholarship is given in memory of Mr. and Mrs. Rixe to undergraduate students selected by the scholarship committee. (EAR164)

### **Robertson Family Scholarship Fund**

This scholarship was established in recognition of Ervin H. Robertson to assist Bethel University College of Arts & Sciences students pursuing careers in health sciences, education, or ministry. Students must demonstrate financial need. (EAR247)

### **Rocky Mountain Scholarship**

An annual award is given to a student who represents the Rocky Mountain Baptist Conference area, possesses leadership potential in terms of Christian character, and demonstrates financial need. In the event no student from the Rocky Mountain area qualifies, it may be given to a student from another area. The award may be granted to one student or may be divided among two or more. (EAR168)

### **Betty Royer Memorial Piano Scholarship**

This scholarship was established in appreciation of Betty Royer. It is awarded annually to an outstanding piano-emphasis music major upon the recommendation of the faculty of the Department of Music. (EAR172)

### **Betty Royer Memorial Voice Scholarship**

This scholarship was established in appreciation of Betty Royer. It is awarded annually to an outstanding voice-emphasis music major upon the recommendation of the faculty of the Department of Music. (EAR169)

### **Emily Grace Rudolph Scholarship Fund**

This scholarship honors the life of Emily Rudolph, a 2005 College of Arts & Sciences nursing graduate who passed away on December 31, 2007. Her life was remarkable and was characterized by her service in the inner-city, orphanages, homeless shelters, and public health clinics with which she volunteered. This award goes to College of Arts & Sciences nursing students who have financial need and are involved in a cross-cultural experience. (EAR218)

### **Bernard A. and Winnie L. Rust Christian Ministry Scholarship**

This scholarship is awarded annually to an undergraduate student preparing for Christian ministry. (EAR170)

### **Bernard A. and Winnie L. Rust Music Scholarship**

This scholarship is awarded annually to an undergraduate student majoring or minoring in music. (EAR171)

### **Alice L. Ryan Memorial Scholarship Fund**

This scholarship is given in memory of Alice L. Ryan, her love for God, and commitment to students. It is given to students in the College of Arts & Sciences in the elementary education degree program who demonstrate financial need. (EAR208)

### **Marie Salmonson Scholarship Fund**

Marie Salmonson was an honor student and graduate of Bethel Academy, Class of 1929. She faithfully supported Bethel University and her home church, Emmanuel Baptist (Mora, Minnesota), all her life. Her life ended in 2010 just two weeks short of her 99th birthday. A tireless, dedicated servant, she served as county auditor of Kanabec County for 37 years and in various capacities in her church for more than 51 years. She was a careful investor and left a legacy that will live on in the lives of the Bethel students who benefit from the scholarship that bears her name. It is awarded to worthy College of Arts & Sciences students who demonstrate financial need. (EAS238)

### **Dr. Russell and Inez Sather Scholarship for Elementary Education**

This scholarship is awarded to students majoring in elementary education. Recipients must be recommended by the faculty and maintain a 3.0 or better GPA. Preference will be given first to students from Polk, Red Lake, Marshall, Pennington, Norman, Kittson, Lake of the Woods, Mahnomen, and Clearwater counties in Minnesota. Awarding will commence in the sophomore year and continue through the senior year. (EAS173)

### **Dr. Russell and Inez Sather Scholarship for the Health Sciences**

This scholarship is awarded to students majoring in a healthcare professional program. Recipients must be recommended by the faculty and maintain a 3.0 or better GPA. Preference will be given first to students from Polk, Red Lake, Marshall, Pennington, Norman, Kittson, Lake of the Woods, Mahnomen, and Clearwater counties in Minnesota. Awarding will commence in the sophomore year and continue through the senior year. (EAS175)

**Lucille M. Saxon Scholarship in Missions**

This scholarship is awarded annually to an upperclassman who has indicated serious interest in a missions career and is exhibiting interest through success in appropriate course work and missions-related extracurricular activities. (EAS174)

**Susan K. Saxon/Mounds Midway School of Nursing Scholarship Fund**

This scholarship is in memory of Susan K. Saxon, a graduate of the Mounds Midway School of Nursing, in recognition of her interest in caring for coronary patients and her devotion to the cause of Christ. An annual scholarship is awarded to College of Arts & Sciences nursing students who are interested in pursuing a career in coronary nursing and demonstrate financial need. (EAS213)

**Senior Class Royal Legacy Scholarship Endowment**

This scholarship is given by students of the senior class—past, present, and future—to be a blessing to fellow Royals and welcome them into this community of believers. An award is given to full-time freshmen or incoming transfer students in the College of Arts & Sciences who have financial need. (EAR214)

**Myrtle M. Shaver Memorial Nursing Scholarships**

Several scholarships are awarded annually to Bethel University students working toward a Bachelor of Science in Nursing. (EAS176)

**Eunice Singfeldt Scholarship Fund**

This scholarship is given in memory of Eunice Singfeldt to Bethel University students in the College of Arts & Sciences who demonstrate need. (EAS263)

**C. Howard Smith Music Scholarship Endowment**

This scholarship is in honor of C. Howard Smith, professor of music at Bethel University, who was dedicated to music education and the integration of music and spiritual life. This scholarship is awarded to music majors with a preference to students who exhibit a balance of scholarship, musical ability, and service. This is renewable if recipient maintains an overall GPA of 3.3. (EAS177)

**W. Robert Smith Memorial Scholarship**

This scholarship is awarded to a student of any concentration or vocational goal who expresses serious interest in serving in a leadership capacity in an evangelical Christian church. This award is in honor of Dr. W. Robert Smith who was an intern pastor at Trinity Bible Church in Phoenix, Arizona. The recipient shall be at least a junior, attain and maintain at least a 3.0 GPA, demonstrate need, give evidence of future success, and be recommended by the major professor and department instructional personnel. (EAS178)

**Wilbur and Pearl Sorley College Scholarship**

This scholarship honors Wilbur and Pearl Sorley who both graduated from Bethel Seminary and served the Lord as missionaries to India. It was their desire to assist worthy and needy students who are committed to giving their lives to share the good news of Jesus Christ. (EAS227)

**Spirit of Unity Scholarship**

This scholarship is awarded to students of minority heritage who demonstrate financial need and are from the United States. Preference is given to Minnesota residents. The award is renewable if overall GPA of 2.5 or higher is maintained. (EAS202)

**Bill and Becky Ann Stewart Scholarship**

An annual scholarship is provided by Bill and Becky Ann Stewart for students who desire to enter a Christian field of endeavor or who wish to be effective in spreading the word of Christ as lay persons in a profession of their choice. (EAS180)

**Mr. and Mrs. Sidney L. Stolte Scholarship**

This scholarship is given annually in memory of Mr. and Mrs. Sidney L. Stolte to a senior who has shown leadership, character, and scholastic achievement and is preparing to serve God in world missions. (EAS181)

**Student Senate Scholarship**

Funded by the College of Arts & Sciences Student Senate, this annual award is given to a student who has rendered outstanding service to the Bethel Student Government. The recipient must have a 2.5 GPA or better and may not be a current Senate member. (EAS008)

**Elvira M. Svard Scholarship**

The fund awards worthy students who demonstrate financial need and who are pursuing a teaching career. (EAS182)

**Grace Ann Larson Swanson Scholarship**

This scholarship is given in memory of Grace Ann Larson Swanson to assist worthy Bethel University CAS students who demonstrate need and are pursuing a professional career in elementary education. Preference is given to students with a GPA of 3.0 or higher. (EAS258)



### **Theatre Arts and Visual Arts Scholarship**

This award is given to worthy and needy College of Arts & Sciences students who are majoring in theatre arts and are planning to use these talents in Christian ministry. Leslie M. Funk established this scholarship to help assist college students and to help the cause of Christ through Bethel University. (EAT220)

### **Theatre Arts Endowed Scholarship Fund**

This scholarship is awarded by the Department of Theatre Arts faculty to encourage outstanding drama students. (EAT211)

### **Theatre Arts Scholarship**

This performance scholarship is awarded by Department of Theatre faculty to encourage outstanding drama students. (EAT009)

### **Larry Tilleskjoer Scholarship Fund**

This scholarship is given to worthy Bethel University College of Arts & Sciences students who are pursuing a degree in chemistry with a minimum GPA of 3.0 and demonstrate financial need. (EAT205)

### **Ron Tschetter/Dain Rauscher Scholarship**

Established in honor of Ron Tschetter by the Dain Rauscher Foundation for his years of service, the fund awards worthy junior and senior students who are pursuing a career in business. Qualified applicants will be required to demonstrate financial need. (EAT183)

### **Ralph E. Twite Memorial Scholarship**

Two annual scholarships are awarded to third- or fourth-year students in music and business (one scholarship in each area). Recipients must be the top students in their major. (EAT184, EAT185)

### **Astrid and Ray Van Hoy College Scholarship**

This scholarship is in honor of Astrid and Ray Van Hoy. Astrid held a long-standing appreciation for caring and capable ministers of the gospel. It was through her careful savings that this scholarship has been made possible to College of Arts & Sciences students who have financial need and are preparing for pastoral ministry. It was her hope that this scholarship would enable recipients to study at Bethel and pursue God's call to the pastorate. (EAV228)

### **Frank J. and Eileen J. Voth Scholarship**

This fund is established in honor of the ministry of Frank and Eileen Voth with deep gratitude to God for His provision throughout their life together. Awards are given to children of Converge Worldwide (BGC) pastors or missionaries who show academic promise and who demonstrate financial need. (EAV186)

### **Wallendorf Scholarship Endowment**

This scholarship has been established by Paul Wallendorf '26 in loving memory of his wife, Helen, and his daughter, Barbara. It is awarded annually to students who demonstrate financial need with a cumulative GPA of at least 3.6. (EAW187)

### **Robert Weaver Scholarship**

In honor of Dr. Weaver's 26 years of service to the University, the intended spirit of this endowment is to award a deserving student who has, by process of scholarship and application, and in consultation with the Business faculty, demonstrated a passion for the furtherance of the virtues of peace, justice, equality, and the ability to view the world from the perspective of those who are themselves most in need; this within the context of a Small Business education. The candidate for this award must be: an upper-classman; majoring in Business with preference for those in the entrepreneur program; demonstrating a passion for use of their gifts to those in need.

### **Maurice and Germaine Wessman Memorial Scholarship**

This scholarship is awarded in memory of Maurice (Duff) Wessman and Germaine (Gerry) Wessman who loved the Lord and His Bethel with all their hearts. This scholarship is awarded to College of Arts & Sciences international students. (EAW190)

### **Wheelock Parkway Baptist Church Memorial Scholarship**

Upon the dissolution of the Wheelock Parkway Baptist Church, it was decided to establish a scholarship fund to assist Bethel University students who demonstrate Christian commitment and character, maintain academic achievement, and demonstrate financial need. (EAW191)

### **Bill and Ruth Widen Memorial Scholarship**

An annual scholarship is given to a female student with ultimate plans for missionary nursing or other missionary service. (EAW196)

### **Helen E. Widen Memorial Scholarship**

This scholarship is awarded to an undergraduate student selected by the scholarship committee who demonstrates financial need. (EAW194)



### **Margaret E. Widen Memorial Scholarship**

This scholarship is awarded in memory of Margaret E. Widen to a Bethel University student. (EAW195)

### **Mildred M. Widen Memorial Scholarship**

This scholarship is awarded in memory of Mildred M. Widen to a Bethel University student. (EAW197)

### **Wilmot Road Baptist Church Scholarship**

Upon the dissolution of the Wilmot Road Baptist Church, its members decided to establish a scholarship fund to assist Bethel University students. (EAW198)

### **Alfred J. and Rosalie Wingblade Scholarship**

A scholarship is given as a memorial to Alfred and Rosalie Wingblade's 42 years of service to Bethel. A.J. Wingblade served as principal of Bethel Academy beginning in 1907 and as professor of Greek and Christian education at Bethel College. The award is given to a promising student who has demonstrated aptitude for the use of the Greek language in New Testament studies. (EAW199)

### **Fern Worm, Lynne Petersen Nursing Scholarship**

This scholarship is given in memory of Fern A. Worm, who worked as chief nurse for Whirlpool in St. Paul, Minn., for 29 years. It is awarded to a Bethel University upperclassman majoring in nursing. (EAW192)

### **David F. and Vicki D. Ylkanen Scholarship Fund**

This scholarship is given by the Ylkanens, recognizing their lifelong interest in young people and education. It is awarded to students majoring in business, communication, education, or nursing who demonstrate financial need and whose Christian faith and witness are evident. (EAY207)

## **Financial Aid Programs**

Financial aid comes in two categories: gift aid (grants and scholarships) and self-help aid (loans and student employment).

A scholarship is a gift given in recognition of academic achievement; special talents; or contribution to church, school, or community. Visit [bethel.edu/undergrad/financial-aid/types/scholarships](http://bethel.edu/undergrad/financial-aid/types/scholarships) ([catalog.bethel.edu/arts-sciences/finances/scholarships/%20https://www.bethel.edu/undergrad/financial-aid/types/scholarships](http://catalog.bethel.edu/arts-sciences/finances/scholarships/%20https://www.bethel.edu/undergrad/financial-aid/types/scholarships)) for additional information.

A grant is a gift given usually on the basis of financial need. Visit [bethel.edu/undergrad/financial-aid/types/grants](http://bethel.edu/undergrad/financial-aid/types/grants) (<http://bethel.edu/undergrad/financial-aid/types/grants>) for additional information about federal, state, and Bethel programs.

A loan must be repaid. Student loan programs allow you to borrow money at low interest rates to help pay for your education. Visit [bethel.edu/undergrad/financial-aid/types/loans](http://bethel.edu/undergrad/financial-aid/types/loans) (<http://bethel.edu/undergrad/financial-aid/types/loans>) for additional information.

Student employment allows a student to earn a portion of his/her college expenses by working a part-time job on campus or in an off-campus community service position. Visit [bethel.edu/undergrad/financial-aid/types/student-employment](http://bethel.edu/undergrad/financial-aid/types/student-employment) (<https://www.bethel.edu/undergrad/financial-aid/types/student-employment>) for additional information.

# PERSONNEL

## Administration

### Office of the President

James (Jay) Barnes III, Ed.D.	President
Randall S. Bergen, Ph.D.	Executive Assistant to the President

### Diversity and Inclusion

Ruben Rivera, Ph.D.	Chief Diversity Officer
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### Office of the Provost

Debra K. Harless, Ph.D.	Executive Vice President and Provost
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### Academic Affairs

Deborah L. Sullivan-Trainor, Ph.D.	Vice President and Dean (College of Arts & Sciences)
Pamela J. Erwin, D.Min.	Associate Dean of Professional Programs; Acting Associate Dean of Natural and Behavioral Sciences
Barrett Fisher II, Ph.D.	Associate Dean of Arts and Humanities
Joel D. Frederickson, Ph.D.	Associate Dean of Institutional Assessment and Accreditation

### Campus Ministries

Laurel Bunker, M.A.	Dean of Campus Ministries/Campus Pastor
Tanden Brekke, M.Div.	Assistant Campus Pastor
Donna E. Johnson M.S., M.A.	Assistant Campus Pastor
Chris LaRue	Chapel Producer
Matthew C. Runion, M.Div.	Dean of Campus Ministries
Jason Steffenhagen, M.A. (T.S.)	Assistant Campus Pastor for Discipleship

### Library

David R. Stewart, M.L.I.S.	Director of University Libraries
Rhonda Gilbraith, M.L.I.S.	Associate Director and Collection Development Librarian
Karen Dubay, M.L.S.	Reference and Instruction Librarian
Lyndi Fabbri, M.L.I.S.	Public Services Librarian
Kent Gerber, M.S.	Digital Library Manager
Scott Kaihoi, M.L.I.S.	Reference and Instruction Librarian
William A. Keillor, M.L.I.S.	Reference and Instruction Librarian
Michael Mitchell, M.L.I.S.	Reference and Instruction Librarian
Amy Reinhold, M.L.I.S.	Materials Services Librarian
Earleen J. Warner, M.L.S.	Reference and Instruction Librarian

### Off-Campus Programs/International Studies

Vincent Peters, M.S.W.	Associate Dean of Off-Campus Programs/International Studies
Shawn Moore, M.A.	Assistant Director of Community Engagement and Service-Learning
Christina Chyerez, MBA	International Studies Program Coordinator
Melanie Eslinger, M.A.	Assistant Director of International Studies

### Registrar

Katrina L. Chapman, M.A.	Registrar
Diane Krusemark, M.C.S.	Associate Registrar (College of Arts & Sciences)
Melinda Molin, M.A.	Assistant Registrar

## Student Life

William O. Washington, Ph.D.	Vice President for Student Life
Natalie Beazer, M.Ed.	Director of Disability Resources and Services
James A. Benjamin, M.A.	Associate Dean of Students
Robert B. Bjorklund, M.A.	Director of Athletics
David Broza, M.A.	Director of Career Development and Calling
Kwai-Yung Carol Chang, M.S.	Associate Dean for International Student Programs and Services
John Fariss, M.A.	Assistant Dean for Residence Life
Leah Fulton, M.A.	Associate Dean for Intercultural Student Programs and Services
Richard D. Glasow, M.D.	Campus Physician
Jennifer Hillier, M.A.	Associate Dean for Residence Life
Miriam Hill, Ph.D, LMFT	Director of Counseling Services
Elizabeth K. Miller, R.N.	Director of Health Services
Heather Richards, M.A.	Assistant Dean of Student Programs
Marie D. Wisner, Ph.D.	Dean of Students

## Enrollment Management

### Financial Aid

Jeffrey D. Olson, MBA	Director of Financial Aid
Debra R. Cordova, B.A.	Associate Director of Financial Aid
Laura B. Ellwanger, B.A.	Assistant Director of Financial Aid
Marla J. Rupp, B.A.	Assistant Director of Financial Aid, Compliance and Training

## Faculty

### A

**Leigh Anne Adams**, 2007. Adjunct Assistant Professor of Theatre Arts. B.A., University of Kentucky, 1983. M.A., University of Kentucky, 1985. M.F.A., University of North Carolina, 1987.

**Kimberly Allmann**, Private Lesson Instructor in French Horn.

**Phyllis Alsdurf**, 2003. B.A., Evangel College, 1972. M.A., Western Kentucky University, 1974. M.A., Western Kentucky University, 1977. Ph.D., University of Minnesota, 2004.

**Bryan Anderson**, 1991. Associate Professor of Biological Sciences. B.S., Northland College, 1981. M.S., University of Minnesota, 1989. Biography: After serving as the department's lab coordinator for several years Bryan has become involved in the life science education program, having received his life science secondary education licensure from Bethel. Bryan is currently working on his Ph.D. at the University of Minnesota.

**Trudi Anderson**, Private Lesson Instructor in Flute.

### B

**Thomas Becknell**, 1983. B.A., Wheaton College, 1974. Ph.D., University of Iowa, 1983.

**Brian Beecken**, 1988. Department Chair, Professor of Physics. B.A., Elmhurst College, 1980. M.S., University of Minnesota, 1984. Ph.D., University of Minnesota, 1986.

**Jim Beilby**, 2001. Professor of Biblical and Theological Studies. B.S., Northwestern College, 1991. M.A.T.S., Bethel Theological Seminary, 1994. Ph.D., Marquette University, 2002.

**Katie Bonawitz, EdD**, 2007. Program Director of M.A. in Special Education. B.S., St. Cloud State University, 1996. M.Ed. in Special Education, Bethel University, 2005. Ed.D. in Special Education Administration, Bethel University, 2013.

**Andrew Bramsen**, 2013. B.A., University of South Carolina Aiken, 2002. M.A., Baylor University, 2004. M.A., University of Notre Dame, 2009. Ph.D., University of Notre Dame, 2012.

**Debbie Britt**, 2011. Bachelor of Science in Nursing, Bethel University, 2008. Master of Arts in Nursing Education, Bethel University, 2011.

**Susan Brooks**, 1998. Faculty Senate Vice-President. B.A., Bethel College, 1986. M.S., Mankato State University, 1994. Ph.D., University of Minnesota, 2010.

Biography: Brooks grew up in northern Wisconsin earned her original degree and teaching license at Bethel, returning to become a professor after a dozen years teaching high school and middle school English. She lives in Bloomington with her lovable but needy Labrador Retriever and her husband. They have two children who are in the process of moving into adulthood—a joyful adventure for the whole family!

**Scott Brown**, 1996. B.S., University of Wyoming, 1978. M.S.T., University of Wyoming, 1985. Ed.D. in Math Education, Montana State University, Bozeman, 1996.

**Mark Bruce**, 2005. B.A., Bethel College, 1991. M.A., Colorado State University, 1995. Ph.D., University of Iowa, 2005.

**Jeffrey Brueske**, Private Lesson Instructor in Jazz Bass.

**Nancy Brule**, 2004. B.S., Moorhead State University, 1994. M.S., Mankato State University, 1996. Ph.D., University of Nebraska, 2002.

Biography: Favorite religious book (other than Bible): Fiction: This Present Darkness, Piercing the Darkness, In His Steps Favorite non-religious book: Shout It from the Housetops (Pat Robertson) Favorite non-religious authors: John Grisham, Jonathan Kellerman, Susan Grafton (I love mystery and detective novels) Children: Jessica (getting PhD at the University of Illinois -Champaign/Urbana); Aaron (getting MA at the University of Wisconsin-Milwaukee); Jacob (getting MA at Colorado State University) – all of them in the area of communication studies! Pets: Two German Shepherds (Mattie & Clyde). Support the upkeep of my children's dogs which include two pugs (Barabbas & Cleopatra); a daschund (Maverick); and a half-pug, half-shih tzu (Thomas). Holidays at our house are crazy when all the kids come home with their dogs!

**Stina Busman**, 2008. Assistant Professor of Biblical and Theological Studies.

**Anna Butler**, 2007. Adjunct Instructor in Modern World Languages. B.A., Washington and Lee University, 1990. M.A., University of Virginia, 1994.

**Justin Byers**, 2004. B.S. in Athletic Training, University of Wisconsin-La Crosse, 1998. M.S. in Human Performance-Athletic Training, University of Wisconsin-La Crosse, 2002.

## C

**Rudy Cardona**, 2013. B.A. in Business Administration, University of St. Thomas, 1992. MBA in Marketing, St. Thomas University, 1996. Ph.D., Trident University, 2014.

**G.W. Carlson**, 1968. Professor of History and Political Science Emeritus. B.A., Bethel College, 1965. M.A., University of Minnesota, 1969. Ph.D., University of Minnesota, 1985.

**Christopher Carroll**, 2004. Assistant Professor of Human Kinetics and Applied Health Science. B.A. in Business, Bethel College, 2004. M.Ed. in Exercise Physiology, University of Minnesota, 2007. Ph.D. in Exercise Physiology, University of Minnesota, 2013.

**Christian Collins Winn**, 2005. Professor of Historical and Systematic Theology. B.A., University of North Carolina at Greensboro, 1993. M.Div., Gordon-Conwell Theological Seminary, 1999. M.Phil., Drew University, 2003. Ph.D., Drew University, 2006.

Biography: I am currently working on articles, edited collections and monograph length works exploring the theology of Karl Barth, the relevance of pietism for contemporary theology, the theology of the resurrection, theologies of freedom and the problem of race, the work of John Perkins, the work of Kwame Bediako, and contemporary theologies of the kingdom of God.

**Patrice Conrath**, 1988. B.S. in Mathematics, Bethel College, 1986. M.S. in Mathematics, University of Oklahoma, 1988. M.S. in Transportation Engineering, University of Minnesota, 1990.

**Melissa Cordes**, 2015. Assistant Professor of Biological Sciences. B.S., Wisconsin Lutheran College, 2007. Ph.D., University of Wisconsin, 2015. Biography: Dr. Cordes recently completed her PhD program, focusing on the neuroscience involved in the social cues that affect communication in starlings. This research will ideally affect the way we understand autism and the missing cues for effective communication. Her projects have included investigating the steroid hormone receptor role in resource dependent behavior via immunohistochemistry, as well as molecular work examining gene expression profiles between dominant and

subordinate individuals. She is also pursuing hormonal manipulations to determine the effects of steroid hormones on the opioid and dopamine systems. Dr. Cordes is also interested in the rewarding properties of androgens, and post transcriptional modifications of hormone receptor genes, e.g. methylation.

**David Crittenden**, Private Lesson Instructor in Guitar.

**Gary Crowe**, Private Lesson Instructor in Saxophone.

## D

**Seann Dikkers**, 2015. Department Chair, Associate Professor of Education. B.A., Bethel University, 1994. M.A., Bethel University, 2000. Ph.D., University of Wisconsin-Madison, 2012.

**Joyce Doan**, 2004. Professor of Biological Sciences. B.A., Albion College, 1995.

Biography: Dr. Doan joined the biology department in 2004. Her training and primary interest is in cell and molecular biology. After receiving her doctorate in medical microbiology and immunology, Dr. Doan did post-doctoral research at National Jewish Medical and Research Center in Denver, CO where she studied molecular events involved in the regulation of Tumor Necrosis Factor signaling by lipid rafts in macrophages.

**Jamie Dolieslager**, 1999. Associate Professor of Human Kinetics and Applied Health Sciences, Assistant Athletic Trainer. B.S. in Exercise Science, Buena Vista University, 1997. M.S. in Health, Physical Education, and Recreation, Emporia State University, 1999.

**Dale Durie**, 2005. Adjunct Associate Professor of Biblical and Theological Studies. B.A., Bethel College, 1985. M.Div., Denver Seminary, 1990. D.Min., Gordon-Conwell Theological Seminary, 2001.

Biography: Durie grew up on the mission field of Ecuador, graduated from Bethel as a Bible & Theology major, and pastored churches in Minnesota and Canada for twelve years prior to becoming a full-time instructor at Bethel in 2005.

**Neal Dutton**, 1980. B.A.Ed. in Physical Education, Eastern Washington University, 1979. M.S. in Health, Physical Education, and Recreation, South Dakota State University, 1980.

**Amy Dykstra**, 2011. Assistant Professor of Biological Sciences. B.A., University of Colorado-Colorado Springs, 1985. B.S., University of Wyoming, 1987. M.S., University of Wyoming, 1996. Ph.D., University of Minnesota, 2013.

## E

**Paul Eddy**, 1997. Professor of Biblical and Theological Studies. B.A., Bethel College, 1983. M.A.T.S., Bethel Theological Seminary, 1991. Ph.D., Marquette University, 1998.

**Steven Enderlein**, 2003. Associate Professor of Biblical Studies. B.A., Northwestern College (MN), 1984. M.A., Wheaton College, 1989. Ph.D., Marquette University, 1998.

**Tim Essenburg**, 1989. B.A. in Economics & Finance, Covenant College, 1983. Ph.D. in Economics, University of Tennessee, 1991.

**Victor Ezigbo**, 2008. Department Chair, Associate Professor of Biblical and Theological Studies. B.A., ECWA Theological Seminary, Igbaja, Nigeria, 2001. M.A., Wheaton College, 2003. M.Th., University of Edinburgh, 2005. Ph.D., University of Edinburgh, 2008.

## F

**Cary Franklin**, 2015. Conductor of the Bethel Chamber and Philharmonic Orchestras.

**Leta Frazier**, 1982. Professor of Communication Studies. B.A. in English, Tennessee Temple College, 1959. M.A.T. in English, University of Tennessee at Chattanooga, 1961. Ph.D., University of Minnesota, 1988.

**Phil Frazier**, 1988. Adjunct Assistant Professor of Communication Studies. B.A., Tennessee Temple College, 1961. M.Div., Northern Baptist Theological Seminary, 1966. Additional graduate work, Bethel Seminary & University of Minnesota.

**Kirk Freeman**, 1987. B.A., Bethel College, 1974. M.F.A., University of Puget Sound, 1977.

Biography: Kirk Freeman teaches all levels of ceramics. He is a teacher and working potter who maintains a home studio, producing and showing work as a part of his profession. His studio interests focus on high fired porcelain and stoneware vessels created on the wheel.

## G

**Leo Gabriel**, 1991. B.S. in Mathematics, Grand Valley State University, 1978. M.S. in Business Administration and Accounting, Temple University, 1987. Doctor of Business Administration and Accounting, Anderson University, 2007.

**Chris Gehrz**, 2003. Department Chair, Professor of History. A.B., College of William and Mary, 1996. PhD, Yale University, 2002.

**Andrew Gess**, 2001. Director of Internships. B.A., Azusa Pacific University, 1982. M.Div., Fuller Theological Seminary, 1985. M.Ed., Oregon State University, 1989. Ph.D., Regent University, 1999.

**Eric Gossett**, 1984. B.A., University of California at San Diego, 1972. M.S., University of Arizona, 1974. Ph.D. in Mathematics, specialization in combinatorics, University of Arizona, 1984.

**Nathan Gossett**, 2007. B.A. in Mathematics, Bethel University, 2002. B.S. in Computer Science, Bethel University, 2002. PhD in Computer Science, University of Minnesota, 2007.

**Thomas Greenlee**, 1979. B.S., Michigan Technological University, 1970. M.S., California Institute of Technology, 1973. Ph.D., California Institute of Technology, 1978.

**Kristi Gustafson**, 2002. BSN, Bethel College, 1998. M.A. in Nursing Education, Bethel University, 2002.

## H

**Emily Hagen**, Private Lesson Instructor in Viola.

**Amanda Hamilton**, 2013. B.S., Biola University, 2000. M.F.A., Claremont Graduate University, 2005.

**Alyssa Hamre**, 2012. Instructor in Physics. B.S., Wheaton College, 2008. M.S., University of Minnesota, 2011.

Biography: Prof. Hamre received her M.S. in Physics at the University of Minnesota after completing her B.S. in Physics at Wheaton College, IL. Her research is in space plasma physics with a focus on the energy processes associated with the Northern Lights. She continues to monitor space weather and tends to be very excited anytime there are large blobs of plasma coming off of the sun (a critical part of the energization process). She also holds a Minnesota teaching license in 9-12 physics

completed through the graduate school at Bethel University. Within the department, she focuses on the exploration of new physics teaching methodology, and she heads the Women in Physics & Engineering events for the department. Prof. Hamre's passion is teaching, and her favorite part is when students' eyes light up at the "aha!" moment of understanding.

**Chuck Hannema**, 2002. B.A. in Economics, Wheaton College, 1978. MBA in Finance, Carlson School of Business at the University of Minnesota, 1984.

**Angela Hanson**, Private Lesson Instructor in Violin.

**Jason Harms**, Conductor of the Jazz Orchestra.

**Mary Ann Harris**, 2005. B.A. in Journalism/Advertising, University of Wisconsin, Madison, 1985. MBA, Washington University, 1992. Ph.D. in Strategic Marketing Communications, University of Minnesota, 2007.

**Jessica Henderson**, 2011. B.A., Bethel University, 2007. M.F.A., Minneapolis College of Art and Design, 2011.

**Steven Henkel**, 1986. B.S., University of Wisconsin-Madison, 1977. M.S., University of Wisconsin-Madison, 1984. Ph.D., University of Wisconsin-Madison, 1986.

**Juan Hernandez**, 2006. Professor of Biblical Studies. B.S.B., Valley Forge Christian College, 1991. M.Div., Gordon-Conwell Theological Seminary, 1998. Th.M., Gordon-Conwell Theological Seminary, 2000. Ph.D., Emory University, 2006.

**Brent Hoernemann**, 1999. Laboratory and Safety Coordinator. B.A., Bethel College, 1997.

Biography: Brent Hoernemann is the department's Laboratory Coordinator. Brent works at keeping labs and stockrooms supplied and department equipment maintained. As lab coordinator, he also supervises the 40+ teaching assistants in the department who aid the faculty and the department. He also oversees the upkeep of the department facilities including the animal vivarium and greenhouse. Brent has a B.A. in Life Science Secondary Education and has previously taught high school chemistry and biology.

**Brian Holland**, 1984. B.S. in Management and Administration, Indiana University, 1979. MBA in Managerial Finance, Indiana University, 1981.

**Michael Holmes**, 1982. University Professor of Biblical Studies and Early Christianity. B.A., University of California at Santa Barbara, 1973. M.A., Trinity Evangelical Divinity School, 1976. Ph.D., Princeton Theological Seminary, 1984.

Biography: Holmes has taught at Bethel since 1982, and was Chair of the Department of Biblical and Theological Studies from 2001 to 2009. He was previously on the faculty at Trinity Evangelical Divinity School and Princeton Theological Seminary, and has been Visiting Scholar at Luther Theological Seminary in St. Paul. He received his B.A. (in history) from the University of California at Santa Barbara (1973), an M.A. in New Testament from TEDS (1976), and the Ph.D. from Princeton Seminary (1984). His primary research interests are New Testament textual criticism and the Apostolic Fathers (a collection of early Christian writings). Current projects include a commentary on the Martyrdom of Polycarp and a study of the formation of the New Testament canon. His publications include several books (see details below), fifty articles, essays, or chapters in books, and more than 230 book reviews (covering more than 250 books in 23 journals). He has presented papers and invited lectures in the U.S., Canada, England, Germany, France, and Belgium. In



addition, he has served on dissertation committees at Emory University, Duke University, the University of North Carolina at Chapel Hill, and the University of Notre Dame, and as external reader at the Toronto School of Theology. He speaks and teaches frequently at Twin Cities churches, universities, and seminaries, has served as an interim pastor, and is a long-term member of Trinity Baptist Church (Maplewood, MN). A native of California, Holmes also lived in Illinois and New Jersey prior to moving to Minnesota. Hobbies include woodworking, golf, and fishing (see end of file below).

**Sandi Horn**, 1997. Associate Professor of Education. B.A. in Elementary Education, Bethel College, 1973. M.A. in Elementary Education, University of Minnesota, 1986. Ed.D. in Educational Administration, University of Minnesota, 2008.

**Joey Horstman**, 1998. B.A., Northwestern College (IA), 1987. M.A., DePaul University, 1989. Ph.D., Purdue University, 1997.

**Chad Hoyt**, 2006. B.S., Bethel College, 1994. Ph.D. (with distinction), University of New Mexico, 2002.

**Stacy Hunter Hecht**, 1997. B.A., Penn State University, 1989. Ph.D., University of Minnesota, 2000.

**James Hurd**, 1982. B.A. in Anthropology, California State College-Fullerton, 1966. M.A., Pennsylvania State University, 1972. Ph.D. in Anthropology, Pennsylvania State University, 1981.

**Brian Hyatt**, 2003. Department Chair, Professor of Biological Sciences. B.A., Bethel College, 1993. B.S., Bethel College, 1993. Ph.D., University of Minnesota, 1998.

## J

**Jeff Jacob**, 2007. Associate Professor of Economics. B.A. in Economics, St. Stephen's College (Delhi, India), 1997. M.A. in Economics, Delhi (India) School of Economics and Southern Methodist University, 1999. M.A. in Economics, Southern Methodist University, 2003. Ph.D. in Economics, Southern Methodist University, 2006.

Biography: Jacob has extensive teaching experience at Bethel and at SMU. He also worked in some leading economic policy think tanks in India where his research revolved around international trade issues. His current research is focused on empirically studying the micro- and macro-economic determinants of economic development.

**Joshua John**, Private Lesson Instructor in Bassoon.

**Adam Johnson**, 2008. Professor of Psychology. B.S. in Physics/Psychology, Minnesota State University-Mankato, 2002. Ph.D. in Neuroscience, University of Minnesota, 2008.

**Andy Johnson**, 1995. Associate Professor of Psychology. A.B. in Psychology, Drury College, 1983. M.A. in Psychology, University of Notre Dame, 1987. Ph.D. in Counseling Psychology, University of Notre Dame, 1990.

**Gregg Johnson**, 1975. Professor of Biological Sciences Emeritus. B.A., Bethel College, 1969. M.S., University of North Dakota, 1971. Ph.D., University of North Dakota, 1975.

**Herbert Johnson**, 2008. B.M.E., Evangel University, 1978. M.M., University of Missouri-Kansas City, 1980. D.M.A., Manhattan School of Music, 1992.

**Janet Johnson**, 1996. Assistant Athletic Trainer. M.S. in Physical Therapy (M.P.T.), University of Nebraska Medical Center, 1992. D.P.T. (Doctor of Physical Therapy), The College of St. Scholastica, 2011.

**Ian Johnston**, 1988. Professor of Biological Sciences. B.A., University of Cambridge, 1970. M.A., University of Cambridge, 1974. Ph.D., University of California at Los Angeles, 1978.

## K

**Mark Kausch**, Private Lesson Instructor in Double Bass.

**Peggy Kendall**, 1999. Professor of Communication Studies. B.A. in Communication, Bethel College, 1983. M.A. in Education, University of St. Thomas, 1988. M.A. in Counseling Psychology, St. Mary's University, 1997. Ph.D. in Communication, University of Minnesota, 2004.

**Lisa Kepple**, 2015. Instructor in Human Kinetics and Applied Health Science. B.A., Bethel University, 2010. M.A., Bethel University, 2014. Ed.D. (in process), Bethel University, anticipated 2017.

**Bill Kinney**, 1998. B.A., Bethel College, 1990. Ph.D. in Mathematics, University of Minnesota, 1996.

**AnneMarie Kooistra**, 2005. Associate Professor of History. B.A., Calvin College, 1995. M.A., University of Southern California, 1998. Ph.D., University of Southern California, 2003.

## L

**Steven Lancaster**, 2015. Assistant Professor of Psychology. B.A., Bethel University, 2005. M.A., Southern Illinois University-Carbondale, 2008. Ph.D., Southern Illinois University-Carbondale, 2011.

**Marion Larson**, 1986. B.A., Wheaton College, 1982. Ph.D., University of Minnesota, 1992.

**Amy Lary White**, 2002. B.A., Bethel College, 1990. M.S.W., University of St. Thomas/St. Catherine University, 1997. Doctorate of Social Work, University of St. Thomas/St. Catherine University, 2017.

**John Lawyer**, 1976. A.B., Harvard College, 1960. M.A., University of Delaware, 1965. M.P.A., Kennedy School of Government, Harvard University, 1970. Ph.D., Fletcher School of Law and Diplomacy, Tufts University, 1976. Certificate in Spirituality, St. John's Graduate School of Theology, St. John's University.

**Donna LeGrand**, 2001. Associate Professor of Spanish Education. B.A., Concordia College (Moorhead), 1978. M.A., University of Wisconsin-Madison, 1988. Ph.D. in Literacy and Linguistics, University of Minnesota, 2000.

**Joyce LeMay**, 2006. B.S. in Food Service Administration, University of Wisconsin-Stout, 1985. MBA in Human Resource Management, Metropolitan State University, 1998. Certified as Senior Professional in Human Resources (SPHR), Human Resource Certification Institute. Senior Certified Professional (SHRM-SCP), Society of Human Resource Management.

**Erik Leafblad**, 2015. Instructor in Missional Ministries. B.A., Bethel University, 2004. M.Div., Princeton Seminary, 2007. Ph.D. (in process), Luther Seminary, anticipated 2016.

**Bernon Peng Yi Lee**, 2008. B.A., University of Calgary, 1995. M.A., University of Calgary, 1997. Ph.D., University of St. Michael's College, Toronto School of Theology, 2003.

**James Lewis**, 2003. B.S., St. Paul Bible College. B.A., Bethel College. B.D., Bethel Theological Seminary. Ph.D., The University of Iowa.

**Jason Li**, 1986. Professor of Psychology. B.A., Northwestern University, 1978. M.A., Michigan State University, 1981. Ph.D., Michigan State University, 1985.

**Nathan Lindquist**, 2011. B.S., Bethel College, 2002. M.S., University of Minnesota, 2005. Ph.D. (Doctoral Dissertation Fellowship), University of Minnesota, 2010.

**Gary Long**, 2000. B.A., Central Bible College, 1981. M.A., Denver Seminary, 1984. Ph.D., University of Chicago, 1993.

## M

**Trey Maddox**, 2008. B.S., University of West Florida, 1998. Ph.D., Emory University, 2005.

**Julie Madura**, Private Lesson Instructor in Oboe.

**Diana Magnuson**, 1994. Director of Archives, The History Center: Archives of the Baptist General Conference and Bethel University. B.A., Bethel College, 1988. M.A., University of Minnesota, 1992. Ph.D., University of Minnesota, 1995.

**Ashley Mahoney**, 2001. B.S., Angelo State University, 1994. Ph.D., University of Kentucky, 1999.

**Gina Maltese-Preciado**, 2012. Adjunct Instructor in Modern World Languages. B.S., Concordia University, 1985. M.A., University of Nebraska, 1988. M.A., Columbia University, 1992.

**Jill Martin**, 1996. Associate Professor of Education. B.A. in Social Studies Secondary Education, Bethel University, 1983. M.A. in Educational Psychology, St. Thomas University, 1988. Ed.D. in Curriculum and Instruction in Higher Education, Nova Southeastern University, 2001.

**Claudia May**, 2015. Associate Professor of Reconciliation Studies. B.A., University of York, UK, 1988. M.A., University of California-Berkeley, 1992. Ph.D., University of California-Berkeley, 1996.

**Karen McKinney**, 1996. B.A., University of Minnesota, 1984. M.Div., Fuller Theological Seminary, 1990. M.S., Mankato State University, 1995. Ed.D., University of St. Thomas, 2012.

Biography: Missions are a special area of interest for McKinney, and she has served in a mission capacity in Mexico, Ecuador, Kenya, and Israel. Prior to coming to Bethel she was a youth pastor, youth leadership-training specialist, youth chaplain, training consultant and adult trainer.

**Dmitri Medvedovski**, 2002. B.S. in Aerospace Operations, Moscow State Technical College (Russia), 1989. B.S. in Economics, Russian State Academy of Management, 1993. MBA, Russian State Academy of Management, 1995. Ph.D. in Applied Economics, Clemson University, 2002.

**Jay Milbrandt**, 2013. B.A. in International Business & Philosophy, Bethel College, 2004. MBA, Pepperdine University, 2007. J.D., Pepperdine University, 2008.

**Zachary Miller**, Private Lesson Instructor in Jazz Percussion.

**Christopher Moore**, 2008. B.A., Albion College, 2000. M.A., Ohio State University, 2003. Ph.D., Ohio State University, 2008.

**Sam Mulberry**, 2003. Assistant Professor of History. B.A., Bethel College, 1999. M.A., University of Minnesota, 2003.

## N

**Wade Neiwert**, 2004. B.S., George Fox University, 1999. Ph.D., Emory University, 2004.

**Ruth Nelson**, 2001. B.A. in Psychology/Third-World Studies, Bethel College, 1996. M.A. in Educational Psychology, University of Minnesota, 1998. Ph.D. in Educational Psychology, University of Minnesota, 2002.

**Katherine Nevins**, 1981. B.A., University of Colorado, 1971. M.A., Kansas State University, 1975. Ph.D., University of Minnesota, 1986.

**Laura Nugteren**, 2010. Adjunct Instructor of Nursing. Bachelor of Science in Nursing, South Dakota State University, 2003. Master of Arts in Nursing Education, Bethel University, 2008.

## O

**Cheryl Oie**,

**Bruce Olsen**, 1998. B.A. in Business, Bethel College, 1978. MBA in Accounting, University of Minnesota, 1990.

**Chad Osgood**, 1998. Head Athletic Trainer. B.A. in Athletic Training, Bethel College, 1995. M.S. in Health, Physical Education, and Recreation, South Dakota State University, 1998.

**Christine Osgood**, 2001. Adjunct Faculty. B.A., Bethel College, 1994. M.A., North American Baptist Seminary, 1998. D.Min., Bethel Seminary, 2010.

## P

**Seth Paradis**, 2006. Professor of Human Kinetics and Applied Health Science. B.A. in Health Fitness, Gustavus Adolphus College, 1996. M.S. in Human Performance/Biomechanics, University of Wisconsin-La Crosse, 2000. Ph.D. in Exercise Physiology, University of Pittsburgh, 2003.

**Lauren Pareigat**, 2014. Communications Specialist for Academic Affairs.

**Tina Park**, Private Lesson Instructor in Piano.

**Nancy Parker**, Adjunct Assistant Professor.

**Patricia Paulson**, 1999. Professor of Science Education. B.S. in Psychology, Elementary Licensure, Muskingum College, 1972. M.S. in Educational Administration; Life Science Education Licensure, St. Cloud State University, 1979. Ph.D., Capella University, 2005. Biography: Dr. Paulson has taught at all levels, from kindergarten to college, and served as the curriculum coordinator for science for Anoka-Hennepin ISD #11 prior to coming to Bethel. Her major areas of research are in authentic instruction in STEM, including the emphasis of scientific practices and performance assessments. She has also worked extensively to address gender issues and science teaching practices. She lives in Cambridge, MN with her husband, Craig, has three grown sons, and eight grandchildren.

**Jolene Pearson**, 2012. Director of Early Childhood Services. B.E.S., University of Minnesota, 1976. M.S.Ed., Wheelock College, 1980. Doctorate Student in Youth, Family and Community with an early childhood emphasis, University of Minnesota.



**Carrie Peffley**, 2008. Instructor in Philosophy. B.A., Bethel College, 2002. M.A., Marquette University, 2004. M.Phil, Cambridge University, 2006.

**Kenneth Petersen**, 2003. Professor of Biological Sciences, Director of Environmental Studies. B.A., Biology, Dordt College, 1979. M.S., Wildlife Biology, Iowa State University, 1982. Ph.D., Animal Ecology, Iowa State University, 1986.

**Gene D. Peterson**, 2015. Director of Choral Activities, Associate Professor of Music. B.Mus., Chapman University, 1999. M.A., Chapman University, 2005. D.M.A., University of Washington, 2010.

**Richard Peterson**, 1980. B.S. in physics and mathematics, Wisconsin State University, 1964. M.S. in physics, Michigan State University, 1966. Ph.D. in physics, Michigan State University, 1969.

Biography: He came to Bethel as Professor and Physics Department Chair in 1980. During 2005–2007, he served as national President/Past President of the American Association of Physics Teachers (AAPT) and has also served 4 years as a Director on the American Institute of Physics Governing Board. He especially enjoys the development of new apparatus for interactive physics demonstrations and laboratories and loves to share these demonstrations with young and old. He was appointed the first University Professor at Bethel University for his research, teaching, and physics community service. Following a NSF grant to Bethel, he recently served 2 years as Program Director in the National Science Foundation's Division of Undergraduate Education (DUE) in Arlington, VA concurrent with a Senior Staff Physicist appointment at Bethel.

**Cristina Plaza Ruiz**, 2009. Adjunct Instructor in Modern World Languages. B.S., UNED, Spain, 1993. M.A., Hamline University, 1997.

**Amy Poppinga**, 2005. Instructor in History. B.A., Bethel College, 1999. M.A., Luther Seminary, 2006. Ph.D. candidate, University of Exeter.

**Don Postema**, 1978. Adjunct Professor of Philosophy. B.A., Wheaton College, 1969. M.T.S., Gordon-Conwell Theological Seminary, 1971. M.Phil., Columbia University, 1977. Ph.D., Columbia University, 1989.

**John Povolny**, Private Lesson Instructor in Percussion.

**Linda Probert**, 1997. Associate Professor of Education. B.S. in Education, Ashland University, 1980. M.A. in Reading, University of Northern Iowa, 1987. Ed.D. in Higher Education, Nova Southeastern University, 2005.

Biography: I have been a teacher for 33 years! The first 15 years were as a kindergarten and first grade teacher in Iowa. The remaining years have been here at Bethel University in the Education department. I have been married for 27 years and we have 4 children. Two have attended and graduated from Bethel, one is currently a Bethel student, and the 4th will be a senior in high school in the fall of 2015.

## R

**Paul Reasoner**, 1984. Professor of Philosophy. B.A., Bethel College, 1975. M.A., Sophia University, Japan, 1980. M.A., University of Minnesota, 1982. Ph.D., University of Minnesota, 1986.

**Cindy Reents**, Office Coordinator.

**Rick Rees**, 1980. B.A., California State University at Fresno, 1972. M.A., University of Kansas, 1974. M.F.A., University of Minnesota, 1990. Biography: Rees has designed for The Refreshment Committee Theatre Company, University of Minnesota, Park Square Theatre, Roseville Covenant Church and Shakespeare & Company to name a few .

**Mark Rhoads**, 1988. B.M., Biola University, 1972. M.A., California State University at Fullerton, 1981. D.M.A., University of Oregon, 1990.

**Daniel Ritchie**, 1985. B.A. Cum laude in Greek, Amherst College, 1978. M.A. in English, Rutgers University, 1980. Ph.D. in English, Rutgers University, 1985.

**Ruben Rivera**, 1997. Associate Professor of History, Chief Diversity Officer. B.A., Vanguard University, 1986. M.A.T.S., Gordon-Conwell Theological Seminary, 1989. Ph.D., Boston University, 2007.

**Nathan Robey**, 2015. Instructor in Human Kinetics and Applied Health Science. B.S., South Dakota State University, 2011. M.S., Texas State University, 2014.

**Wayne Roosa**, 1983. B.F.A. (painting), B.A. (art history), University of Colorado, 1973. M.A., Rutgers University, 1977. Ph.D., Rutgers University, 1989.

## S

**Angela Sabates**, 2003. Associate Professor of Psychology. B.S. in Psychology, University of Miami, 1984. M.A. in Clinical Psychology, Northwestern University, 1986. Ph.D. in Clinical Psychology, Northwestern University, 1989.

**Jessica Samens**, 2009. Assistant Director of Forensics. B.A. Communication, Winona State University, 2004. M.A. Speech Communication, Minnesota State University-Mankato, 2006.

**Laura Sanchez**, 2006. B.A., Universidad Pedagógica Nacional (Mexico), 2004. M.Ed. in Education Leadership, Bethel University, 2008.

**Kristin Sandau**, 2006. B.S., Bethel College, 1989. M.S., University of Minnesota, 1999. Ph.D., University of Minnesota, 2004.

**April Schmidt**, 2004. B.A., Bethel College, 2000. M.F.A., Hamline University, 2005.

**Harley Schreck**, 1988. B.A. in Mathematics, University of Idaho, 1970. M.A. in Anthropology, University of Montana, 1977. Ph.D. in Anthropology, University of Washington, 1984.

**Greta Schutte**, 2013. Assistant Professor of Human Kinetics and Applied Health Science, Assistant Athletic Trainer. B.A. in Athletic Training, Bethel University, 2003. M.S. in Exercise and Sport Science-Human Performance, University of Wisconsin-LaCrosse, 2005.

**Jennifer Scott**, 2002. Adjunct Instructor of Biblical and Theological Studies. B.A., Bethel College, 1995. M.A. in Theological Studies, Bethel Seminary, 2002.

Biography: Jennifer Scott has a heart for reading, studying and teaching the Bible and loves engaging in the "lightbulb" moments with students. She also works as the Director of Community Life at her church, serving in the areas of pastoral care, small groups, prayer and volunteer connections.

**Rebecca Seaberg**, 1981. B.A. in Mathematics and Secondary Education, Bethel College, 1977. M.A. in Mathematics Education, University of Minnesota, 1988.

**Stephen Self**, 1999. B.A., Olivet Nazarene University, 1976. M.M., University of Missouri, 1979. Ph.D., Ohio State University, 1990. D.M.A., West Virginia University, 2000.

**Sara Shady**, 2002. B.A., Taylor University, 1998.

**Angela Shannon**, 2006. B.A., Florida State University, 1987. M.F.A., Warren Wilson College, 2001.

**Carrie Shaw**, Private Lesson Instructor in Voice.

**Timothy Shaw**, 1981. Professor of Biological Sciences. B.A., St. Mary's College, 1977. Ph.D., University of Minnesota, 1988.

**Mary Sheie**, 2005. Adjunct Associate Professor in Modern World Languages. B.A., St. Olaf College, 1972. M.Ed., Western Maryland College, 1975.

Biography: Mary has taught American Sign Language at Bethel since 2005. The span of her career also includes 26 years in K-12 education with Deaf and hard of hearing students, working as an independent contractor interpreting, teaching ASL and consulting on a variety of issues in the field. She also has a background in real-time captioning in the classroom. Mary has been on the advisory council for the Minnesota Resource Center for Deaf and Hard of Hearing, and is currently the Secretary of the Minnesota Chapter of the American Sign Language Teachers Association.

**Kevin Shull**, Manager of Music Organizations.

**Eydie Shypulski**, 2015. B.A., Asbury University. M.S.W., St. Louis University. D.Min. (in process), Bethel Seminary, anticipated 2016.

**Ripley Smith**, 2008. B.A., University of Dubuque, 1986. M.A., University of Minnesota, 1990. Ph.D., University of Minnesota, 1996.

**Scott Sochay**, 1999. B.A., Michigan State University, 1984. MBA, Michigan State University, 1989. Ph.D., Michigan State University, 1998.

**Pam Sohriakoff**, Staff Accompanist.

**Paula Soneral**, 2008. Associate Professor of Biological Sciences. B.S., University of Michigan, 1998. Ph.D., Stanford University, 2003.

**Keith Stein**, 2001. B.A., Bethel College, 1987. M.S., University of Minnesota, 1989. Ph.D., University of Minnesota, 1999.  
Biography: Dr. Stein is a graduate of the Bethel Physics department. After receiving his M.S. in Aerospace Engineering at the University of Minnesota, he accepted a position at the U.S. Army Soldier Systems Center in Massachusetts where his research focused on computational modeling of parachute fluid-structure interactions. As an Army researcher, he was awarded the Department of the Army Research and Development Award and received his Ph.D. in Aerospace Engineering at the University of Minnesota. Dr. Stein has been involved in research in the area of computational modeling of parachutes and large displacement fluid-structure interaction and has collaborated with the Team for Advanced Flow Simulation and Modeling (T\*AFSM) at Rice University. He has also collaborated with the University of Minnesota Department of Aerospace Engineering and Mechanics on simulations of Mars Science Laboratory (MSL) parachute system dynamics. Dr. Stein has served on the advisory board of the International Journal for Numerical Methods in Fluids and has received the Bethel Excellence in Scholarship Award.

**Kenneth Steinbach**, 2001. B.A., Bethel College, 1983. M.F.A., Cranbrook Academy of Art, 1986.

**Angela Stoeckman**, 2015. Associate Professor of Chemistry. B.S., Bethel University, 1997. Ph.D., University of Minnesota, 2003.

**Danny Swensen**, 2008. Associate Professor of Education. Ph.D. in Curriculum and Instruction with a track in Mathematics Education

and a minor in Educational Psychology with an emphasis in statistics education, University of Minnesota, 2015. Specialist Degree in Educational Administration, University of Minnesota, 1994. M.Ed. in Education, University of Wisconsin - River Falls, 1991. B.S. in Physics, University of Wisconsin - River Falls, 1984.  
Biography: Swensen taught middle school and high school math, physics, and chemistry for over twenty years. He is currently an Associate Professor at Bethel University where he has taught Educational Technology, Statistical Analysis, Concepts in Physics, Math Curriculum and Methods, Applied Research in STEM, and courses in middle level education.

## T

**Artie Terry**, 2006. B.S. in TV/Radio Production, Syracuse University, 1976. M.A. in Film Production, Regent University, 1991. Ph.D. in Cinema Studies, Regent University, 1995.

**Deborah Thomas**, 2011. B.S. in Computer Science, Bethel College, 2003. Ph.D. in Computer Science and Engineering, University of Notre Dame, 2010.

**Lex Thompson**, 2005. Professor of Art. B.A., History, New College of Florida, 1999. M.A., Religion and the Arts, Yale University, 2001. M.F.A., Photography, San Francisco Art Institute, 2004.

Biography: Lex Thompson's work focuses on manifestations of hope and failure in the American landscape. Selected Exhibitions 2014 INFOCUS – Self Published Photobooks, Phoenix Art Museum, Phoenix, AZ This May Have Happened, David Weinberg Photography, Filter Photo Festival, Chicago IL Photobook Show F, 72 Gallery, Tokyo Institute of Photography, Tokyo, Japan Photobookshow Malmö, Vasli Souza, Malmö, Sweden 2013 Orders of Possibility, Form+Content Gallery, Minneapolis, MN (three person) The Explorers Club, Gustavus Adolphus College, Saint Peter, MN (two person) DIY (Chicago): Photographers and Books, Columbia College Chicago, Chicago, IL a fair, Art + Design Gallery, University of Kansas, Lawrence, KS 2012 Lu-wow, Eugene Johnson Gallery, Bethel University, St. Paul, MN (solo) New Southern Photography, Ogden Museum of Art, New Orleans, LA DIY: Photographers & Books, Cleveland Museum of Art, Cleveland, OH Photobook Show C, Create Studio, Brighton UK 2011 All Our Pleasant Places, Seerveld Gallery, Trinity College, Chicago, IL (solo) McKnight Photography Fellows 2009-2010, Franklin Art Works, Minneapolis, MN A View of the Vernacular: Eric Ruby & Lex Thompson, IFP Center for Media Arts, Saint Paul, MN 2010 Evergreen, Wall Space Gallery, Santa Barbara, CA Biotics: The Hum/animal World, Conduit Gallery, Minneapolis, MN 2009 Carroll, Nedrelow, Thompson, SELLOUT Gallery, Minneapolis, MN Space Available, 9th Street Entry Gallery, Saint Paul, MN 2008 All Our Pleasant Places, Point of View Gallery, New York, NY (solo) Fanatically Yours, New York Center for Art & Media Studies, New York, NY New American Talent, Arthouse, Austin, TX, Texas A&M, Commerce, & Texas Tech University, Lubbock. PhotoMidwest, University of Wisconsin, Madison, WI Artist' Books: Recent Acquisitions, UCLA Arts Library, Los Angeles, CA 2007 High 5: Emerging Art in America, CW Network Corporate Headquarters, Los Angeles, CA Up & Now!, Photographic Center Northwest, Seattle, WA Untitled 6, SOO Visual Arts Center, Minneapolis, MN Photocentric 2007, Minnesota Center for Photography, Minneapolis, MN All Our Pleasant Places, Focal Length Gallery, Minnesota State University, Moorhead, MN. (solo) Mush, Mush, Masculinity!, Ephemeral Space, Saint Paul, MN 2006 Waterways, Eugene Johnson Gallery, Bethel University, St. Paul, MN (solo) You Were Never Here, The Soap Factory, Minneapolis, MN Photo Books Now, San Francisco Center for the Book, San Francisco, CA 2005 Other America, Exit Art, New York, NY Minnesota Biennial 2D II, Minnesota Museum of American Art, St. Paul, MN Exposure X 9,

Urban Institute for Contemporary Arts, Grand Rapids, MI D(igital)fraged , University of West Florida Art Gallery, Pensacola, FL Monument Recall , The Art Gym, Marylhurst University, Portland, OR 2004 Monument Recall , SF Camerawork, San Francisco, CA We Could've Been Friends , Boxspace, Miami, FL

**Steven Thompson**, 2002. B.M.E., Wheaton College Conservatory of Music, 1975. M.M., Peabody Institute of Johns Hopkins University, 1981. D.A., University of Northern Colorado, 2001.

**Sandra Traudt**, 1999. B.A., Bethel College, 1975. M.S.W., University of Minnesota, 1990.

**Brian Turnquist**, 1997. Ph.D. in Mathematics, University of Maryland, 1997. B.S. in Mathematics, University of Maryland, 1990. B.A. in Biblical and Theological Studies, Bethel College, 1987.

## U

**Emily Urban**, Staff Accompanist.

**Marshall Urban**, Private Lesson Instructor in Voice.

## V

**Fred Van Geest**, 2007. B.A., The University of Western Ontario, Ontario, Canada, 1989. M.P.A., Carleton University, Ontario, Canada, 1991. Ph.D., Queen's University, Ontario, Canada, 1995.

**Ray VanArragon**, 2005. Professor of Philosophy. B.A., Calvin College, 1995. Ph.D., University of Notre Dame, 2002.

**Jonathan Veenker**, 1988. B.A., Bethel University, 1984. M.M., University of Minnesota, 1987. Ph.D., University of Minnesota, 1993.

**Catherine Victorsen**, Private Lesson Instructor in Harp.

**Ishaa Vintinner**, 2014. Adjunct Instructor in Modern World Languages.

**Geri Von Grey**, 2012. Instructor in Education. B.A., Bethel College, 1992. M.A., Bethel College, 1997.

## W

**Hong Wang**, Private Lesson Instructor in Cello.

**Sandi Weightman**, 1996. B.A., Wheaton College, 1987. M.A., University of California, 1990. Ph.D., University of California, 2002.

**Michelle Westmark Wingard**, 2007. B.A., Bethel College, 2000. M.F.A., Pratt Institute, Brooklyn, New York, 2006.

**David Wetzell**, 1985. B.A. in Mathematics, Bethel College, 1974. M.A., University of Nebraska-Lincoln, 1975. Ph.D. in Statistics, University of Nebraska-Lincoln, 1979.

**Jeff Wetzig**, 2000. B.A., Bethel College, 1992. M.F.A., Brooklyn College, 1994.

**Scott Winter**, 2014. B.S., University of North Dakota, 1992. M.A., University of Nebraska, 2007. Ph.D., University of Nebraska, In process.

**Brandon Winters**, 2011. B.A., University of Minnesota, Morris, 2004. M.S., University of Minnesota, 2008. Ph.D., University of Minnesota, 2011.

**Amy Witt**, 2007. B.A., Concordia College, 1988. B.S., Spalding University, 1996. M.S. in Nursing Leadership and Management, Metropolitan State

University, 2007. Ph.D. candidate, University of North Dakota-Grand Forks.

**Catherine Wright**, 2001. B.A., Southern California College, 1989. M.A., Southern California College, 1993. Ph.D., Baylor University, 1999.

**Gretchen Wrobel**, 1988. Professor of Psychology. B.A., Hamline University, 1980. M.A., University of Minnesota, 1984. Ph.D., University of Minnesota, 1990.

**Richard Wyland**, Private Lesson Instructor in Clarinet.

## Y

**Dan Yim**, 2006. B.A., University of California, Irvine, 1993. M.A., Biola University, 1997. Ph.D., University of Southern California, 2003.

**Carole Young**, 1990. Professor of Psychology. B.A. in Psychology, Spring Arbor College, 1978. M.A., Arizona State University, 1983. Ph.D. in Experimental Psychology, Arizona State University, 1985.

## Z

**Samuel Zalanga**, 2000. B.S. in Sociology, Bayero University, Nigeria, 1986. M.S. in Sociology, Bayero University, Nigeria, 1989. M.S.C., University of Jos, Nigeria, 1994. Ph.D., University of Minnesota, 2000.

Biography: Samuel Zalanga's broad area of specialization is development studies and social change. He completed his doctoral studies at the University of Minnesota's Department of Sociology. The title of his dissertation was: "The Postcolonial State and the Development Agenda: A Comparative Study of the Role of Ruling Elites in Development Policy Formulation and Implementation in Malaysia and Nigeria." In doing this research, he lived in Kuala Lumpur, Malaysia for a period of time. Before moving to the United States in 1993 to pursue graduate studies, he lived and taught in Bauchi State, Northeastern Nigeria. He completed his Bachelor's and Master's degrees in Sociology at Bayero University, Kano, and University of Jos, respectively in Northern Nigeria. Statement of Calling as a Teacher My calling in teaching is informed by the desire to help students to effectively combine their vocation with an informed ability to make meaning out of their existential experience in the contemporary postmodern age. I do not believe that four years of university education as such can teach students all the knowledge, skills, and experiences that they need in order to live a productive, meaningful, and satisfying life in the future. Consequently, I stress the need for students to learn important conceptual principles that can be applied in a variety of challenging situations and social contexts that they will encounter throughout their lives, whether they decide to work or immediately pursue graduate studies. I work hard to create a relaxed and secure environment for students to express their concerns and ask questions freely without fear of being demonized as conservative or liberal. I detest indoctrination; instead I cherish rational exchange of ideas with full disclosure. In particular, I am inspired in my teaching by Paulo Freire's pedagogical method of dialogical education. I perceive the role of Christian liberal arts education as a very challenging one in the sense that if our students are going to be productive in the global community, they have to know what other students in non-Christian liberal arts university know. In addition, they need to develop the sophisticated ability to reflect on the implications of what they learn for their faith, for other people's faith, and for society at large. Consequently, I do not see our university as an intellectual ghetto where Christian students will be sheltered from the realities and complexities of mainstream American society and the global community at large. Rather, I see the university as a place where students will receive very rigorous, competitive, and challenging academic and professional preparation.

Truly, I see this as a more challenging goal than simply teaching in a regular liberal arts university because the role of faith in human existence in general runs through the whole gamut of our academic and professional programs. To totally banish faith or relegate it to a residual category in the process of education is to ignore a quintessential part of all human existential experience. One way or another, we have to come to terms with the role of faith, and its diverse expression and manifestation in any serious social scientific analysis of human society.

**Meg Zauner**, 1997. B.A., Bethel College, 1978. M.A., Moorhead State University, 1981. A.B.D., University of Minnesota.

Biography: Zauner has directed and/or choreographed for The Children's Theatre Company, Pangea World Theatre, Refreshment Committee Theatre Company, Valleyfair Live, Lakeshore Players, and Crown College to name a few.

**De Zhang**, 2007. B.A., Xiangtan University, China, 1985. M.A. in English (TESL/Applied Linguistics), Iowa State University, 2001. Ph.D. in Education, Iowa State University, 2007.

**Larry Zimmerman**, Adjunct Private Lesson Instructor in Low Brass. B.Mus.Ed., St. Olaf College, 1986. M.M., Trombone Performance, Boston University, 1989.

Biography: Zimmerman is a member of the Grammy-winning Chestnut Brass Company, and is principal trombonist of the Duluth-Superior Symphony Orchestra and the Minneapolis Pops Orchestra. He has performed around Minnesota with many ensembles, including the Minnesota Orchestra and St. Paul Chamber Orchestra. He also actively performs using period brass instruments, including Renaissance sackbuts and 19th Century saxhorns. He enjoys working as a soloist and chamber musician, and has recently presented programs of new music for trombone with piano, organ, tape, film, and other instruments. Larry lives in Minneapolis and also instructs at St. Olaf College, Gustavus Adolphus College, and the University of St. Thomas.

**Laura Zukanoff**, 2015. Adjunct Instructor in Modern World Languages. B.A. in French and Italian Studies, University of Minnesota, 2006. M.A. in Teaching, Bethel University, 2015.

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