



# BETHEL UNIVERSITY CATALOG

COLLEGE OF ARTS  
& SCIENCES

2018-2019



BETHEL  
UNIVERSITY

# COLLEGE OF ARTS & SCIENCES

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## Follow your passion. Discover your purpose.

Bethel's a place where we challenge each other and support each other. Where we're committed to spreading Christ's love and serving the people around us. Where we work side-by-side with brilliant professors on projects that reach far beyond the classroom. Where we have a lot of fun and make friends and memories to last a lifetime.

### College of Arts & Sciences

The College of Arts & Sciences (CAS) is Bethel's undergraduate college for over 2,500 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 members are 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.

## General Information

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

This academic catalog relates to academic programs and communicates academic requirements, policies, and procedures. The student handbook outlines university procedures and expectations of students.

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," 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, (FERPA). For a copy of Bethel policy, contact the Office of the Registrar.

## **Accreditation and Membership**

Bethel University has been continuously accredited by the Higher Learning Commission since 1959. This “regional accreditation,” recognized by the United States Department of Education, demonstrates that the university meets quality educational standards. 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 graduate levels) which can be reached at, One Dupont Circle NW 530, Washington, D.C. 20036-1120 or by phone at 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 Business Department is accredited by the Accreditation Council for Business Schools & Programs.

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 with the Minnesota Office of Higher Education pursuant to Minnesota Statutes 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. Bethel reserves the right to add a new program and related courses to this catalog after publication, upon approval from the related state and/or accrediting organizations. In this event, the new program and courses will be provided, with their effective terms, at, <https://www.bethel.edu/undergrad/academics/>.

While Bethel publishes program information and materials and assigns advisors, the student is ultimately responsible to ensure 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

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

## Fall Semester 2018

Residence halls open (new students)	August 23
Residence halls open, 9 a.m. (returning students)	August 24
Classes begin	August 27
Labor Day (no classes)	September 3
Last day to add/drop a first-half or full-term course	September 4
Last day to withdraw from a first-half course	October 5
Homecoming	October 5-7
Fall break	October 12
Family Weekend	October 19-21
Last day to add/drop a second-half course	October 24
Advising Day (no day classes; night classes are held)	October 31
Registration for Interim and Spring	November 6, 8, 12, 14
Last day to withdraw from a full-term course	November 16
Thanksgiving break begins (Tuesday night classes are held)	November 21
Classes resume	November 26
Festival of Christmas	November 29- December 1
Last day to withdraw from a second-half course	November 30
Last day of classes	December 7
Final examinations	December 10, 11, 13, & 14
Study day	December 12
Commencement	December 14
Residence halls close, noon	December 15

## Interim 2019

Residence halls open, noon	January 2
Classes begin	January 3
Last day to add/drop a course	January 4
Last day to withdraw from a course	January 18
Martin Luther King Jr. Day (no classes)	January 21
Last day of classes	January 25

## Spring Semester 2019

Classes begin	February 4
Last day to add/drop a first-half or full-term course	February 11
Last day to withdraw from a first-half course	March 15
Residence halls close, noon	March 16
Spring Break	March 18-22
Residence halls open, noon	March 24

*Academic Calendar 4*

Spring break ends/Classes resume	March 25
Last day to add/drop a second-half course	April 5
Registration for Summer and Fall classes	April 15, 17, 23, 25
Good Friday (no classes)	April 19
Monday after Easter (no classes)	April 22
Last day to withdraw from a full-term course	April 26
Last day to withdraw from a second-half course	May 10
Last day of classes	May 17
Final examinations	May 20, 21, 23, & 24
Study day	May 22
Senior Celebration	May 24
Commencement	May 25
Residence halls close for returning students, noon	May 25
Residence halls close for graduating seniors, 1 p.m.	May 26

**Summer School 2019**

Term A start date (Term end dates vary by course)	May 28
Term B start date (Term end dates vary by course)	June 19
Term C start date (Term end dates vary by course)	June 19

# Bethel University Schools

## Bethel University

Bethel University is a leader in Christ-centered higher education with approximately 5,200 students from 46 states and 24 countries enrolled in undergraduate, graduate, seminary, and adult education programs. Based in St. Paul, Minnesota, with an additional seminary location in San Diego, California, 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 over 2,500 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 90 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 members are 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.

## 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. Nearly 600 students are enrolled in the Twin Cities or online.

## Bethel Seminary

Founded in 1871, Bethel Seminary is among the 15 largest accredited seminaries in the U.S. with over 600 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.

## 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, and class schedules are convenient for working adults.

# Bethel University Commitments

## 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.

Rooted in faith. Committed to excellence. Bethel will become the leader in Christian higher education by building stronger communities, equipping confident leaders and gracious servants, and preparing passionate world-changers. Through our thoughts, words, and actions, we'll demonstrate what it means for a university to be centered on Jesus Christ.

## 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.



## *Becoming Whole and Holy Persons: A Covenant for Life Together at Bethel* 8

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.

- 1 Matthew 22:37–40  
2 John 14:15, 21  
3 Micah 6:8; Matthew 23:23–24  
4 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  
5 Colossians 3:5–8; 1 Corinthians 6:9–10. Employees will not practice, advocate, or affirm these and other biblically proscribed behaviors.  
6 Exodus 20:15; Romans 13:9; 1 Corinthians 13:5–6; 1 Peter 1:22  
7 Genesis 1:27; Ephesians 4:1–7, 15–16; James 2:1–13  
8 Romans 12:3–21; 1 Corinthians 12:12–31; Ephesians 4  
9 Romans 12:1–2; 1 Corinthians 6:14–15; 1 Timothy 4:8  
10 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  
11 Genesis 1:28–31  
12 Romans 14:1–23; 1 Corinthians 6:12, 10:23–24  
13 Ephesians 5:18  
14 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.  
15 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

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

### 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.

#### **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 that encourage the development of a global perspective, 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.

## **The R.E.A.L. Experience**

Relevant. Experiential. Applied. Learning. (R.E.A.L.) The R.E.A.L. Experience is about preparing students for life after Bethel. Beginning with a strong foundation in the liberal arts and moving into their major of choice, students are exposed to a wide variety of hands-on learning activities that equip them with the skills employers are looking for, giving them an edge in the job market and setting them up for success in a rapidly changing world.

In an employment landscape that is rapidly changing, students must be prepared to adapt what they have learned and apply it in new ways to solve problems in jobs that don't even exist yet. To do this, they need relevant, transferable skills like:

- artistic understanding and practice
- communication
- creativity and innovation
- critical thinking and complex problem solving
- data analysis, interpretation and application
- valuing different
- emotional intelligence
- ethical reasoning and decision making
- faith integration
- leadership
- teamwork and collaboration
- technological literacy

These are the skills that will help them continue to learn throughout life, making them more curious, more thoughtful, more open-minded, more culturally responsive, more interested in other people, more humble, and more comfortable with complexity and mystery.

For more information on The R.E.A.L. Experience visit the R.E.A.L. Experience website (<https://www.bethel.edu/undergrad/academics/real-experience/>).

# 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 will be referred to the vice president and dean of the College of Arts & Sciences. Students charged with a violation have the right to appeal any disciplinary action. Contact the Office of Academic Affairs for details on the appeal process. 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.

For more information on Academic Appeals Processes visit: <http://catalog.bethel.edu/arts-sciences/academic-information/academic-appeals/>

## Academic Honesty Violation 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. Example: using a cheat sheet on a quiz or exam.
2. Plagiarism - Using the ideas, data, or language of another without specific and proper acknowledgement. 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.
3. Fabrication - Submitting contrived or altered information in any academic exercise. Examples: making up data for an experiment; fudging data, citing nonexistent resources, or padding bibliography
4. Multiple submission - Submitting, without prior permission, any work submitted to fulfill another academic requirement. Example: submitting the same paper for two different classes.
5. Misrepresentation of academic records - Misrepresenting, tampering with, or attempting to tamper with any portion of a student's academic record, either before or after coming to Bethel University. Example: entering an unauthorized change to a grade.
6. Unfair advantage - Attempting to gain unauthorized advantage over fellow students in an academic exercise. Examples: gaining unauthorized access to examination materials (either past or present); obstructing or interfering with another student's efforts in an academic exercise; misrepresenting the need for an absence or extension; continuing an exam beyond the prescribed time limit; destroying, hiding, removing, or keeping academic resources.
7. Digital offenses - Unauthorized destruction, modification or duplication of digital assets. Examples: software piracy; hacking; constructing or utilizing viruses; knowingly introducing viruses into a system; copying programs and data belonging to others.
8. Facilitating academic dishonesty - Knowingly helping or attempting to help another violate any provision of this code. Example: unauthorized working together on a take home exam or other individual assignment; sharing exam content with someone who has not yet taken the exam.



# Academic Appeals

## Appeals of Academic Dismissal

Students who have been academically dismissed are notified by the Registrar. They may appeal the academic dismissal to the Academic Appeals Committee by submitting a written appeal to the Office of Academic Affairs. Students may choose to be present at a hearing for the purpose of responding to specific requests for information from committee members. Written notification of the committee's decision will be sent to students via their Bethel email address. Complete instructions and forms for the appeal process are sent by the Registrar when the students are notified of their dismissal; the appeals process complies with the Minnesota Statutes, section 122A.09, subdivision 4, paragraph (c).

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

Appeals related to grades and decisions of the registrar in applying academic policies to a course or requirements for a major or a minor should be made as soon as possible following the decision in question; the appeals process complies with the Minnesota Statutes, section 122A.09, subdivision 4, paragraph (c). 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.

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.

## Appeals of General Education Requirements

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 of Graduation Requirements and Other Academic Policies

Appeals related to graduation requirements and decisions of the registrar applying policies that are not related to a particular course or to a major or minor should be made as soon as possible after the registrar's decision; the appeals process complies with the Minnesota Statutes, section 122A.09, subdivision 4, paragraph (c). Students should use the form found on the registrar's website and submit the form to the vice president and dean.

## Appeals of Disciplinary Action Related to Academic Honesty

Students charged with a violation have the right to appeal any disciplinary action; the appeals process complies with the Minnesota Statutes, section 122A.09, subdivision 4, paragraph (c). 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.) 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 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.
7. Academic standing is determined upon initial submission of final grades for Fall and Spring semesters.
  - a. Students who have received a change in final grade or who have repeated a course may petition the Office of the Registrar to have their current academic standing reassessed.
  - b. Students who have completed Interim or Summer credits may petition the Office of the Registrar to have their current academic standing reassessed.

## 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 and Grades

### Accommodations Policy

Disability-related accommodations are determined by the Office of Disability Resources and Services (DRS). Students are responsible to contact the Office of Disability Resources and Services. Once DRS determines that accommodations are to be made, they will notify the student and the instructor via e-mail. Students choosing to use the disability-related accommodations must contact the instructor no later than five business days before accommodations are needed. The instructor will provide accommodations, but the student is required to initiate the process for the accommodations.

### Adding a Course

Students may add a course up through the add/drop date published for the term without consent from the Office of the Registrar.

### Attending Classes

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.

For information on dropping a course see "Dropping a Course" below. For information on withdrawing from a course, including Administrative Academic Withdrawal, see "Withdrawing From a Course" and "Withdrawal (Academic Administrative)" below.

### 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*.

## Course by Arrangement

In special circumstances (e.g. a course has not been offered the terms indicated in the catalog or on academic plans) students may request to take a course by arrangement. To be eligible to take a course by arrangement, a student must have a cumulative GPA of 3.25 or higher and have junior or senior standing. Only courses that are requirements for a major or minor can be taken by arrangement. A student may take only one course by arrangement while completing their undergraduate degree in the College of Arts and Sciences. A course by arrangement is graded on an A/F or S/U basis.

A completed course by arrangement form must be submitted to the Office of the Registrar by the add/drop day of the term in which the course is taken. The form must be approved by the Faculty Supervisor, Academic Advisor, the Department Chair of the department offering the course, and by the Registrar. If the course by arrangement is at an international site, the student must complete required activities in the Office of Off Campus Programs/International Studies office and obtain approval from the Associate Dean of Off Campus Programs. The Associate Dean of Off Campus Program's signature on the course by arrangement form indicates approval. For an international summer or fall course by arrangement, the deadline date for the submission of the completed form to the Office of the Registrar is March 1. For an international interim or spring course by arrangement, the deadline date for the submission of the completed form to the Office of the Registrar is November 1.

## Course Time/Conflict

If there is a partial overlap of time for two academic courses a student may request adjustments to one or both courses. The partial overlap must be less than half the scheduled time of either course and the course must be a requirement for a student's major or minor or for the Honors Program. Prior to the beginning of the term, students should complete a Course-Time/Conflict form available in the Office of the Registrar, discuss the situation with the instructors of both courses to arrive at a workable solution, and obtain the signature of both instructors. The completed form must be returned to the Office of the Registrar by the add/drop date for the term. If the time conflict is greater than 50% for either course, students can pursue a course by arrangement.

## Disenrollment from a Course

Students who do not meet requirements may be administratively dropped from future course(s) in a program at the request of the department chair.

## Dropping a Course

There are two ways for a student to have a course dropped.

### Administrative Drop

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.

### Student Initiated Drop

Students may drop a course up through the add/drop date published for the term without consent from the Office of the Registrar. Though not required, it is recommended that students consult their advisor before dropping a course. 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. (See also withdrawing from a course.)

### Dual Enrollment

Dual enrollment provides an opportunity for students enrolled in one Bethel school (CAS, CAPS, Seminary, or GS) to take specific courses in another Bethel school with a *guest* status. Students must consult their Academic Advisors in CAS or Student Success Advisors in CAPS, Seminary, or

## Course Policies and Grades 20

GS before undertaking the dual enrollment process. Requests are subject to approval by advisors, department chairs or program directors, and deans. Limitations may include prerequisites, available space, and program restrictions. Students are also limited to the number of courses for which they may dual enroll.

### Grades and 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	Failing	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	

### Grade Appeals, Course Concerns

Appeals related to grades and decisions of the registrar in applying academic policies to a course 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.

Concerns about course content and course 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.

### Grades for Music Components

For the sake of consistency among instructors, the grading of private lessons, performance groups, and artistic experiences (in all departments) will be graded as follows: credits will be assigned letter grades, non-credits are assigned grades on an S/U basis.

## Grade Replacement

When a student repeats a course the grade and credits for the earlier course are excluded from the student's GPA. If the repeated course is taken at Bethel, the new grade and credits are included in the GPA. If the repeated course is taken at a different institution, the new grade and credits are not included in the GPA. Grades for all courses remain on the student's transcript.

## 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.)

## Major/Minor Overlap

Students may not earn a minor in a program in which they are also receiving or have received a major, except where specifically noted in the catalog.

## 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.

## Registration Changes

### Full Term Course

Students may not add courses after the 6th day of the term (excluding weekends and holidays) without the consent of the Registrar. Courses added after the 6th day with the consent of the Registrar will be assessed the Late Registration/Late Course Change Fee. Courses dropped after the 6th day and through the end of the 12th week will be graded "W". No full term course may be dropped after the 12th week of class.

### Half Term Course

Students may not add a new course after the 6th day of the start of the half-term (excluding weekends) without the consent of the Registrar. Courses added after the 6th day of classes with the consent of the Registrar will be assessed the Late Registration/Late Course Change Fee. Courses dropped after the first and through the end of the 12th week will be graded "W". No half term course may be dropped after the 6th week of classes. Course registrations, drops and adds are official on the date written notice is received by the Office of the Registrar.

## 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.

## Withdrawing from a Course

The grade *W* is given to a student who officially drops a course after the add/drop day of the term. Though not required, it is recommended that students consult their advisor before withdrawing from a course. No course withdrawals are accepted after the 12th week of the term in fall or spring. (See also dropping a course.)

## Withdrawal (Academic Administrative)

Any student with no documented activity in a course (according to the course requirements) for a period of three weeks during fall or spring or one week during interim, where the last date of documented activity is prior to the course withdrawal deadline date, may be administratively withdrawn from the course.

Any student with no documented activity in all courses (according to the course requirements) for a period of three weeks during fall or spring, where the last date of documented activity is prior to the course withdrawal deadline date, may be administratively withdrawn from Bethel.

## Non-Z Companion Course

With approval of the instructor, students may fulfill the Cross-cultural (*Z*) Experience requirement through an independent cross-cultural experience connected to a non-*Z* companion course. This may be done during the academic year or during summer school. In addition to registering for the non-*Z* companion course students must also register for, and successfully complete, two half-credit courses designed to help them gain the most benefit from the experience as well as future cross-cultural experiences (GES 101 and GES 102Z). (See the chart below for terms when courses should be taken.)

A non-*Z* companion class is an already existing course that has not been approved as a *Z* course. But which includes some cross-cultural interaction as part of a required or optional assignment. (These courses do not have a *Z* as part of their course number.) The faculty member teaching the course must approve a student's request to use the course as a non-*Z* companion class, but will not be responsible for overseeing or evaluating *Z*-related activities and assignments beyond any assignments and activities already required for the class.

The chart below may help determine when to enroll in GES 101 and GES 102Z based on when a student participates in an independent cross-cultural experience through in conjunction with a non-*Z* companion course.

Experience	GES 101	GES 102Z
Summer	Preceding spring	Fall after
Fall	Fall or preceding spring	Spring after
Interim	Preceding fall	Spring after
Spring	Spring or preceding fall	Fall after

## 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 the General Education curriculum has been organized in four themes, each of these theme areas include a variety of courses designed to develop specific knowledge, skills, and values. The four themes 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 theme areas 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, P). 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 Science
G	Comparative Systems
J	Interpreting Biblical Themes
K	Science, Technology, and Society
L	Contemporary Western Life and Thought
M	Mathematics
P	Contemporary Christian Issues
Q	Leisure and Lifetime Sport
S	Second Language
U	World Cultures
Z	Cross-cultural Experience

### General Education Policies

1. All General Education courses must be approved through the normal curriculum review and approval process. No petitions to substitute a non-General Education Bethel course for a General Education requirement will be approved.
2. General Education courses, with the exception of Cross-cultural Experience (Z) courses, may not be taken as a Directed Study. General Education courses may be taken as a Course by Arrangement only when they meet all requirements in the policy on Course by Arrangement.
3. Students may not register for more than one Contemporary Christian Issues (P) course per semester. Students who have completed one Contemporary Christian Issues (P) course must obtain the consent of the instructor to take an additional course in this category.



# Themes of the General Education Curriculum

## Personal Development Theme

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 Wellbeing (GES140)

Explores the following dimensions that influence Wellbeing: Spiritual, Cognitive, Emotional, Physical, Relational, and Meaning. Examines the dynamic interconnection between the dimensions. Students integrate foundational knowledge, experiences, and strategies to become successful whole and holy individuals not only in college, but also throughout adult life.

#### TRANSFER INFORMATION:

Must be taken at Bethel. May not be transferred to Bethel.

### Inquiry Seminar (GES160)

While exploring a specific topic of interest, students develop and understand the meaning and value of a liberal arts education in the Christian tradition. The seminar promotes the establishment of community among students and with faculty, and broader connections in the university. The seminar provides students with instruction and practice in writing as well as in preparing and delivering oral presentations. Supplemental assignments and activities outside the traditional classroom are required.

#### TRANSFER INFORMATION:

#### Common Necessary Features

- Academic research and writing
- Practice of the writing process (i.e. planning, drafting, revision, editing)
- Research paper, including correct documentation, of 7 or more pages of text
- Planning and delivery of at least two oral presentations

Students may fulfill this requirement by certain transfer courses or exams, such as (AP, CLEP or IB) focused on college composition. The GES 160 Inquiry Seminar requirement may be fulfilled by certain transfer courses or exams, such as AP, CLEP, or IB focused on college composition or by a transfer course in college composition in combination with COM 110 Basic Communication or an equivalent course.

### Introduction to the Creative Arts (GES125)

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.

#### TRANSFER INFORMATION:

#### Common Necessary Features: *(minimum content & skills required for transfer courses)*

- Study of one or more art form(s)
- Skills in evaluating art work
- Vocabulary to communicate about art

**Transfer Course Level:** 100 or higher

**Transfer Course Credits:** 3 or more

**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.

**TRANSFER INFORMATION:**

May not be fulfilled by taking a lesson or participating in an activity that does not take place at an accredited college or university. Taking ski lessons at a resort, taking aerobics at the YMCA, etc. do not meet this requirement.

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Concentrated participation in sport or leisure activity that includes movement and physical activity
- Includes readings and exams
- Study of movement, sports rules, and statistics

**Transfer Course Level:** 100 or higher

**Transfer Course Credits:** ½ credit or more

**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.

**TRANSFER INFORMATION:**

Students have the option of fulfilling the requirement by participating in an artistic experience that is not at a college or university. This can only be done with prior approval of the General Education point person for the "A" category.

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Hands on artistic experience (dance, theatre, art, music)
- Planned, supervised, and evaluated by a faculty member
- Critique of art form

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 1 or more.

## **Biblical Foundations Theme**

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 (BIB101)**

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.

#### **TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- God's people from Abraham and Sarah through the New Testament church.
- God as seen in and communicated through various cultures and types of writing in the Old and New Testament.
- Introduction to historical context of the Bible.
- Introduction to theoretical context of the Bible.

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 2 or more.

**Residency Requirement:** At least one course in the Biblical Foundations Theme must be taken at Bethel.

### **Christian Theology (THE201)**

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.

#### **TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Study the essentials of Christian Theology.
- Theology is taught primarily from a systematic perspective.
- Unity and diversity of theological beliefs.

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 2 or more.

**Residency Requirement:** At least one course in the Biblical Foundations Theme must be taken at Bethel.

### **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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Study of a biblical theme.
- Development of hermeneutical task of moving from situation of world views of writer and reader, Hands-on experience writing a major exegesis paper which must 1) explain original meaning(s), 2) include a transition or "bridging" section in which the student reflects on the challenges of moving from the ancient culture to the contemporary (for example, does the text offer nothing, one-to-one relations, or abstract principles, etc.?), which 3) leads to responsible contemporary application(s) of the passage.

**Transfer Course Level:** 200 or higher.

**Transfer Course Credits:** 2 or more.

**Residency Requirement:** At least one course in the Biblical Foundations Theme must be taken at Bethel.

## Math, Science, and Technology Theme

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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Proportional thinking (ratios, percentages, decimals graphs and tables) that illustrate single variable problems and data analysis.
- Application of math knowledge and concepts to real world problems from more than one discipline.
- Development of problem solving skills.

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 2 or more.

### 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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Concepts and process of modern science focused on one discipline
- Relate discipline to modern life
- Apply methods in investigating, quantifying, and reasoning from scientific evidence
- Lab required

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 3 or more.

**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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Links science and technology with contemporary society.
- Focuses on technological issues.
- At least 1/3 of course addresses scientific and technological context.
- At least 1/3 of course integrates science with contemporary issues.
- Applies and reinforces at least one mathematical concept/skill.
- Gives attention to historical perspective.

**Transfer Course Level:** 200 or higher.

**Transfer Course Credits:** 2 or more.

## Global Perspectives Theme

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 (GES130)**

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.

**TRANSFER INFORMATION:**

Must be taken at Bethel, May not be transferred to Bethel.

**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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Students use language for communication.
- Learn aspects of culture(s).
- Understand grammatical structures at basic level (grammar is not the only focus).
- Equivalent of 2<sup>nd</sup> semester of first language at the college level (e.g. Elementary, Introductory, Beginning ...II/2) or a language course at a higher level.

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 3 or more.

**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., FRE 102S 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 or Spanish, should contact the language testing coordinator in the world languages and cultures 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.

**TRANSFER INFORMATION:**

Common Necessary Features: (minimum content & skills required for transfer courses)

- Contemporary American Life (last 200 years) (No more than 1/3 of course may be about historical periods prior to the 19<sup>th</sup> Century.)
- Study of influence of last 200 years on American culture today.
- Core emphasis of the course is the unique nature of the American experience.

**Transfer Course Level:** 100 or higher.

**Transfer Course Credits:** 2 or more.

**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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** (minimum content & skills required for transfer courses)

- Study of one cultural group.
- Cultural group, such as Asian, African, Latin American, Middle Eastern, or Native American, different from the dominant culture in US or Europe.
- Religious/philosophical, economic/political and sociocultural frameworks.
- Writings by and about the lives of people of the culture.

**Transfer Course Level:** 100 or higher

**Transfer Course Credits:** 2 or more

**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 (GES 101 and GES 102Z). Registration in GES 101 is required the semester before the experience. Approval of the experience takes place in GES 101. Registration in GES 102Z 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.

**TRANSFER INFORMATION:**

**Common Necessary Features:** (minimum content & skills required for transfer courses)

- Must be part of a credit bearing course. Regular transfer policies apply (e.g. grade of C or better, cannot be S/U.)
- Minimum 25 hours person to person (preferably one on one) with someone from another culture
- Develops awareness of one's own culture
- Identification of values, beliefs, behaviors of a culture different from their own
- Pre-experience preparation
- Guided reflection
- Method for understanding another culture
- Post-experience processing

Addition transfer information:

- Students may use a semester abroad program completed while attending Bethel or another accredited college or university.
- Students who have completed the YWAM's Discipleship Training School may use this experience to fulfill the Cross-cultural (Z) requirement.
- Students may not use a previous experience, such as a missions trip, that was not taken for credit at another accredited college or university for the Z requirement.
- Students may transfer in a college course they have taken that includes the elements above, passed with a grade of C or better, and for which they have received college credit.

### **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.

#### **TRANSFER INFORMATION:**

**Common Necessary Features:** *(minimum content & skills required for transfer courses)*

- Compares and contrasts societies or compares culture and subculture
- Writing demonstrating synthesis of perspectives

**Transfer Course Level:** 200 or higher

**Transfer Course Credits:** 2 or more

## **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 themes.

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

Courses offered in the CWILT (pronounced "quilt") option (i.e. Creative Arts, Western Culture, Inquiry Seminar, Contemporary Western Life and Thought (L) course, and Theology) are described in the Academic Programs section, under General Studies (GES 125, GES 130, and GES 160), Biblical and Theological Studies (THE 201), 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. Inquiry Seminar 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 (GES 145, GES 147, GES 244, GES 246).

#### **TRANSFER INFORMATION:**

Because of the integrated nature of the Humanities Program courses in the program it may not be transferred to Bethel without the permission of the Humanities Program Director.

## **General Education Capstone**

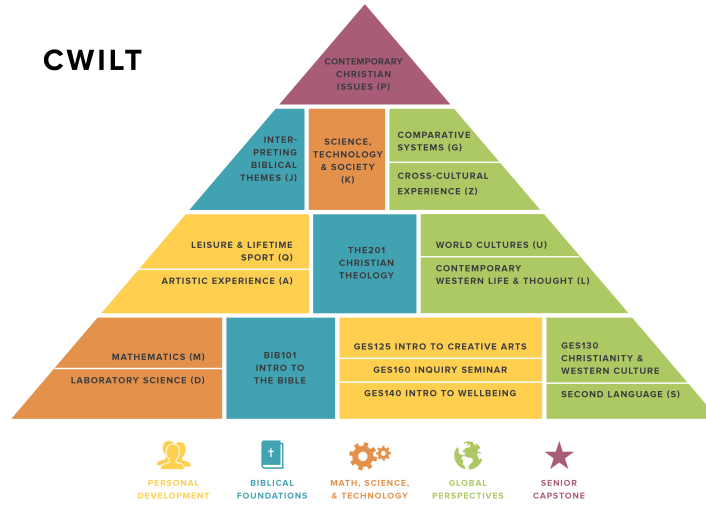
### **Contemporary Christian Issues - Category of Courses (P)**

This senior capstone course 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.

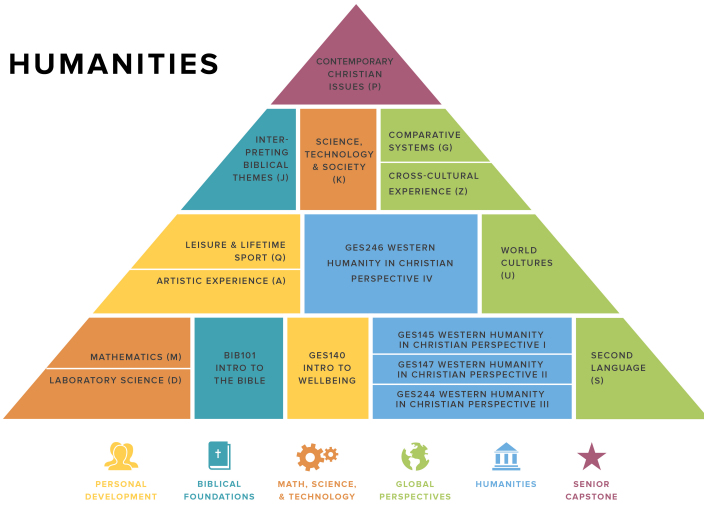
#### **TRANSFER INFORMATION:**

Must be taken at Bethel. May not be transferred to Bethel.

## Option 1 for General Education: CWILT



# Option 2 for General Education: The Humanities Program



## 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 with a Bachelors degree. These credit hours are distributed in the following way:

Major	30-86 semester credit hours
General Education	49-50 semester credit hours
Electives	0-43 semester credit hours

The requirements of the major affect the number of electives a student takes. Students in some majors may be required to take more than 122 credits. All students have the option to do so.

Students are required to meet the graduation requirements of the printed version of the catalog that is published for the academic year in which they enter Bethel. If new majors or minors are added to the curriculum after the publication of the printed version of the catalog, currently enrolled students must meet the requirements of that major or minor as it is first published. Currently enrolled students may choose to enroll in newly added majors and minors, and must meet the requirements of that major or minor as it is first published.

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. Students are responsible to assure that they have fulfilled graduation requirements and should use their degree evaluation to do so.

### 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 nine (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 and International Studies):
  - at least 28 of the last 35 credits,
  - at least half of the credits used to meet the requirements of the major,
  - GES 130 Christianity and Western Culture or GES 145 through GES 244 in the Humanities Program (must be taken at Bethel; cannot be brought in through any other programs),
  - a Contemporary Christian Issues (P) course (must be taken at Bethel; cannot be brought in through any other programs).
  - GES 140 Introduction to Wellbeing must be taken at Bethel except by students who are exempt from this requirement because of their entry level.
5. A minimum of three (3) semester credit hours in General Education Bible and theology courses.
6. A minimum of 37 credits at the upper-division level (300 and 400).
7. All General Education required courses and experiences listed on the General Education Entry Standing chart (p. 49) that are indicated by a "Yes" for their entry level.
8. Completion of interim courses as indicated on the General Education Entry/Transfer Level chart on the following pages (minimum of three (3) credits, maximum of five (5) credits per interim).
9. Completion of the requirements of a major (listed by department in this catalog).
10. Demonstration of basic competencies in:
  - *Writing*: One course is designated in each major, in addition to the required GES 160 Inquiry Seminar course and a writing emphasis in Contemporary Western Life and Thought (L) course, Comparative Systems (G) course, Interpreting Biblical Themes (J) course, and Contemporary Christian Issues (P) course.
  - *Speaking*: One upper-division course is designated in each major, in addition to required speaking assignments in the GES 160 Inquiry Seminar course, the Humanities Program, and Contemporary Christian Issues (P) 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. Students are encouraged to bring their laptops with them to campus.
11. 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.
12. Completion of any departmental and institutional assessment activities.
13. Upon completion of program, participation in commencement ceremonies is expected.

## Additional Baccalaureate Degree

An additional Bethel University Baccalaureate Degree (e.g. 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.)) may be awarded, upon request, when a student has met all requirements of the additional degree and earned, in residence, a minimum of twenty-seven (27) unduplicated Semester Credits from the department in which the additional degree is earned. Unduplicated semester credits are those that are not used to meet the requirements of any other Bethel University Baccalaureate Degree. Transfer students who hold a Baccalaureate Degree from another institution may earn a Bethel University Baccalaureate Degree if they meet all the requirements of the degree program including the general education requirement and the residency requirements.

## Double Majors

A student's degree (B.A., B.S., B.Mus., B.Mus.Ed., B.F.A.) may include more than one major as long as the student meets the requirements listed for each major. All majors will be indicated on the transcript regardless of any overlap in requirements. The senior seminar in both majors is required unless the student gets written approval from one of the departments to waive that seminar. Students should have an official advisor in one of the two majors, but they should regularly check with an advisor in the second major to make sure they are on track with that second major.

Students wishing to complete more than one degree (B.A., B.S., B.Mus, B.Mus.Ed., B.F.A.) should see the Additional Baccalaureate Degree section above.

## Commencement Ceremony Participation

Students who have not completed all required courses for graduation may participate in the commencement ceremony provided 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.

## 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 Wellbeing (GES 140)

Inquiry Seminar (GES 160) OR Western Humanity in Christian Perspective I-III (GES 145, GES 147, and GES 244)

Introduction to the Bible (BIB 101)

Christianity & Western Culture (GES 130) OR Western Humanity in Christian Perspective I-III (GES 145, GES 147, and GES 244)

Artistic Experience (A)

Mathematics course (M)

Laboratory Science course (D)

Introduction to the Creative Arts (GES 125) OR Western Humanity in Christian Perspective I-III (GES 145, GES 147, and GES 244)

World Cultures course (U)

Contemporary Western Life and Thought course (L) (prerequisite: GES 130 or GES 145 and GES 147) OR Western Humanity in Christian Perspective I-IV (GES 145, GES 147, GES 244, and GES 246)

Leisure and Lifetime Sports course (Q)

**Arts, Humanities, and Science: 5 credits**

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

**Electives: 29 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. GES 130 Christianity and Western Culture or GES 145 through GES 244 in the Humanities Program (must be taken at Bethel; cannot be brought in through any other programs).
7. All 100- and 200-level General Education required courses and experiences listed on the General Education Entry/Transfer Level (p. 49) chart that are indicated by a "Yes" for their entry level.
8. A minimum of 5 credits in humanities, social science, communication studies, natural sciences, or mathematics.
9. Elective credits as needed to complete the required 61 credits for the Associate of Arts degree.
10. Upon completion of program, participation in commencement ceremonies is expected.
11. 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 for particular courses apply.

## 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.

Bethel's policy on final exams is that every regular academic course must include a final exam or other final appropriate academic exercise within the final exam schedule. In lieu of a final exam which covers the entire course, the following have been declared to be appropriate academic exercises: a paper due at the time of the regularly scheduled final exam period; a unit test similar to others given during the term which covers only a part of the course; or a required class meeting or academic exercise during the regularly scheduled final exam period. Final exams should not be advanced into the last week of classes because this impacts negatively on student performance in other classes.

## 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 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 Standing level (p. 49) for the number of interims required.

Students are allowed to add/drop a class on or before the second interim class day. They will not be allowed to enroll in a different interim class if they drop a class after the second interim class day.

## Summer School

By taking courses in Bethel's Summer School, students may be able to take a lighter load during the academic year, make room for a study abroad program, or perhaps even graduate a little earlier. Courses are offered for many different majors and most General Education requirements can be met by taking summer school courses. Bethel conducts three 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. Summer school registration starts in April. Most courses are offered online.

## Honors

### Bachelor's Degree Honors

Honors at graduation for bachelor's degrees are awarded on the basis of a student's cumulative grade point average and are indicated on the transcript at the time the degree is awarded. The GPA used for the award of honors is truncated (not rounded) at the hundredths.

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

For commencement ceremonies, decisions concerning honors cords and honors annotations in the program are based on the GPA at the end of Interim for May commencement ceremonies and on the GPA at the end of the previous Summer term for December commencement ceremonies.

### 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.

The Pietas 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 Pietas Honors (p. 231) section of this catalog for specifics on this program. Students do not need to participate in the Pietas Honors Program to receive honors status at graduation.

## 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 or minor 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 be submitted to the registrar no later than one week before the beginning of the semester in which it is to take place. The policies below apply to all Directed Study courses:

1. The proposed study must embody significant academic purpose and content, equal in quality to a regular course, yet be of such a nature that it cannot be obtained within an existing course. The amount and distribution of work should be similar to that of a regularly offered course of comparable credit.
2. It may be used only for advanced course credit (482) in a student's major or minor field.
3. The student must be a junior or above and have demonstrated in departmental course work that he or she has the capability and background to study independently. The academic advisor's signature certifies this ability.
4. The student must have a cumulative GPA of 3.25 or higher.
5. A student may take only one Directed Study per term and no more than a total of two courses toward graduation. A faculty supervisor may direct no more than two Directed Studies per term.

The procedures to be followed in obtaining approval of a Directed Study proposal are:

1. The student obtains application form and instructions from the Office of the Registrar.
2. The student meets with the faculty member who will supervise the study, and they jointly prepare an agreement, listing the objectives of the study, its relationship to the student's overall program, the *specific content and procedures* of the study, the definition of student and faculty roles, and the product or response to be made by the student on which his or her learning will be evaluated. The number and frequency of regular contacts between the student and supervisor will be indicated. Students doing research off-campus will contact their supervisor by phone at regular intervals, at student expense.
3. This agreement is then approved by the student's academic advisor, if different from the supervisor of the study.
4. The agreement must also be approved by the Chair of the department offering the study. The student then submits the completed and signed application to the Office of the Registrar no later than one week before the beginning of the term in which it is to take place, with the exception of international directed studies.
5. If the directed study is at an international site, the student must complete required activities in the Office of Off Campus Programs/International Studies office and obtain approval from the Associate Dean of Off-Campus Programs. The Associate Dean of Off Campus Programs's signature on the directed study, or course by arrangement form indicates approval. For an international interim or spring Directed Study, the deadline for submission of the completed form is

November 1. For a fall international Directed Study, the deadline for submission of the completed form is March 1.

6. The approval of the Registrar validates the agreement.
7. Should the student wish to appeal a rejection by the Registrar, the proposed agreement will be reviewed by the appropriate Divisional Affairs Committee (DAC).

Upon fulfilling the agreement, the student receives credit on the transcript for the course as titled. A copy of the agreement will be placed in his or her permanent file. Directed Studies are graded on an A/F basis, not S/U.

## Individualized Major

Students may choose to develop an individualized major designed to meet their 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 students' junior year. Students wishing to consider such a possibility, must discuss it with their academic advisor. Any such programs must meet all of the following conditions:

1. The proposal must contain a block of 48-60 credits chosen according to a coherent organizing principle based on the student's needs and interests. That principle must differ significantly from those underlying standard majors. The proposal must make a clear, explicit, and convincing case for the theoretical and/or practical interconnectedness between the departmental disciplines. It is recommended that proposals also specify why, on balance, it is worth sacrificing more depth in each discipline in order to gain the particular individualized perspective proposed.
2. When two disciplines or fields are included, the proposal must show why the need met by the proposed individualized major cannot be met by any other single major, double major (two stand-alone majors), or multi-disciplinary major.
3. The proposal must contain junior level (300) courses from at least two standard disciplines or fields. In at least one of these disciplines or fields, work at the senior level (400) must be selected.
4. The proposed major must show how all other requirements for majors are met (e.g., the speaking, writing, and computing competencies). The requirements of the major must include the required upper division hours.
5. The proposal must include a culminating experience at the senior level (400), focused upon the organizing principles of the major and in the form of a senior seminar, internship, or directed study.
6. All general education provisions of the curriculum must be observed. No more than three (3) courses may be used in the major and to fulfill a general education requirement.

*The following procedures shall be observed in preparing and obtaining approval for Individualized Majors:*

1. The student obtains application forms and instructions in the Office of the Registrar or on their web site.
2. The student and the advisor shall jointly prepare an application, expressing the organizing principle and listing the courses that will make up the major. The student should have an advisor from each department from which they are taking 9 or more credits toward their individualized major program.
3. If nine (9) or more credits are to be taken from any single department, the chairperson of that department must approve the proposal.
4. A review committee composed of three faculty, the Registrar, and the divisional dean in the area of the first advisor will evaluate the proposal. The divisional dean is responsible for forming this committee and calling the meeting. (If the proposal follows a previously approved program, the Registrar will approve it and place it on file.)

5. The student submits the application with two additional photocopies to the Office of the Registrar. All proposals must be submitted and approved by the end of the first regular semester of the student's junior year. When the proposal has been approved, one copy will be filed in the Office of the Registrar, one copy will be sent the student, and one to the advisor.
6. Programs that are rejected may be, upon appeal, reviewed by the appropriate Divisional Affairs Committee.
7. An approved program may subsequently be amended with the approval of the student's advisor(s) and the Registrar.

## Internships

An academic internship is a learning/practicing experience, preferably taken in an off-campus setting, in which students explore and/or apply a body of knowledge and skill in a structured non-classroom setting. It can take place in many settings and may make use of almost every knowledge and skill area in Bethel's curriculum. Credit is available through some departments to qualified students in their majors. Inquiries should be directed to department chairpersons. The internship may be part-time or full-time and may be salaried or non-salaried. Routine jobs or work which repeats previous experience do not qualify for an academic-credit internship. The work must provide an opportunity to meet academic/educational objectives.

An acceptable internship is one that expects students to: explore career aspirations and make a deliberate application of their academic knowledge and skills; continue to learn as stimulated by the problems and issues encountered; grow in their personal maturity and confidence in one's abilities; and develop empathy with and understanding of persons, groups, and settings typically not encountered on campus. An internship must embody significant academic purpose and content, equal in quality to a regular course, yet be of such a nature that it cannot be obtained within the existing course structure.

Students may register for an internship in either a course-based internship through an academic department or as an individual internship. An internship is conducted under joint supervision of a Bethel faculty member and an on-site supervisor. Both parties agree on the specific objectives by the end of the first 1/3 of the term of the internship. Both parties stay in touch during the internship, if required, and at the end of the internship experience. There should be a plan for on-going processing of the experience (log, weekly meetings, etc.). If the internship is completed as an individual internship, it is expected that the Bethel Faculty supervisor will interact at least bi-weekly with the student.

If the internship is to be completed in the context of a course, students must register for the internship course through the standard registration process. To remain enrolled in the internship class, all required paperwork is due to the faculty member no later than:

- October 1 for fall term internships
- The interim add/drop deadline for interim internships.
- March 1 for spring term internships.
- June 15 for summer term internships.

*\*A faculty member may set an earlier deadline in her/his course.*

If the internship is at an international site, students must complete required activities in the Office of Off Campus Programs/International Studies office and obtain approval from the Associate Dean of Off Campus Programs. The Associate Dean of Off Campus Programs signature on the internship form indicates approval.

Application for Internship due in the Office of the Registrar:

	Local	International
Fall Internship	October 1	March 1
Interim Internship	Add/Drop Date	November 1
Spring Internship	March 1	November 1
Summer Internship	June 15	March 1

Requirements for students: The student must meet the following criteria:

- Declared major or minor in the department of the internship being proposed;
- Junior or senior standing.
- Minimum of 10 credit hours completed in the department;
- Minimum cumulative GPA of 2.00 and a 2.25 GPA in the major (individual departments may require a higher GPA)
- Meet additional criteria as established by each department.

Requirements for course:

- An internship may be from 1 to 4 credits.
- Each internship credit requires a minimum of 45 on site hours at the internship site. (3 credits = 135 hours, 4 credits - 180 hours)
- A maximum of 9 credits in internships may be taken within the 122 credits required for graduation.
- Each separate internship must have goals and objectives different than the prior ones taken for credit.
- Internships are graded S/U (See Grading).
- These policies identify minimum university-wide requirements. Departments may choose to supplement this with additional requirements.

## 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, the Office of Academic Affairs, and the Business Office. Students readmitted after being academically dismissed will be provisionally readmitted.

## **Post Secondary Enrollment Options (PSEO)**

The Postsecondary Enrollment Options (PSEO) program is a Minnesota State program allowing high school students to enroll in courses at local cooperating colleges and universities. Through the program, students do not have to pay for college tuition, textbooks, or support services, and cooperating postsecondary institutions receive partial expense reimbursement from the State of Minnesota.

Each year, Bethel admits a limited number of high school seniors through the PSEO program. PSEO students enrolled at Bethel must follow the policies and guidelines outlined below until graduating from high school. Bethel does not necessarily seek state reimbursement for all courses that PSEO students are taking.

### **Advising**

PSEO students are assigned an academic advisor in the department of a major in which they may be interested. While Bethel works with students and their high school counselors to ensure that courses taken at Bethel meet high school graduation requirements, responsibility for completing those requirements rests on the student.

### **General Requirements and Policies for PSEO Student Registration**

Within the limits and exceptions outlined below, students can take 100-level and 200-level classes for which they have met the prerequisites. Students can be registered for no more than 16 credits in a semester and no more than 4 credits in interim.

### **Required Courses**

PSEO students are required to complete at least one of the following courses during their first academic year in the PSEO program at Bethel: GES 140 Introduction to Wellbeing, GES 145 Western Humanity I, GES 160 Inquiry Seminar, or HON 160 Pietas Seminar I.

### Excluded Courses

Students cannot be registered for courses that focus on the Bible or Theological issues (courses with the prefix BIB, THE, or MIN). PSEO students cannot be registered for sports courses that have fees of \$30 or greater.

### Additional Notes

A limited number of online courses are available to PSEO students. General Education Entry Standing is determined at the beginning of the PSEO year and cannot be changed by earning additional credits if the student continues beyond the Bethel PSEO year.

For some courses, Bethel does not receive reimbursement from the state, but students may be registered while they are a PSEO student at Bethel. These courses are listed below.

Code	Title	Credits
GES 130	Christianity & Western Culture	
GES 145	Humanities I: Greco-Roman through Middle Ages	
GES 147	Humanities II: Renaissance and Reformation	
GES 244	Humanities III: European Enlightenment and American Culture to 1877	
GES 246	Humanities IV: Modern and Contemporary Western Culture	
HEB 101	Introductory Biblical Hebrew I	
GRK 101	Introductory Biblical Greek I	
HIS 217UZ	Hispanic Christianity	
PHI 105	Meaning, Persons, and God	
POS 230L	Politics and Religion in the United States	
REL 205U	Religions of India, China and Japan	

### Tuition

Students do not pay tuition nor academic fees, with the exception of music lessons or trip expenses.

### Summer Courses

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.

## 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

For information on military benefits visit [www.bethel.edu/undergrad/financial-aid/types/military-benefits](http://www.bethel.edu/undergrad/financial-aid/types/military-benefits).

## Student Load

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, complete a petition explaining 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.

## Transferring Credits

Bethel welcomes transfer students from regionally accredited colleges and universities, both public and private and both two-year and four-year universities. To recognize the academic work completed elsewhere Bethel has developed entry standings based on the number of credits completed prior to entering Bethel. Students at the various standing levels, students who have completed the Minnesota Transfer Curriculum, or students who have completed an Associate of Arts or Bachelors degree are exempt from some General Education requirements. For more information see the Entry Standing Tables.

### Transfer Evaluation System (TES)

The Transfer Evaluation System (TES) can be used by transfer students, other students entering Bethel with college credits, and current Bethel students who wish to take some courses elsewhere so that they see how courses taken at another institution will transfer to Bethel. Courses not found in TES will be reviewed by the Office of the Registrar in consultation with the faculty. For incoming students, transfer credit evaluations are valid for the student's anticipated semester of enrollment and the following semester. If enrollment is deferred for additional semesters, transfer work must be re-evaluated

### Transfer Policies

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. Unless there is an approved articulation agreement with the ABHE school, no more than 12 credits may be transferred to Bethel. Credits transferred from ABHE schools are limited to bible or theology courses and these courses are brought in as no more than twelve 100-level elective credits in biblical studies.
- b. Bethel enters into articulation agreements with ABHE schools after review by the registrar, the VP and Dean , and the General Education committee for general education courses or the Department Chair for departmental courses.
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. For satisfactory or passing grades on other schools' transcripts that are not defined as equivalent to a C or higher, transfer credits will be awarded for the class if the instructor of record submits a letter on letterhead that indicates the student earned the equivalent letter grade of a C or higher. The transfer credits could be awarded as elective, general education, major, or minor credits, depending on the equivalency of the course. The student is responsible to arrange for the course instructor to send documentation to the Registrar's Office. .
5. Audited courses are not accepted for transfer to Bethel.
6. 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.
7. Grades earned in transfer courses are not included in calculating the cumulative GPA or the GPA for the major at Bethel.
8. Official transcripts from the college, university, or institution offering the transfer course are required.
9. 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.
10. 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.)
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 Register.



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.
16. Articulation agreements may include exceptions to transfer credit, course requirement, and degree requirement policies.

## 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 Inquiry Seminar 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. may be eligible to receive credit for some first-year courses.

# General Education Entry Standing

## Entry Standing Level

The Entry Standing:

- Determines which General Education requirements a student must fulfill and the number of interims that must be completed
- Is assigned at the time of entry to Bethel
- Is assigned at the beginning of the Postsecondary Enrollment Options, (PSEO) year for students participating in the PSEO program
- 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 college or university and did not complete any courses at Bethel.

In 2017, Bethel updated the General Education program to require all students take GES 140 Introduction to Wellbeing and GES 160 Inquiry Seminar. As such all incoming Freshmen and transfer students are required, based on their entry standing level, to successfully complete these two courses to earn their degree.

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.

### Helpful Notes:

- Entries of 'Yes' mean students must take the course to complete their chosen degree
- Entries of 'No' mean students are exempt from taking the course to complete their chosen degree
- Students can meet the GES 125, GES 130, GES 160, THE 201, and L course requirement through the Humanities program, (courses: Ges 145, GES 147, GES 244, and GES 246)
- Until Fall of 2019, students who complete a course equivalent to PEA 100 prior to entering Bethel may use that course to meet the GES 140 course requirement.

General Education Requirements by Entry Standing 2018-2019	2 0-25 Credits	3 26-43 Credits	4 44-57 Credits	5 58-89 Credits	6 90+ Credits	Completed MNTC	Completed AA, BA, or BS
<b>Personal Development</b>							
GES125 Introduction to the Creative Arts	Yes	Yes	Yes	Yes	Yes	No	No
Artistic Experience (A)	Yes	Yes	Yes	Yes	No	No	No
GES160 Inquiry Seminar**	Yes	Yes	Yes	Yes	Yes	No	No
GES140 Introduction to Wellbeing*	Yes	Yes or PEA100	Yes or PEA100	No	No	Yes	No
Leisure and Lifetime Sport (Q)	Yes	Yes	Yes	Yes	Yes	No	No
<b>Biblical Foundations</b>							
BIB101 Introduction to the Bible	Yes	Choose 2: One must be at Bethel	Choose 2: One must be at Bethel	Choose 1: Must be at Bethel	Choose 1: Must be at Bethel	Choose 2: One must be at Bethel	Choose 1: Must be at Bethel
THE201 Christian Theology	Yes						
Interpreting Biblical Themes (J)	Yes						
<b>Math, Science, and Technology</b>							
Mathematics (M)	Yes	Yes	Yes	Yes	Yes	No	No
Laboratory Science (D)	Yes	Yes	Yes	Yes	Yes	No	No
Science, Technology, and Society (K)	Yes	Yes	Yes	No	No	Yes	No
<b>Global Perspectives</b>							
GES130 Christianity and Western Culture*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contemporary Western Life and Thought (L)	Yes	Yes	Choose L or G	No	No	No	No
Comparative Systems (G)	Yes	Yes		No	Choose 1: G, S, U, Z	No	No
Second Language (S)	Yes	Yes	Yes	No		No	
World Cultures (U)	Yes	Yes	No	No		No	
Cross-cultural Experience (Z)	Yes	Yes	Yes	Yes		Yes	Yes
<b>Senior Capstone</b>							
Contemporary Christian Issues (P) *	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Other Requirements</b>							
Interims that must be completed at Bethel	3	2	2	1	0	2	1

Yes = Students must take course

No = Student is exempt from taking course

\* Must be taken at Bethel.

\*\* The GES 160 Inquiry Seminar requirement may be fulfilled by certain transfer courses or exams, such as (AP, CLEP, or IB) focused on college composition.

General Education Requirements by Entry Standing 2019	Freshman 0-30 credits	Sophomore 1 30-44 credits	Sophomore 2 45-59 credits	Junior 60-89 credits	Senior 90+ credits	Completed MNTC	Completed AA, BA, or BS
<b>Personal Development</b>							
GES125 Introduction to the Creative Arts	Yes	Yes	Yes	Yes	Yes	No	No
Artistic Experience (A)	Yes	Yes	Yes	Yes	No	No	No
GES160 Inquiry Seminar**	Yes	Yes	Yes	Yes	Yes	No	No
GES140 Introduction to Wellbeing*	Yes	Yes	Yes	No	No	Yes	No
Leisure and Lifetime Sport (Q)	Yes	Yes	Yes	Yes	Yes	No	No
<b>Biblical Foundations</b>							
BIB101 Introduction to the Bible	Yes	Choose 2: One must be at Bethel	Choose 2: One must be at Bethel	Choose 1: Must be at Bethel	Choose 1: Must be at Bethel	Choose 2: One must be at Bethel	Choose 1: Must be at Bethel
THE201 Christian Theology	Yes						
Interpreting Biblical Themes (J)	Yes						
<b>Math, Science, and Technology</b>							
Mathematics (M)	Yes	Yes	Yes	Yes	Yes	No	No
Laboratory Science (D)	Yes	Yes	Yes	Yes	Yes	No	No
Science, Technology, and Society (K)	Yes	Yes	Yes	No	No	Yes	No
<b>Global Perspectives</b>							
GES130 Christianity and Western Culture*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Contemporary Western Life and Thought (L)	Yes	Yes	Choose L or G	No	No	No	No
Comparative Systems (G)	Yes	Yes		No	Choose 1: G, S, U, Z	No	No
Second Language (S)	Yes	Yes	Yes	No		No	No
World Cultures (U)	Yes	Yes	No	No		No	No
Cross-cultural Experience (Z)	Yes	Yes	Yes	Yes		Yes	Yes
<b>Senior Capstone</b>							
Contemporary Christian Issues (P)*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Other Requirements</b>							
Interims that must be completed at Bethel	3	3	2	1	0	2	1

Yes = Students must take course

No = Student is exempt from taking course

\*Must be taken at Bethel

\*\*The GES 160 Inquiry Seminar requirement may be fulfilled by certain transfer courses or exams, such as AP, CLEP, or IB focused on college composition or by a transfer course in college composition in combination with COM 110 Basic Communication or an equivalent course.

# The Family Educational Rights and Privacy Act (FERPA)

## PURPOSE AND APPLICABILITY

The Family Educational Rights and Privacy Act of 1974 (FERPA), as amended, (“The Act”) 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 on the first day of attendance, and former students.

The Act does not apply to individuals who have applied for admission but never attended Bethel University or applicants for admission who are denied enrollment.

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; Bethel will decide on a case by case basis what records of deceased students can be released and to whom they will be released.

## DEFINITIONS

Eligible Student: A student who has reached 18 years of age or is attending an institution of postsecondary education.

School Official:

- 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, such as auditors, attorneys, or the National Student Clearinghouse.
- A person serving on the Board of Trustees.
- A student serving in an official committee or assisting another University official in performing his or her tasks.

Education Records: Records that directly relate to a student and are maintained by an educational institution.

Education records may include:

- class lists;
- grade rosters;
- student schedules;
- correspondence; and
- data in an electronic database.

Education records do NOT include:

- records about students made by instructors, professors, and administrators for their own use and not shown to others (sole possession records);
- Office of Security and Safety records maintained solely for law enforcement purposes and kept separate from the education records described above;

- employment records, except where a currently enrolled student is employed as a result of his or her status as a student;
- records of a physician, psychologist, or other recognized professional made or used only for treatment purposes and available only to persons providing treatment (while not education records, these records are subject to FERPA);
- records that contain only information relating to a person's activities after that person is no longer a student at the University;
- financial information submitted by parents(s)/guardian(s);
- directory information not restricted by the student; and
- 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 such a waiver at a later time, but the revocation must be in writing and is only effective with respect to actions occurring after the revocation.

**Personally Identifiable Information:** All information that is directly related to a student. This information includes both "directory information" and "non-directory information."

**Directory Information:** Information contained in a record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. At Bethel University, directory information includes:

- student's name;
- home and local address;
- home and local telephone listing;
- personal and campus electronic mail address;
- photograph or digital image;
- date and place of birth;
- major field of study;
- grade level (freshman, sophomore, etc.);
- 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;
- most recent educational agency or institution attended; and
- Bethel Community Account username, which is used by the student for purposes of accessing or communicating in electronic systems, since this 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.

**Non-Directory Information:** Any personally identifiable student information that is not directory information. At Bethel University, non-directory information includes, but is not limited to, a student's Social Security number or student identification (ID) number.

**Legitimate Educational Interest:** An educationally related purpose, which has a directly identifiable educational relationship to the student involved and underlies a request for the disclosure of education records.

## **STUDENT RIGHTS**

## *The Family Educational Rights and Privacy Act (FERPA) 54*

Currently enrolled and former students have the right to:

- inspect and review information contained in education records within 45 days after Bethel receives a request for access;
- request the amendment of the student's education records that a student believes is inaccurate, misleading, or otherwise in violation of the student's privacy or other rights;
- consent to disclosure, subject to certain exceptions specified in The Act, of personally identifiable information from education records; and
- file a complaint with the Department of Education concerning an alleged failure by Bethel to comply with The Act.

### **Procedure for Inspecting Records**

Students must request permission in writing to inspect their records and must present that request to the Registrar's Office, who will coordinate the inspection of records.

- The records will be made available to the student for inspection not more than 45 days following the receipt of the request.
- A Bethel employee must be present while the student inspects his or her records.
- 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 may be required to 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.

A student may inspect records 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.

### **Procedure for Requesting the Amendment of Records**

With the exception of grades or disciplinary actions, 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, clearly identify the part of the record the student wants changed, and submit the request to the appropriate University official in whose office the record in question is located.
- If Bethel decides not to amend the record as requested, Bethel will notify the student in writing that he or she may make a written request to that official for a hearing to contest the record.
- A hearing will be conducted within 30 days of the written request (or as soon thereafter as is practical) 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 practical) 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, he or she may place a statement in his or her educational record giving the reasons for disagreeing with the decision.

NOTE: An appeal of grades or disciplinary action should follow the processes outlined in the student handbook and/or academic catalog.

### **Procedure to Request Withholding of Directory Information**

- In the fall semester, before the printed roster is published, students will be notified about the opportunity to request that Directory Information be withheld.

- The request can be completed at any time; however, if the printed roster has been published for the academic year, the student's Directory Information cannot be removed from the printed roster.
- Students may request to withhold disclosure of Directory Information by completing a form online or in the Registrar's Office.
- Bethel will 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. Bethel cannot assume the responsibility to contact the student for subsequent permission to release Directory Information. Regardless of the effect upon the student, Bethel assumes no liability for honoring an instruction to restrict/withhold Directory Information.
- A student who is no longer enrolled cannot request that Directory Information be withheld. A student who is no longer enrolled can rescind their request to withhold Directory Information.

### **PARENT RIGHTS**

The Act generally does not guarantee any rights to parents or guardians of students who are attending post-secondary institutions.

However, at Bethel's discretion, The Act does allow Bethel to provide parents with access to their student's educational records provided the parents claim the student as a dependent 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, at Bethel's discretion, Bethel may disclose information in the student's education records without the student's consent.

As a matter of general practice, Bethel does not release student education records to parents of dependent students without the student's written authorization. Bethel does provide all students with the ability to give parents and other third parties online proxy access to their education records.

### **OFFICES THAT MAINTAIN RECORDS**

For information about records, contact the Registrar's office, or the office in which the records are maintained. Types of records maintained by Bethel University are as follows:

- 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.
- Office of Financial Aid—Financial aid applications, records of financial aid awarded, and related documents.
- Business Office—Records related to charges, payments, emergency contact information, and Perkins loans for educational services rendered by Bethel.
- Office of Career Development and Calling—Placement data completed by the student, resumés, information on courses taken toward degree, letters of recommendation from faculty and/or employers
- 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.
- Health Services—Student medical forms, copies of athletic physicals, and records of medical services rendered to the student through the university.
- 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.
- Office of Development—Personal data on alumni of the university and records of financial giving.
- Faculty Advisors—Notes from advising sessions; copies of various communications to and from advisee, faculty, and other offices; and related advising material.



## **DISCLOSURE OF EDUCATION RECORDS**

### **Conditions Under Which Directory Information May Be Released**

Directory Information may be released at the discretion of University officials without the written permission of the student, unless the student has requested that directory information be withheld. If the student has requested that directory information be withheld, the information will not be released without their written consent.

### **Conditions Under Which Directory and Non-Directory Information May Be Released**

Directory and Non-Directory Information may 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.
- 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 related to those programs.
- Bethel University personnel or other school officials who have a legitimate educational interest in the records. This category includes a person or organization retained to be an agent for, or under contract with, Bethel University, such as financial auditors, attorneys, or 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.
- 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.
- 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 (that is, students who are claimed as dependents on their parents'/ guardians' most recent federal tax return). However, as a matter of general practice, Bethel does not release student education records to parents of dependent students without the student's written authorization. Instead, Bethel provides all students with the ability to give parents and other third parties online proxy access to their education records.
- 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. 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.

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.

### **Conditions Under Which Education Records Will Not Be Released**

Unless otherwise required by law, Bethel University official 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.

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

#### **Criteria Used to Determine the Legitimate Educational Interest of School Officials**

The following criteria shall be taken into account in determining whether a school official has a legitimate educational interest in the disclosure of student education records:

- 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;

#### **OTHER FACULTY AND STAFF RESPONSIBILITIES**

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

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; and
- 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.

#### **ENFORCEMENT**

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.

Further information concerning The Family Educational Rights and Privacy Act is available at [www.ed.gov](http://www.ed.gov).

## Off-Campus Programs

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.

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, either short-term or for a semester.

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.

## International Programs

Please contact the Office of Off-Campus Programs/International Studies for more information regarding program options, eligibility, application processes and billing policies. The programs listed in the catalog are a sampling of offerings and locations, not an exhaustive list.

## Semester Programs

To participate in a semester program, students must have at least sophomore status (second year or minimum of 30 credits). Seniors interested in a semester abroad must participate in a program meeting the Bethel residency requirement or receive special permission to pursue admission to a different program. Bethel requires a minimum 2.5 grade point average, with some programs having higher requirements. With the exception of Daystar Term and LCC International University, the programs described in the catalog offer courses that will count toward the Bethel GPA as they would during a semester on-campus. Students must complete the approval process through the Office of Off-Campus Programs/International Studies.

### Daystar Term (Bethel program)

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. Courses taught in English by African nationals may be brought in as transfer credits. Open to all majors.

### England Term (Bethel program)

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. Students complete the Z-tag cross-cultural component and take courses in literature, drama, and travel writing.

### **Europe Term: Communication (Bethel program)**

Europe Term is a semester-long study experience (fall of odd-numbered years) based in Austria with significant study travel to numerous European countries (often Italy, Germany, France, Ireland, and Poland). 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 14 credits and complete the Cross-cultural Experience (Z), Comparative Systems (G) and Science, Technology, and Society (K) requirements of Bethel's General Education curriculum.

### **Guatemala Term (Bethel program)**

Every spring Bethel University offers an academic and service program in Antigua, Guatemala. The 14-credit program emphasizes an integration of academic study, Christian service, and cross-cultural interaction. Students take 8 credits of Spanish language, studying one-on-one with tutors from the *Centro Linguista Maya* in Antigua. They take a local development course and also participate in a 3-credit practicum experience, working side-by-side with Guatemalans who have expertise in education, social work, medicine, appropriate technology, and economic development. This program is a good fit for students with an introductory level of Spanish interested in applying their field of study to international Christian service.

### **Spain Term (Bethel program)**

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 the equivalent of two years of college-level Spanish courses or the equivalent.

### **Australia Studies Centre**

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.

### **Latin American Studies Program**

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 three concentrations: Latin American Studies; Advanced Language and Literature; and International Business and Management). Students in all tracks typically enroll in 16-18 semester hours of credit.

### **Middle East Studies Program**

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 15-18 semester hours of credit.

### **Scholars' Semester in Oxford**

Honors and other highly qualified students have the opportunity to study in England through an interdisciplinary semester at one of the colleges of 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.

### **Uganda Studies Program**

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 Mukono and have the opportunity for a two-week homestay with an African family. Students can complete a specialized Social Work or Global Health track or do the General Studies program, as well as participate in ongoing service projects during the semester.

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

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 transfer credit.

## **Other International Study Opportunities**

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

### **Approved Semester Provider Programs**

The Office of Off-Campus Programs/International Studies maintains a list of approved organizations assisting students in their study abroad endeavors. Typically open to sophomores and juniors, these programs provide options in numerous locations and disciplines. Students can stay enrolled at Bethel and utilize most forms of financial aid while participating in an approved provider program.

### **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. Open to any undergraduate students, assuming prerequisites are met.

## Outside Interim 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 meet Bethel's minimum standards (minimum 2.2 grade point average and clear disciplinary record) and complete the Office of Off-Campus Programs/International Studies approval process as well as the application process of their chosen program including petitioning the coursework for transfer credit.

## Summer Programs

All students must have a minimum 2.2 grade point average (or higher, depending on the program) and complete the standard study abroad approval process. Seniors must meet residency requirements. Contact the Office of Off-Campus Programs/International Studies for a complete list of summer options.

### Oxford Summer Programme

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.

## Enrollment Requirements for Students

All students participating in Bethel University's off-campus programs must register for the course(s) for academic credit. Students on non-Bethel programs will bring in their courses as transfer credits and must receive a grade of C in a course for Bethel to accept the credit. Students participating in Bethel University-run programs can expect their credits and grades to impact their Bethel GPA, with Daystar Term being an exception. Students on non-Bethel programs will typically bring in their courses as transfer credits and must receive a grade of C in a course for Bethel to accept the credit. There are a few exceptions (as HECUA and AuSable Institute will count in the Bethel GPA), so students should verify with the study abroad office in advance.

## Programs Within the 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. Unless otherwise noted, the following programs will be counted in the Bethel University GPA.

### 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. Academic tracks are available in Public Policy or Strategic Communication. Students enroll in 15-16 semester hours of credit.

## **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. The courses taken at a consortium school should be petitioned to count for Bethel requirements and will be counted as transfer credits.

## **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 three tracks: the artist track, in which students create a portfolio of original songs; the business track, in which students work with artists in career direction and management, contract negotiations, budgeting, and creating marketing and sales plans; and the technical track, which allows students to pursue training in audio engineering and studio recording. 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 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 small community of five faculty and 30 students. Students enroll in 16 semester hours of credit.

## **The King's College New York City Semester in Journalism (NYCJ)**

Bethel is a partner school with The King's College in New York City. Its NYC Semester in Journalism immerses students in a unique academic experience. Because the campus is located in Manhattan's Financial District, the program provides unparalleled internship opportunities, networking connections, and cultural experiences. Students spend the semester learning from top-notch journalism faculty and engaging with other writers in the journalism capital of America. Led by *Wall Street Journal* veteran Professor Paul Glader, King's hosts guest lectures and offers classes featuring journalists from such resources as *The New York Times*, *The Wall Street Journal*, *The New York Daily News*, *Christianity Today*, *World Magazine*, *Religion News Service*, *Reuters*, *Forbes Magazine*, *The New York Post*, ESPN's Grantland and other media outlets. Each semester offers courses that fulfill requirements in Bethel's journalism major and minor; electives in other areas of study (e.g., business, communications, literature) are also available.

## **Summer Program**

### **Au Sable Institute of Environmental Studies**

Bethel participates in the Environmental Studies extension program available at the Au Sable Institute with campuses in northern Lower Michigan or Washington state in the Pacific Rim. Students can do one summer session or back-to-back summer terms. Interested students should obtain information from the Department of Biology.

# Academic Programs and Departments

## Bethel Academic Programs

### Majors

- Accounting and Finance (p. 120)
- Applied Physics (p.306)
- Art (BA) (p. 73)
- Art (BFA) (p. 76)
- Athletic Training (p. 240)
- Biblical and Theological Studies (p. 87)
- Biochemistry/Molecular Biology (p. 267)
- Biokinetics-Exercise Science as a Dual Degree with M.S. in Athletic Training (B.A) (p. 242).
- Biokinetics (BS) (p. 249)
- Biology (BA) (p. 101)
- Biology (BS) (p. 105)
- Business (p. 115)
- Business and Political Science (p. 261)
- Chemistry (BA) (p. 127)
- Chemistry (BS) (p. 129)
- Communication Studies (p. 139)
- Communication Arts and Literature Education 5-12 (p. 186)
- Community Health (p. 246)
- Computer Engineering (p. 177)
- Computer Science (BA) (p. 149)
- Computer Science (BS) (p. 151)
- Computer Science with Software Project Management (p. 150)
- Digital Humanities (p. 262)
- Economics (p. 118)
- Economics and Finance (p. 119)
- Electrical Engineering (B.S.) (p. 178)
- Elementary Education (p. 165)
- Elementary Education with Middle Level Endorsements (p. 167 )
- Engineering (B.A.) (p. 176)
- English Literature (p. 187)
- English Literature and Writing (p. 188)
- Environmental Science (p. 195)
- Environmental Studies (p. 194)
- General Science Education 5-8 (p. 170)
- Graphic Design (p. 74)
- Health Education 5-12 (p. 247)
- History (p. 226)
- Independent Filmmaking (p. 141 )
- International Relations (p. 264)
- Journalism (p. 189)
- Linguistics (p. 353)



- Mathematics (p. 257)
- Mathematics and Data Science (p. 259)
- Mathematics with Education 5-12 Licensure (p. 258)
- Media Production (p. 142)
- Missional Ministries (p. 88)
- Music (p. 279)
- Music/Applied Performance (p. 279)
- Music Education (p. 281)
- Neuroscience (p. 269)
- Nursing (p. 293)
- Organizational Communication (p. 143)
- Philosophy (p. 298)
- Physical Education K-12 (p. 248)
- Physics (BA) (p. 304)
- Physics (BS) (p. 308)
- Political Science (p. 315)
- Psychology (p. 322)
- Reconciliation Studies (p. 339)
- Science Education 9-12: Chemistry Emphasis (p. 128)
- Science Education 9-12: Life Science Emphasis (p. 104)
- Science Education 9-12: Physics Emphasis (p. 305)
- Social Studies Education 5-12 (p. 266)
- Social Work (p. 333)
- Sociology (p. 340)
- Software Engineering (p. 179)
- Spanish (p. 355)
- Spanish Education K-12 (p. 356)
- Teaching English as a Foreign Language (TEFL)(p. 357)
- Teaching English as a Second Language (TESL) K-12 (p. 359)
- Theatre Arts (p. 344)
- Visual Arts Education K-12 (p. 75)

## **Minors**

- Art.(Art History Emphasis) (p. 77)
- Art (Studio Emphasis) (p. 77)
- Asian Studies (p. 271)
- Biblical and Theological Studies (p. 89)
- Biblical Greek (p. 90)
- Biblical Languages (p. 90)
- Biology (p. 107)
- Business (p. 121)
- Chemistry (p. 130)
- Classics (p. 131)
- Communication Studies (p. 145)
- Community Health (p. 251)
- Computer Science (p. 152)
- Creative Writing (p. 189)
- Digital Film and Video for Actors (p. 145)
- Economics (p. 121)
- English Literature (p. 190)
- Film Studies (p. 197)
- Gender Studies (p. 200)
- Graphic Design (p. 77)
- Health Education (p. 251)
- History (p. 227)
- Journalism (p. 190)
- Leadership Studies (p. 253)
- Linguistics (p. 360)
- Mathematics (p. 260)
- Media Production (p. 146)
- Music (p. 283)
- Philosophy (p. 299)
- Photojournalism (p. 191)
- Physical Education (p. 252)
- Physics (p. 309)
- Political Science (p. 316)
- Psychology (p. 324)
- Reconciliation Studies (p. 341)
- Religious Studies (p. 326)
- Science, Technology, Engineering, and Math (STEM)(p. 171)
- Social Welfare Studies (p. 334)
- Sociology (p. 341)
- Spanish (p. 361)
- Teaching English to Speakers of Other Languages (TESOL)(p. 362)
- Theatre Arts (p. 346)

## 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.

Subject Code	Description
100s	Freshman
200s	Sophomore
300s	Junior
400s	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

Subject Code	Description
ANT (p. 335)	Anthropology
ARH (p. 69)	Art History
ART (p. 69)	Art
ASL (p. 348)	American Sign Language
BIB (p. 79)	Bible
BIO (p. 91)	Biology
BUS (p. 108)	Business
CHE (p. 123)	Chemistry
CHI (p. 348)	Chinese
COM (p. 132)	Communication Studies
COS (p. 147)	Computer Science
DES (p. 69)	Graphic Design
ECO (p. 108)	Economics
EDU (p. 153)	Education
ENL (p. 181)	English- Literature
ENR (p. 172)	Engineering
ENS (p. 192)	Environmental Studies
ENW (p. 181)	English- Writing
FLM (p. 197)	Film Studies
FRE (p. 348)	French
GEL (p. 213)	Geology
GEO (p. 213)	Geography
GES (p. 201)	General Studies
GRK (p. 79)	Biblical Greek
HAS (p. 230)	Human Kinetics and Applied Health Science
HEB (p. 79)	Biblical Hebrew
HIS (p. 221)	History
HON (p. 228)	Honors

LEA (p. 253)	Leadership Studies
LIN (p. 348)	Linguistics
MAT (p. 255)	Mathematics
MIN (p. 79)	Missional Ministries
MUE (p. 273)	Music-Ensembles
MUL (p. 273)	Music-Private Lessons
MUP (p. 273)	Music-Performance Groups
MUS (p. 273)	Music
NAS (p. 285)	Natural Sciences
NUR (p. 287)	Nursing
PEA (p. 230)	Physical Education-Applied
PHI (p. 295)	Philosophy
PHY (p. 301)	Physics
POS (p. 311)	Political Science
PSY (p. 318)	Psychology
REL (p. 325)	Religious Studies
RES (p. 335)	Reconciliation Studies
SOC (p. 335)	Sociology
SOW (p. 328)	Social Work
SPA (p. 348)	Spanish
TEL (p. 348)	Teaching English as a Second Language
THA (p. 342)	Theatre Arts
THE (p. 79)	Theology

## General Education Category Designators

<b>A</b>	Artistic Experience
<b>D</b>	Laboratory Science
<b>G</b>	Comparative Systems
<b>J</b>	Interpreting Biblical Themes
<b>K</b>	Science, Technology, and Society
<b>L</b>	Contemporary Western Life and Thought
<b>M</b>	Mathematics
<b>P</b>	Contemporary Christian Issues
<b>Q</b>	Leisure and Lifetime Sport
<b>S</b>	Second Language
<b>U</b>	World Cultures
<b>Z</b>	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 Experience	A	100-300	None
Introduction to the Creative Arts	-	125	None
Inquiry Seminar	-	160	None
Leisure and Lifetime Sport	Q	100	None
Introduction to Wellbeing	-	140	None
<b>Biblical Foundations:</b>			
Introduction to the Bible	-	101	None
Interpreting Biblical Themes	J	300	BIB 101, GES 160, or GES 244; Sophomore standing
Christian Theology	-	201	BIB 101, Sophomore Standing
<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	(GES 130; GES 160; L-Course and U-course) or (GES 244 and U-course)
Contemporary Western Life and Thought L		200	(GES 130 and GES 160 <sup>2</sup> ) or GES 244 <sup>2</sup>
Cross-Cultural Experience	Z	100-400	None
Second Language	S	102	Placement exam or credit for 101
World Cultures	U	200	GES 130 <sup>2</sup> or GES 244 <sup>2</sup>
<b>Cross-Pillar Integrations:</b>			
Contemporary Christian Issues	P <sup>1</sup>	400	(GES 140, GES 160, THE 201 and G-course) or (GES 246 and G-course); Senior standing
Western Humanity in Christian Perspective I-II	-	145	None
	-	147	GES 145
Western Humanity in Christian Perspective III-IV	-	244	GES 147
	-	246	GES 244

<sup>1</sup> .P course and Christianity, Introduction to Wellbeing, and Western Culture requirements cannot be fulfilled through transfereourses.

<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.

## Art and Design

The Department of Art and Design emphasizes holistic creativity and prepares students to engage with the creative diversity of the society in which they will be makers. We stress hands-on creative action, where materials, ideas and expressive experimentation collide, forming new possibilities that equip students as they become emerging artists and designers. We emphasize engagement with materials and media of every kind, from bronze, paint, ink and clay to digital, video, and photography. What unites these is learning the technical skills and processes needed for freedom of expression in any medium, coupled to learning the ideas, culture, art history and theory that make art and design complete as human, spiritual and meaningful vocations. We thrive on this unified platform where art informs design, design informs art, and ideas and the spiritual inform the whole.

The Department serves students through five degree options: for those 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 students pursuing a career in art history and curatorial work, an individualized major is available that combines art history with a deep emphasis in a secondary field (e.g., history, language, philosophy). In all the degrees, students will develop an expertise in a medium of their preference: graphic design, painting, sculpture, photography, printmaking, drawing, ceramics, or art history.

Woven into this curriculum is a rich gallery program that brings many professional artists to campus through the exhibition of their work and public lectures. Two galleries, the Eugene and Leona Olson Gallery and the Eugene Johnson Gallery, offer exhibitions of artists with diverse perspectives with regional, national and global reputations. Through the Visiting Artists Lecture Series, these artists personalize their work, giving our students the opportunity to meet and interact with artists beyond the Bethel faculty. In addition, there are five opportunities each year for students to exhibit their own work in the campus galleries, plus additional opportunities for students to show their own work in exhibition spaces in the Twin Cities extensive art scene. Gallery assistantships, internships and Teaching Assistant opportunities are available to all students who seek them.

## Majors in Art and Design

- B.A. in Art (p. 73)
- B.A. in Graphic Design (p. 74)
- B.A. in Visual Arts Education K-12 (p. 75)
- B.F.A. in Art (p. 76)

## Minors in Art and Design

- Art (Art History Emphasis) (p. 77)
- Art (Studio Emphasis) (p. 77)
- Graphic Design (p. 74)
- Photojournalism (p. 191)

### **ART 100A • Foundations: Color, Composition, and Ideation.** 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, Interim, Spring.*

### **ART 101A • Foundations: Materials, Space, and Meaning.** 3 Credits.

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

*Offered: Fall, Interim, Spring.*

**ART 103A • Foundations: 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.*

**ART 106A • Screen Printing.** 3 Credits.

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

*Offered: Occasionally interim.*

**ART 107A • Clay Forms.** 3 Credits.

Explores hand building and wheel throwing techniques in the formation of archetypal ceramic forms and processes.

*Offered: Fall, Interim.*

**ART 108A • Ceramic Design.** 3 Credits.

Explores two-dimensional and three-dimensional design strategies in creation of ceramic forms and surfaces .

*Offered: Spring.*

**ART 109A • 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.*

**ART 120A • 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 World Languages and Cultures.*

**ART 203 • Advanced Drawing.** 3 Credits.

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

*Prerequisites: ART 103A. Offered: Spring*

**ART 206 • Sculpture.** 4 Credits.

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

*Offered: Fall, Spring.*

**ART 208 • Advanced Ceramics.** 4 Credits.

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

*Prerequisites: ART 107A or ART 108A. Offered: Spring.*

**ART 210A • 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: ART 100A or ART 103A. Offered: Fall, Spring*

**ART 211 • Printmaking.** 3 Credits.

Hand-printing processes with an emphasis on drawing and composition. Experience in such media as etching, lithography, woodcut, linocut, collagraphy, monotype and color printing.

*Prerequisites: ART 100A or ART 103A. Offered: Fall, Spring*

**ART 240 • 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.  
*Corequisites:* Another 200-level or above studio course. *Offered:* Spring.

**ART 250A • 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.

**ART 306 • Advanced Sculpture.** 4 Credits.

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

*Prerequisites:* ART 206. *Offered:* Fall, Spring

**ART 310 • Advanced Painting.** 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

**ART 311 • Advanced Printmaking.** 4 Credits.

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

*Offered:* Fall, Spring.

**ART 315 • 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:* ART 100A or DES 105. *Offered:* Fall, odd # years.

**ART 330 • 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:* ART 250A or consent of instructor. *Offered:* Spring.

**ART 332 • 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:* ART 250A. *Offered:* Spring.

**ART 334 • 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:* ART 250A for BA and BFA majors. *Offered:* Fall, even # years.

**ART 335 • 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 1920's as well as contemporary video pieces from the last decade. Basic skills in video and audio software are developed through studio practice.

*Prerequisites:* ART 100A, ART 109A, ART 250A, or consent of instructor. *Offered:* Fall.

**ART 419 • 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:* ART 330, ART 332, ART 334, or consent of instructor. *Offered:* Spring.



**ART 481 • Internship in Art.** 1-4 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.

**ART 496 • Senior Art & Design Exhibition.** 0 Credit.

Installation and completion of Senior thesis work in an exhibit with other seniors. Activities include preparing work for the exhibit, installation, lighting, didactics, hosting an opening, participating in the Art Matrix, and deinstalling work.

*Prerequisites:* ART 499. *Offered:* Spring.

**ART 498 • Professional Practices.** 3 Credits.

Prepares students to continue their own studio practice after graduation and 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.

**ART 499 • 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.

**DES 105 • 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.

**DES 150 • 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.

**DES 212 • 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:* DES 105. *Offered:* Fall, Spring.

**DES 312 • 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:* DES 212. *Offered:* Fall.

**DES 322 • 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:* DES 212. *Offered:* Interim.

**DES 324 • 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:* DES 312 or consent of instructor. *Offered:* Fall.

**DES 412 • 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:* DES 312 or consent of instructor. *Offered:* Spring.

**DES 481 • Internship in Design.** 1-4 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.

**ARH 105 • Art History Survey: 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.

**ARH 220 • 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.

**ARH 221 • Art of the United States.** 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:* GES 130 or GES 244. *Offered:* Spring, even # years.

**ARH 320 • 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.

**ARH 321 • 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.

**ARH 345 • Art History Survey: World War II to Present.** 3 Credits.

Explores 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

Code	Title	Credits
<b>Major in Art (B.A.)</b>		
ART 100A	Foundations: Color, Composition, and Ideation	3
ART 101A	Foundations: Materials, Space, and Meaning	3
ART 103A	Foundations: Drawing	3
ART 203	Advanced Drawing	3

ART 206	Sculpture	4
ART 210A	Painting	4
ART 211	Printmaking	3
ART 240	Creative Practices <sup>1</sup>	3
ART 250A	Introduction to Photography	3
ART 496	Senior Art & Design Exhibition	0
ART 499	Senior Seminar/Thesis Exhibition	3
ARH 105	Art History Survey: Caves to World War II	4
PHI 310	Aesthetics	3
Choose two Art History courses 200-level or above		6
Choose ART or DES courses. At least 9 credits at the 200 level or above, or Internship		15

Code	Title	Credits
Major *		60
General Education		49-50
Electives		12-13
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Must be taken concurrently with a 200-level or above studio course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Graphic Design

Code	Title	Credits
<b>Major in Graphic Design (B.A.)</b>		
ARH 105	Art History Survey: Caves to World War II	4
ARH 345	Art History Survey: World War II to Present	3
ART 100A	Foundations: Color, Composition, and Ideation	3
ART 101A	Foundations: Materials, Space, and Meaning	3
ART 103A	Foundations: Drawing	3
ART 211	Printmaking	3
ART 240	Creative Practices <sup>1</sup>	3
ART 496	Senior Art & Design Exhibition	0
ART 499	Senior Seminar/Thesis Exhibition	3
BUS 220	Principles of Marketing	4
DES 105	Introduction to Digital Media	3
DES 150	Typography	3
DES 212	Graphic Design I	3
DES 312	Graphic Design II	3
DES 324	Interactive Design	3
DES 412	Graphic Design III	3
Choose any 3 ART or DES courses except ART 107A or ART 109A		9-10
Choose 3 courses (9-12 credits) from one of the following areas of concentration. One course must be 300 level or above		9-12
Anthropology/Sociology		
ANT 200U	Introduction to Anthropology	

RES 340Z	Principles and Methods of Intercultural Leadership	
SOC 350	Qualitative Research Methods	
SOC 381G	Urbanism: A Way of Life	
<b>Business</b>		
BUS 309	Brand Management	
BUS 318G	Global Marketing	
BUS 319	Advertising and Promotion	
BUS 321	Marketing Research	
BUS 324	Consumer Behavior	
<b>Communication</b>		
COM 170A	Media Production I	
COM 210	Perspectives on Human Communication	
COM 310K	Communication, Technology and Society	
COM 350	Corporate Communication	
COM 355Z	Intercultural Communication	
ENW 120	Digital News Studio	
ENW 214	Principles of Editing	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		65-69
General Education		49-50
Electives		3-8
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Must be taken concurrently with a 200-level studio course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

Code	Title	Credits
<b>Major in Visual Arts Education K-12 (B.A.)</b>		
ARH 105	Art History Survey: Caves to World War II	4
ART 100A	Foundations: Color, Composition, and Ideation	3
ART 101A	Foundations: Materials, Space, and Meaning	3
ART 103A	Foundations: Drawing	3
ART 107A	Clay Forms	3
or ART 108A	Ceramic Design	
ART 210A	Painting	4
ART 496	Senior Art & Design Exhibition	0
ART 499	Senior Seminar/Thesis Exhibition	3
ART or DES studio electives (minimum 10 credits, at least 7 of which must be 200-level or above)		10
Art History courses (minimum 6 credits-not including ARH 105)		6
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2

EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 413	Methods in Teaching K-12 Art	3
EDU 414	Middle Level Education Practicum in Art	1
EDU 490	Student Teaching Block <sup>1</sup>	14

Code	Title	Credits
Major *		75
General Education		49-50
Total Credits		124-125

<sup>1</sup> In order to meet requirements for endorsements and dual majors the number of credits required is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

Code	Title	Credits
<b>Major in Art (B.F.A)</b>		
ARH 105	Art History Survey: Caves to World War II	4
ARH 345	Art History Survey: World War II to Present	3
Choose two Art History elective courses (not including ARH 105, ARH 345)		6
ART 100A	Foundations: Color, Composition, and Ideation	3
ART 101A	Foundations: Materials, Space, and Meaning	3
ART 103A	Foundations: Drawing	3
ART 203	Advanced Drawing	3
ART 206	Sculpture	4
ART 210A	Painting	4
ART 211	Printmaking	3
ART 240	Creative Practices <sup>1</sup>	3
ART 250A	Introduction to Photography	3
ART 496	Senior Art & Design Exhibition	0

ART 498	Professional Practices	3
ART 499	Senior Seminar/Thesis Exhibition	3
PHI 310	Aesthetics	3
Choose any ART or DES courses, or Internship		18-19

Code	Title	Credits
<b>Major *</b>		
Major *		69-70
General Education		49-50
Electives		2-4
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Must be taken concurrently with a 200-level or above studio course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Art (Art History Emphasis)

Code	Title	Credits
<b>Minor in Art (Art History Emphasis)</b>		
ART 100A	Foundations: Color, Composition, and Ideation	3
or ART 101A	Foundations: Materials, Space, and Meaning	
ART 103A	Foundations: Drawing	3
Art History courses		9
ART or DES studio or ARH elective		3
<b>Total Credits *</b>		<b>18</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Art (Studio Emphasis)

Code	Title	Credits
<b>Minor in Art (Studio Emphasis)</b>		
ART 100A	Foundations: Color, Composition, and Ideation	3
or ART 101A	Foundations: Materials, Space, and Meaning	
ART 103A	Foundations: Drawing	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>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Graphic Design

Code	Title	Credits
<b>Minor in Graphic Design</b>		
ART 100A	Foundations: Color, Composition, and Ideation	3
ARH 345	Art History Survey: World War II to Present	3
DES 105	Introduction to Digital Media	3

DES 150	Typography	3
DES 212	Graphic Design I	3
DES 312	Graphic Design II	3
DES 322 or DES 324	Digital Image Making Interactive Design	3
<b>Total Credits</b> *		21

\* Courses whose number is followed by a letter fulfill 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. 87)
- B.A. in Missional Ministries (p. 88)

## Minors in Biblical and Theological Studies

- Biblical and Theological Studies (p. 89)
- Biblical Greek (p. 90)
- Biblical Languages (Hebrew and Greek) (p. 90)
- Religious Studies (p. 326) (See Religious Studies section)

### **BIB 101 • 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.*

### **BIB 205 • 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: BIB 101. Offered: Spring, even # years*

### **BIB 206 • Spiritual Formation Practicum I.** 1 Credit.

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: BIB 205. Offered: Fall, Interim, Spring.*

### **BIB 207 • Spiritual Formation Practicum II.** 1 Credit.

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: BIB 205. Offered: Fall, Interim, Spring.*



**BIB 208 • Spiritual Formation Practicum III.** 1 Credit.

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: BIB 205. Offered: Fall, Interim, Spring.*

**BIB 210 • 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: BIB 101. Offered: Fall or Spring.*

**BIB 212 • 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: BIB 101. Offered: Fall or Spring.*

**BIB 220 • The Pentateuch.** 3 Credits.

Study of 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: BIB 101. Offered: Occasionally.*

**BIB 230Z • 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: BIB 101. Offered: Occasionally interim.*

**BIB 236 • Archaeology of the Southern Levant.** 3 Credits.

Explores the 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: BIB 101. Offered: Occasionally.*

**BIB 240 • Topics in Biblical Studies.** 3 Credits.

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

*Prerequisites: BIB 101. Offered: Occasionally.*

**BIB 260 • 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: BIB 101. Offered: Fall or spring*

**BIB 264Z • Greece-Italy 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: BIB 101. Offered: Occasionally, Interim.*

**BIB 265 • 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: BIB 101. Offered: Fall or Spring.*

**BIB 301J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 302J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 304J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 305J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 306J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 307J • 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 its' symbolism as God's earthly and heavenly kingdoms: its geography, history, and relationship to the Biblical covenants.

*Prerequisites: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 308J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 309J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered:Occasionally.*

**BIB 310J • 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: BIB 101; (THE 201 and GES 160) or (GES 244); Sophomore standing. Offered: Occasionally.*

**BIB 311J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 312J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 313J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 314J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 315J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 316J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 317J • 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 integrated with an exploration of the cultural and historical influences on our contemporary understanding of family.

*Prerequisites: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 319J • 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: BIB 101; GES 160 or GES 244; Sophomore standing. Offered: Occasionally.*

**BIB 321 • 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; THE 201; Interpreting Biblical Themes (J) course. Offered: Fall.*

**BIB 326 • 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.*

**BIB 331G • Cultural World of the New Testament.** 3 Credits.

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

*Prerequisites: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Occasionally.*

**BIB 334G • Cultural World of the Old Testament.** 3 Credits.

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

*Prerequisites: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Occasionally*

**BIB 336 • 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*

**BIB 370 • Romans.** 3 Credits.

Paul's influential 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*

**BIB 375 • 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, even # years.*

**BIB 440 • 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*

**BIB 499 • 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; BIB 321; major in biblical and theological studies. Offered: Spring*

**GRK 101 • 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.*

**GRK 102S • 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:* *GRK 101. Offered: Spring*

**GRK 253 • Readings in New Testament Greek.** 3 Credits.

Readings in the Greek New Testament designed to develop basic knowledge of Greek grammar and enlarge vocabulary.

*Prerequisites:* *GRK 102S. Offered: Fall.*

**GRK 371 • 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:* *GRK 253. Offered: Spring*

**GRK 498 • Seminar: Greek Exegesis.** 4 Credits.

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

*Prerequisites:* *GRK 253; Interpreting Biblical Themes (J) course; BIB 321 or consent of instructor. Offered: Spring.*

**HEB 101 • 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.*

**HEB 102S • 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: HEB 101. Offered: Spring*

**LAT 101 • Introductory Latin I.** 4 Credits.

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

*Offered: Fall, odd # years.*

**LAT 102S • Introductory Latin II.** 4 Credits.

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

*Prerequisites: LAT 101 or placement exam. Offered: Spring, even # years*

**MIN 200 • 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: BIB 101 (may be taken concurrently). Offered: Fall*

**MIN 210 • 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: MIN 200. Offered: Fall, odd # years*

**MIN 310Z • 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: THE 201; Junior standing. Special Notes: Carries cross-listing in Biblical and Theological Studies. Offered: Interim*

**MIN 320 • 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: MIN 200. Offered: Spring.*

**MIN 328 • 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: BIB 101 or THE 201; Junior standing. Offered: Spring.*

**MIN 330 • 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: MIN 200. Offered: Fall, even # years*

**MIN 350 • Ministry Practicum I.** 1 Credit.

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:* MIN 200. *Grade exceptions:* Graded on an S/U basis. *Offered:* Fall

**MIN 355 • Ministry Practicum II.** 1 Credit.

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:* MIN 200; MIN 350. *Grade exceptions:* Graded on an S/U basis. *Offered:* Spring

**MIN 483 • 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:* MIN 200; MIN 350; MIN 355. *Grade exceptions:* Graded on an S/U basis. *Offered:* Fall

**MIN 484 • 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:* MIN 200; MIN 350; MIN 355; MIN 483. *Grade exceptions:* Graded on an S/U basis. *Offered:* Spring

**MIN 499 • 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;* MIN 200; *Missional Ministries major;* senior standing. *Offered:* Spring

**THE 201 • 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:* BIB 101; *sophomore standing or above.* *Offered:* Fall, interim, spring

**THE 235 • 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:* THE 201. *Offered:* Occasionally

**THE 240 • Topics in Theology.** 3 Credits.

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

*Prerequisites:* THE 201. *Offered:* Occasionally

**THE 256L • 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:* THE 201 or GES 246; GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). *Offered:* Fall, interim, spring

**THE 263 • 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:* BIB 101; THE 201. *Offered:* Fall

**THE 310Z • 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:* THE 201; *Junior standing.* *Special Notes:* Carries cross-credit in Missional Ministries. *Offered:* Interim.

**THE 311 • Early Church to Reformation Theology in Global Perspective.** 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 Aquinas, and developments such as early North African, Syriac, Byzantine, medieval Asian, and European theologies.

*Prerequisites: BIB 101; THE 201 or consent of instructor. Offered: Fall.*

**THE 312L • Post-Reformation to Contemporary Theology in Trans-Atlantic Perspective.** 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 American, Feminist and Womanist theology, and Pietism.

*Prerequisites: GES 130 and GES 160 (may be taken concurrently) OR GES 244 (may be taken concurrently).*

*Offered: Spring.*

**THE 315 • 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: THE 201 or consent of the instructor. Offered: Spring*

**THE 326G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Occasionally fall*

**THE 401 • 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: BIB 101; THE 201. Offered: Occasionally. Special Notes: Carries cross-credit in religious studies.*

**THE 431 • 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: THE 201 or consent of instructor. Offered: Fall*

**THE 432 • 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: THE 201 or consent of instructor. Offered: Occasionally.*

**THE 433 • 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: THE 201 or consent of instructor. Offered: Occasionally*

**THE 440 • Topics in Theology.** 3 Credits.

Research course in a topic in theology. Content 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: THE 201 or consent of instructor. Offered: Occasionally.*

**THE 499 • 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; BIB 321, THE 315 or consent of instructor. Offered: Fall.*

# B.A. in Biblical and Theological Studies

Code	Title	Credits
<b>Major in Biblical and Theological Studies (B.A.)</b>		
<b>Biblical Studies Requirements (15 credits)<sup>2</sup></b>		
BIB 321	Issues in Biblical Studies	3
<b>Old Testament courses<sup>3</sup></b>		
Choose one of the following Text courses: <sup>4</sup>		
BIB 212	Reading the Hebrew Bible	
BIB 220	The Pentateuch	
BIB 240	Topics in Biblical Studies <sup>1</sup>	
BIB 326	The Prophets of Israel	
BIB 336	Poetic Books of the Old Testament	
BIB 440	Topics in Biblical Studies <sup>1</sup>	
Choose one of the following Context courses: <sup>4</sup>		
BIB 210	History of Ancient Israel	
BIB 230Z	Israel Study Tour <sup>4</sup>	
BIB 236	Archaeology of the Southern Levant	
BIB 240	Topics in Biblical Studies <sup>1</sup>	
BIB 334G	Cultural World of the Old Testament	
BIB 440	Topics in Biblical Studies <sup>1</sup>	
<b>New Testament Courses:</b>		<b>6</b>
Choose one of the following Jesus courses: <sup>4</sup>		
BIB 230Z	Israel Study Tour <sup>4</sup>	
BIB 240	Topics in Biblical Studies <sup>1</sup>	
BIB 260	The Life and Teachings of Jesus	
BIB 440	Topics in Biblical Studies <sup>1</sup>	
GRK 253	Readings in New Testament Greek <sup>1</sup>	
GRK 371	Advanced Greek Translation	
Choose one of the following Paul courses: <sup>4</sup>		
BIB 240	Topics in Biblical Studies <sup>1</sup>	
BIB 264Z	Greece-Italy Study Tour	
BIB 265	The Life and Teachings of Paul	
BIB 370	Romans	
BIB 375	First Corinthians	
<b>Theological Studies Requirements (15 credits)</b>		
THE 263	Christian Social Ethics	3
THE 311	Early Church to Reformation Theology in Global Perspective	3
THE 315	Contemporary Theological Issues	3
Elective from 200 level theology course (not including THE 201) <sup>4</sup>		3
Elective from 300-400 level theology course <sup>4</sup>		3
<b>Religious Studies Requirement (3 credits)</b>		
REL 202	Introduction to Religious Studies	3
<b>Seminar Requirement (3-4 credits)</b>		



Choose one of the following Senior Seminar courses:	3-4
BIB 499 Seminar: Biblical Studies	
GRK 498 Seminar: Greek Exegesis	
THE 499 Seminar: Theology	
<b>Elective Requirements (6 credits)</b>	
Choose one from 200 level biblical or theological studies courses or GRK 253 or MIN 310Z <sup>1</sup>	3
Choose one from 300 or 400 level biblical or theological studies course or GRK 371 or HIS 335G	3
Or choose one spiritual formation course from the following: <sup>1</sup>	
BIB 305J Sleep, Surrender, and Sabbath	
BIB 310J Holiness in Biblical Perspective	
GES 413P Women's Spiritual Experience	
GES 418P Christian Lives: Contemporary Spiritual Narratives	
GES 433P Biblical Spirituality: Experiencing God	
GES 434P The Celtic Tradition	
GES 441PZ Issues and Praxis in Christian Social Justice	

Code	Title	Credits
Major *		42-43
General Education		49-50
Electives		29-31
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Courses may be used in this category only when the topic is relevant.

<sup>2</sup> In addition to BIB 321, students must take at least one of the biblical studies required courses at the 300-400 level.

<sup>3</sup> A student may use HEB 102S to meet one of the OT course requirements.

<sup>4</sup> Course may only be applied in one category.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Missional Ministries

Code	Title	Credits
<b>Major in Missional Ministries (B.A.)</b>		
<b>Core Courses</b>		
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>1</sup>		3
One 300-400 level THE course		3
MIN 200	Foundations of Ministry	3
MIN 320	Spiritual and Faith Formation	3
MIN 328	Missional Theology	3
MIN 350	Ministry Practicum I	1
MIN 355	Ministry Practicum II	1
MIN 483	Ministry Internship I	3
MIN 484	Ministry Internship II	3

MIN 499	Senior Seminar	3
LEA 100	Emerging Leaders	3
COM 110	Basic Communication	3
RES 201	Introduction to Reconciliation Studies	3
<b>Interdisciplinary Elective Courses</b>		
Choose one of the following Leadership and Organization courses:		3-4
BUS 210	Financial Accounting	
BUS 232	Innovation and Entrepreneurship	
BUS 335	Organizational Behavior	
COM 248	Organizational Communication	
LEA 300	Leading Organizations	
Choose one of the following Communication courses:		3-4
COM 370	Interpersonal Communication	
COM 387	Speaking in Ministry Contexts	
MIN 330	Teaching in Ministry Contexts	
Choose one of the following Life Development and Faith Formation courses:		3
PSY 203	Lifespan Development	
PSY 211	Adult Development and Aging	
MIN 210	Adolescent Development and the Family	
Choose one of the following Cultural and Contextual Studies courses:		3
MIN 310Z	Conflict, Reconciliation, and the Church	
SOC 372G	Religion in Society	
RES 305	Conflict Resolution and Mediation Skills	

Code	Title	Credits
Major *		53-55
General Education		49-50
Electives		17-20
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Excluding THE 201.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Biblical and Theological Studies

Code	Title	Credits
<b>Minor in Biblical and Theological Studies</b>		
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
BIB 321	Issues in Biblical Studies	3
or THE 315	Contemporary Theological Issues	
BIB 205	Introduction to Spiritual Formation	3
or REL 202	Introduction to Religious Studies	
Total Credits *		18

<sup>1</sup> Not including Biblical Themes (J) course.

<sup>2</sup> Not including THE 201.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Biblical Greek

Code	Title	Credits
<b>Minor in Biblical Greek</b>		
GRK 101	Introductory Biblical Greek I	4
GRK 102S	Introductory Biblical Greek II	4
GRK 253	Readings in New Testament Greek	3
GRK 371	Advanced Greek Translation	3
GRK 498	Seminar: Greek Exegesis	4
<b>Total Credits</b> *		18

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Biblical Languages (Hebrew and Greek)

Code	Title	Credits
<b>Minor in Biblical Languages (Hebrew and Greek)</b>		
GRK 101	Introductory Biblical Greek I	4
GRK 102S	Introductory Biblical Greek II	4
GRK 253	Readings in New Testament Greek	3
GRK 371	Advanced Greek Translation	3-4
or GRK 498	Seminar: Greek Exegesis	
HEB 101	Introductory Biblical Hebrew I	4
HEB 102S	Introductory Biblical Hebrew II	4
<b>Total Credits</b> *		22-23

<sup>1</sup> This course meets a General Education requirement.

## 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 upper level curriculum is organized into environmental, organismic, and cell-molecular areas of study. While the 100-level courses are integrated across these three sub-disciplines. 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, pursue careers in medical technology, allied health areas, teach science in elementary and secondary schools, do laboratory research, or perform environmental science duties in government and private industry.

**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. 101)
- B.A. in Science Education 9-12: Life Science Emphasis (p. 104)
- B.S. in Biochemistry/Molecular Biology (p. 267) (See Multidisciplinary section)
- B.S. in Biology (p. 105)
- B.S. in Neuroscience (p. 269) (See Multidisciplinary section)

## Minor in Biological Sciences

- Biology (p. 107)

### **BIO 100 • 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 BIO 100D is required. Offered: Occasionally.*

### **BIO 100D • Principles of Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 100.

*Corequisites: Registration in BIO 100 is required. Offered: Occasionally.*

### **BIO 104 • 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.

*Corequisites: Registration in BIO 104D is required. Offered: Fall, Spring.*

### **BIO 104D • Human Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 104.

*Corequisites: Registration in BIO 104 is required. Offered: Fall, Spring.*

### **BIO 105 • 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*

**BIO 114D • 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.*

**BIO 118 • 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.

*Corequisites: Registration in BIO 118D is required. Offered: Fall. Special Notes: Intended for Nursing majors.*

**BIO 118D • General Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 118.

*Corequisites: Registration in BIO 118 is required. Offered: Fall.*

**BIO 120 • 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 CHE 208/208D (May be taken concurrently). Corequisites: Registration in BIO 121 is required. Offered: Fall, Spring.*

**BIO 121 • Introduction to Molecular and Cellular Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 120.

*Corequisites: Registration in BIO 120 is required. Offered: Fall, Spring.*

**BIO 122 • 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 BIO 122D is required. Offered: Fall, Spring.*

**BIO 122D • Introduction to Organismic Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 122.

*Corequisites: Registration in BIO 122 is required. Offered: Fall, Spring.*

**BIO 124 • Integrative Biology: Genes, Cells, Change.** 3 Credits.

In a complex world, understanding challenges like infectious disease or environmental change requires a fundamental knowledge of biology. Using relevant examples, students will explore molecules, DNA, biotechnology, evolution, populations, ecosystems, disease, and human systems (e.g. digestive, immune) to gain a perspective on global health and personal responsibility to life.

*Prerequisites: Declared major in Biology, Environmental Science, Environmental Studies, Biochemistry/Molecular Biology, or Secondary Education Life Science OR a declared minor in Biology. Corequisites: BIO 124D. Offered: Fall, Spring.*

**BIO 124D • Integrative Biology: Genes, Cells, Change Lab.** 1 Credit.

Laboratory experience accompanying BIO 124.

*Prerequisites: Declared major in Biology, Environmental Science, Environmental Studies, Biochemistry/Molecular Biology, or Secondary Education Life Science OR a declared minor in Biology. Corequisites: BIO 124. Offered: Fall, Spring.*

**BIO 126 • 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, this course unpacks what it means to be a biologist today. Concepts include genetics, evolution, population, community and ecosystem ecology and global change.

*Corequisites: Registration in BIO 127 is required. Offered: Fall, Spring.*

**BIO 127 • Integrative Biology and Global Health Lab.** 1 Credit.

Laboratory experience accompanying BIO 126.

*Corequisites: Registration in BIO 126 is required. Offered: Fall, Spring.*

**BIO 128 • Integrative Biology: Metabolism, Energy, Biodiversity.** 3 Credits.

Living organisms face challenges requiring them to either adapt, move, acclimate or perish.

Through real-world examples, students will gain a fundamental understanding of homeostasis, enzymes, metabolism, energy flow, movement, human systems (e.g., circulatory, nervous, excretory), photosynthesis, cellular respiration, extinction, biodiversity, transformation of matter and acclimation.

*Prerequisites: Declared major in Biology, Environmental Science, Environmental Studies, Biochemistry/Molecular Biology, or Secondary Education Life Science OR Declared minor in Biology. Corequisites: Concurrent registration in BIO 128D is required. Offered: Fall, Spring.*

**BIO 128D • Integrative Biology: Metabolism, Energy, Biodiversity Lab.** 1 Credit.

Laboratory experience accompanying BIO 128.

*Corequisites: BIO 128. Offered: Fall, Spring.*

**BIO 130 • 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 BIO 130D is required. Offered: Spring. Special Notes: Carries cross-credit in Psychology and Neuroscience.*

**BIO 130D • Introduction to Neuroscience Lab.** 1 Credit.

Laboratory experience accompanying BIO 130.

*Corequisites: Registration in BIO 130 is required. Offered: Spring. Special Notes: Carries cross credit with Neuroscience and Psychology.*

**BIO 132 • 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 BIO 132D is required. Offered: Occasionally Spring.*

**BIO 132D • The Science of Birds Lab.** 1 Credit.

Laboratory experience accompanying BIO 132.

*Corequisites: Registration in BIO 132 is required. Offered: Occasionally Spring.*

**BIO 214 • 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 dissections.

*Prerequisites: One lab science (D) course. Corequisites: Registration in BIO 215 is required. Special Notes: Not open to students who have taken BIO 224/225 or BIO 238/239 except by department consent. Offered: Fall.*

**BIO 215 • Human Anatomy Lab.** 1 Credit.

Laboratory experience accompanying BIO 214.

*Corequisites: Registration in BIO 214 is required. Offered: Fall.*

**BIO 216 • 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: BIO 214/215. A course in Chemistry is recommended; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 217 is required. Special Notes: Not open to students who have taken BIO 226/227 or BIO 238/239 except by department consent. Offered: Spring.*

**BIO 217 • Human Physiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 216.

*Corequisites: Registration in BIO 216 is required. Offered: Spring.*

**BIO 218 • Biology in a Changing World.** 3 Credits.

Through the exploration of interactions between genes and their environments, students articulate integrative topics (e.g., evolution, transformation of matter, and energy, information flow, systems and structure/function), identify career options and desired skill sets, make a growth plan and articulate an intellectual autobiography, including faith integration.

*Prerequisites:* BIO 124; BIO 128. *Offered:* Fall.

**BIO 224 • 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 dissections.

*Prerequisites:* BIO 118/118D. *Corequisites:* Registration in BIO 225 is required. *Offered:* Spring. *Special Notes:* Not open to students who have taken BIO 214/215 or BIO 238/239.

**BIO 225 • Clinical Anatomy Lab.** 1 Credit.

Laboratory experience accompanying BIO 224.

*Corequisites:* Registration in BIO 224 is required. *Offered:* Spring.

**BIO 226 • 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:* BIO 224/225; CHE 101/101D. *Corequisites:* Registration in BIO 227 is required. *Offered:* Fall. *Special Notes:* Not open to students who have taken BIO 216/217.

**BIO 227 • Clinical Physiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 226.

*Corequisites:* Registration in BIO 226 is required. *Offered:* Fall.

**BIO 230 • 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:* BIO 224/225; CHE 101/101D. *Corequisites:* Registration in BIO 231 is required. *Offered:* Fall. *Special Notes:* Not open to students who have taken BIO 234/235.

**BIO 231 • Clinical Microbiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 230.

*Corequisites:* Registration in BIO 230 is required. *Offered:* Fall.

**BIO 234 • 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:* BIO 118/118D, BIO 120/121; one course in Chemistry; BIO 218, (may be taken concurrently), A second course in Chemistry is recommended. *Corequisites:* Registration in BIO 235 is required. *Special Notes:* Not open to students who have taken BIO 230/231. *Offered:* Spring.

**BIO 235 • Microbiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 234.

*Corequisites:* Registration in BIO 234 is required. *Offered:* Spring.

**BIO 238 • Human Anatomy and Physiology.** 3 Credits.

Anatomy and physiology of the human body, with a major emphasis on the principle of homeostasis.

*Prerequisites:* BIO 100/100D, BIO 104/104D, BIO 118/118D, or BIO 120/121; BIO 218, (may be taken concurrently). *Corequisites:* Registration in BIO 239 is required. *Special Notes:* One course in Chemistry recommended. Not open to students who have taken BIO 214/215, BIO 216/217, BIO 224/225, BIO 226/227. *Offered:* Spring.

**BIO 239 • Human Anatomy and Physiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 238.

*Corequisites:* Registration in BIO 238 is required. *Offered:* Spring.

**BIO 244 • 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:* BIO 214/215, BIO 216/217 (may be taken concurrently), two semesters of Chemistry; BIO 218, (may be taken concurrently). *Corequisites:* Registration in BIO 245 is required. *Offered:* Occasionally.

**BIO 245 • Pathophysiology and Pharmacology Lab.** 1 Credit.

Laboratory experience accompanying BIO 244.

*Corequisites:* Registration in BIO 244 is required. *Offered:* Occasionally.

**BIO 248 • 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 BIO 249 is required. *Offered:* Spring. *Special Notes:* Not open to students who have taken BIO 244/245.

**BIO 249 • Clinical Pathophysiology and Pharmacology Lab.** 1 Credit.

Laboratory experience accompanying BIO 248.

*Corequisites:* Registration in BIO 248 is required. *Offered:* Spring.

**BIO 316 • 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 BIO 122/122D, BIO 128/128D, ENS 104/104D; BIO 218 (may be taken concurrently) or major in Environmental Science or major in Environmental Studies; Junior or senior standing. *Corequisites:* Concurrent registration in ENS 317 is required. *Special Notes:* Carries cross-credit in Environmental Science. *Offered:* Spring, even # years.

**BIO 317 • Wildlife Ecology and Management Lab.** 1 Credit.

Laboratory experience accompanying BIO 316. Includes some outdoor and off-campus investigations.

*Corequisites:* Registration in BIO 316 is required. *Offered:* Spring, even # years.

**BIO 318KZ • Ecology in the Tropics: Natural History and Future Prospects.** 4 Credits.

Travel in Kenya or Ecuador surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human presence. Ecuador includes the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galapagos Islands. Kenya includes Nairobi, African savanna, the Rift valley, and Masai Mara.

*Prerequisites:* Laboratory Science (D) course; Mathematics (M) course. *Offered:* Interim. *Special Notes:* Carries cross-credit in environmental science and general studies.

**BIO 324 • 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; BIO 218, (may be taken concurrently). *Corequisites:* Registration in BIO 325 is required. *Offered:* Occasionally.

**BIO 325 • Human Ecology Lab.** 1 Credit.

Laboratory experience accompanying BIO 324.

*Corequisites:* Registration in BIO 324 is required. *Offered:* Occasionally.

**BIO 326 • 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:* BIO 120/121; BIO 122/122D; BIO 218, (may be taken concurrently). *Corequisites:* Registration in BIO 327 is required. *Offered:* Spring, odd # years.



**BIO 327 • Vertebrate Histology Lab.** 1 Credit.

Laboratory experience accompanying BIO 326.

*Corequisites: Registration in BIO 326 is required. Offered: Spring, odd # years.*

**BIO 328 • 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: BIO 122/122D or BIO 128/128D; BIO 218, (may be taken concurrently) or major in Environmental Science or major in Environmental Studies. Corequisites: Registration in BIO 329 is required. Offered: Spring odd # years.*

**BIO 329 • Invertebrate Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 328.

*Corequisites: Registration in BIO 328 is required. Offered: Spring odd # years.*

**BIO 330 • 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 BIO 122/122D, BIO 128/128D, ENS 104/104D; BIO 218 (may be taken concurrently) or major in Environmental Science or major in Environmental Studies. Corequisites: Registration in BIO 331 is required. Special Notes: This is a designated research course. Offered: Fall, odd # years.*

**BIO 331 • Ecology Lab.** 1 Credit.

Laboratory experience accompanying BIO 330.

*Corequisites: Registration in BIO 330 is required. Offered: Fall, odd # years. Special Notes: This is a designated research course.*

**BIO 332 • 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; BIO 100/100D or BIO 120/121; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 333 is required. Offered: Fall.*

**BIO 333 • Genetics Lab.** 1 Credit.

Laboratory experience accompanying BIO 332.

*Corequisites: Registration in BIO 332 is required. Offered: Fall.*

**BIO 336 • 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: BIO 122/122D; BIO 126/127; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 337 is required. Offered: Occasionally.*

**BIO 337 • Entomology and Parasitology Lab.** 1 Credit.

Laboratory experience accompanying BIO 336.

*Corequisites: Registration in BIO 336 is required. Offered: Occasionally.*

**BIO 338 • 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: BIO 120/121; BIO 122/122D; BIO 218, (may be taken concurrently). One course in Physiology is recommended. Corequisites: Registration in BIO 339 is required. Offered: Fall, even # years.*

**BIO 339 • Endocrinology Lab.** 1 Credit.

Laboratory experience accompanying BIO 338. Work is largely experimental, using bioassay procedures.

*Corequisites: Registration in BIO 338 is required. Offered: Fall even # years.*

**BIO 342 • 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: Two of BIO 122/122D, BIO 128/128D or ENS 104/104D; BIO 218 (may be taken concurrently) or major in Environmental Science or major in Environmental Studies. Corequisites: Registration in BIO 343 is required. Offered: Fall, even # years.*

**BIO 343 • Aquatic Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 342. Includes some outdoor and off-campus investigations.

*Corequisites: Registration in BIO 342 is required. Offered: Fall even # years.*

**BIO 346 • 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 PSY 100; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 347 is required. Special Notes: Carries cross-credit in Psychology. Offered: Fall, even # years.*

**BIO 347 • Animal Behavior Lab.** 1 Credit.

Laboratory experience accompanying BIO 346.

*Corequisites: Registration in BIO 346 is required. Offered: Fall even # years.*

**BIO 354 • 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 BIO 120/121; two courses in Chemistry (Organic recommended); BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 355 is required. Special Notes: This is a designated research course. Offered: Spring.*

**BIO 355 • Cell Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 354.

*Corequisites: Registration in BIO 354 is required. Offered: Spring. Special Notes: This is a designated research course.*

**BIO 358 • 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: BIO 100/100D, BIO 104/104D, BIO 120/121. BIO 122/122D recommended; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 359 is required. Offered: Fall, even # years.*

**BIO 359 • Neurobiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 358.

*Corequisites: Registration in BIO 358 is required. Offered: Fall even # years.*

**BIO 362 • 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: BIO 120/121 and one other Biology course; two courses in Chemistry; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 363 is required. Special Notes: This is a designated research course. Offered: Spring, even # years.*

**BIO 363 • Developmental Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 362. Includes surgical manipulation of living organisms to elucidate developmental principles.

*Corequisites: Registration in BIO 362 is required. Offered: Spring, even # years. Special Notes: This is a designated research course.*

**BIO 368 • 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 BIO 122/122D; BIO 218, (may be taken concurrently).*

*Corequisites: Registration in BIO 369 is required. Offered: Fall, odd # years.*

**BIO 369 • Structure and Development of Vertebrates Lab.** 1 Credit.

Laboratory experience accompanying BIO 368. Observational studies of live embryos, microscopic examination of representative vertebrate embryos, and dissection of representative vertebrate types.

*Corequisites: Registration in BIO 368 is required. Offered: Fall odd # years.*

**BIO 372 • 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 BIO 122/122D, BIO 128/128D, ENS 104/104D; BIO 218, (may be taken concurrently) or major in Environmental Science or major in Environmental Studies. Corequisites: Registration in BIO 373 is required. Offered: Fall, odd # years.*

**BIO 373 • Plant Taxonomy and Ecology Lab.** 1 Credit.

Laboratory experience accompanying BIO 372.

*Corequisites: Registration in BIO 372 is required. Offered: Fall odd # years.*

**BIO 376 • 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: BIO 120/121; BIO 122/122D; BIO 126/127; two courses in Chemistry; BIO 218, (may be taken concurrently). Corequisites: Registration in BIO 377 is required. Offered: Spring, even # years*

**BIO 377 • Animal Physiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 376.

*Corequisites: Registration in BIO 376 is required. Offered: Spring even # years.*

**BIO 380 • Environmental Plant Biology.** 3 Credits.

Presently our Earth is experiencing rapid change. In fact, it is hard to make it through a day without hearing about temperature extremes, significant weather events, drought conditions and environmental degradation. We often consider the role of the human in such change, but what about plants?

Plants play significant roles in the environment - driving and responding to carbon, water availability, nutrient levels and light. Through exploring how abiotic factors influence photosynthetic pathways, productivity and the movement of matter and energy, we will discover how plants respond to these rapid environmental changes. Course includes experiences working with data and statistics.

*Prerequisites: Two of BIO 122/122D, BIO 128/128D, ENS 104/104D; BIO 218, (may be taken concurrently) or major in Environmental Science or major in Environmental Studies; one semester of chemistry. Corequisites: Registration in BIO 383 is required. Special Notes: This is a designated research course. Offered: Spring, odd # years.*

**BIO 383 • Environmental Plant Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 380. Includes some outdoor and off-campus investigations.

*Corequisites: Registration in BIO 380 is required. Offered: Spring, odd # years. Special Notes: This is a designated research course.*

**BIO 384 • 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:* BIO 120/121; BIO 122/122D; two semesters of Chemistry, BIO 218, (may be taken concurrently); BIO 234/235, BIO 332/333, or BIO 354/355 is strongly recommended. *Corequisites:* Registration in BIO 387 is required. *Special Notes:* This is a designated research course. Offered: Fall, odd # years.

**BIO 387 • Immunology Lab.** 1 Credit.

Laboratory experience accompanying BIO 384.

*Corequisites:* Registration in BIO 384 is required. Offered: Fall, odd # years. *Special Notes:* This is a designated research course.

**BIO 388 • 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:* BIO 120/121; BIO 218, (may be taken concurrently); CHE 226/227, BIO 354/355 recommended. *Corequisites:* Registration in BIO 389 is required. *Special Notes:* Not open to students who have taken CHE 304/305, Carries cross-credit in Chemistry. Offered: Fall.

**BIO 389 • Biochemistry I Lab.** 1 Credit.

Laboratory experience accompanying BIO 388. Techniques include spectroscopy, chromatography, centrifugation, electrophoresis, and enzyme kinetics.

*Corequisites:* Registration in BIO 388 is required. Offered: Fall.

**BIO 396 • 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:* BIO 332/333; one additional biology course; CHE 224/225; CHE 226/227. *Corequisites:* registration in BIO 397 is required *Special Notes:* This is a designated research course. Offered: Spring.

**BIO 397 • Molecular Biology Lab.** 1 Credit.

Laboratory experience accompanying BIO 396. Consists of research projects utilizing recombinant DNA/genetic engineering techniques.

*Corequisites:* Registration in BIO 396 is required. Offered: Spring. *Special Notes:* This is a designated research course.

**BIO 399 • Introduction to Research.** 1 Credit.

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:* BIO 218, (may be taken concurrently); major in Biology or related field; Junior standing. *Special Notes:* Carries cross-credit in Environmental Studies. Offered: Fall, Spring.

**BIO 400 • 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:* BIO 120/121; BIO 218, (may be taken concurrently). *Corequisites:* Registration in BIO 401 is required. Offered: Occasionally.

**BIO 401 • Ultrastructure Lab.** 1 Credit.

Laboratory experience accompanying BIO 400.

*Corequisites:* Registration in BIO 400 is required. Offered: Occasionally.

**BIO 409 • 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:* BIO 214/215, BIO 224/225, or consent of instructor. Offered: Interim.

**BIO 481 • 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*

**BIO 493 • Literature Review in Biology.** 1 Credit.

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 BIO 499.

*Prerequisites: BIO 399; Senior standing; consent of instructor. Offered: Fall, Spring*

**BIO 495 • Biology Seminar.** 1-2 Credits.

Readings and discussions of topics that relate biology to one's Christian faith.

*Prerequisites: BIO 399; Senior standing. Offered: Fall*

**BIO 496 • Biology Research.** 1 Credit.

Students collect original data through independent laboratory research or field research under the supervision of a faculty member.

*Prerequisites: BIO 399; Completion or co-completion of a tagged research course; Consent of instructor.*

*Special Notes: May be repeated once for credit. Offered: Fall, Spring.*

**BIO 497 • Advanced Biology Research.** 1 Credit.

Working under the supervision of a faculty mentor, students analyze the results of their original research completed in BIO 496 and write up their findings in a formal scientific paper. Results will be presented in class and possibly outside venues. PQ; BIO 496.

*Offered: Fall.*

**BIO 499 • Biology Symposium.** 1 Credit.

The presentation of scientific research and literature. Culminates in departmental symposium in which students present their original research or literature review.

*Prerequisites: BIO 493 or BIO 496. Special Notes: Carries cross-credit in Environmental Studies. Offered: Fall, Spring.*

**NSC 130 • 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 NSC 130D is required. Offered: Spring. Special Notes: Carries cross-credit in Biology and Psychology.*

**NSC 130D • Intro to Neuroscience Lab.** 1 Credit.

Laboratory experience accompanying PSY 130.

*Corequisites: Concurrent registration in NSC 130 is required. Offered: Spring. Special Notes: Carries cross-credit in Biology and Psychology.*

**NSC 350 • Neuroscience Methods.** 3 Credits.

Principles and practice of neuroscience laboratory techniques. Laboratory and lecture experience are integrated to include introduction of histological, molecular, electrophysiological and computer-based neuroscience research. Collection of qualitative and quantitative data and data analysis.

*Prerequisites: BIO 120/BIO 121; BIO 130/PSY 130/NSC 130; PSY 230. Corequisites: Concurrent registration in NSC 351 is required.*

**NSC 351 • Neuroscience Methods Lab.** 1 Credit.

Lab experience accompanying NSC 350.

*Corequisites: Concurrent registration in NSC 350 is required.*

**NSC 358 • 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: BIO 100/100D; BIO 104/104D; BIO 120/121; BIO 122,122D recommended. Corequisites: Registration in NSC 359 is required. Offered: Fall, even # years.*

**NSC 359 • Neurobiology Lab.** 1 Credit.

Laboratory experience accompanying BIO 358.

*Prerequisites: BIO 100/100D; BIO 104/104D; BIO 120/121; BIO 122,122D recommended. Corequisites:*

*Registration in NSC 358 is required. Offered: Fall, even # years.*

**NSC 493 • Literature Review in Neuroscience.** 1 Credit.

Survey of contemporary and classical neuroscience literature. Journal club format in which topics of the students' choosing are researched, discussed, and methodologies assessed. Students will evaluate a variety of neuroscience research through a written summary.

*Prerequisites: Declared Neuroscience major, Junior standing. Offered: Spring.*

**NSC 496 • Neuroscience Research.** 1 Credit.

Students collect original data through independent laboratory/field research under the supervision of a neuroscience faculty member. Data are analyzed and conclusions drawn and reported.

*Prerequisites: BIO/PSY 130; BIO/PSY 130D; Consent of instructor. Offered: Fall.*

**NSC 499 • Neuroscience Seminar.** 1 Credit.

Readings and discussion of topics that relate neuroscience to one's Christian faith as well as moral, ethical, and societal issues. Topics may include the following examples: psychopharmacological enhancement of attention, memory, and mood; brain implants and "homo augmentus"; free will, the soul, responsibility, and personhood; definition of mental health and illness.

*Prerequisites: Declared Neuroscience major, Senior standing. Offered: Spring.*

**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

Code	Title	Credits
<b>Major in Biology (B.A.)</b>		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4
BIO 218	Biology in a Changing World	3
BIO 399	Introduction to Research	1
BIO 495	Biology Seminar	1
Choose an applied experience:		2-3
BIO 481 or BIO 496 & BIO 497	Internship in Biology Biology Research and Advanced Biology Research	1-4
BIO 499	Biology Symposium	1
Choose one course from each of the following three areas, at least one of which must be a designated research course		
Environmental area courses:		4
BIO 316 & BIO 317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	

BIO 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
BIO 324 & BIO 325	Human Ecology and Human Ecology Lab	
BIO 328 & BIO 329	Invertebrate Biology and Invertebrate Biology Lab	
BIO 330 & BIO 331	Ecology and Ecology Lab <sup>1</sup>	
BIO 342 & BIO 343	Aquatic Biology and Aquatic Biology Lab	
BIO 346 & BIO 347	Animal Behavior and Animal Behavior Lab	
BIO 372 & BIO 373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab	
BIO 380 & BIO 383	Environmental Plant Biology and Environmental Plant Biology Lab <sup>1</sup>	
Courses from Au Sable Institute of Environmental Studies		
Organismic area courses:		4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
BIO 326 & BIO 327	Vertebrate Histology and Vertebrate Histology Lab	
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab	
BIO 358 & BIO 359	Neurobiology and Neurobiology Lab	
BIO 368 & BIO 369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab	
BIO 376 & BIO 377	Animal Physiology and Animal Physiology Lab	
Cell and molecular area courses:		4
BIO 234 & BIO 235	Microbiology and Microbiology Lab	
BIO 332 & BIO 333	Genetics and Genetics Lab	
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>1</sup>	
BIO 362 & BIO 363	Developmental Biology and Developmental Biology Lab <sup>1</sup>	
BIO 384 & BIO 387	Immunology and Immunology Lab <sup>1</sup>	
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab <sup>1</sup>	
BIO 388 & BIO 389	Biochemistry I and Biochemistry I Lab	
BIO 400 & BIO 401	Ultrastructure and Ultrastructure Lab	

CHE 304 & CHE 305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
Electives from 200 level or above biology courses		16
Two chemistry courses, excluding CHE 107/CHE 107D and CHE 200, or CHE 208/CHE 208D, plus one additional biology course numbered 200 or higher		8
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		53-57
General Education		49-50
Electives		15-20
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> This is a designated research course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.



## B.A. in Science Education 9-12: Life Science Emphasis

Code	Title	Credits
<b>Major in Science Education 9-12: Life Science Emphasis (B.A.)</b>		
BIO 120 & BIO 121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	4
BIO 126 & BIO 127	Integrative Biology and Global Health and Integrative Biology and Global Health Lab	4
BIO 399	Introduction to Research	1
BIO 495	Biology Seminar	1-2
BIO 496	Biology Research <sup>2</sup>	1
BIO 499	Biology Symposium	1
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
BIO 330 & BIO 331 or BIO 342/343	Ecology and Ecology Lab <sup>2</sup> Aquatic Biology	4
BIO 332 & BIO 333	Genetics and Genetics Lab	4
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>2</sup>	4
BIO 372 & BIO 373 or BIO 380/383	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab Environmental Plant Biology	4
CHE 113 & CHE 113D & CHE 214 & CHE 215 or CHE 208/208D	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab Accelerated General Chemistry	4
PHY 102 & PHY 102D	Physics of Everyday Life and Physics of Everyday Life-Lab	4
Choose one of the following mathematics courses:		3-4
MAT 123M	Precalculus	
MAT 124M	Calculus 1	
PSY 230M	Introduction to Statistical Methods and Experimental Design	
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1

EDU 420	Methods in Teaching 5-12 Science	3
EDU 429	Science Education Practicum in Grades 5-8 or 5-12	1
EDU 490	Student Teaching Block <sup>1</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		83-85
General Education		49-50
<b>Total Credits</b>		<b>132-134</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

<sup>2</sup> This is a designated research course.

\* Courses whose number is followed by a letter fulfill 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 9-12 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

Code	Title	Credits
<b>Major in Biology (B.S.)</b>		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4
BIO 218	Biology in a Changing World	3
BIO 399	Introduction to Research	1
BIO 495	Biology Seminar	1
Choose an applied experience:		2-3
BIO 481	Internship in Biology	1-4
or BIO 496 & BIO 497	Biology Research and Advanced Biology Research	
BIO 499	Biology Symposium	1
Choose one course from each of the following three areas, at least one of which must be a designated research course		
Environmental area courses:		4
BIO 316 & BIO 317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab	
BIO 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
BIO 324 & BIO 325	Human Ecology and Human Ecology Lab	
BIO 328 & BIO 329	Invertebrate Biology and Invertebrate Biology Lab	
BIO 330 & BIO 331	Ecology and Ecology Lab <sup>1</sup>	

BIO 342 & BIO 343	Aquatic Biology and Aquatic Biology Lab
BIO 346 & BIO 347	Animal Behavior and Animal Behavior Lab
BIO 372 & BIO 373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab
BIO 380 & BIO 383	Environmental Plant Biology and Environmental Plant Biology Lab <sup>1</sup>

## Courses from Au Sable Institute of Environmental Studies

## Organismic area courses: 4

BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab
BIO 326 & BIO 327	Vertebrate Histology and Vertebrate Histology Lab
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab
BIO 358 & BIO 359	Neurobiology and Neurobiology Lab
BIO 368 & BIO 369	Structure and Development of Vertebrates and Structure and Development of Vertebrates Lab
BIO 376 & BIO 377	Animal Physiology and Animal Physiology Lab

## Cell and molecular area courses: 4

BIO 234 & BIO 235	Microbiology and Microbiology Lab
BIO 332 & BIO 333	Genetics and Genetics Lab
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>1</sup>
BIO 362 & BIO 363	Developmental Biology and Developmental Biology Lab <sup>1</sup>
BIO 384 & BIO 387	Immunology and Immunology Lab <sup>1</sup>
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab <sup>1</sup>
BIO 388 & BIO 389	Biochemistry I and Biochemistry I Lab
BIO 400 & BIO 401	Ultrastructure and Ultrastructure Lab
CHE 304 & CHE 305	Essentials of Biochemistry and Essentials of Biochemistry Lab

## Choose one of the following sequences: 8

CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab
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Minor in Biology 107

CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab (plus one additional biology course numbered 200 or greater)	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
Choose one of the following sequences:		8
PHY 202 & PHY 202D & PHY 206 & PHY 207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab	
PHY 292 & PHY 292D & PHY 296 & PHY 297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab	
Choose one of the following mathematics courses:		3-4
MAT 123M	Precalculus	
MAT 124M	Calculus 1	
MAT 125	Calculus 2	
MAT 207M	Statistical Analysis	
PSY 230M	Introduction to Statistical Methods and Experimental Design	
Electives from 200-level or above biology courses (of which 12 credits must be 300 level)		16

Code	Title	Credits
Major *		72-77
General Education		49-50
<b>Total Credits</b>		<b>122-126</b>

<sup>1</sup> This is a designated research course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Biology

Code	Title	Credits
<b>Minor in Biology</b>		
Choose two of the following:		7-8
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	
BIO 218	Biology in a Changing World	
Electives from 300-level or above Biology courses, excluding BIO 481		12
<b>Total Credits</b> *		<b>19-20</b>

\* Courses whose number is followed by a letter fulfill 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 *Accounting, Business Analysis and Analytics, Finance, Human Resource Management, Innovation and Entrepreneurship, International Business, and Marketing*
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, Economics or Leadership Studies also complement 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. 115)
- B.A. in Economics (p. 118)
- B.A. in Economics and Finance (p. 119)
- B.S. in Accounting and Finance (p. 120)

## Minors in Business and Economics

- Business (p. 121)
- Economics (p. 121)
- Leadership Studies (p. 253)

### **BUS 100M • 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, Interim.*

### **BUS 105 • 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.*

### **BUS 106 • Introduction to Business Applications.** 1 Credit.

A basic understanding of business applications software. Students gain a working knowledge of word processing, presentation software, spreadsheets, desktop publishing, and Internet Research.

*Offered: Fall, Spring.*

### **BUS 130 • 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.*

**BUS 200 • 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: BUS 210. Offered: Interim*

**BUS 202Z • 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.*

**BUS 208 • Business Communication.** 3 Credits.

Students apply clear, concise and captivating business writing tactics in designing audience centered business documents, using proven techniques in presentation and communication. Writing, presentation and team communication exercises are integrated into the course.

*Prerequisites: GES 160 or GES 244. Offered: Fall, Spring.*

**BUS 210 • Financial Accounting.** 4 Credits.

Basic financial accounting concepts and their application to the recording and reporting of business events.

*Prerequisites: BUS 100M; BUS 130; or MAT 124M. Offered: Fall, Spring.*

**BUS 212 • Personal Finance.** 3 Credits.

Management and planning of personal and family finances. Emphasis given to budgeting, investments, individual income tax, and insurance.

*Offered: Interim.*

**BUS 220 • 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: Sophomore standing or prior approval of course instructor Offered: Fall, Spring.*

**BUS 230 • Principles of Management.** 4 Credits.

Fundamentals of managerial activities: planning, organizing, leading, and controlling organizational activity.

*Offered: Fall, Spring.*

**BUS 231 • 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: BUS 230 or (COM 248 If a non-Business/Economics department student). Offered: Fall, Spring.*

**BUS 232 • 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: BUS 220; BUS 230. Offered: Spring*

**BUS 300 • 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*

**BUS 306 • 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: POS 100 recommended. Offered: Spring. Special Notes: Carries cross-credit in political science.*

**BUS 307 • 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: BUS 390 or consent of instructor. Offered: Interim, occasionally*

**BUS 309 • Brand Management.** 3 Credits.

Equips students with theoretical and practical knowledge necessary for a successful and efficient management of brands and the creation of strategies that build and preserve brand equity. Introduces the use of qualitative and quantitative methods in evaluating brand equity, brand strategy at different stages of the product life cycle, development of brand positioning, managing total brand experience and brand relevancy.

*Prerequisites: BUS 220. Offered: Fall, Spring.*

**BUS 310 • 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: BUS 210. Offered: Fall*

**BUS 311 • 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: BUS 310. Offered: Spring*

**BUS 312Z • 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: BUS 200. Offered: Spring*

**BUS 313 • Strategic Managerial Accounting.** 3 Credits.

Compilation and utilization of internal accounting information for managerial decision making.

*Prerequisites: BUS 210. Offered: Fall, Spring*

**BUS 315 • 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: BUS 220. Offered: Fall.*

**BUS 317 • Business Analytics.** 4 Credits.

Applies descriptive and predictive analytics of data and facts to decision making in business. Covers techniques of advanced data visualization, multiple regression analysis, time series forecasting, cluster analysis, association rules and machine learning. Uses a variety of business analytics software.

*Prerequisites: Junior standing; MAT 207M or MAT 330. Offered: Spring.*

**BUS 318G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]; BUS 220. One business course recommended. Offered: Fall, Spring.*

**BUS 319 • 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:* BUS 220. *Offered:* Fall, Interim.

**BUS 321 • 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:* BUS 220; MAT 207M. *Offered:* Fall, Spring.

**BUS 324 • 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:* BUS 220. *Offered:* Fall, Spring.

**BUS 325 • Business Analysis.** 3 Credits.

Provides an understanding of business analysis principles, practices, tools, and techniques. It applies these with a real-world application involving the use of Enterprise Business Applications and an Agile project management approach.

*Prerequisites:* BUS 106 or successful completion of the Business Application Competency Assessment; BUS 230. *Offered:* Fall.

**BUS 326 • Principles of Business Information Systems.** 3 Credits.

Business information systems and their role in today's organizations. Explores computing hardware, security, networking, databases, enterprise application software, business analysis, project management, and other technology necessary for effective organizations. Strengthens proficiency in business applications.

*Prerequisites:* BUS 106 or successful completion of the Business Application Competency Assessment. *Offered:* Fall.

**BUS 327 • 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 World Languages and Cultures. This class is taught and assignments are completed in Spanish.

**BUS 329 • Student Managed Investment Fund.** 1 Credit.

Students develop investment-related skills, including but not limited to wealth management, relationship management, marketing, operations, performance reporting, quantitative analysis, and economic analysis. These skills are applied as part of the student-managed investment fund, the Royals Investment Fund, LLC (the Fund).

*Prerequisites:* BUS 210; BUS 344 (May be taken concurrently), and selection by the faculty advisor through an application and interview process; Additional prerequisite for Chief Investment Officer and Fund Managers: BUS 390. *Offered:* Fall, Spring.

**BUS 330 • 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:* BUS 231. *Offered:* Fall

**BUS 331 • 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:* BUS 231. *Offered:* Spring.



**BUS 333 • 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: BUS 210; BUS 232; ECO 201. Offered: Fall*

**BUS 334 • 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: BUS 230 or (COM 248 if a non-Business/Economics department student). Offered: Spring.*

**BUS 335 • 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: BUS 230. Offered: Spring*

**BUS 342GZ • 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: [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]; consent of instructor. Offered: Occasionally Interim.*

**BUS 344 • Managerial Finance.** 4 Credits.

Principles of financial management, including financial analysis, capital structures, working capital management, and investment decisions.

*Prerequisites: BUS 210. Offered: Fall, Spring.*

**BUS 352 • 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: BUS 344. Offered: Fall, Spring.*

**BUS 361 • 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: BUS 230 and one other 200-level Business course. Offered: Fall, Spring.*

**BUS 371G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]; enrollment in the Europe Term. One Business course recommended. Offered: Occasionally.*

**BUS 390 • 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: BUS 344. Offered: Fall, Spring.*

**BUS 410 • Advanced Accounting.** 3 Credits.

Principles and problems relating to partnerships, international accounting, consolidated financial statements, corporate mergers, and governmental accounting.

*Prerequisites: BUS 311; all business core courses (except BUS 481). Offered: Fall*

**BUS 414 • 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: BUS 311; all business core courses (except BUS 481); senior standing. Offered: Spring*

**BUS 416 • Business Forecasting and Data Mining.** 3 Credits.

Business time-series forecasting, database management and querying, and some tools for data mining in business analytics. Specific application will include forecasting sales and revenue, economic trends, clustering data and classifying outcomes. Case studies, real world data, and relevant software will be used.

*Prerequisites: BUS 317; BUS 325; Offered: Spring.*

**BUS 417 • Business Analysis and Analytics Seminar.** 3 Credits.

Capstone courses in Business Analysis and Analytics emphasis. Integration of theories and practices learned in other courses through casework and practical exercises focused on equipping students to enter the business analysis, business analytics and business consulting market. Examines ethical questions that influence decision making.

*Prerequisites: BUS 317; BUS 334; all Business core courses (except BUS 481). Offered: Spring.*

**BUS 420 • 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: BUS 315, BUS 318G, BUS 319, BUS 321, or BUS 324; all Business core courses (except BUS 481); Senior standing. Offered: Fall, Spring.*

**BUS 430 • 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: All Business Core courses (except BUS 481). Offered: Fall*

**BUS 440 • 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: All Business core courses (except BUS 481); BUS 390 or consent of instructor. Offered: Fall, Spring.*

**BUS 455 • International Business Seminar.** 3 Credits.

Capstone course in the International Business emphasis. Integration of theories and practices relating to international business systems. Case studies and practical exercises focused on equipping students for work within international markets. Examines ethical issues when doing business internationally.

*Prerequisites: All Business core courses (except BUS 481); Senior standing; ECO 305; BUS 318G. Offered: Spring.*

**BUS 470 • 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: All Business core courses (except BUS 481); BUS 390 (may be taken concurrently). Offered: Fall, Spring.*

**BUS 475 • 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: All business core courses (except BUS 481); BUS 333. Offered: Spring*

**BUS 481 • 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*

**BUS 493 • Seminar - Human Resource Management.** 3 Credits.

Capstone course in the 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: All Business core courses (except BUS 481); Senior standing in the HR emphasis. Offered: Spring.*

**ECO 200 • 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 ECO 200 and ECO 201.*

**ECO 201 • 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 ECO 200 and ECO 201.*

**ECO 225L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall.*

**ECO 301 • Intermediate Microeconomics.** 3 Credits.

Models of consumption, production, and pricing in competitive and noncompetitive markets.

*Prerequisites: ECO 201. Offered: Fall, Spring.*

**ECO 302 • Intermediate Macroeconomics.** 3 Credits.

Models of real output and monetary behavior. Policies affecting unemployment, inflation, and economic growth.

*Prerequisites: ECO 201. Offered: Fall, Spring.*

**ECO 305 • 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: ECO 201. Offered: Fall.*

**ECO 320G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Fall.*

**ECO 340 • 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:* ECO 301; ECO 302 (one of two can be taken concurrently with ECO 340); MAT 207M; a college-level Calculus course. Offered: Fall.

**ECO 401 • Advanced Economic Theory.** 3 Credits.

Mathematical treatment of economic theory, emphasizing calculus.

*Prerequisites:* ECO 301; ECO 302; college-level course in Calculus; Senior standing or Consent of instructor; all Business core courses (except BUS 481). Offered: Spring.

**ECO 499 • Senior Seminar.** 3 Credits.

The integration of Christian faith with the theory and practice of business and economics.

*Prerequisites:* All Business core courses (except BUS 481); Senior standing; Economics major or minor, or Economics and Finance major. Offered: Spring.

## B.A. in Business

Code	Title	Credits
<b>Major in Business (B.A.)</b>		
<b>Core Courses</b> <sup>2,5</sup>		
BUS 100M or BUS 130	Business Calculus <sup>3</sup> Business Problem Solving	3
BUS 106	Introduction to Business Applications <sup>4</sup>	1
BUS 210	Financial Accounting	4
BUS 220	Principles of Marketing	4
BUS 230	Principles of Management	4
BUS 326	Principles of Business Information Systems	3
BUS 344	Managerial Finance	4
BUS 361	Business Law	3
BUS 481	Internship in Business <sup>1</sup>	3-4
ECO 201	Principles of Economics	4
MAT 207M	Statistical Analysis	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Business Core		36-37
Select One Emphasis		24-30
Business Core and Emphasis		60-67
<b>General Education</b>		<b>49-50</b>
Electives		5-13
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> To qualify for taking the Certified Public Accounting (CPA) exam, the internship course must be specifically designated as an Internship-Accounting in order to fulfill the rules established by the Minnesota Board of Accountancy. A maximum of six credits for internships can qualify for the 150-credit requirement for CPA licensing.

<sup>2</sup> Students must earn a minimum grade of C in each of the core courses to graduate.

- <sup>3</sup> MAT 124M may be used as a substitute. Students entering graduate school in business are strongly encouraged to take BUS 100M or MAT 124M. Students in Business Analysis and Analytics emphasis must take BUS 100M or MAT 124M.
- <sup>4</sup> Students can choose to take BUS 106 or successfully pass the Approved Assessment for 0 credits.
- <sup>5</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS 481), students must earn a minimum grade of D in each of the core Business courses.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

## Accounting Emphasis (27-28 credits)

Code	Title	Credits
BUS 200	Individual Tax Preparation	3
BUS 310	Intermediate Accounting I	4
BUS 311	Intermediate Accounting II	4
BUS 312Z	Federal Income Taxes	3
BUS 313	Strategic Managerial Accounting	3
BUS 410	Advanced Accounting	3
BUS 414	Auditing Principles and Procedures	4
Economics elective, 300-level or above		3-4
<b>Total Credits</b>		<b>27-28</b>

## Business Analysis and Analytics Emphasis (28-30 credits)

Code	Title	Credits
COS 100	Introduction to Programming	3
BUS 317	Business Analytics	4
BUS 325	Business Analysis	3
BUS 334	Principles of Project Management	3
BUS 416	Business Forecasting and Data Mining	3
BUS 417	Business Analysis and Analytics Seminar	3
ECO 301	Intermediate Microeconomics	3
or ECO 302	Intermediate Macroeconomics	
Business and/or economics elective course		3-4
Choose one of the following Quantitative courses:		3-4
BUS 321	Marketing Research	
BUS 352	Financial Valuation	
BUS 430	Strategic Management	
ECO 340	Econometrics	
COS 105	Computer Science I	
<b>Total Credits</b>		<b>28-30</b>

## Finance Emphasis (26 credits)

Code	Title	Credits
BUS 310	Intermediate Accounting I	4
or BUS 313	Strategic Managerial Accounting	
BUS 352	Financial Valuation	3

BUS 390	Investments	4
BUS 440	Capital Markets	3
BUS 470	Finance Seminar	3
ECO 302	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)

Code	Title	Credits
BUS 231	Human Resource Management	3
BUS 330	Compensation Theory and Practice	3
BUS 331	Staffing, Training and Development	3
BUS 335	Organizational Behavior	3
BUS 430	Strategic Management	3
BUS 493	Seminar - Human Resource Management	3
ECO 301	Intermediate Microeconomics	3
or ECO 302	Intermediate Macroeconomics	
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100 level)		6
<b>Total Credits</b>		<b>27</b>

## Innovation and Entrepreneurship Emphasis (27 credits)

Code	Title	Credits
BUS 231	Human Resource Management	3
BUS 232	Innovation and Entrepreneurship	3
BUS 333	Entrepreneurship Strategies and Tools	3
BUS 475	Innovation and Entrepreneurship Seminar	3
ECO 301	Intermediate Microeconomics	3
BUS 334	Principles of Project Management	3
or BUS 430	Strategic Management	
Electives from business and/or economics courses (minimum 6 credits; maximum 3 credits at the 100 level)		6
Choose one of the following Marketing courses:		3
BUS 315	Sales and Sales Management	
BUS 319	Advertising and Promotion	
BUS 324	Consumer Behavior	
<b>Total Credits</b>		<b>27</b>

## International Business Emphasis (27-29 credits)

Code	Title	Credits
ECO 302	Intermediate Macroeconomics	3
ECO 305	International Trade and Finance	3
BUS 318G	Global Marketing	3
BUS 430	Strategic Management	3

BUS 455	International Business Seminar	3
Business and/or economic elective course		3
Select one World Languages and Cultures course in addition to fulfilling the general education requirement		3-4
Choose one of the following Intercultural Competency courses:		3-4
COM 355Z	Intercultural Communication	
RES 340Z	Principles and Methods of Intercultural Leadership	
Choose one International Experience from:		3
BUS 202Z	Introduction to International Business (or other approved international experience) <sup>1</sup>	
BUS 342GZ	International Market Issues <sup>1</sup>	
Total Credits		27-29

<sup>1</sup> BUS 202Z may be waived by petition upon the completion of an international study experience with prior approval of the department.

## Marketing Emphasis (24 credits)

Code	Title	Credits
ECO 301	Intermediate Microeconomics	3
BUS 309	Brand Management	3
BUS 318G	Global Marketing	3
BUS 321	Marketing Research	3
BUS 324	Consumer Behavior	3
BUS 420	Marketing Seminar	3
Business and/or economics elective course		3
Choose one of the following Marketing Activities courses:		3
BUS 315	Sales and Sales Management	
BUS 319	Advertising and Promotion	
BUS 208	Business Communication	
Total Credits		24

## B.A. in Economics

Code	Title	Credits
<b>Major in Economics (B.A.)</b>		
<b>Core Courses<sup>1</sup></b>		
ECO 201	Principles of Economics	4
MAT 207M	Statistical Analysis	3
BUS 100M	Business Calculus	3-4
or MAT 124M	Calculus 1	
<b>Additional Required Courses</b>		
ECO 301	Intermediate Microeconomics	3
ECO 302	Intermediate Macroeconomics	3
ECO 340	Econometrics	4
ECO 401	Advanced Economic Theory	3
ECO 499	Senior Seminar	3

BUS 481	Internship in Business	3-4
Electives from 200-level or above economics courses, excluding ECO 200		9

Code	Title	Credits
<b>Major *</b>		
General Education		49-50
Electives		32-35
<b>Total Credits</b>		<b>122</b>

<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.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

Students considering graduate studies in economics should select and and give consideration to earning a mathematics minor.

## B.A. in Economics and Finance

Code	Title	Credits
<b>Major in Economics and Finance (B.A.)</b>		
<b>Core Courses <sup>1,3</sup></b>		
BUS 106	Introduction to Business Applications <sup>2</sup>	1
BUS 210	Financial Accounting	4
BUS 220	Principles of Marketing	4
BUS 230	Principles of Management	4
BUS 326	Principles of Business Information Systems	3
BUS 344	Managerial Finance	4
BUS 361	Business Law	3
BUS 481	Internship in Business	3-4
MAT 207M	Statistical Analysis	3
BUS 100M or MAT 124M	Business Calculus Calculus 1	3-4
<b>Additional Required Courses</b>		
BUS 317 or ECO 340	Business Analytics Econometrics	4
BUS 390	Investments	4
BUS 440	Capital Markets	3
ECO 201	Principles of Economics	4
ECO 301	Intermediate Microeconomics	3
ECO 302	Intermediate Macroeconomics	3
ECO 401	Advanced Economic Theory	3
ECO 499	Senior Seminar	3
Business and/or economics elective course, excluding ECO 200		3
<b>Code Title Credits</b>		
<b>Major *</b>		
General Education		62-64
		49-50



Electives	8-11
<b>Total Credits</b>	<b>122</b>

- <sup>1</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS 481), students must earn a minimum grade of a D in each of the core Business courses.
- <sup>2</sup> Students can choose to take BUS 106 or successfully pass the Approved Assessment for 0 credits.
- <sup>3</sup> Students must earn a minimum grade of a C in each of the core Business courses to graduate.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Accounting and Finance

Code	Title	Credits
<b>Major in Accounting and Finance (B.S.)</b>		
<b>Core Courses</b> <sup>2,6</sup>		
BUS 100M	Business Calculus <sup>3</sup>	3
BUS 106	Introduction to Business Applications <sup>5</sup>	1
BUS 210	Financial Accounting	4
BUS 220	Principles of Marketing	4
BUS 230	Principles of Management	4
BUS 326	Principles of Business Information Systems	3
BUS 344	Managerial Finance	4
BUS 361	Business Law	3
BUS 481	Internship in Business <sup>4</sup>	3-4
ECO 201	Principles of Economics	4
MAT 207M	Statistical Analysis	3
<b>Additional Required Courses</b>		
BUS 200	Individual Tax Preparation	3
BUS 310	Intermediate Accounting I	4
BUS 311	Intermediate Accounting II	4
BUS 312Z	Federal Income Taxes	3
BUS 313	Strategic Managerial Accounting	3
BUS 352	Financial Valuation	3
BUS 390	Investments	4
BUS 410	Advanced Accounting	3
BUS 414	Auditing Principles and Procedures	4
BUS 440	Capital Markets	3
BUS 470	Finance Seminar	3
ECO 301	Intermediate Microeconomics	3
ECO 302	Intermediate Macroeconomics	3
Choose one of the following Analytics course:		4
BUS 317	Business Analytics	
ECO 340	Econometrics	
Choose one of the following International courses		3
BUS 202Z	Introduction to International Business	

ECO 305	International Trade and Finance	
ECO 320G	Economic Development of Less-Developed Countries	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		86-87
General Education		49-50
Electives (a minimum of 13-15 credits must be taken outside the Department of Business and Economics) <sup>1</sup>		13-15
<b>Total Credits</b>		<b>150</b>

- <sup>1</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.
- <sup>2</sup> In order to enroll in 400-level BUS and ECO courses (except for BUS 481), students must earn a minimum grade of *D* in each of the core Business courses.
- <sup>3</sup> MAT 124M may be used as a substitute. Students entering graduate school in business are strongly encouraged to take BUS 100M or MAT 124M.
- <sup>4</sup> To qualify for taking the Certified Public Accounting (CPA) exam, the internship course must be specifically designated as an Internship-Accounting in order to fulfill the rules established by the Minnesota Board of Accountancy. A maximum of six credits for internships can qualify for the 150-credit requirement for CPA licensing.
- <sup>5</sup> Students can choose to take BUS 106 or successfully pass the Approved Assessment for 0 credits.
- <sup>6</sup> Students must earn a minimum grade of a C in each of the core Business courses to graduate.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Business

Code	Title	Credits
<b>Minor in Business</b>		
BUS 100M or BUS 130	Business Calculus <sup>1</sup> Business Problem Solving	3
BUS 210	Financial Accounting	4
BUS 220	Principles of Marketing	4
BUS 230	Principles of Management	4
BUS 344	Managerial Finance	4
ECO 201	Principles of Economics	4
<b>Total Credits</b> *		<b>23</b>

- <sup>1</sup> MAT 124M may be used as a substitute.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Economics

Code	Title	Credits
<b>Minor in Economics</b>		
ECO 201	Principles of Economics	4
ECO 301 or ECO 302	Intermediate Microeconomics Intermediate Macroeconomics	3

Electives from 200-level or above economics courses, excluding ECO 200	12
<b>Total Credits</b> *	<b>19</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# Chemistry

The study of chemistry is concerned with the composition, structure, properties, and transformations of matter. 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 Healthcare (p. 217) 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. 127)
- B.A. in Science Education 9-12: Chemistry Emphasis (p. 128)
- B.S. in Biochemistry/Molecular Biology (p. 267) (See Multidisciplinary section)
- B.S. in Chemistry (p. 129)

## Minor in Chemistry

- Chemistry (p. 130)

### **CHE 101 • 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.

*Corequisites: Registration in CHE 101D is required. Offered: Fall, Spring.*

### **CHE 101D • Introduction to Chemistry Lab.** 1 Credit.

Laboratory experience accompanying CHE 101.

*Corequisites: Registration in CHE 101 is required. Offered: Fall, Spring.*

### **CHE 107 • Modern Alchemy: Chemistry for Non-Scientists.** 3 Credits.

The chemical world including, for example, food, agriculture, household chemicals, plastics, drugs, environmental concerns, and energy production. An overview of chemical concepts with an emphasis on applications of chemistry and their implications for society.

*Corequisites: Registration in CHE 107D is required. Offered: Interim.*

### **CHE 107D • Modern Alchemy: Chemistry for Non-Scientists Lab.** 1 Credit.

Laboratory experience accompanying CHE 107.

*Corequisites: Registration in CHE 107 is required. Offered: Interim.*

**CHE 113 • General Chemistry I.** 3 Credits.

Chemical properties and principles, structure and reactivity, stoichiometry, thermodynamics, atomic and molecular theory, and states of matter. 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. *Corequisites:* Registration in CHE 113D is required. *Offered:* Fall

**CHE 113D • General Chemistry I Lab.** 1 Credit.

Laboratory experience accompanying CHE 113.

*Corequisites:* Registration in CHE 113 is required. *Offered:* Fall.

**CHE 200 • Laboratory Safety and Chemical Hygiene.** 1 Credit.

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, Spring.

**CHE 208 • 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:* MAT 124M (may be taken concurrently). *Corequisites:* Registration in CHE 208D is required. *Offered:* Fall. *Special Notes:* Meets the same requirements of CHE 113/113D and CHE 214/215.

**CHE 208D • Accelerated General Chemistry Lab.** 1 Credit.

Laboratory experience accompanying CHE 208.

*Corequisites:* Registration in CHE 208 is required. *Offered:* Fall.

**CHE 214 • General Chemistry II.** 3 Credits.

Study of solutions, chemical kinetics, thermodynamics, solution equilibria, acids and bases, electrochemistry, descriptive inorganic chemistry, and nuclear chemistry.

*Prerequisites:* CHE 113/113D. *Corequisites:* Registration in CHE 215 is required. *Offered:* Spring

**CHE 215 • General Chemistry II Lab.** 1 Credit.

Laboratory experience accompanying CHE 214.

*Corequisites:* Registration in CHE 214 is required. *Offered:* Spring.

**CHE 224 • Organic Chemistry I.** 3 Credits.

Structure, classification, and function of organic compounds; bonding theory, stereochemistry, organic reaction mechanisms, energy relations, and spectroscopy.

*Prerequisites:* CHE 214/215 or CHE 208/208D. *Corequisites:* Registration in CHE 225 is required. *Offered:* Fall

**CHE 225 • Organic Chemistry I Lab.** 1 Credit.

Laboratory experience accompanying CHE 224. Includes introduction to techniques of measurement, analysis, separation, synthesis, and purification of organic compounds.

*Corequisites:* Registration in CHE 224 is required. *Offered:* Fall.

**CHE 226 • 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:* CHE 224/225. *Corequisites:* Registration in CHE 227 is required. *Offered:* Spring

**CHE 227 • Organic Chemistry II Lab.** 1 Credit.

Laboratory experience accompanying CHE 226. Laboratory includes synthesis, separation, purification, and identification of organic compounds. *Offered:* Spring.

*Corequisites:* Registration in CHE 226 is required.

**CHE 304 • 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:* CHE 224/CHE 225; BIO 120/BIO 121. Not open to students who have taken BIO 388/BIO 389 or CHE 388/CHE 389. *Corequisites:* Registration in CHE 305 is required. *Offered:* Fall

**CHE 305 • Essentials of Biochemistry Lab.** 1 Credit.

Laboratory experience accompanying CHE 304.

*Corequisites:* Registration in CHE 304 is required. *Offered:* Fall.

**CHE 306 • Advanced Organic Chemistry.** 3 Credits.

Bonding, kinetics, mechanisms of reactions, stereochemistry, and structure determination of organic compounds.

*Prerequisites:* CHE 226/227; CHE 344/345. *Corequisites:* Registration in CHE 307 is required. *Offered:* Occasionally

**CHE 307 • Advanced Organic Chemistry Lab.** 1 Credit.

Laboratory experience accompanying CHE 306.

*Corequisites:* Registration in CHE 306 is required. *Offered:* Occasionally.

**CHE 312 • Quantitative Analysis.** 3 Credits.

Principles and practice of modern quantitative analysis. Acid-base and ionic equilibria. Statistics, method selection and development, chromatography, and electrochemistry.

*Prerequisites:* CHE 214/215 or CHE 208/208D. *Corequisites:* Registration in CHE 313 is required. *Offered:* Spring.

**CHE 313 • Quantitative Analysis Lab.** 1 Credit.

Laboratory experience accompanying CHE 312.

*Corequisites:* Registration in CHE 312 is required. *Offered:* Spring.

**CHE 320 • Instrumental Analysis.** 3 Credits.

Methods of instrumental analysis. Study of chemical and physical principles and practical application of spectroscopy, spectrometry, chromatography and electroanalysis. Fundamental electronic circuitry and computer data acquisition and control.

*Prerequisites:* CHE 312/313 or CHE 226/CHE 227 *Corequisites:* Registration in CHE 321 is required. *Offered:* Fall.

**CHE 321 • Instrumental Analysis Lab.** 1 Credit.

Laboratory experience accompanying CHE 320.

*Corequisites:* Registration in CHE 320 is required. *Offered:* Fall.

**CHE 344 • Thermodynamics, Kinetics, and Statistical Mechanics.** 3 Credits.

Physical chemistry of the laws of thermodynamics and their application to phase and chemical equilibria. Chemical kinetics of reaction rates and reaction mechanisms. Statistical mechanics as it relates spectroscopy with thermodynamics and kinetics.

*Prerequisites:* CHE 214/215 or CHE 208/208D; PHY 292/292D; PHY 296/297; MAT 125. *Corequisites:* Registration in CHE 345 is required. *Offered:* Fall

**CHE 345 • Thermodynamics, Kinetics, and Statistical Mechanics Lab.** 1 Credit.

Laboratory experience accompanying CHE 344. Includes hands-on experience with physiochemical systems and computational modeling.

*Corequisites:* Registration in CHE 344 is required. *Offered:* Fall.

**CHE 348 • 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:* CHE 208/208D or CHE 214/215; PHY 292/292D; PHY 296/297; MAT 125. *Corequisites:* Registration in CHE 349 is required. *Offered:* Spring

**CHE 349 • Quantum Chemistry and Spectroscopy Lab.** 1 Credit.

Laboratory experience accompanying CHE 348. Includes hands-on experience with physiochemical systems and computational modeling.

*Corequisites: Registration in CHE 348 is required. Offered: Spring.*

**CHE 364 • 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: CHE 344/345; One year of Organic Chemistry or Junior standing. Corequisites: Registration in CHE 365 is required. Offered: Spring*

**CHE 365 • Advanced Inorganic Chemistry Lab.** 1 Credit.

Laboratory experience accompanying CHE 364. Laboratory includes synthesis and characterization of inorganic compounds.

*Corequisites: Registration in CHE 364 is required. Offered: Spring.*

**CHE 388 • 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: CHE 226/227; CHE 344/345; BIO 120/121. BIO 354/355 recommended. Corequisites: Registration in CHE 389 is required. Offered: Fall. Special Notes: Not open to students who have taken CHE 304/305; Carries cross-credit in Biology.*

**CHE 389 • Biochemistry I Lab.** 1 Credit.

Laboratory experience accompanying CHE 388. Techniques include spectroscopy, chromatography, centrifugation, electrophoresis, and enzyme kinetics.

*Corequisites: Registration in CHE 388 is required. Offered: Fall.*

**CHE 393 • 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.*

**CHE 395 • Chemistry Seminar: Research and Professional Development.** 1 Credit.

Students search the chemical literature and develop a proposal for their capstone research project. Discussion of chemical careers, graduate and professional school preparation, and ethical conduct in science.

*Prerequisites: CHE 200 (may be taken concurrently); Junior standing; must be a Chemistry or Biochemistry/Molecular Biology major. Offered: Fall.*

**CHE 396 • 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: CHE 388/389 or BIO 388/389. Corequisites: Registration in CHE 397 is required. Offered: Spring*

**CHE 397 • Biochemistry II Lab.** 1 Credit.

Laboratory experience accompanying CHE 396. Laboratory includes procedures and experiments for the isolation and characterization of enzymes, RNA and DNA, molecular cloning, PCR, and gene expression.

*Corequisites: Registration in CHE 396 is required. Offered: Spring.*

**CHE 490 • Chemistry Seminar: Research.** 2 Credits.

Students pursue an original research project in Chemistry or Biochemistry supported by a faculty mentor. Required time commitment is approximately 3.5 hours per week per credit, including weekly meeting with faculty mentor.

*Prerequisites: CHE 395; Consent of instructor. Offered: Fall, Spring.*

**CHE 491 • Research.** 1-4 Credits.

Students pursue an original research project in Chemistry or Biochemistry supported by a faculty mentor. Required time commitment is approximately 3.5 hours per week per credit, including weekly meeting with faculty mentor.

*Prerequisites: CHE 490; Consent of department. Offered: Fall, Interim, Spring.*

**CHE 494 • Chemistry Seminar: Research Presentation.** 1 Credit.

Students prepare and deliver formal presentations of their research results. Seminar meets weekly for discussion of current topics.

*Prerequisites: CHE 490. Offered: Fall, Spring*

## B.A. in Chemistry

Code	Title	Credits
<b>Major in Chemistry (B.A.)</b>		
Choose either General Chemistry I and II and Labs or Accelerated General Chemistry and Lab		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab	
Or		
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE 200	Laboratory Safety and Chemical Hygiene	1
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
CHE 344 & CHE 345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 395	Chemistry Seminar: Research and Professional Development	1
CHE 490	Chemistry Seminar: Research	2
CHE 494	Chemistry Seminar: Research Presentation	1
Electives from 300 or 400 level chemistry courses		12
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		53-57
General Education		49-50



Electives	15-20
<b>Total Credits</b>	<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Science Education 9-12: Chemistry Emphasis

Code	Title	Credits
<b>Major in Science Education 9-12: Chemistry Emphasis (B.A.)</b>		
Choose one of the following:		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	
or		
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE 200	Laboratory Safety and Chemical Hygiene	1
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
CHE 344 & CHE 345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 395	Chemistry Seminar: Research and Professional Development	1
CHE 490	Chemistry Seminar: Research	2
CHE 494	Chemistry Seminar: Research Presentation	1
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 420	Methods in Teaching 5-12 Science	3

EDU 429	Science Education Practicum in Grades 5-8 or 5-12	1
EDU 490	Student Teaching Block	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		77-81
General Education		49-50
<b>Total Credits</b>		<b>127-130</b>

\* Courses whose number is followed by a letter fulfill 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 9-12 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

This is an American Chemical Society certified major.

Code	Title	Credits
<b>Major in Chemistry (B.S.)</b>		
Choose one of the following:		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab	
Or		
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE 200	Laboratory Safety and Chemical Hygiene	1
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
CHE 320 & CHE 321	Instrumental Analysis and Instrumental Analysis Lab	4
CHE 344 & CHE 345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 348 & CHE 349	Quantum Chemistry and Spectroscopy and Quantum Chemistry and Spectroscopy Lab	4
CHE 364 & CHE 365	Advanced Inorganic Chemistry and Advanced Inorganic Chemistry Lab	4
CHE 388 & CHE 389	Biochemistry I and Biochemistry I Lab	4
CHE 395	Chemistry Seminar: Research and Professional Development	1
CHE 490	Chemistry Seminar: Research	2

CHE 494	Chemistry Seminar: Research Presentation	1
Electives from 300- or 400-level chemistry courses		6
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 222	Differential Equations	3
or MAT 223	Multivariable Calculus	
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		66-70
General Education		49-50
Electives		2-7
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Chemistry

Code	Title	Credits
<b>Minor in Chemistry</b>		
Choose one of the following sequences:		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab	
Or		
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
Electives from 200 or 300-level chemistry courses		16
<b>Total Credits</b> *		<b>20-24</b>

\* Courses whose number is followed by a letter fulfill 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

Code	Title	Credits
<b>Minor in Classics</b>		
HIS 310	Near Eastern and Greek Civilizations	4
HIS 311	Roman Civilization	4
Choose one of the following:		
ARH 220	Art History - Ancient Through Medieval	
BIB 264Z	Greece-Italy Study Tour	
PHI 251	History of Philosophy I	
Choose one of the following language courses:		3-4
GRK 371	Advanced Greek Translation	
HEB 102S	Introductory Biblical Hebrew II	
LAT 102S	Introductory Latin II	
Choose one of the following elective courses, (if not selected above):		3-4
ARH 220	Art History - Ancient Through Medieval	
BIB 210	History of Ancient Israel	
BIB 230Z	Israel Study Tour	
BIB 236	Archaeology of the Southern Levant	
BIB 264Z	Greece-Italy Study Tour	
PHI 251	History of Philosophy I	
<b>Total Credits *</b>		14-16

\* Courses whose number is followed by a letter fulfill 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. 139)
- B.A. in Independent Filmmaking (p. 141)
- B.A. in Media Production (p. 142)
- B.A. in Organizational Communication (p. 143)

## Minors in Communication Studies

- Communication Studies (p. 145)
- Digital Film and Video for Actors (p. 145)
- Media Production (p. 146)

### **COM 110 • 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.*

### **COM 120 • 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.*

### **COM 135 • Forensics.** 1 Credit.

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.

*Prerequisites: Consent of instructor. Repeatable course May be repeated for up to 4 credits. Special Notes: Open to Forensics Team members fall and spring. Offered: Fall and Spring.*

### **COM 170A • 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.*

**COM 208U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally interim*

**COM 209 • Introduction to Health Communication.** 3 Credits.

Introduces students to communication surrounding health care. Beginning with the history of health care and theoretical foundations of what health and illness mean, the course goes on to explore concepts like provider-patient communication, social support, health literacy, cross-cultural barriers to health care, ethical considerations surrounding health communication and a Christian approach to health and illness.

*Prerequisites: HAS 110 (may be taken concurrently). Offered: Fall*

**COM 210 • 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, organizational, and rhetorical communication.

*Offered: Fall, spring.*

**COM 213 • 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.*

**COM 215 • 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. Special Notes: No background with web design is necessary, but familiarity with the internet and a current browser is required.*

**COM 217A • Screenwriting.** 4 Credits.

Study of the conventions of the screenplay and practice in screenwriting. Emphasis on creating and adapting, writing, and editing narrative screenplays.

*Offered: Interim, odd # years.*

**COM 218 • Facilitating Difficult Conversations.** 3 Credits.

Exploration of inter-group dialogue. Examines the challenges of engaging in difficult conversations, including topics such as perception, social identities, emotional triggers, narratives, and privilege.

Students participate in dialogue on difficult topics throughout the course and become skilled in listening, questioning, and facilitating small group interactions.

*Prerequisites: GES 140. Offered: Occasionally Fall.*

**COM 220 • 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.*

**COM 230L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).*

*Offered: Fall*

**COM 235 • Forensics.** 1 Credit.

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.

*Prerequisites: Consent of instructor. Repeatable course May be repeated for up to 4 credits. Special Notes: Open to Forensics Team members fall and spring. Offered: Fall, Spring.*

**COM 248 • 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.*

**COM 264 • Storytelling.** 3 Credits.

An examination of communication in 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 arc, action, motif, etc.

*Prerequisites: COM 170A or consent of instructor. Offered: Interim, even # years*

**COM 270 • 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: COM 170A. Offered: Fall, Spring.*

**COM 301A • 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*

**COM 302 • 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.

*Offered: Fall, spring.*

**COM 310K • 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.*

**COM 314G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Fall*

**COM 315G • European Language and Culture Area Study.** 3 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.*

**COM 318 • 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.*

**COM 319 • Health Campaigns and Technology.** 3 Credits.

Explores how health campaigns and technology influence individual and societal health behavior and attitudes. Examines both theoretical and applied approaches to health literacy, health informatics, and the process of influencing health-related choices. Culminates with the creation of a health campaign that utilizes appropriate theories, methods, and technologies.

*Prerequisites: COM 209. Offered: Spring*

**COM 322 • 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.*

**COM 323 • 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: COM 248. Offered: Spring, odd # years*

**COM 324 • Professional and Technical Communication.** 4 Credits.

Introduction to professional and technical communication skills. Topics include interviewing, technical speaking, speaking and writing to a lay audience, and visual communication skills. Students will learn how to present complex information in a variety of formats with an audience centered approach.

*Offered: Spring even # years.*

**COM 325 • 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: COM 110 or COM 210 or consent of instructor. Special Notes: Carries cross-credit in political science. Offered: Occasionally.*

**COM 335 • Forensics.** 1 Credit.

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.

*Prerequisites: Consent of instructor. Repeatable course May be repeated for up to 4 credits. Special Notes: Open to Forensics Team members fall and spring. Offered: Fall, Spring.*

**COM 350 • 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: BUS 230 or COM 248; ENW 115. Offered: Interim.*

**COM 352 • 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: COM 213. Offered: Fall, Spring*



**COM 355Z • 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. *Special Notes:* The course includes a 30-hour intercultural service learning component. *Offered:* Fall, Spring, (offered on Europe term fall odd # years).

**COM 361 • Rhetorical Criticism.** 3 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:* COM 210 or COM 230L. *Offered:* Occasionally

**COM 363 • 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:* COM 210; two courses in communication. *Offered:* Fall, Spring

**COM 365 • Crisis Communication.** 3 Credits.

Crisis communication is a subfunction of organizational communication. Because crises can impact an organization's reputation and, at times, existence, careful preparation and communication are vital. Examines examples of crises, crisis communication theory, and crisis management approaches, in addition to ethical considerations for all phases of dealing with organizational crises.

*Prerequisites:* COM 350 or consent of instructor. *Offered:* Occasionally

**COM 366 • Strategic Social Media in Organizations.** 3 Credits.

Examination of the role of social media in business marketing and public relations. Analyzes how new media are changing the way businesses sell their products, communicate with customers, make decisions, and create community.

*Offered:* Fall.

**COM 367 • Interpersonal Conflict.** 3 Credits.

Theories and principles of interpersonal conflict are examined. Study ways in which personal history, tactics, styles of expression and strategies of interaction impact types of conflict and their eventual resolution. Evaluate models of conflict resolution with an emphasis on issues of forgiveness and reconciliation.

*Offered:* Fall.

**COM 368 • Nonverbal Communication.** 3 Credits.

Nonverbal communication codes will be examined, including their structures, usages, and interrelationships. Stresses student understanding, analysis, and application of nonverbal communication through lecture, discussion, and experiential activities. Explores the impact of nonverbal communication on culture and interaction.

*Offered:* Fall.

**COM 370 • Interpersonal Communication.** 4 Credits.

The interpersonal communication process. Theory and pragmatics related to dyadic communication.

Explores issues such as self-identity, self-esteem, listeners, emotions, conflict, relational development and maintenance, gender, and nonverbal communication. Opportunity to evaluate and develop personal interaction skills.

*Offered:* Fall, Spring.

**COM 373 • 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:* COM 170A; COM 270, or consent of instructor. *Offered:* Spring

**COM 374 • 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: COM 170A or consent of instructor. Offered: Fall*

**COM 375 • 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: COM 210; COM 213. Offered: Spring*

**COM 376 • 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: COM 248; COM 350. Offered: Spring, even # years*

**COM 386 • 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.*

**COM 387 • 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*

**COM 400 • 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. Special Notes: Students taking COM 400 may not use GES 426P to fulfill a requirement in the BA in Communication Studies major. Offered: Spring.*

**COM 435 • Forensics.** 1 Credit.

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 and Spring. Special Notes: Open to Forensics Team members fall and spring.*

**COM 460 • Topics in Organizational Communication.** 3 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 hand-on perspective.

*Prerequisites: COM 350 or consent of instructor. Repeatable course May be repeated if a different topic is emphasized. Offered: Occasionally fall.*

**COM 462 • Topics in Relational Communication.** 3 Credits.

Explores the cognitions, language, and relationship behaviors related to interpersonal and the resulting intergenerational communication across the lifespan. The class will explore the communication development patterns of children, adolescents, family communication, peer-group communication (among age cohorts), intergenerational communications, later-life communication, as well as longitudinal studies of lifespan communication development and communication during lifespan transitions.

*Offered: Occasionally fall.*

**COM 463 • 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. Theories applied to contemporary and historical communication artifacts.

*Prerequisites:* COM 210. *Repeatable course:* May be repeated if a different topic is emphasized. *Offered:* Interim, Occasionally Spring

**COM 464 • Dating, Mating, & Relating: Lifespan Communication.** 3 Credits.

Explores the communication development and patterns of children and adolescents, family communication, peer-group communication (among age cohorts), intergenerational communication, and later-life communication, as well as theoretical studies of lifespan communication development, communication during lifespan transitions, and lifespan communication research methods.

*Offered:* Occasionally fall.

**COM 481 • Internship in Communication.** 3-4 Credits.

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.

**COM 493 • Capstone: Independent Filmmaking and Media Production.** 4 Credits.

Introduction of different forms of documentary filmmaking and how it shapes viewers' understanding of the world and how they represent the world and comment on representation by using, parodying, or critiquing reality, authenticity, truth, fact, and objectivity. Students demonstrate understanding and skill in filmmaking/media production through the art of documentary filmmaking.

*Prerequisites:* COM 302; COM 373 or COM 374; Senior standing. *Offered:* Spring.

**COM 494 • 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:* COM 350; COM 363; Senior standing. *Offered:* Spring.

**COM 497 • 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:* COM 220 or COM 322; COM 363; COM 370. *Offered:* Spring

**COM 498 • 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:* COM 230L; COM 361. *Offered:* Spring, odd # years.

## B.A. in Communication Studies

Code	Title	Credits
<b>Major in Communication Studies (B.A.)</b>		
<b>Communication Core</b>		
COM 210	Perspectives on Human Communication	3
COM 213	Media Communication	3
COM 363	Methods of Communication Research	4
<b>Code</b>		
<b>Title</b>		<b>Credits</b>
Communication Core		10
Select one emphasis		35-41
General Education		49-50
Electives		21-28
<b>Total Credits</b>		<b>122</b>

### Health Communication Emphasis (37-41 credits)

Code	Title	Credits
HAS 110	Introduction to Healthcare	3
COM 209	Introduction to Health Communication	3
COM 319	Health Campaigns and Technology	3
COM 324	Professional and Technical Communication	4
COM 355Z	Intercultural Communication	4
COM 370	Interpersonal Communication	4
COM 481	Internship in Communication	3-4
COM 497	Capstone: Relational Studies	4
Choose three from the following:		9-12
COM 220	Group Communication	
or COM 322	Advanced Group Communication	
COM 314G	Gender Communication	
COM 367	Interpersonal Conflict	
COM 368	Nonverbal Communication	
COM 400	Family Communication	
COM 464	Dating, Mating, & Relating: Lifespan Communication	
GES 448P	Abusive Relationships and Christian Responsibility	
SPA 208	Spanish for Health Professionals	
<b>Total Credits</b>		<b>37-41</b>

### Relational Studies Emphasis (35-38 credits)

Code	Title	Credits
COM 370	Interpersonal Communication	4
COM 400	Family Communication	4
COM 481	Internship in Communication	3-4
COM 497	Capstone: Relational Studies	4
COM 220	Group Communication	4

or COM 322	Advanced Group Communication	
Choose three of the following Relational Topics courses:		9-10
COM 314G	Gender Communication <sup>1</sup>	
COM 355Z	Intercultural Communication <sup>1</sup>	
COM 367	Interpersonal Conflict	
COM 368	Nonverbal Communication	
GES 448P	Abusive Relationships and Christian Responsibility <sup>1</sup>	
COM 462	Topics in Relational Communication <sup>2</sup>	
COM 464	Dating, Mating, & Relating: Lifespan Communication	
Choose one of the following Oral Communications courses:		4
COM 301A	Oral Interpretation <sup>1</sup>	
COM 318	Argumentation and Debate	
COM 386	Advanced Public Speaking	
COM 387	Speaking in Ministry Contexts	
Choose one of the following Communication Analysis courses:		3-4
COM 325	Political Communication	
COM 361	Rhetorical Criticism	
COM 375	Media Criticism and Theory	
COM 463	Topics in Communication Analysis	
<b>Total Credits</b>		<b>35-38</b>

<sup>1</sup> This course meets a General Education requirement.

<sup>2</sup> Course may be repeated for credit when topics offered are different.

## Rhetoric and Public Influence Emphasis (38-39 credits)

Code	Title	Credits
COM 230L	Introduction to Rhetoric and Public Influence <sup>1</sup>	3
COM 318	Argumentation and Debate	4
COM 361	Rhetorical Criticism	3
COM 463	Topics in Communication Analysis <sup>2</sup>	3
COM 498	Capstone: Rhetoric and Public Influence	4
Choose two of the following Communication Analysis courses:		6-7
COM 325	Political Communication	
COM 375	Media Criticism and Theory	
COM 463	Topics in Communication Analysis <sup>2</sup>	
Choose one of the following Oral Communication Courses:		4
COM 301A	Oral Interpretation <sup>1</sup>	
COM 386	Advanced Public Speaking	
COM 387	Speaking in Ministry Contexts	
Choose one of the following Relational Communication courses:		4
COM 220	Group Communication	
COM 322	Advanced Group Communication	
COM 355Z	Intercultural Communication <sup>1</sup>	
COM 370	Interpersonal Communication	

Choose two elective courses from history or political science courses (3 credits at 300-level or above) 6

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Total Credits 37-38

- <sup>1</sup> This course meets a General Education requirement.
- <sup>2</sup> Course may be repeated for credit when topics offered are different.

## B.A. in Independent Filmmaking

Code	Title	Credits
<b>Major in Independent Filmmaking (B.A.)</b>		
<b>Communication Core</b>		
COM 210	Perspectives on Human Communication	3
COM 213	Media Communication	3
COM 363	Methods of Communication Research	4
<b>Filmmaking Core <sup>1</sup></b>		
COM 170A	Media Production I	4
COM 217A	Screenwriting	4
COM 264	Storytelling	3
COM 270	Media Production II	4
COM 302	Media Law	3
COM 373	Digital Filmmaking	4
COM 375	Media Criticism and Theory	3-4
or FLM 300	Film Theory and Interpretation	
COM 481	Internship in Communication	3-4
COM 493	Capstone: Independent Filmmaking and Media Production	4
FLM 200	Introduction to Film	3
FLM 305	Films of Great Directors	3
Choose one of the following Relational Communication courses:		4
COM 220	Group Communication	
COM 322	Advanced Group Communication	
COM 370	Interpersonal Communication	
Code	Title	Credits
Major *		52-54
General Education		49-50
Electives		18-21
<b>Total Credits</b>		<b>122</b>

- <sup>1</sup> Los Angeles Film Studies Center [LAFSC] option equivalencies:  
 (Prerequisite: COM 270)  
 Hollywood Production Workshop (COM 373)  
 Faith & Artistic Development in Film (elective)  
 Professional Screenwriting (COM 217A) or Storytelling (COM 264)  
 Internship: Inside Hollywood (6 credits) (COM 481 [3 credits]; Production Elective [3 credits]).  
 One course from:  
 Professional Acting for the Camera (elective)  
 Independent Study (elective)
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Media Production

Code	Title	Credits
<b>Major in Media Production (B.A.)</b>		
<b>Communication Core</b>		
COM 210	Perspectives on Human Communication	3
COM 213	Media Communication	3
COM 363	Methods of Communication Research	4
<b>Media Production Core</b>		
COM 170A	Media Production I	4
COM 270	Media Production II	4
COM 302	Media Law	3
COM 352	Broadcast Journalism	3
COM 374	Broadcast Production	4
COM 481	Internship in Communication	3-4
COM 493	Capstone: Independent Filmmaking and Media Production	4
Choose three of the following Production courses:		9-12
ART 334	Photo Manipulation	
ENW 115	Reporting I	
COM 215	Web Design for Mass Media	
COM 264	Storytelling	
COM 217A	Screenwriting	
COM 373	Digital Filmmaking	
LAFSC <sup>1</sup>		
Choose one of the following Relational Communication courses:		4
COM 220	Group Communication	
COM 322	Advanced Group Communication	
COM 370	Interpersonal Communication	
Choose one of the following Communication Analysis courses:		3-4
COM 325	Political Communication	
COM 361	Rhetorical Criticism	
COM 375	Media Criticism and Theory	
COM 463	Topics in Communication Analysis	

Code	Title	Credits
Major *		51-56
General Education		49-50
Electives		16-22
<b>Total Credits</b>		<b>122</b>

- <sup>1</sup> Los Angeles Film Studies Center [LAFSC] option equivalencies: (Prerequisite: COM 270)  
 Hollywood Production Workshop (COM 373)  
 Faith & Artistic Development in Film (elective)  
 Professional Screenwriting (COM 217A) or Storytelling COM 264  
 Internship: Inside Hollywood [6 credits]; COM 481 [3 credits]; production elective [3 credits]  
 One course from:  
 Professional Acting for the Camera (elective)  
 Independent Study (elective)

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Organizational Communication

Code	Title	Credits
<b>Major in Organizational Communication (B.A.)</b>		
<b>Organizational Communication Core</b>		
COM 210	Perspectives on Human Communication	3
COM 213	Media Communication	3
COM 220	Group Communication	4
or COM 322	Advanced Group Communication	
COM 248	Organizational Communication	3
COM 302	Media Law	3
COM 350	Corporate Communication	3
COM 363	Methods of Communication Research	4
COM 481	Internship in Communication	3-4
COM 494	Capstone: Organizational Communication	4
ENW 115	Reporting I	3
Choose one of the following Oral Communication courses:		4
COM 301A	Oral Interpretation	
COM 318	Argumentation and Debate	
COM 324	Professional and Technical Communication <sup>1</sup>	
COM 386	Advanced Public Speaking	
Choose one of the following Communication Analysis courses:		3-4
COM 319	Health Campaigns and Technology <sup>1</sup>	
COM 325	Political Communication	
COM 361	Rhetorical Criticism	
COM 375	Media Criticism and Theory	
COM 463	Topics in Communication Analysis	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Organizational Communication Core *		40-42
Choose one emphasis <sup>2</sup>		9-12



General Education	49-50
Electives	18-24
<b>Total Credits</b>	<b>122</b>

<sup>1</sup> This is a required course for Health Communication students.

<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.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Employee Communication Emphasis (10-11 credits)

Code	Title	Credits
COM 370	Interpersonal Communication	4
Select two of the following:		6-7
BUS 231	Human Resource Management	
BUS 331	Staffing, Training and Development	
COM 218	Facilitating Difficult Conversations	
COM 355Z	Intercultural Communication <sup>1</sup>	
COM 367	Interpersonal Conflict	
COM 460	Topics in Organizational Communication	
Total Credits		10-11

## Event Management Emphasis (9-10 credits)

Code	Title	Credits
COM 323	Event Management & Leadership	3
Select two of the following:		6-7
BUS 334	Principles of Project Management	
COM 365	Crisis Communication	
COM 366	Strategic Social Media in Organizations	
COM 367	Interpersonal Conflict	
COM 370	Interpersonal Communication	
COM 376	Public Relations Writing and Strategies	
COM 460	Topics in Organizational Communication	
Total Credits		9-10

## Health Communication Emphasis (12 credits)

Code	Title	Credits
HAS 110	Introduction to Healthcare	3
COM 209	Introduction to Health Communication	3
Select two of the following:		6
COM 215	Web Design for Mass Media	
COM 352	Broadcast Journalism	
COM 366	Strategic Social Media in Organizations	
COM 376	Public Relations Writing and Strategies	

COM 460	Topics in Organizational Communication	
Total Credits		12

## Strategic Communication Emphasis (9-10 credits)

Code	Title	Credits
COM 376	Public Relations Writing and Strategies	3
Select two of the following:		6-7
BUS 220	Principles of Marketing	
BUS 319	Advertising and Promotion	
COM 215	Web Design for Mass Media	
COM 218	Facilitating Difficult Conversations	
COM 352	Broadcast Journalism	
COM 366	Strategic Social Media in Organizations	
COM 460	Topics in Organizational Communication	
ENW 211	Feature Writing	
Total Credits		9-10

## Minor in Communication Studies

Code	Title	Credits
<b>Minor in Communication Studies</b>		
<b>Communication Core</b>		
COM 210	Perspectives on Human Communication	3
COM 220	Group Communication	4
COM 370	Interpersonal Communication	4
Choose one of the following Oral Communication courses:		4
COM 301A	Oral Interpretation	
COM 318	Argumentation and Debate	
COM 386	Advanced Public Speaking	
COM 387	Speaking in Ministry Contexts	
Choose one of the following Discipline Topic course:		3-4
COM 248	Organizational Communication	
COM 355Z	Intercultural Communication	
COM 361	Rhetorical Criticism	
Elective from 200 level or above communication courses		3-4
<b>Total Credits</b> *		21-23

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Digital Film and Video for Actors

Code	Title	Credits
<b>Minor in Digital Film and Video for Actors</b>		
COM 110	Basic Communication	3
COM 170A	Media Production I	4
COM 217A	Screenwriting	4

COM 264	Storytelling	3
THA 100A	Beginning Acting	3
THA 313	Auditioning and Acting for the Camera	3
Choose two of the following Production Performance courses:		6-8
COM 301A	Oral Interpretation	
COM 373	Digital Filmmaking	
THA 212A	Voice Production	
THA 291L	Theatre in the Modern Age	
THA 330	Topics in Theatre Arts	
THA 405	Directing	
<b>Total Credits *</b>		<b>26-28</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Media Production

Code	Title	Credits
<b>Minor in Media Production</b>		
COM 110	Basic Communication	3
COM 170A	Media Production I	4
COM 213	Media Communication	3
COM 302	Media Law	3
Choose three of the following Production courses:		9-12
COM 215	Web Design for Mass Media	
COM 217A	Screenwriting	
COM 264	Storytelling	
COM 270	Media Production II	
COM 352	Broadcast Journalism	
COM 373	Digital Filmmaking	
COM 374	Broadcast Production	
<b>Total Credits *</b>		<b>22-25</b>

\* Courses whose number is followed by a letter fulfill 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 for leadership roles 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.A. in Computer Science (p. 149)
- B.A. in Computer Science with Software Project Management (p. 150)
- B.S. in Computer Engineering (p. 177)
- B.S. in Computer Science (p. 151)
- B.S. in Software Engineering (p. 179)

## Minor in Computer Science

- Computer Science (p. 152)

### **COS 100 • 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.*

### **COS 105 • 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: COS 100, COS 205, or equivalent proficiency; MAT 123M, MAT 124M, MAT 125, or equivalent proficiency. Offered: Spring. Special Notes: Not designed as a computer literacy course. Includes 6 lab hours.*

### **COS 205 • 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: MAT 124M. Offered: Fall, spring*

### **COS 212 • 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: COS 105 or COS 205 with consent of instructor. Special Notes: Includes 6 lab hours. Offered: Fall.*

**COS 214 • Computer Architecture.** 4 Credits.

Assembly and machine language to study computer organization and structure, including addressing techniques, digital logic and representation of numbers and arithmetic. Also includes an introduction to C.

*Prerequisites:* COS 212. *Special Notes:* Includes 6 lab hours. *Offered:* Spring.

**COS 216 • Data Structures and Algorithms.** 3 Credits.

Advanced data structures, algorithms, and algorithm analysis. Extensive programming assignments in a current object-oriented computer language.

*Prerequisites:* COS 212; MAT 241. *Offered:* Spring

**COS 301 • Operating Systems.** 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:* COS 214; knowledge of C or C++. *Offered:* Fall

**COS 313 • 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:* COS 216. *Offered:* Fall, even # years

**COS 318 • Web Programming.** 3 Credits.

An examination of the foundational technologies used for creating web applications. Includes client and server programming, as well as fundamentals of cloud services, including security, storage, and reliability.

*Prerequisites:* COS 216. *Special Notes:* Some knowledge of HTML and the basics of JavaScript are expected. *Offered:* Fall.

**COS 320 • 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:* COS 216. *Offered:* Fall odd # years

**COS 334 • Data Mining and Machine Learning.** 3 Credits.

An introduction to widely-used techniques for extracting information from large data sets such as medical databases, credit reports, weather history, and the stock market. Includes algorithms for nominal and ordinal data and metrics to measure their performance. Students will implement common algorithms with real data and choose appropriate algorithms for different applications.

*Prerequisites:* COS 216. *Offered:* Spring, even # years.

**COS 337K • 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. *Special Note:* Carries cross credit in psychology. *Offered:* Interim

**COS 351 • High-Performance Computing.** 3 Credits.

Fundamental concepts and techniques for parallel computation in C/C++ (load balancing, communication, synchronization, serial program decomposition) using an industry-standard parallel computing library.

*Prerequisites:* COS 205 or COS 214. *Offered:* Interim

**COS 371 • 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: COS 216. Offered: Spring, even # years*

**COS 386 • 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: COS 301. Offered: Spring, odd # years*

**COS 389 • 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: COS 216. Offered: Spring, odd # years*

**COS 420 • Software Process.** 3 Credits.

Balancing the various real-world challenges that a software engineer encounters, including ambiguity, conflicting requirements, task-time estimation, team dynamics, requests from customers, product managers or architects. A team-based software project on a modern computer science topic will be developed during the semester.

*Prerequisites: COS 216; COS 477 recommended. CX: ENR 420. Offered: Spring odd # years*

**COS 450 • 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: COS 216. Offered: Interim, even # years. Special Notes: Students may not receive credit for both COS 450 and GES 334K.*

**COS 477 • Software Engineering.** 3 Credits.

Formal approach to the design and development of software. Multiple process models discussed and compared. Other topics include design patterns, project management and estimation, team management, formal methods, documentation, system and data description, verification and validation, and process improvement.

*Prerequisites: COS 216. CX: ENR 477. Offered: Fall, odd # years.*

**COS 490 • 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: COS 216. Offered: Occasionally.*

## B.A. in Computer Science

Code	Title	Credits
<b>Major in Computer Science (B.A.)</b>		
COS 100 or COS 205	Introduction to Programming Scientific Computing	3
COS 105	Computer Science 1	4
COS 212	Computer Science 2	4
COS 214	Computer Architecture	4
COS 216	Data Structures and Algorithms	3
COS 301	Operating Systems	4

COS 450	Humans and Computers	3
MAT 124M	Calculus 1	4
MAT 241	Discrete Mathematics	3
Choose two of the following Applications of Computer Science courses:		6
COS 313	Database Systems	
COS 318	Web Programming	
COS 334	Data Mining and Machine Learning	
COS 386	Data Communications and Computer Networks	
COS 420	Software Process	
COS 477	Software Engineering	
Electives from 300-level or above Computer Science courses or MAT 344 or MAT 376 or PSY352/353 or ENR 352/353		9-10

Code	Title	Credits
Major *		47-48
General Education		49-50
Electives		24-26
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Computer Science with Software Project Management

Code	Title	Credits
<b>Major in Computer Science with Software Project Management (B.A.)</b>		
COS 100	Introduction to Programming	3
or COS 205	Scientific Computing	
COS 105	Computer Science 1	4
COS 212	Computer Science 2	4
COS 216	Data Structures and Algorithms	3
COS 420	Software Process	3
COS 450	Humans and Computers	3
MAT 124M	Calculus 1	4
MAT 207M	Statistical Analysis	3
MAT 241	Discrete Mathematics	3
BUS 210	Financial Accounting	4
BUS 334	Principles of Project Management	3
BUS 344	Managerial Finance	4
COM 220	Group Communication	4
BUS 230	Principles of Management	3-4
or COM 248	Organizational Communication	
COM 322	Advanced Group Communication	4
or COM 370	Interpersonal Communication	

COS 313 or COS 318	Database Systems Web Programming	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		55-56
General Education		49-50
Electives		16-18
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Computer Science

Code	Title	Credits
<b>Major in Computer Science (B.S.)</b>		
COS 100 or COS 205	Introduction to Programming Scientific Computing	3
COS 105	Computer Science 1	4
COS 212	Computer Science 2	4
COS 214	Computer Architecture	4
COS 216	Data Structures and Algorithms	3
COS 301	Operating Systems	4
COS 313	Database Systems	3
COS 318	Web Programming	3
COS 320	Computer Graphics Programming	3
COS 371	Organization of Programming Languages	3
COS 386	Data Communications and Computer Networks	3
COS 389	Artificial Intelligence	3
COS 450	Humans and Computers	3
COS 477	Software Engineering	3
Choose one of the following Computer Algorithms and Support for Numerical Applications courses:		3-4
MAT 344	Numerical Methods	
MAT 376	Operations Research	
PHY/ENR 352	Computer Methods in Physics and Engineering (&)	
PHY/ENR 353	Computer Methods in Physics and Engineering Lab	
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 241	Discrete Mathematics	3
MAT 330	Probability and Statistics	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		66-67
General Education		49-50



Electives	5-7
<b>Total Credits</b>	<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Computer Science

Code	Title	Credits
<b>Minor in Computer Science</b>		
COS 100	Introduction to Programming	3
COS 105	Computer Science 1	4
COS 212	Computer Science 2	4
COS 216	Data Structures and Algorithms	3
MAT 241	Discrete Mathematics	3
Electives from 300-level or above computer courses or COS 214, MAT 344, or MAT 376		6
<b>Total Credits</b> *		<b>23</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# 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)
- Secondary Education:
  - a. Communication Arts and Literature (English), 5-12
  - b. Health, 5-12
  - c. General Science, 5-8
  - d. Mathematics, 5-12
  - e. Science: Chemistry, Life Science, or Physics, 9-12
  - f. Social Studies, 5-12
- Education for grades K-12:
  - a. Music: Instrumental or Vocal
  - b. Physical Education
  - c. Spanish Language
  - d. Teaching English as a Second Language
  - e. Visual Arts

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
- Spanish Language, K-8

The Bethel University teacher education program is accredited under Teacher Education Accreditation Council (TEAC) Quality Principles through the CAEP accreditation system from 2015-2022. Formed in 2013, CAEP is the single specialized accreditor for educator preparation and administers TEAC accreditation. 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 Professional Educator Licensing and Standards Board (PELSB), 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 PELSB, 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 2017-2018 school year. Pass rates: 92% basic skills, 99% pedagogy, and 95% subject area content.

Teacher candidates have multiple options to meet the basic skills requirement, Bethel students can choose to take the ACT plus writing instead of taking the MTLE basic skills exam. In addition, students may also choose to take the SAT instead of the MTLE basic skills exam by earning the following score:

- MN Essential Academic Skills
  - A score of 520 or higher in each section (Math, Reading, and Writing)
- ACT Plus Writing
  - Composite: A score of 22 or higher
  - Combined English/Writing or ELA: A score of 21 or higher
- SAT (2005 - present)
  - Reading and Writing: A score of 510 or higher
  - Math: A score of 520 or higher

## Endorsements

Formal licensure endorsements are also available to all licensure candidates (elementary, 5-12, 9-12, 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, and social studies. Spanish (K-8) and Preprimary (ages 3-5) endorsements can be added to elementary education.

## 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 Licensure 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 teaching secondary education are available in communication arts and literature (English), health, mathematics, general science, 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, 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.

## Post-baccalaureate 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.

## General Criteria for Participation in the Teacher Education Program

### A. Admission Procedures

1. Complete at least one semester of coursework and successfully complete EDU 200, Introduction to Education and EDU 201, Introduction to Education Field Experience 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. During EDU 200 Introduction to Education and EDU 201 Introduction to Education Field Experience, 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. Submit transfer course work for education department evaluation. 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 and Special 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 MAT 201M, MAT 202, NAS courses (NAS101-104), and all courses in endorsement areas. (Courses with grades of C- or lower must be repeated).
4. 5-12, 9-12, 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, {HAS120} 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 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. 5-8, 5-12, 9-12, 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, 9-12, 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, 9-12, 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).
6. Complete and submit education Teacher Performance Assessment (edTPA).

#### **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 Professional Educator Licensing Standards Board (PELSB).

#### **G. Notes**

1. Licensure standards and resultant program requirements are subject to change by the Minnesota Professional Educator Licensing Standards Board (PELSB).
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.

#### **H. B.A. in Educational Studies**

When/if a student falls below any program requirements, (including GPA, NOCs, or acceptance by a school), or drops out of an Education Teaching Major late in the program or during student teaching, the following procedures will be followed:

1. The Education Department will:
  - a. Identify the student
  - b. Review the academic record and make recommendations to the Registrar as to what course work in education the student must complete in order to be granted a BA in Education Studies.
2. The Registrar will:
  - a. Notify the student of all other degree requirements outstanding.
  - b. Issue a B.A. in Educational Studies when all requirements are met.

The student will be involved in each step and will always have the option of completing the requirements of another major.

## Majors in Elementary Education

- B.A. in K-6 Elementary Education (p. 165)

## Majors in Secondary Education

### Major in 5-8 Education

- B.A. in General Science Education 5-8 (p. 170)

### Majors in 5-12 Education

See respective department listings for major requirements:

- B.A. in Communication Arts and Literature Education 5-12 (English Education) (p. 186)
- B.A. in Health Education 5-12 (p. 247)
- B.A. in Mathematics with Education 5-12 Licensure (p. 258)
- B.A. in Social Studies Education 5-12 (p. 266)

### Majors in 9-12 Education

See respective department listings for major requirements:

- B.A. in Science Education 9-12: Chemistry Emphasis (p. 128)
- B.A. in Science Education 9-12: Life Science Emphasis (p. 104)
- B.A. in Science Education 9-12: Physics Emphasis (p. 305)

### Majors in K-12 Education

See respective department listings for major requirements:

- B.A. in Physical Education K-12 (p. 248)
- B.A. in Spanish Education K-12 (Licensure in World Languages: Spanish) (p. 356)
- B.A. in Teaching English as a Foreign Language (TEFL) (p. 357)
- B.A. in Teaching English as a Second Language (TESL) K-12 (p. 359)

- B.A. in Visual Arts Education K-12 (p. 75)
- B.Mus.Ed. in Music Education K-12 (p. 281)

## Minors in Education

- Science, Technology, Engineering, and Math (STEM) (p. 171)

## Licensures and 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.

Early Childhood Education Licensure, Birth-Grade 3 (p. 167).  
 Communication Arts and Literature 5-8 Endorsement (p. 167)  
 Mathematics 5-8 Endorsement (p. 167)  
 Preprimary Endorsement (Age 3-Grade 6) (p. 167)  
 Science 5-8 Endorsement (p. 167)  
 Social Studies 5-8 Endorsement (p. 167)  
 Spanish Education K-8 Endorsement (p. 167)

### **EDU 200 • 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: EDU 201; 30 Credits. Offered: Fall, Interim, Spring.*

### **EDU 201 • Introduction to Education Field Experience.** 1 Credit.

A field experience requiring four hours per week observing and serving in an elementary or secondary school classroom.

*Corequisites: EDU 200. Offered: Fall, Interim, Spring. Special Notes: Designated times are set by the Education department.*

### **EDU 203 • 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.*

### **EDU 204UZ • 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: GES 130 or GES 244; written consent of instructor. Special Notes: Course may count as a Spanish elective provided all work is completed in Spanish. Offered: Occasionally interim.*

### **EDU 220 • 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: EDU 200; EDU 201; Admission to the education program. Corequisites: May be taken concurrently with EDU 320. Offered: Fall, Spring.*

**EDU 236UZ • Exploring British Education and Culture.** 3 Credits.

Designed for students to immerse themselves in British culture and 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: EDU 200; EDU 201; GES 130 or GES 244; Admission to the education program. Offered: Occasionally interim.*

**EDU 240 • 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: EDU 200; EDU 201; admission to the education program. Offered: Fall, spring. Special Notes: Intended for 5-12 and K-12 licensure students only.*

**EDU 241 • Educational Psychology Field Experience.** 1 Credit.

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: EDU 200; EDU 201; Admission to the education program. Corequisites: Must be taken concurrently with EDU 240. Offered: Fall, Spring. Special Notes: Designated times are set by the Education department.*

**EDU 250 • 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.*

**EDU 271 • Education Psychology and Pedagogy.** 2 Credits.

Foundational knowledge about the theories of learning, cognitive development, instructional planning and assessment practices, and professional reflection.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Corequisites: Must be taken concurrently with EDU 272; EDU 273; EDU 274; EDU 275. Offered: Fall, Spring.*

**EDU 272 • 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: EDU 200; EDU 201; Admission to the education program. Corequisites: Must be taken concurrently with EDU 271; EDU 273; EDU 274; EDU 275. Offered: Fall, Spring.*

**EDU 273 • Primary Grade Practicum.** 1 Credit.

Application of effective practices done in a primary classroom, working with individual students and small reading groups.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Corequisites: Must be taken concurrently with EDU 271; EDU 272; EDU 274; EDU 275. Offered: Fall, Spring.*

**EDU 274 • Education Technology.** 1 Credit.

Methods of integrating technology into the primary grades classroom are considered. Focus 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: EDU 200; EDU 201; admission to the education program. Corequisites: Must be taken concurrently with EDU 271; EDU 272; EDU 273; EDU 275. Offered: Fall, Spring.*



**EDU 275 • Kindergarten Education.** 1 Credit.

Characteristics of kindergarten children and the curriculum and teaching strategies appropriate for their developmental level.

*Prerequisites:* EDU 200; EDU 201; *Admission to the education program.* *Corequisites:* Must be taken concurrently with EDU 271; EDU 272; EDU 273; EDU 274. *Offered:* Fall, Spring.

**EDU 292 • Foundations of Early Childhood Education.** 3 Credits.

History, philosophy, goals, content of early childhood education programs, and updated research in child development. Analysis of teaching strategies appropriate for the development of children ages three to five years. Career opportunities in early childhood education.

*Offered:* Fall.

**EDU 293 • Foundations of Early Childhood Field Experience.** 1 Credit.

Supervised observation and participation at Bethel University's child development center or a partnering community early childhood education site.

*Corequisites:* Must be taken concurrently with EDU 292. *Offered:* Fall.

**EDU 306 • Curriculum in Early Childhood Education.** 3 Credits.

Developmental appropriateness of current curriculum models, equipment, and materials in an early childhood education program.

*Prerequisites:* EDU 200; EDU 201; EDU 292; EDU 293. *Offered:* Spring

**EDU 307 • Curriculum in Early Childhood Education Field Experience.** 1 Credit.

Field experience at one of Bethel University's child development centers or approved community partner site utilizing strategies learned in EDU 306.

*Prerequisites:* EDU 200; EDU 201; EDU 292; EDU 293. *Corequisites:* Must be taken concurrently with EDU 306. *Offered:* Spring

**EDU 317GZ • 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:* [GES 130; GES 160; *Contemporary Western Life and Thought (L) course;* *World Cultures (U) course*] or [GES 244; *World Cultures (U) course*]. *Offered:* Fall, Interim, Spring. *Special Notes:* Includes experiential learning in schools and community events.

**EDU 320 • Pedagogy and the Young Adolescent Learner.** 1 Credit.

The philosophy and pedagogy of teaching in a middle school is different than teaching in a junior high school. Course activities help students define, describe, and develop the following components of contemporary middle level schools: appropriate curriculum, interdisciplinary structure, and interdisciplinary teaching.

*Prerequisites:* EDU 220 (or may be taken concurrently); EDU 240/EDU 241. *Corequisites:* Must be taken concurrently with EDU 321. *Offered:* Fall, Spring.

**EDU 321 • Integrated Literacy in the Content Areas.** 1 Credit.

Understanding of literacy development strategies and the role of reading in teaching content material related to specific subject areas. Review of content area texts, assessment and practice in adapting content materials to student needs.

*Prerequisites:* EDU 220 (may be taken concurrently); EDU 240; 241. *Corequisites:* Must be taken concurrently with EDU 320. *Offered:* Fall, Spring.

**EDU 331 • Teaching and Learning.** 3 Credits.

Provides a foundational knowledge of learning psychology and teaching methodology. Examines unique considerations for youth and adult learners, metacognition, formal/informal learning, multi-modal learning, learning in a variety of fields/context, and iterative program assessment.

*Corequisites:* EDU 332. *Offered:* Fall, even # years.

**EDU 332 • Teaching and Learning Field Experience.** 1 Credit.

Teaching and Learning occurs in every field of practice to pass along skill and expertise. Students work with the instructor to find shadowing field experiences where teaching and learning occur in a field of interest and in conjunction with EDU 331.

*Corequisites: EDU 331. Offered: Fall, even # years.*

**EDU 340 • 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.*

**EDU 342 • 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: EDU 200; EDU 201; EDU 292; EDU 293; admission to the education program. Offered: Fall*

**EDU 344 • 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: EDU 200; EDU 201; EDU 292; EDU 293. Offered: Spring*

**EDU 350 • 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: EDU 200; EDU 201; EDU 292; EDU 293; EDU 306; EDU 307; EDU 340; admission to the education program. Offered: Fall*

**EDU 351 • Infant and Toddler Development and Learning Field Experience.** 1 Credit.

Field experience at the Bethel Child Development Center or approved partner infant and toddler setting to practice strategies learned in EDU 350.

*Prerequisites: EDU 200; EDU 201; EDU 292; EDU 293; EDU 306; EDU 307; EDU 340; Admission to the education program. Corequisites: Must be taken concurrently with EDU 350. Offered: Fall.*

**EDU 363 • Health Curriculum and Methods.** 1 Credit.

Principles, curriculum, and methods of teaching health in grades K-6. Role of the teacher and school in responding to the special health needs of elementary-age children.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Offered: Fall, Spring.*

**EDU 365 • Physical Education Curriculum and Methods.** 1 Credit.

Principles, curriculum, and methods of teaching physical education in grades K-6.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Offered: Fall, Spring.*

**EDU 366A • Visual Arts Curriculum and Methods.** 1 Credit.

Methods, materials, and resources for teaching visual arts in grades K-6.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Offered: Fall, Spring.*

**EDU 368A • Music Curriculum and Methods.** 1 Credit.

Methods, materials, and resources for teaching music in grades K-6.

*Prerequisites: EDU 200; EDU 201; Admission to the education program. Offered: Fall, Spring.*

**EDU 370 • 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: EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. Corequisites: Must be taken concurrently with EDU 371; EDU 372; EDU 373; EDU 374; EDU 375; EDU 376. Offered: Fall, Spring.*

**EDU 371 • 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: EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. Corequisites: Must be taken concurrently with EDU 370; EDU 372; EDU 373; EDU 374; EDU 375; EDU 376. Offered: Fall, Spring.*

**EDU 372 • Educational Psychology.** 3 Credits.

Psychological foundations of education continued from EDU 271 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:* EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. *Corequisites:* Must be taken concurrently with EDU 370; EDU 371; EDU 373; EDU 374; EDU 375; EDU 376. *Offered:* Fall, Spring.

**EDU 373 • 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:* EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. *Corequisites:* Must be taken concurrently with EDU 370; EDU 371; EDU 372; EDU 374; EDU 375; EDU 376. *Offered:* Fall, Spring.

**EDU 374 • 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:* EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. *Corequisites:* Must be taken concurrently with EDU 370; EDU 371; EDU 372; EDU 373; EDU 375; EDU 376. *Offered:* Fall, Spring.

**EDU 375 • 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:* EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. *Corequisites:* Must be taken concurrently with EDU 370; EDU 371; EDU 372; EDU 373; EDU 374; EDU 376. *Offered:* Fall, Spring.

**EDU 376 • Intermediate Grade Practicum.** 1 Credit.

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:* EDU 200; EDU 201; EDU271-275; EDU 317GZ; MAT202M; NAS 101D; NAS 102D; NAS 103D; NAS 104D; Admission to the education program. *Corequisites:* Must be taken concurrently with EDU 370; EDU 371; EDU 372; EDU 373; EDU 374; EDU 375. *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.

**EDU 400 • 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; LIN 300; admission to the education program. *Offered:* Fall

**EDU 401 • Middle Level Education Practicum in TESL.** 1 Credit.

Classroom-based practicum in an ESL class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 400.

*Corequisites:* Must be taken concurrently with EDU 400. *Offered:* Fall.

**EDU 406 • Methods in Teaching 5-8 English.** 3 Credits.

An examination of how middle level philosophy translates into practice in English classes in grades 5-8. It is designed to accompany a 1 credit practicum experience in a middle level school.

*Prerequisites: EDU 240 and EDU 241 OR EDU 271, EDU 272, and EDU 273. Corequisites: Must be taken concurrently with EDU 407. Offered: Spring.*

**EDU 407 • Middle Level Education Practicum in English.** 1 Credit.

Classroom-based practicum in an English class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 408.

*Prerequisites: EDU 240/EDU 241. Corequisites: Must be taken concurrently with EDU 406 or EDU 408. Offered: Spring*

**EDU 408 • Methods in Teaching 5-12 English.** 3 Credits.

Methods and curriculum employed in teaching English in middle and high schools. Examines current technology in English education as well as interactive learning and teaching. Emphasizes vocabulary and academic language. Lesson and unit planning using best practices and developmentally appropriate principles.

*Prerequisites: EDU 240; EDU 241; admission to the education program. Corequisites: Must be taken concurrently with EDU 407; strongly recommended for EDU 320. Offered: Spring*

**EDU 410 • Methods in Teaching 5-8 Mathematics.** 3 Credits.

Teaching methodologies, materials, assessment, historical and current trends and issues in curricular, development of a philosophy of mathematics education, and other topics related to teaching and learning mathematics in grades 5-8. Practice in planning lessons and units, implementing technology, and teaching.

*Prerequisites: EDU 240 and EDU 241 OR EDU 271, EDU 272, and EDU 273; Admission to Education program. Corequisites: Must be taken concurrently with EDU 411. Offered: Fall.*

**EDU 411 • Mathematics Education Practicum in grades 5-8 or 5-12.** 1 Credit.

Students observe and participate in a high school and/or middle school mathematics classroom (minimum 40 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: EDU 240; EDU 241; admission to the education program. Corequisites: Must be taken concurrently with EDU 412. Offered: Fall*

**EDU 412 • 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: EDU 240; EDU 241; admission to the education program; senior standing or permission of instructor. Corequisites: Must be taken concurrently with EDU 411. Offered: Fall*

**EDU 413 • 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: EDU 240; EDU 241; Admission to the Education program. Corequisites: Registration in EDU 414 is required. Offered: Fall.*

**EDU 414 • Middle Level Education Practicum in Art.** 1 Credit.

Classroom-based practicum in an art class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 413.

*Prerequisites: EDU 240; EDU 241. Corequisites: Must be taken concurrently with EDU 413. Offered: Fall.*

**EDU 418 • 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: EDU 240; EDU 241; admission to the education program. Corequisites: Must be taken concurrently with EDU 419. Offered: Spring.*

**EDU 419 • 5-8 Social Studies Methods and Practicum.** 2 Credits.

Classroom-based practicum in a social studies class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 418.

*Prerequisites:* EDU 240/EDU 241; EDU 220. *Offered:* Spring. *Special Notes:* Social studies 5-12 majors may take concurrently with EDU 418.

**EDU 420 • Methods in Teaching 5-12 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:* EDU 240; EDU 241; admission to the education program. *Offered:* Fall. *Special Notes:* Requirements for this course are fulfilled through EDUC 681 Methods of Teaching 5-12 Science, which is taught in conjunction with the Bethel University Graduate School.

**EDU 422 • 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:* EDU 240; EDU 241; HAS 130; HAS 340; Admission to the Education program. *Offered:* Fall.

**EDU 423 • Middle Level Education Practicum in Health.** 1 Credit.

Classroom-based practicum in a health education class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 422.

*Prerequisites:* HAS 130; HAS 340. *Offered:* Fall.

**EDU 424 • 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 a class, and monitoring student progress.

*Prerequisites:* EDU 240; EDU 241; HPE316 or consent of instructor; admission to the education program. *Offered:* Fall.

**EDU 425 • Middle Level Practicum in Physical Education.** 1 Credit.

Classroom-based practicum in a physical education class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 424.

*Prerequisites:* EDU 240; EDU 241; HPE247; HPE316. *Corequisites:* Must be taken concurrently with EDU 424. *Offered:* Fall

**EDU 426 • 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:* EDU 240; EDU 241; Admission to the Education program; Demonstration of Intermediate-High oral proficiency after study abroad via the OPIC or consent of instructor, or a major or minor offered through the World Languages and Cultures Department. *Offered:* Fall.

**EDU 427 • Middle Level Education Practicum in World Languages and Cultures.** 1 Credit.

Classroom-based practicum in a Spanish class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 426.

*Prerequisites:* EDU 240/241. *Corequisites:* Must be taken concurrently with EDU 426. *Offered:* Fall.

**EDU 428 • 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; EDU 271, EDU 272, EDU 273, EDU 274, and EDU 275. *Corequisites:* Must be taken concurrently with EDU 429. *Offered:* Fall.

**EDU 429 • Science Education Practicum in Grades 5-8 or 5-12.** 1 Credit.

Students observe and participate in a high school and/or middle school science classroom (minimum 40 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:* EDU 240/241; admission to the education program. *Corequisites:* Must be taken concurrently with EDU 420. *Offered:* Fall

**EDU 432 • 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:* EDU 240; EDU 241; major or minor in music; admission to the education program. *Offered:* Fall

**EDU 433 • 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:* EDU 432; major or minor in music; admission to the education program. *Offered:* Spring

**EDU 434 • Middle Level Education Practicum in Music.** 1 Credit.

Classroom-based practicum in a music class of young adolescent learners. Emphasizes evaluation and application of concepts and strategies introduced in EDU 433.

*Prerequisites:* EDU 432; major or minor in music. *Corequisites:* EDU 433. *Offered:* Spring

**EDU 489 • Student Teaching in Preprimary.** 3 Credits.

Observation and student teaching in a pre-k setting in which a student will be licensed to teach. Includes participation in a seminar.

*Prerequisites:* EDU 292/293, EDU 306/307; EDU 340; EDU 342; EDU 344; Admission to student teaching. *Offered:* Fall, Spring, Interim, Summer (depending on faculty availability).

**EDU 490 • Student Teaching Block.** 1-15 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 EDU 490 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. Student teaching semester also includes a weekly seminar meeting by program. Students should communicate with their supervisors about meeting times and locations.

*Prerequisites:* Admission to student teaching; 2.50 GPA. *Special Notes:* Graded on an S/U basis. *Offered:* Fall, Spring.

**EDU 491 • 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. *Special Notes:* Graded on an S/U basis. *Offered:* Fall, Spring.

## B.A. in K-6 Elementary Education

Code	Title	Credits
<b>Major in K-6 Elementary Education (B.A.)</b>		
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
<b>Block 1 - Courses in this sequence are taken as a block in the same semester.</b>		<b>10</b>
EDU 271	Education Psychology and Pedagogy	
EDU 272	Language and Literacy Development for Young Learners (K-3)	
EDU 273	Primary Grade Practicum	

EDU 274	Education Technology	
EDU 275	Kindergarten Education	
EDU 317GZ	Educational Equity	3
EDU 363	Health Curriculum and Methods	1
EDU 365	Physical Education Curriculum and Methods	1
EDU 366A	Visual Arts Curriculum and Methods	1
EDU 368A	Music Curriculum and Methods	1
<b>Block 2- Courses in this sequence are taken as a block in the same semester.</b>		<b>18</b>
EDU 370	Math Curriculum and Methods	
EDU 371	Science Curriculum and Methods	
EDU 372	Educational Psychology	
EDU 373	Reading/Language Arts Curriculum and Methods	
EDU 374	Social Studies Curriculum and Methods: Planning	
EDU 375	Integrating Technology in the Content Areas	
EDU 376	Intermediate Grade Practicum	
EDU 490	Student Teaching Block <sup>1</sup>	14
MAT 201M	Mathematics for Elementary Education 1	3
MAT 202	Mathematics for Elementary Education 2	3
NAS 101D	Science Concepts -Life Science <sup>2</sup>	2
NAS 102D	Science Concepts - Earth/Space Science <sup>2</sup>	2
NAS 103D	Science Concepts -Chemistry <sup>2</sup>	2
NAS 104D	Science Concepts - Physics <sup>2</sup>	2
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		67
General Education		49-50
Electives		5-6
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> In order to meet requirements for endorsements and dual-majors this number is subject to change. Students should consult with their advisor.

<sup>2</sup> In order to meet the General Education Lab Science (D) requirement, students must take two NAS courses.

\* Courses whose number is followed by a letter fulfill a General Education requirement. Students must receive First Aid/CPR certification. (This may be taken at Bethel, {HAS120}, or through a Red Cross certification program).

## Education Licensure

### Early Childhood Education Licensure, Birth-Grade 3 (4 credits)

Code	Title	Credits
EDU 350	Infant and Toddler Care	3
EDU 351	Infant and Toddler Development and Learning Field Experience	1
Total Credits		4

## Middle Level Endorsements

### Communication Arts and Literature 5-8 Endorsement (28-30 credits)

Code	Title	Credits
COM 110	Basic Communication	3
EDU 220	Introduction to Middle Level Education	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 406	Methods in Teaching 5-8 English	3
EDU 407	Middle Level Education Practicum in English	1
EDU 491	Student Teaching in Middle Level	3
ENL 200	Juvenile Literature	3
Choose from:		3-4
ENW 205A	Prose Studio <sup>1</sup>	
ENW 303AZ	Travel Writing	
Choose from:		4
ENL 102	Survey of British Literature I	
ENL 202	Survey of British Literature II	
ENL 204	American Literary Traditions	
ENL 354	Literature on Location: Major British Authors	
Choose from:		3-4
ENL 100	Great Writers: An Introduction to Literature	
ENL 215U	World Literature	
ENL 321	Drama in Great Britain	
Total Credits		28-30

### Mathematics 5-8 Endorsement (35 credits)

Code	Title	Credits
EDU 220	Introduction to Middle Level Education	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 410	Methods in Teaching 5-8 Mathematics	3



EDU 411	Mathematics Education Practicum in grades 5-8 or 5-12	1
EDU 491	Student Teaching in Middle Level	3
MAT 124M	Calculus 1 <sup>1</sup>	4
MAT 125	Calculus 2	4
MAT 201M	Mathematics for Elementary Education 1 <sup>1</sup>	3
MAT 202	Mathematics for Elementary Education 2	3
MAT 207M	Statistical Analysis <sup>1,2</sup>	3
MAT 241	Discrete Mathematics	3
MAT 351	Modern Geometry	3
Total Credits		35

## Preprimary Endorsement: Age 3-Grade 6 (20 credits)

Code	Title	Credits
EDU 292	Foundations of Early Childhood Education	3
EDU 293	Foundations of Early Childhood Field Experience	1
EDU 306	Curriculum in Early Childhood Education	3
EDU 307	Curriculum in Early Childhood Education Field Experience	1
EDU 340	Parent Child and Family Relationships	3
EDU 342	Observation, Assessment, Adaptation, and Referral in Early Childhood	4
EDU 344	Health, Nutrition, and Safety with Young Children	2
EDU 489	Student Teaching in Preprimary	3
Total Credits		20

## Science 5-8 Endorsement (37 credits)

Code	Title	Credits
EDU 220	Introduction to Middle Level Education	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 428	Methods in Teaching 5-8 Science	2
EDU 429	Science Education Practicum in Grades 5-8 or 5-12	1
EDU 491	Student Teaching in Middle Level	3
BIO 118 & BIO 118D	General Biology and General Biology Lab	4
CHE 101 & CHE 101D	Introduction to Chemistry and Introduction to Chemistry Lab	4
GEL 168 & GEL 168D	Geology and Geology Lab <sup>1,3</sup>	4
NAS 101D	Science Concepts -Life Science <sup>1,4</sup>	2
NAS 103D	Science Concepts -Chemistry <sup>1,4</sup>	2
NAS 104D	Science Concepts - Physics <sup>1,4</sup>	2
PHY 102 & PHY 102D	Physics of Everyday Life and Physics of Everyday Life-Lab	4

PHY 112 & PHY 112D	Introduction to Astronomy and Introduction to Astronomy Lab <sup>1,3</sup>	4
Total Credits		37

## Social Studies 5-8 Endorsement (29 credits)

Code	Title	Credits
ECO 201	Principles of Economics	4
EDU 220	Introduction to Middle Level Education	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 419	5-8 Social Studies Methods and Practicum	2
EDU 491	Student Teaching in Middle Level	3
GEO 120	Introduction to Geography	3
GEO 320K	History and the Human Environment	3
HIS 200L	American Civilization	3
POS 100	American Politics and Government	3
SOC 101	Introduction to Sociology	3
Total Credits		29

## Spanish K-8 Endorsement (36-39 credits)

Code	Title	Credits
EDU 220	Introduction to Middle Level Education	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 426	Methods in Teaching K-12 World Languages and Cultures	3
EDU 427	Middle Level Education Practicum in World Languages and Cultures	1
EDU 491	Student Teaching in Middle Level	3
SPA 201	Intermediate Spanish I	3
or SPA 203	Intensive Intermediate Spanish I in Guatemala	
SPA 202UZ/204	Intermediate Spanish II	4
Select one of the following:		3-4
SPA 290	Ibero-American History	
SPA 291	Ibero-American History in Guatemala	
SPA 292	Ibero-American History in Spain	
Select one of the following:		4
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
SPA 300	Introduction to Hispanic Literature	4
or SPA 305	Readings from Latin America and Spain	
One 200-level elective or above Spanish course		3-4
One 300-level or above Spanish elective		3-4
Total Credits		36-39

- <sup>1</sup> Students may also choose to use this course to meet a General Education requirement.
- <sup>2</sup> Due to Minnesota teacher licensure requirements, PSY 230M may not be substituted for this statistics course.
- <sup>3</sup> PHY 112 / PHY 112D and GEL 168 / GEL 168D replace NAS 102D in the K-6 Elementary Education core for students in science endorsement only, which will decrease the total credits by 2.
- <sup>4</sup> In order to use NAS courses to meet the General Education Lab Science (D) requirement, student must successfully complete two NAS courses.

## B.A. in General Science Education 5-8

Code	Title	Credits
<b>Science Education 5-8: General Science (B.A.)</b>		
PHY 112 & PHY 112D	Introduction to Astronomy and Introduction to Astronomy Lab	4
GEL 168 & GEL 168D	Geology and Geology Lab	4
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4
PHY 102 & PHY 102D	Physics of Everyday Life and Physics of Everyday Life-Lab	4
BIO 118 & BIO 118D	General Biology and General Biology Lab	4
MAT 123M or PSY 230M	Precalculus Introduction to Statistical Methods and Experimental Design	3-4
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 428	Methods in Teaching 5-8 Science	2
EDU 429	Science Education Practicum in Grades 5-8 or 5-12	1
EDU 490	Student Teaching Block <sup>1</sup>	14

Code	Title	Credits
Major *		62-63
General Education		49-50
Electives <sup>2</sup>		9-11
<b>Total Credits</b>		<b>122</b>

- <sup>1</sup> In order to meet requirements for endorsements and dual-majors this number is subject to change. Students should consult with their advisor.

<sup>2</sup> Since several courses in the major fulfill/meet General Education requirements, students have room for additional electives.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

## Minor in Science, Technology, Engineering, and Math (STEM)

The Science, Technology, Engineering, and Mathematics, (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.

Code	Title	Credits
<b>Minor in STEM</b>		
NAS 101D	Science Concepts -Life Science <sup>1</sup>	2
NAS 102D	Science Concepts - Earth/Space Science <sup>1</sup>	2
NAS 103D	Science Concepts -Chemistry <sup>1</sup>	2
NAS 104D	Science Concepts - Physics <sup>1</sup>	2
NAS 300	Exploring Applied Concepts in Science, Technology, Engineering, and Math	4
NAS 400	Applied Research in Science, Technology, Engineering, and Math Design	4
MAT 201M	Mathematics for Elementary Education 1	3
MAT 202	Mathematics for Elementary Education 2	3
<b>Total Credits</b> *		<b>22</b>

<sup>1</sup> In order to meet the General Education Lab Science (D) requirement, students must take two NAS courses.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Engineering

Students who desire a strong liberal arts and science background can pursue engineering in multiple ways. The B.S. in Computer Engineering, B.S. in Electrical Engineering, and the B.S. in Software Engineering are 4-year programs that can be completed entirely at Bethel University. The B.A./B.S. Dual-Degree Engineering program is typically arranged as 3 years at Bethel University and 2 years at another university with an accredited engineering program. In this program, students earn both a B.A. from Bethel University and an engineering degree from the other institution.

**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.

### B.A./B.S. Dual-Degree Engineering Program

In the dual-degree engineering program, students earn both a B.A. from Bethel University and an engineering degree from an accredited 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 B.A. degree. Students benefit from small introductory class sizes and the Christian emphasis at Bethel while obtaining their engineering degree from any widely respected and recognized school of engineering that offers the engineering field of their choice.

Arrangements to complete the Dual-degree Engineering Program can be made with almost any school of engineering on an individual basis, enabling students to go to the school of their choice. A strong working relationship has existed for decades between Bethel University and the University of Minnesota (College of Science and Engineering) in Minneapolis, making it a popular choice for our students. 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 cooperating university, although students may elect to spend more time at either or both institutions.

### Program Requirements for a Dual-Degree in Engineering:

1. All General Education requirements as prescribed in this catalog must be met, except the writing and speaking proficiency courses within the major.
2. Formal application must be made to the chairperson of the Bethel University Department of Physics and Engineering.
3. Transfer requirements for the cooperating school of engineering must be met.
4. All requirements for an engineering degree at a school of engineering must be completed. The bachelor of arts degree in engineering from Bethel University is not awarded until requirements for degrees from both universities have been met.

Many of Bethel's physics and engineering courses are pre-approved engineering courses by various other schools of engineering. A complete listing of such courses approved by the University of Minnesota is available from the Department of Physics and Engineering.

## B.S. in Computer Engineering

This major equips graduates with the skill set needed to work in the Computer Engineering field. It is a multi-disciplinary program built upon a combination of key courses in mathematics, computer science, and electrical engineering. The work of Computer Engineers is to research, design, develop, and test computer systems and components such as processors, circuit boards, memory devices, networks, and routers. They update existing computer equipment so it will work with new software, oversee the manufacturing process for computer hardware, and maintain knowledge of computing trends and new technology. They may discover new directions in computer hardware and design non-computer devices that incorporate processors and other computer components and that connect to the internet.

## B.S. Electrical Engineering

The B.S. in Electrical Engineering is designed to graduate outstanding engineers who also have a stronger liberal arts and science background than can be achieved within a traditional engineering program. Our distinctive and innovative approach is based heavily in physics, which is foundational to all engineering disciplines, but uniquely so for electrical. We build on our long tradition of excellence in laboratory-based, hands-on learning. Theory is stressed in the classroom, but plenty of opportunity exists to apply the principles in the laboratory and design setting. Bethel's Christian liberal arts emphasis helps students develop as whole persons while preparing engineers for either leadership roles in industry or continuing their education in graduate school.

## B.S. Software Engineering

This program prepares students for success in a rapidly growing field. The program is based within the Department of Mathematics and Computer Science and is taught by a highly-credentialed faculty with exceptional teaching expertise. Graduates working as software engineers will ensure that overall software systems function well within their intended hardware environments. Because graduates will also have completed Bethel's strong general education program, they can provide clients and/or employers with service that is creative, problem-focused, collegial, and clearly-articulated. A well-developed Christian commitment enables them to work to the highest ethical and performance standards.

## Graduate Engineering Program

An increasingly popular option with our students is to major in physics or applied physics and then earn a graduate degree in fields such as biomedical, civil, electrical, mechanical, industrial, or aerospace engineering.

Normally this means 4 years at Bethel followed by 2 years in graduate school. At the end of 6 years, students have both a B.S. from Bethel and an M.S. from the graduate school of your choice. This approach is particularly appealing for those interested in a career that's more involved with engineering research.

Typically, our students get full financial support during their graduate work through research or teaching assistantships, tuition waivers, or even fellowships. A few have finished their master's degree in considerably less than 2 years, and some continue on for doctoral degrees in engineering.

Many of our students choose to do graduate work at the nearby University of Minnesota, one of the best engineering schools in the country. Of course, graduate work can be, and is, done at many other fine schools.

## Major in Engineering

- B.A. in Engineering (p. 176)
- B.S. in Computer Engineering (p. 177)
- B.S. in Electrical Engineering (p. 178)
- B.S. in Software Engineering (p. 179)

### **ENR 160 • Introduction to Engineering.** 3 Credits.

Introduction to engineering fields, practicing engineers, engineering work, and the tools that engineers use. Topics such as process and methodology, statistical analysis, and the use of computer software (e.g., CAD) in the development of specifications, design, and prototyping. Emphasis on the ethics and responsibilities of the engineering process.

*Offered: Interim.*

**ENR 260 • Careers in Engineering and Physics Seminar.** 1 Credit.

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:* PHY 296/297. *Offered:* Fall. *Special Notes:* Carries cross-credit in physics.

**ENR 306 • Digital Logic and Design.** 3 Credits.

Introduction to digital logic and design. Topics may include Boolean algebra, design and optimization of combinational and sequential logic, the use of programmable logic devices such as FPGA, VHDL or Verilog modeling, and an introduction to processors and memory. Extensive lab experience in the simulation, design, construction and testing of digital circuits.

*Prerequisites:* PHY 302/303, MAT 125. *Corequisites:* Concurrent registration in ENR 307 is required. *Offered:* Spring.

**ENR 307 • Digital Logic and Design Lab.** 1 Credit.

Lab experience accompanying ENR 306 .

*Corequisites:* Concurrent registration in ENR 306 is required. *Offered:* Spring.

**ENR 308 • 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:* MAT 223 (may be taken concurrently); PHY 292/292D. *Offered:* Spring, even # years.

**ENR 316 • Analog Circuitry and Design.** 3 Credits.

Feedback principles and electronic circuit theory and device theory applied to multistage transistor amplifiers. Detailed study of operational amplifiers. Power supply design. Nonlinear circuits. Introduction to filter theory. Introduction to noise analysis and low noise design. Circuit design and construction experience emphasized in projects and the laboratory.

*Prerequisites:* PHY 302; PHY 303; MAT 222 (may be taken concurrently) *Corequisites:* Concurrent registration in ENR 317 is required. *Offered:* Fall, odd # years.

**ENR 317 • Analog Circuitry & Design Lab.** 1 Credit.

Lab experience accompanying ENR 316.

*Corequisites:* Concurrent registration in ENR 316 is required. *Offered:* Fall, odd # years.

**ENR 318 • Engineering Thermal Science.** 3 Credits.

Fundamental laws of thermodynamics. Energy transfer modes. The properties, equations of state, processes, and cycles for reversible/irreversible thermodynamic systems. Equations for conservation of mass and energy, plus entropy balances. Application of thermodynamic principles to modern engineering systems.

*Offered:* Occasionally.

**ENR 320 • 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:* MAT 222; MAT 223. *Offered:* Fall. *Special Notes:* Carries cross-credit in physics.

**ENR 326 • Circuit Analysis & Simulations.** 4 Credits.

Circuit analysis techniques as applied to: sinusoidal steady state analysis with power calculations, first and second order transient analysis in both time and Laplace domains, three-phase circuits and magnetically coupled circuits. Additional topics include: frequency response, resonance, filters, Bode plots. Simulation of electrical and electronic circuits will be emphasized.

*Prerequisites:* PHY 302; PHY 303. *Offered:* Spring, odd # years.

**ENR 336 • Signals and Systems.** 4 Credits.

Continuous-and discrete-time signals and systems. Topics include: definitions and properties of signals and systems, convolution, solution of differential and difference equations, Laplace and Z transforms, and Fourier analysis. Emphasis is on applications to signal processing, communication and control systems.

*Prerequisites:* MAT 222, PHY 302; PHY 303, ENR 352; ENR 353. *Offered:* Fall even # years

**ENR 352 • 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:* MAT 223; PHY 296/297 (grade of C or better) or consent of instructor. *Corequisites:* Concurrent registration in ENR 353 is required. *Offered:* Spring. *Special Notes:* PHY 302/303 is recommended. Carries cross-credit in physics.

**ENR 353 • Computer Methods in Physics and Engineering Lab.** 1 Credit.

Laboratory experience accompanying ENR 352.

*Corequisites:* Concurrent registration in ENR 352 is required. *Offered:* Spring. *Special Notes:* Carries cross-credit in physics.

**ENR 420 • Software Process.** 3 Credits.

Balancing the various real-world challenges that a software engineer encounters, including ambiguity, conflicting requirements, task-time estimation, team dynamics, requests from customers, product managers or architects. A team-based software project on a modern computer science topic will be developed during the semester.

*Prerequisites:* COS 216; ENR 477 recommended. *CX:* COS 420. *Offered:* Spring odd # years

**ENR 422 • 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:* MAT 223; PHY 296/297 (grade of C or better) or consent of instructor. *Corequisites:* Concurrent registration in ENR 423 is required. *Special Notes:* Carries cross-credit in physics. *Offered:* Fall.

**ENR 423 • Fluid Mechanics Lab.** 1 Credit.

Laboratory experience accompanying ENR 422.

*Corequisites:* Concurrent registration in ENR 422 is required. *Offered:* Fall. *Special Notes:* Carries cross-credit in Physics.

**ENR 424 • Materials and Devices.** 3 Credits.

Theory and application of condensed matter and materials. Physical origin of electrical, optical, mechanical, thermal, and magnetic properties. Particular emphasis on devices such as pn junction diodes, LEDs, solar cells, piezoelectrics, liquid crystals, nanostructures, and sensors. An accompanying lab explores characterization of materials and design, fabrication, and testing of devices.

*Prerequisites:* PHY 302/303 or PHY 312/313. *Corequisites:* Concurrent registration in ENR 425 is required. *Offered:* Fall, even # years. *Special Notes:* Carries cross-credit in physics.

**ENR 425 • Materials and Devices Lab.** 1 Credit.

Laboratory component of ENR 424 .

*Corequisites:* Concurrent registration in ENR 424 required. *Offered:* Fall, even # years. *Special Notes:* Carries cross-credit in physics.

**ENR 436 • Microprocessors.** 3 Credits.

Advanced principles of microcomputer hardware and software. Topics include computer organization, instruction sets and addressing modes, assembly language programming, arithmetic and logic operations, input/output, buffers, interrupts and special purpose features such as A/D converters.

*Prerequisites:* ENR 306; ENR 307. *Corequisites:* Concurrent registration in ENR 437 is required. *Offered:* Fall, even # years.

**ENR 437 • Microprocessors Lab.** 1 Credit.

Lab experience accompanying ENR 436.

*Corequisites:* Concurrent registration in ENR 436 is required. *Offered:* Fall, even # years.



**ENR 446 • Control Systems.** 3 Credits.

Time and frequency domain representation of feedback control systems. Topics include: stability criteria, root locus methods, frequency response techniques, digital implementation and hardware considerations.

*Prerequisites:* ENR 336. *Corequisites:* Concurrent registration in ENR 447 is required. *Offered:* Spring odd # years

**ENR 447 • Control Systems Lab.** 1 Credit.

Lab experience accompanying ENR 446.

*Corequisites:* Concurrent registration in ENR 446 is required. *Offered:* Spring odd # years.

**ENR 450 • Topics in Applied Physics and Engineering.** 3-4 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:* ENR 320 (may be taken concurrently); MAT 222. *Offered:* Occasionally. *Special Notes:* Carries cross-credit in physics, Course may be repeated when a different topic is emphasized, The field of engineering or applied physics is announced prior to registration.

**ENR 465 • Engineering Design Seminar.** 1 Credit.

Prepares students for engineering practice through a major design experience. Design projects have a major engineering component to them, and are intentionally multi-disciplinary in nature. Students work in teams to design a system to meet a given specification that requires the incorporation of relevant engineering standards.

*Prerequisites:* Senior standing and a declared major in Electrical Engineering. *Offered:* Fall.

**ENR 477 • 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:* COS 216. *CX:* COS 477. *Offered:* Fall, odd # years.

**ENR 490 • Engineering Design Project.** 3 Credits.

Prepares students for engineering practice through a major design and prototyping experience. The design produced in ENR 465 will be the basis for building a prototype system. The prototype will incorporate relevant engineering standards. Final designs and prototypes are documented in a professional manner and presented publicly.

*Prerequisites:* ENR 465. *Offered:* Spring

## B.A. in Engineering

Code	Title	Credits
<b>Major in Engineering (B.A./B.S. Dual-Degree)</b>		
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
COS 205	Scientific Computing	3
ENR 260	Careers in Engineering and Physics Seminar	1
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4

PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
ENR 352 & ENR 353 or MAT 344	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab Numerical Methods	3-4
Choose 12 hours of electives from the following:		12
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab <sup>2</sup>	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab <sup>2</sup>	
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab <sup>2</sup>	
ENR 308	Statics and Mechanics of Materials	
ENR 320	Mathematical Methods in Physics and Engineering	
ENR 422 & ENR 423	Fluid Mechanics and Fluid Mechanics Lab	
ENR 424 & ENR 425	Materials and Devices and Materials and Devices Lab	
ENR 450	Topics in Applied Physics and Engineering	
MAT 211	Linear Algebra	
MAT 330	Probability and Statistics	
PHY 302 & PHY 303	Electronics and Electronics Lab	
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	
PHY 340	Mechanics	

Code	Title	Credits
Major *		45-46
General Education		49-50
Electives <sup>1</sup>		26-28
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> The additional studies taken in a school of Engineering are considered equivalent to the elective requirements for graduation from Bethel.

<sup>2</sup> Required for chemical engineering. CHE 344/CHE 345 and CHE 348/CHE 349 strongly recommended.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Computer Engineering

Code	Title	Credits
<b>Major in Computer Engineering (B.S.)</b>		
MAT 124M	Calculus 1 <sup>1</sup>	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3

MAT 241	Discrete Mathematics	3
MAT 330	Probability and Statistics	3
COS 205	Scientific Computing	3
COS 212	Computer Science 2	4
COS 214	Computer Architecture	4
COS 216	Data Structures and Algorithms	3
COS 301	Operating Systems	4
COS 386	Data Communications and Computer Networks	3
COS 450	Humans and Computers	3
PHY 292 & PHY 292D	General Physics I and General Physics I Lab <sup>1</sup>	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
ENR 160	Introduction to Engineering	3
ENR 260	Careers in Engineering and Physics Seminar	1
ENR 306 & ENR 307	Digital Logic and Design and Digital Logic and Design Lab	4
ENR 316 & ENR 317	Analog Circuitry and Design and Analog Circuitry & Design Lab	4
ENR 336	Signals and Systems	4
ENR/PHY 352	Computer Methods in Physics and Engineering	3
ENR/PHY 353	Computer Methods in Physics and Engineering Lab	1
ENR 436 & ENR 437	Microprocessors and Microprocessors Lab	4
ENR 465	Engineering Design Seminar	1
ENR 490	Engineering Design Project	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		87
General Education		49-50
Total Credits		136-137

<sup>1</sup> This course meets a General Education requirement.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Electrical Engineering

Code	Title	Credits
<b>Major in Electrical Engineering (B.S.)</b>		
ENR 160	Introduction to Engineering	3
ENR/PHY 260	Careers in Engineering and Physics Seminar	1
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4

PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
ENR 306 & ENR 307	Digital Logic and Design and Digital Logic and Design Lab	4
ENR 316 & ENR 317	Analog Circuitry and Design and Analog Circuitry & Design Lab	4
ENR/PHY 320	Mathematical Methods in Physics and Engineering	4
ENR 326	Circuit Analysis & Simulations	4
ENR 336	Signals and Systems	4
ENR/PHY 352	Computer Methods in Physics and Engineering	3
ENR/PHY 353	Computer Methods in Physics and Engineering Lab	1
PHY 400	Electricity and Magnetism	4
ENR 424 & ENR 425	Materials and Devices and Materials and Devices Lab	4
Choose one from Optical Science:		4
PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	
ENR 436 & ENR 437	Microprocessors and Microprocessors Lab	4
ENR 446 & ENR 447	Control Systems and Control Systems Lab	4
ENR 465	Engineering Design Seminar	1
ENR 490	Engineering Design Project	3
COS 205	Scientific Computing	3
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3

Code	Title	Credits
Major *		85
General Education		49-50
Total Credits		134-135

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Software Engineering

Code	Title	Credits
<b>Major in Software Engineering (B.S.)</b>		
ENR 160	Introduction to Engineering	3
ENR 465	Engineering Design Seminar	1
ENR 490	Engineering Design Project	3
Choose one introductory programming course:		3

COS 100	Introduction to Programming	
COS 205	Scientific Computing	
COS 105	Computer Science 1	4
COS 212	Computer Science 2	4
COS 214	Computer Architecture	4
COS 216	Data Structures and Algorithms	3
COS 301	Operating Systems	4
COS 313	Database Systems	3
COS 318	Web Programming	3
COS 371	Organization of Programming Languages	3
COS 386	Data Communications and Computer Networks	3
COS 420	Software Process	3
COS 450	Humans and Computers	3
COS 477	Software Engineering	3
MAT 124M	Calculus 1	4
MAT 207M	Statistical Analysis	3
MAT 211	Linear Algebra	3
MAT 241	Discrete Mathematics	3
BUS 334	Principles of Project Management	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		66
General Education		49-50
Electives		6-7
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# English and Journalism

The Department of English and Journalism 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 Communication Arts and Literature Education 5-12 (English Education) (p. 186)
- B.A. in English Literature (p. 187)
- B.A. in English Literature and Writing (p. 188)
- B.A. in Journalism (p. 189)

## Minors in English

- Creative Writing (p. 189)
- English Literature (p. 190)
- Journalism (p. 190)
- Photojournalism (p. 191)

### **ENL 100 • 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.*

### **ENL 102 • 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.*

### **ENL 111 • 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.*

### **ENL 200 • Juvenile Literature.** 3 Credits.

An exploration of a wide range of books written for children and teens in grades 5-9, as well as resources for effectively finding, reading, and interacting with them. Major topics of discussion include censorship, diversity, representation, and literacy merit.

*Offered: Fall, even # years.*

**ENL 202 • 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: GES 160 or GES 244. Offered: Spring.*

**ENL 204 • American Literary Traditions.** 4 Credits.

Major American authors studied in their historical and cultural contexts, from the colonial era to the present.

*Prerequisites: GES 160 or GES 244. Offered: Fall, spring*

**ENL 215U • World Literature.** 3 Credits.

Focused study of literature from a non-western region of the world, examining social and historical contexts.

*Prerequisites: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall, Occasionally interim, Spring.*

**ENL 235L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally interim. Special Notes: Carries cross-credit in philosophy.*

**ENL 241L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall or spring*

**ENL 301 • 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 2020.*

**ENL 303 • 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.*

**ENL 304 • 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 2019.*

**ENL 309 • 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 2021.*

**ENL 311 • American Civil War Literature.** 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.*

**ENL 315G • Literature of the Oppressed.** 3 Credits.

Literature, film, and stories (testimonies) that reveal truths regarding systems of oppression. Truth-telling explores the struggle for justice through the narratives and the imaginative response of the oppressed. Literary historical foci include the Holocaust, the experience of Native Americans, African Americans, women, and the oppressed in Minnesota.

*Prerequisites:* *Contemporary Western Life and Thought (L) course; World Cultures (U) course* or *[GES 244; World Cultures (U) course]*. Offered: *Fall or Spring*.

**ENL 316GZ • 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:* *[GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course]* or *[GES 244; World Cultures (U) course]*. Offered: *Occasionally*

**ENL 317 • Stories of Refugees and Migrants in America.** 4 Credits.

Narrative journalists and writers of fiction humanize the experience of displacement. Around the world, millions driven from their homes by conflict, deprivation or disasters, have sought new homes in the United States. Their stories enlarge our understanding of the human search for identity, opportunity, security and community.

**ENL 321 • 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.*

**ENL 341K • 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.*

**ENL 350 • 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.*

**ENL 352 • 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.*

**ENL 354 • 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.*

**ENL 355 • 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.*



**ENL 365 • 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:* ENL 102; ENL 202; ENL 204; or consent of instructor. *Offered:* Spring, even # years.

**ENL 367 • Topics in Literary Studies: Ways of Reading.** 4 Credits.

Theory offers us deeper way to engage with texts. Students interact with texts through a succession of perspectives and apply concepts and techniques for engaging with literature and culture in more perceptive and satisfying ways.

*Offered:* Fall, even # years.

**ENL 498 • Research Seminar in English.** 1 Credit.

Research methodology in literature or journalism. Development of a proposal for a scholarly project to be completed and formally presented in ENL 499 or ENW 499.

*Prerequisites:* Major or minor in English Literature or Journalism; Junior standing. *Special Notes:* May not be taken concurrently with ENL 499 or ENW 499. *Offered:* Fall.

**ENL 499 • Senior Seminar in Literature.** 3 Credits.

Analysis of a variety of topics relevant to the practice of literary studies with special consideration given to the role of the Christian reader and writer. Culminates in the completion of a major research project.

*Prerequisites:* Senior standing; major or minor in English; ENL 498. *Offered:* Spring

**ENW 100A • 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.

**ENW 115 • 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.

**ENW 120 • Digital News Studio.** 3 Credits.

Advances the basic techniques of news reporting and writing introduced in ENW 115 by developing skills in formats used by professionals. Includes covering at least one beat for The Clarion during the semester, investigating how national and regional stories have local connections, and presenting stories in multimedia.

*Prerequisites:* ENW 115. *Offered:* Spring

**ENW 201 • Methods of Tutoring Writing.** 1 Credit.

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.

*Prerequisites:* Consent of instructor. *Special Notes:* Required of all first-time Writing Center tutors. *Offered:* Fall, Spring.

**ENW 205A • Prose Studio.** 4 Credits.

A workshop for exploring and sharpening prose style utilized in blogs, personal essays, technical writing, and op-ed writing. Includes reading and writing in a variety of prose forms, voices, and topics to assist students in developing persuasive, precise, and personal writing styles.

*Prerequisites:* GES 160 or GES 244. *Offered:* Fall, even # years; Spring.

**ENW 211 • Feature Writing.** 3 Credits.

Analyzing, writing, and marketing feature stories of various types—service articles, profiles, human-interest pieces, and in-depth issue articles—for possible publication online or in print.

*Prerequisites:* ENW 115. *Offered:* Fall, odd # years

**ENW 214 • Principles of Editing.** 4 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.*

**ENW 300A • 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.*

**ENW 303AZ • 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: Fall, odd # years and Occasionally interim.*

**ENW 310 • 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: ENW 303AZ or ENW 205A or ENW 211 or Consent of instructor. Offered: Fall, even # years.*

**ENW 312A • Fiction Writing.** 4 Credits.

Practice in modern narrative techniques. Emphasis on writing and peer criticism of short fiction.

*Offered: Fall, odd # years.*

**ENW 317A • Poetry Writing.** 4 Credits.

Metrics, imagery, and other techniques of versification, with practice in writing in a wide variety of genres.

*Offered: Spring.*

**ENW 319 • Reporting II.** 3 Credits.

Refinement of interviewing, researching, writing, and online publication skills in the development of substantive news stories. Emphasis on news coverage, news gathering, use of public documents, and multiple interview sources in a community context, including selections from small town, suburban, ethnic, and urban neighborhood publications.

*Prerequisites: ENW 115. Offered: Fall, even # years*

**ENW 330GZ • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]; junior or senior standing. Offered: Occasionally interim*

**ENW 342 • Journalism for Social Change.** 3 Credits.

Study of journalism with a focus on skills and methods for investigative reporting on social issues. Content includes investigative journalism through reading award-winning news stories, strategies for gaining access to public records, data analysis using Excel spreadsheets, and hand-on experience through contributing stories to the Clarion or local news partners.

*Prerequisites: ENW 115. Offered: Spring, even # years.*

**ENW 360 • 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. Interim 2019: "Sports Reporting.

*Prerequisites: Sophomore standing or consent of department chair. Offered: Interim.*

**ENW 405 • Publishing and Being Published.** 4 Credits.

An advanced class covering practical aspects of literary publishing from an editorial perspective (article selection, editing, layout) and the author's point of view (query letters, book proposals, contracts, agents). Visits by local writers and editors, as well as visits to publishing houses included.  
*Prerequisites: ENW213; ENW 214; 4 credits in one other writing course. Offered: Fall, even # years.*

**ENW 481 • Internship in Writing.** 3 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 and Journalism; completion of 10 credit hours in English and Journalism. Offered: Offered by arrangement.*

**ENW 499 • 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; ENL 498. Offered: Spring*

## B.A. in Communication Arts and Literature Education 5-12 (English Education)

Code	Title	Credits
<b>Major in Communication Arts and Literature Education 5-12 (English Education) (B.A.)</b>		
ENL 102	Survey of British Literature I	4
ENL 200	Juvenile Literature	3
ENL 202	Survey of British Literature II	4
ENL 204	American Literary Traditions	4
ENL 215U	World Literature	3
ENW 115	Reporting I	3
ENW 201	Methods of Tutoring Writing	1
Choose one of the following from Drama courses:		4
ENL 303	Shakespeare: The Art of the Dramatist	
ENL 321	Drama in Great Britain	
Choose one of the following from Modern and Contemporary Literature courses:		4
ENL 317	Stories of Refugees and Migrants in America	
ENL 350	20th Century Literature	
ENL 352	Contemporary Literature	
ENL 354	Literature on Location: Major British Authors	
Choose one of the following from Writing courses:		4
ENW 205A	Prose Studio	
ENW 303AZ	Travel Writing	
COM 110	Basic Communication	3
LIN 300	Introduction to Linguistics	3
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1

EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 407	Middle Level Education Practicum in English	1
EDU 408	Methods in Teaching 5-12 English	3
EDU 490	Student Teaching Block <sup>1</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		76
General Education <sup>1</sup>		49-50
<b>Total Credits</b>		<b>125-126</b>

<sup>1</sup> In order to meet requirements for endorsements and dual-majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

Code	Title	Credits
<b>Major in English Literature (B.A.)</b>		
ENL 102	Survey of British Literature I	4
ENL 202	Survey of British Literature II	4
ENL 204	American Literary Traditions	4
ENL 498 & ENL 499	Research Seminar in English and Senior Seminar in Literature	4
Choose one of the following from Shakespeare courses:		4
ENL 303	Shakespeare: The Art of the Dramatist	
ENL 321	Drama in Great Britain	
Choose one of the following from Pre-Modern British Literature courses:		4
ENL 301	Chaucer and Writers of Arthurian Quests	
ENL 304	Milton and the Seventeenth Century	
ENL 309	Enlightenment and Romantic British Literature	
Choose two of the following from Modern and Contemporary Literature courses:		8
ENL 311	American Civil War Literature	
ENL 317	Stories of Refugees and Migrants in America	
ENL 350	20th Century Literature	
ENL 352	Contemporary Literature	

ENL 354	Literature on Location: Major British Authors	
ENL 365	Topics in Literary Studies	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major		32
General Education		49-50
Electives		40-41
<b>Total Credits</b>		<b>122</b>

## B.A. in English Literature and Writing

Code	Title	Credits
<b>Major in English Literature and Writing (B.A.)</b>		
ENL 102	Survey of British Literature I	4
ENL 202	Survey of British Literature II	4
ENL 204	American Literary Traditions	4
ENW 100A	Introduction to Creative Writing	3
Choose one of the following from Prose Writing courses:		4
ENW 205A	Prose Studio	
ENW 303AZ	Travel Writing	
Choose one of the following from Capstone courses:		3-4
ENL 498 & ENL 499	Research Seminar in English and Senior Seminar in Literature	
Or		
ENW 481	Internship in Writing	
Choose one of the following from Shakespeare courses:		4
ENL 303	Shakespeare: The Art of the Dramatist	
ENL 321	Drama in Great Britain	
Choose one from Pre-Modern British Literature:		4
ENL 301	Chaucer and Writers of Arthurian Quests	
ENL 304	Milton and the Seventeenth Century	
ENL 309	Enlightenment and Romantic British Literature	
Choose two of the following from Modern and Contemporary Readings courses:		8
ENL 311	American Civil War Literature	
ENL 317	Stories of Refugees and Migrants in America	
ENL 350	20th Century Literature	
ENL 352	Contemporary Literature	
ENL 354	Literature on Location: Major British Authors	
ENL 365	Topics in Literary Studies	
Electives from writing (ENW) courses (7 credits must be at the 300 level or above)		10
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		48-49
General Education		49-50
Electives		23-25
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Journalism

Code	Title	Credits
<b>Major in Journalism (B.A.)</b>		
ENW 115	Reporting I	3
ENW 120	Digital News Studio	3
ENW 211	Feature Writing	3
ENW 214	Principles of Editing	4
ENW 319	Reporting II	3
ENW 481	Internship in Writing	3
ENW 499	Senior Seminar in Journalism	3
COM 302	Media Law	3
ENL 498	Research Seminar in English	1
One Literature course (300 level or above) <sup>1</sup>		3-4
Choose one from Technology Specialization		3-4
COM 170A	Media Production I	
DES 105	Introduction to Digital Media	
Choose one of the following from Literary Connection courses		4
ENL 102	Survey of British Literature I	
ENL 202	Survey of British Literature II	
ENL 204	American Literary Traditions	
Choose one of the following from Depth Reportage courses		3
ENW 342	Journalism for Social Change	
ENW 360	Topics in Journalism	
Choose one of the following from Journalism Specialization courses <sup>1</sup>		3-4
ENL 341K	Environmental Writing	
ENW 303AZ	Travel Writing	
ENW 330GZ	Media and Communication in Developing Countries	
COM 352	Broadcast Journalism	

Code	Title	Credits
Major *		42-45
General Education		49-50
Electives		27-31
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> This requirement can be fulfilled with SPA 305, SPA 312, SPA 313, or SPA 318.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Creative Writing

Code	Title	Credits
<b>Minor in Creative Writing</b>		
ENW 100A	Introduction to Creative Writing	3

Choose one of the following from Genre Writing courses:	4
COM 217A	Screenwriting
ENW 312A	Fiction Writing
ENW 317A	Poetry Writing
Choose one of the following from Specialty Writing courses:	3-4
ENL/ENS 341K	Environmental Writing
ENW 303AZ	Travel Writing
ENW 310	Creative Nonfiction
Choose one of the following from Capstone Experience courses:	3-4
ENW 300A	Writers Workshop
ENW 405	Publishing and Being Published
ENW 481	Internship in Writing
Two electives from ENW 115, ENW 120, or any ENW course at the 200 level or higher	6-8
<b>Total Credits*</b>	<b>19-23</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in English Literature

Code	Title	Credits
<b>Minor in English Literature</b>		
ENL 204	American Literary Traditions	4
ENL 102	Survey of British Literature I	4
or ENL 202	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 LAT 102S, SPA 300, SPA 305, SPA 312, SPA 313, or SPA 318 to fulfill this requirement.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Journalism

Code	Title	Credits
<b>Minor in Journalism</b>		
ENW 115	Reporting I	3
ENW 120	Digital News Studio	3
ENW 211	Feature Writing	3
ENW 214	Principles of Editing	4
ENW 319	Reporting II	3
or ENW 342	Journalism for Social Change	
Choose one of the following from Technology Specialization courses:		3-4
COM 170A	Media Production I	
DES 105	Introduction to Digital Media	
<b>Total Credits*</b>		<b>19-20</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Photojournalism

Code	Title	Credits
<b>Minor in Photojournalism</b>		
ART 100A	Foundations: Color, Composition, and Ideation	3
ART 250A	Introduction to Photography	3
Choose one:		4
ART 330	Advanced Black & White Photography	
ART 332	Advanced Digital Photography	
ART 419	Photography Portfolio	4
ENW 115	Reporting I	3
ENW 120	Digital News Studio	3
<b>Total Credits</b> *		<b>20</b>

\* Courses whose number is followed by a letter fulfill 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.A. in Environmental Studies (p. 194)
- B.S. in Environmental Science (p. 195)

### **ENS 104 • Environment and Humanity.** 3 Credits.

Interrelationships and interactions of humans with the natural environment in which they live. Causes of and potential solutions to environmental problems like 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 ENS 104D is required. Offered: Fall, Spring.*

### **ENS 104D • Environment and Humanity Lab.** 1 Credit.

Laboratory experience accompanying ENS 104. Includes some outdoor and off-campus investigations.

*Corequisites: Concurrent registration in ENS 104 is required. Offered: Fall, Spring.*

### **ENS 201 • 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.*

### **ENS 205L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).*

*Offered: Spring*

### **ENS 305K • 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*

### **ENS 316 • 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 BIO 122/122D, BIO 128/128D, ENS 104/104D; BIO 218 (may be taken concurrently) or major in Environmental Science or major in Environmental Studies; Junior or senior standing. Corequisites: Concurrent registration in ENS 317 is required. Special Notes: Carries cross-credit in biology. Offered: Spring, even # years.*

**ENS 317 • Wildlife Ecology and Management Lab.** 1 Credit.

Laboratory experience accompanying ENS 316. Includes some outdoor and off-campus investigations.

*Corequisites: Concurrent registration in ENS 316 is required. Offered: Spring, even # years. Special Notes: Carries cross-credit in biology.*

**ENS 318KZ • Ecology in the Tropics: Natural History and Future Prospects.** 4 Credits.

Travel in Kenya or Ecuador surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human presence. Ecuador includes the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galapagos Islands. Kenya includes Nairobi, African savanna, the Rift valley, and Masai Mara.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in biology and general studies.*

**ENS 330K • 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, even # yrs. Special Notes: Carries cross-credit in political science.*

**ENS 335K • 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: Fall, Interim. Special Notes: Carries cross-credit in philosophy.*

**ENS 341K • 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.*

**ENS 399 • Introduction to Research.** 1 Credit.

An introduction to research methodology in the environmental sciences, with experience in the use of environmental 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 Environmental Studies or Environmental Science; Junior standing. Special Notes: Carries cross-credit in Biology. Offered: Fall, Spring.*

**ENS 481 • 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.*

**ENS 496 • Research in Environmental Studies.** 1 Credit.

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: ENS 399; Consent of instructor. Offered: Fall, Spring*

**ENS 498 • Seminar in Environmental Studies.** 1 Credit.

A senior capstone course for environmental studies and environmental science majors centered on a multidisciplinary discussion of current environmental issues in society.

*Prerequisites: ENS 496. Offered: Spring*

**ENS 499 • Symposium.** 0 Credit.

Completion of a scientific paper and oral presentation based upon research conducted in ENS 496.

*Prerequisites: ENS 496. 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.

## B.A. in Environmental Studies

Code	Title	Credits
<b>Major in Environmental Studies (B.A)</b>		
Choose one of the following sequences:		4
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	
BIO 330 & BIO 331	Ecology and Ecology Lab	4
ENS 104 & ENS 104D	Environment and Humanity and Environment and Humanity Lab	4
ENS 205L	Sustainable Living	3
ENS 399	Introduction to Research	1
ENS 481	Internship in Environmental Studies	3
ENS 496	Research in Environmental Studies	1
ENS 498	Seminar in Environmental Studies	1
ENS 499	Symposium	0
Choose 15 credits from the following:		15
ENS 305K	Transforming Technology: Environmental Perspectives	
ENS 330K	Science, Values, and the Making of Environmental Policy	
ENS 335K	Environmental Ethics	
ENS 341K	Environmental Writing	
GES 307K	Natural Resources: Use Them but Don't Lose Them	
GES 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
GES 326K	Economic Botany	
HIS/GEO 320K	History and the Human Environment	
Six additional 3- or 4-credit courses from one or two departments. At least three courses must be 300 level or above		18-23
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		54-59
General Education		49-50

Electives	13-19
<b>Total Credits</b>	<b>122</b>

\* Courses whose number is followed by a letter fulfill 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 PSY 230M.

## B.S. in Environmental Science

Code	Title	Credits
<b>Major in Environmental Science (B.S.)</b>		
Choose one of the following sequences:		4
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	
BIO 330 & BIO 331	Ecology and Ecology Lab	4
ENS 104 & ENS 104D	Environment and Humanity and Environment and Humanity Lab	4
ENS/GEO 201	Introduction to Geographic Information Systems	3
ENS 205L	Sustainable Living	3
ENS 399	Introduction to Research	1
ENS 481	Internship in Environmental Studies	3
ENS 496	Research in Environmental Studies	1
ENS 498	Seminar in Environmental Studies	1
ENS 499	Symposium	0
GEL 168 & GEL 168D	Geology and Geology Lab	4
Choose 12 credits from the following:		12
ENS 305K	Transforming Technology: Environmental Perspectives	
ENS 330K	Science, Values, and the Making of Environmental Policy	
ENS 335K	Environmental Ethics	
ENS 341K	Environmental Writing	
GES 307K	Natural Resources: Use Them but Don't Lose Them	
GES 318KZ	Ecology in the Tropics: Natural History and Future Prospects	
GES 326K	Economic Botany	
HIS/GEO 320K	History and the Human Environment	
Choose one of the following sequences:		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab	
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
Choose 12 credits from the following:		12

BIO 328 & BIO 329	Invertebrate Biology and Invertebrate Biology Lab
BIO 342 & BIO 343	Aquatic Biology and Aquatic Biology Lab
BIO 372 & BIO 373	Plant Taxonomy and Ecology and Plant Taxonomy and Ecology Lab
BIO 380 & BIO 383	Environmental Plant Biology and Environmental Plant Biology Lab
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab
CHE 320 & CHE 321	Instrumental Analysis and Instrumental Analysis Lab
ENS 316 & ENS 317	Wildlife Ecology and Management and Wildlife Ecology and Management Lab
ENS 318KZ	Ecology in the Tropics: Natural History and Future Prospects

Code	Title	Credits
Major *		56-60
General Education		49-50
Electives		12-17
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill 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 PSY 230M.

# 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.

**FLM 200 • 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.*

**FLM 300 • 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: FLM 200; junior standing or consent of instructor. Offered: Spring, even # years*

**FLM 305 • 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: FLM 200 or consent of instructor. Offered: Interim*

**FLM 481 • 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

Code	Title	Credits
<b>Minor in Film Studies</b>		
FLM 200	Introduction to Film	3
FLM 300	Film Theory and Interpretation	4
Choose one of the following Film Analysis and Interpretation Courses:		3-4
COM 213	Media Communication	
ENL/PHI 235L	Film and the Modern Sensibility	
ENL 241L	Modern Mythmakers	
FLM 305	Films of Great Directors	
PHI 302	Philosophy and Film	
PHI 310	Aesthetics	
LAFSC	Theology in Hollywood <sup>1</sup>	
Choose one of the following from Film Production courses:		3-4
COM 217A	Screenwriting	
COM 373	Digital Filmmaking	
FLM 481	Internship in Film	
THA 405	Directing	
LAFSC	Hollywood Production Workshop <sup>1</sup>	

LAFSC	Internship: Inside Hollywood <sup>1</sup>	
LAFSC	Motion Picture Production <sup>1</sup>	
LAFSC	Professional Screenwriting <sup>1</sup>	
Choose two electives from Film Analysis, Interpretation, or Film Production courses		6-8
<b>Total Credits</b> *		<b>19-23</b>

<sup>1</sup> Los Angeles Film Studies Center

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# Foreign Languages

## Ancient and Classical Language Courses

- **Biblical Greek** (See Department of Biblical and Theological Studies (p. 90), Biblical Classical Language courses.)
- **Biblical Hebrew** (See Department of Biblical and Theological Studies (p. 90) , Biblical Classical Language courses.)
- **Latin** (See Department of Biblical and Theological Studies (p. 90) , Biblical Classical Language courses; also see Classics minor (p.131).

## World Language Courses

- **American Sign Language**
- **Chinese (Mandarin)**
- **French**
- **Spanish**

(See Department of World Languages and Cultures (p. 348).



## 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

Code	Title	Credits
<b>Minor in Gender Studies</b>		
HIS 302	History of Sexuality in the United States	4
PHI 223L	Introduction to Gender Studies	3
Choose 9-10 credits from the following:		9-10
BIB 312J	Female and Male in Biblical Perspective	
BIB 317J	Family in Biblical Perspective	
COM 314G	Gender Communication	
GES 208	Human Sexuality	
GES 402P	Perspectives on Christian Marriage	
GES 405P	Ethical Relationships: Choosing the Good in Family and Community Life	
GES 407P	Women's Lives, Women's Choices	
GES 410P	Family Life Cycle	
GES 413P	Women's Spiritual Experience	
GES 451P	Spirituality, Sexuality, and the Family	
GES 455P	Covenant Relationships: Marriage, Friendship, and Beyond	
GES 463P	Masculinity Past and Present	
HIS 245L	History of Women in America	
HIS 328G	Muslim Women in History	
PHI 220L	Philosophies of Race and Gender in America	
PHI 228L	Philosophies of Love and Sex	
Gender-tagged course <sup>1</sup>		3-4
<b>Total Credits</b> *		19-21

<sup>1</sup> Students 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 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.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# 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.

## First Year General Education Options

First year students at Bethel choose between two options for some of their General Education requirements: CWILT or the Humanities Program. Both options provide students with a liberal arts foundation to prepare them to succeed in college and throughout their lives.

### CWILT

CWILT takes a modular approach. There are five courses, each covering a different area of study:

- Creative Arts (ICA)
- Christianity and Western Culture (CWC)
- Inquiry Seminar (IQ)
- L Course (Contemporary Western Life and Thought)
- Theology

Each course is focused on a single area of study, whether that means exploring Christianity's role in Western Civilization in CWC, learning to write academic papers in Inquiry Seminar, or studying the foundations of Christian faith in Christian Theology. Students choose their Contemporary Western Life and Thought (L) course, so they can focus on aspects of modern American life that most interests them.

### The Humanities Program

The Humanities Program is a four-course sequence consisting of GES 145, GES 147, GES 244, and GES 246. 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 [GES 125, GES 130, GES 160, THE 201 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.

#### **GES 101 • 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 GES 102Z. Completion of the GES 101 does not complete the Z-tag requirement, but is a pre-requisite for GES 102Z. GES 101 must be taken before participating in the cross-cultural experience. Graded on an S/U basis.

#### **GES 102Z • 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 GES 101, and evaluation of the mid-experience exercises and activities. Prerequisite: GES 101. Must be taken the semester following the completion of the independent cross-cultural experience. Graded on an S/U basis.

**GES 103 • Writing Studio for Multilingual Learners.** 1 Credit.

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.

*Offered: Fall.*

**GES 108 • Introduction to Life at Bethel.** 1 Credit.

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.

**GES 109 • Orientation to College Studies.** 3 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 (GES 130). Offered: Fall.*

**GES 119 • Introduction to Bethel.** 3 Credits.

Introduces transfer students to resources to support and enhance their success at Bethel. Develops strategies to apply to learning in the Christianity and Western culture course as well as other course taken during fall term. TRL Fall.

*Corequisites: Consent of instructor, Registration in GES 130 is required.*

**GES 125 • 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.*

**GES 130 • 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.

*Offered: Fall, Interim, Spring.*

**GES 140 • Introduction to Wellbeing.** 3 Credits.

Explores many of the dimensions that influence wellbeing: including Spiritual, Cognitive, Emotional, Physical, Relational, and Meaning. Examines the dynamic interconnection between the dimensions. Students integrate foundational knowledge, experiences, and strategies to become successful whole and holy individuals not only in college but also throughout adult life.

*Offered: Fall, Spring.*

**GES 145 • 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.*

**GES 147 • 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:* GES 145. *Offered:* Interim. *Special Notes:* Completing GES 147 replaces GES 125 Introduction to the Creative Arts.

**GES 160 • Inquiry Seminar.** 3 Credits.

While exploring a specific topic of interest, students develop and understand the meaning and value of a liberal arts education in the Christian tradition. The seminar promotes the establishment of community among students, faculty, and varying aspects of student life. The seminar provides students with instruction and practice in writing as well as in preparing and delivering oral presentations. Supplemental assignments and activities outside the traditional classroom are required.

*Offered:* Fall, Spring.

**GES 203 • Writing Studio for Multilingual Learners.** 1 Credit.

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.

*Offered:* Spring.

**GES 208 • 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.

**GES 244 • 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:* GES 147. *Offered:* Spring. *Special Notes:* Completing GES 244 replaces GES 160 Inquiry Seminar and GES 130 Christianity and Western Culture.

**GES 246 • 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:* GES 244. *Offered:* Fall. *Special Notes:* Completing GES 246 replaces THE 201 Christian Theology and a Contemporary Western Life and Thought (L) course.

**GES 302K • 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

**GES 303K • 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

**GES 305K • 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*

**GES 306K • 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*

**GES 307K • 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*

**GES 308K • 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*

**GES 309K • 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*

**GES 311K • 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 Fall, Interim, Spring.*

**GES 312G • 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: [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. Offered: Occasionally interim*

**GES 314K • Stem Cells, Cloning, and Reproductive Technologies.** 3 Credits.

Stem cells, cloning, reproductive technologies, gene therapy, and drug production are all applications of biotechnology. The study of these applications along with their influence and their impact on society are examined.

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

**GES 315K • 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*

**GES 317KZ • Science and Technology in New Zealand.** 3 Credits.

Exploration of historical development of science and technology in New Zealand, including current challenges. Topics include inventions and inventors, health care, unique technologies, native and invasive species, sea life, earthquakes, hot springs, and volcanic activity in the context of historical Maori and British colonial cultures leading to the present day.

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

**GES 318KZ • Ecology in the Tropics: Natural History and Future Prospects.** 3 Credits.

Travel in Kenya or Ecuador surveying the land, climate, plants, animals, homes, transportation, and industries, noting especially the impact of human presence. Ecuador includes the Amazon rainforest, Andean cloud forests, volcanic mountains, highlands, towns, cities, and the Galapagos Islands. Kenya includes Nairobi, African savanna, the Rift valley, and Masai Mara.

*Prerequisites: Laboratory Science (D) course; Mathematics (M) course. Offered: Interim. Special Notes: Carries cross-credit in biology and environmental studies.*

**GES 321K • 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*

**GES 322K • 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.*

**GES 324K • 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*

**GES 326K • 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: Interim.*

**GES 328K • 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*

**GES 330K • 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*

**GES 331K • 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.*

**GES 334K • 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 GES 334K and COS 450. Offered: Occasionally*

**GES 336GZ • 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: [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. Offered: Occasionally interim*

**GES 338K • 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*

**GES 339K • 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*

**GES 340K • 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.*

**GES 341Z • 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.*

**GES 355 • Advanced Writing Studio for Multilingual Learners.** 1 Credit.

Students apply reading and writing strategies to writing lengthy assignments in advanced courses. Students are expected to take the studio in conjunction with a class that requires substantial writing and research. Instruction tailored to English Language Learners (international or immigrant students from non-English speaking backgrounds). Graded on an S/U basis .

*Offered: Fall.*

**GES 390K • 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*

**GES 402P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 403P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 404P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 405P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 407P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 409P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 410P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 412P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally



**GES 413P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 414P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 416P • 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; [GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 418P • 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; [GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 419P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 420P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Fall, Spring.

**GES 421P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 424P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 425P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 426P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Special Notes:* Students taking COM 400 cannot receive credit for GES 426P. *Offered:* Fall, Spring.

**GES 427P • Christian Responses to Genocide.** 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 selected major genocides of the 20th and 21st centuries.

*Prerequisites:* Senior standing; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 432P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 433P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 434P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally interim

**GES 438P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally

**GES 440P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. *Offered:* Occasionally.

**GES 441PZ • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) 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.*

**GES 442P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 444P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Fall, Spring.*

**GES 445P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 447PZ • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 448P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Interim.*

**GES 449P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Spring, alternate years*

**GES 450P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Interim*

**GES 451P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Fall, Spring*

**GES 452P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 453P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally interim*

**GES 455P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally.*

**GES 456P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Spring*

**GES 457 • Advanced Writing Studio for Multilingual Learners.** 1 Credit.

Students apply reading and writing strategies to writing lengthy assignments in advanced courses. Students are expected to take the studio in conjunction with a class that requires substantial writing and research. Instruction tailored to English Language Learners (international or immigrant students from non-English speaking backgrounds). Graded on an S/U basis .

*Offered: Fall, Spring.*

**GES 458PZ • Contemporary Wellbeing and Traditional Therapies in Taiwan.** 3 Credits.

Immersion experience in Taiwan explores holistic wellbeing with an emphasis on physical and spiritual health in the following areas: healthcare system, traditional Chinese therapies, and organic farming in indigenous communities. Students evaluate wellbeing from scientific, cultural, ethical, personal, Taoist and Christian perspectives.

*Prerequisites: [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]; Senior standing. Offered: Interim, odd # years.*

**GES 460P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 461P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Fall, even # years*

**GES 462P • 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; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Occasionally*

**GES 463P • Masculinity Past and Present.** 3 Credits.

Study of how men have understood their identities as men in different historical contexts, including the present. While strength, individuality, and aggression may seem paramount, many societies have emphasized moral ideas like piety, cooperation, and self-control. Encourages critical evaluation of how gender helps construct personal identity.

*Prerequisites: Senior standing; [GES 140; GES 160; THE 201; Comparative Systems (G) course] or [GES 246; Comparative Systems (G) course]. Offered: Interim.*

# 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.

## **GEO 120 • Introduction to Geography.** 3 Credits.

Physical environment including weather, world climates, landforms, and natural vegetation. Humankind's response to geographical variations in terms of the use of land and sea, natural resources, population, economic activity, and political and social organization.

*Offered: Fall.*

## **GEO 201 • 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. Investigating 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 environmental science.*

## **GEO 320K • 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

Geology is the study of the earth's physical structure and substance, its history, and the processes that act on it. The goal of the introductory-level course is to familiarize students with the broad spectrum within geological study.

## **GEL 168 • 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 GEL 168D is required. Offered: Fall.*

## **GEL 168D • Geology Lab.** 1 Credit.

Laboratory experience accompanying GEL 168. Includes two field trips to exposed rock layers and fossil digs.

*Corequisites: Registration in GEL 168 is required. Offered: Fall.*

# Healthcare

Bethel University excels in preparing students to work in healthcare. In addition to majors and minors in healthcare fields, we offer endorsements and pathways and, through our dual enrollment program with the College of Adult & Professional Studies, we offer healthcare-related certificates. The University has an excellent reputation for preparing students for graduate schools to pursue careers as physicians, physician assistants, optometrists, osteopaths, podiatrists, dentists, physical therapists, pharmacists, occupational therapists, chiropractors, veterinarians, and other types of healthcare professionals.

Bethel's Center for Healthcare Excellence partners with various companies in the healthcare industry, including companies providing healthcare and health insurance and those developing medical devices and healthcare-related software. As a result of these partnerships, Bethel graduates are sought by healthcare employers for their understanding of healthcare, the skills required to work in this high-demand field, and for the critical thinking and communication skills they acquire through their liberal arts education.

Bethel offers the following opportunities for students interested in pursuing a career in healthcare:

**Undergraduate Degree Programs:**

B.A. in Community Health (p. 246)

B.S. in Nursing (p. 293)

**Endorsements and Pathways:**

Digital Healthcare Pathway

Healthcare Endorsement (p. 215)

**Certificates (offered through the College of Adult & Professional Studies):**

Addiction Studies

Senior Care Leadership and Administration (p. 215)

**Pre-Medical and Preparation for Other Graduate Programs in Health:**

Recommended Pre-Medical Track (p. 216)

Doctor of Physical Therapy Program at Southwest Baptist University (p. 217) (Articulation Agreement)

**Bethel Graduate Programs in Healthcare:**

M.S. in Nurse-Midwifery

M.S. in Physician Assistant at Bethel University

Doctor of Nursing Practice

# Healthcare Endorsement

The healthcare endorsement offered through the Center for Healthcare Excellence, prepares students to tackle the industry’s most pressing issues. Through focused academic course work, intentional exploration of healthcare and health careers, individual career counseling, and internships with corporate partners, students get a tailored educational experience aimed at preparing them for a career in healthcare.

To learn more about the healthcare endorsement or to apply, visit <https://www.bethel.edu/academics/pathways/healthcare-endorsement>

Code	Title	Credits
<b>Healthcare Endorsement</b>		
HAS 110	Introduction to Healthcare	3
Choose one:		3
PHI 110	Contemporary Moral Issues	
THE 263	Christian Social Ethics	
ENS/PHI 335K	Environmental Ethics	
GES 390K	Decision-Making and Medical Technology	
Internship in healthcare setting		
Culminating project		
Total Credits		6

The healthcare endorsement is indicated on the transcript of students who have completed program requirements and have a cumulative GPA of 3.0 or higher at the time their degree is awarded.

# Senior Care and Administration Certificate

Bethel’s Senior Care Leadership and Administration Certificate prepares students to serve in the full continuum of senior care. Students develop competencies in human resources, accounting, gerontology, and regulatory issues—all in just one year of study. A bachelor’s degree and completion of two practicum courses are prerequisites to sit for licensure. Program directors will assist with placement, but please note that practicums are competitive.

Code	Title	Credits
<b>Certificate in Senior Care Leadership and Administration</b>		
BUS 210	Financial Accounting	4
BUS 230	Principles of Management	4
BUS 231	Human Resource Management	3
NURS 410	Nursing Informatics	3
SCLA 450	Gerontology and Services for Senior Care	3
SCLA 455	Healthcare and Medical Needs for Senior Care	3
SCLA 460	Senior Care Support Services	3
SCLA 465	Senior Care Regulatory Management	3
SCLA 481	Senior Care Internship I <sup>1</sup>	4
SCLA 482	Senior Care Internship II <sup>1</sup>	4
Total Credits		34

<sup>1</sup> Students must complete SCLA 481 and SCLA 482 as they are courses required to sit for the state licensure, but not required to complete this certificate.

\* Since SCLA 481 and SCLA 482 are not required to fulfill the program requirements for this certificate, the actual total number of credits required within the program is 26 credits.



# Pre-Medical and Preparation for Other Graduate Programs in Health:

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.)

Code	Title	Credits
BIO 120 & BIO 121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	4
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab <sup>1</sup>	8
CHE 224 & CHE 225 & CHE 226 & CHE 227	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	8
Choose one of the following sequences:		4-8
CHE 304 & CHE 305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
CHE 388 & CHE 389 & CHE 396 & CHE 397	Biochemistry I and Biochemistry I Lab and Biochemistry II and Biochemistry II Lab	
Choose one of the following sequences:		8

PHY 202  
& PHY 202D  
& PHY 206  
& PHY 207

Introductory Physics I  
and Introductory Physics I Lab  
and Introductory Physics II  
and Introductory Physics II Lab <sup>1</sup>

PHY 292  
& PHY 292D  
& PHY 296  
& PHY 297

General Physics I  
and General Physics I Lab  
and General Physics II  
and General Physics II Lab

Total Credits

36-40

Additional courses in mathematics, composition, literature, and social and behavioral sciences may be required by specific professional schools.

## 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 the section on Admission to the University in the Southwest Baptist University catalog.
6. 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.
  - General Chemistry: two semesters in sequence with labs
  - General Physics: two semesters in sequence with labs
  - General Biology: one semester with lab • Anatomy/Physiology: one semester each or full year combined sequence with labs from a sciencebased department
  - Statistics: one course
  - Psychology:  
Applicants for Fall 2022 or later: three courses from a psychology department (1. general, 2. normal growth and development, 3. abnormal development) Applicants for Fall 2021 or earlier: two courses from a psychology department (1. general, 2. normal growth and development OR abnormal development)
7. Completion of the following support courses (not calculated into prerequisite GPA)
  - Medical Terminology: one semester is required at a "B" grade or higher

• Exercise Physiology: not required, but highly recommended; students demonstrating successful completion of an exercise physiology course with a "B" grade or higher will be exempt from completing the exercise physiology component of the DPT program

• Pathophysiology: not required, but highly recommended

### Pre-requisite Equivalency for SBU/DPT program

Code	Title	Credits
Choose one of the following sequences:		4
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 118 & BIO 118D	General Biology and General Biology Lab	
With approval, any upper level human or animal-based Biology course with a Lab		
BIO 105	Medical Terminology <sup>1</sup>	2
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	4
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4
Choose one of the following sequences:		8
PHY 202 & PHY 202D & PHY 206 & PHY 207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab	
PHY 292 & PHY 202D & PHY 296 & PHY 297	General Physics I and Introductory Physics I Lab and General Physics II and General Physics II Lab	
MAT 207M	Statistical Analysis	3-4
or PSY 230M	Introduction to Statistical Methods and Experimental Design	
or HAS 250M	Statistics and Research Methods in Applied Health Sciences	
or MAT 330	Probability and Statistics	
PSY 100	Introduction to Psychology	3
Applicants for Fall 2021 or earlier, choose one of the following Psychology courses:		3
PSY 203	Lifespan Development	
PSY 300	Abnormal Psychology	
Applicants for Fall 2022 or later will require all 3 Psychology courses		
<b>Recommendations</b>		
HAS 376	Exercise Physiology and Assessment <sup>1</sup>	3
BIO 244 & BIO 245	Pathophysiology and Pharmacology and Pathophysiology and Pharmacology Lab	4
BIO 409	Advanced Human Gross Anatomy	4

Code	Title	Credits
Total Credits (Applicants for Fall 2021 or earlier)		50-51
Total Credits (Applicants for Fall 2022 or later)		53-54

<sup>1</sup> Highly recommended; students demonstrating successful completion of an exercise physiology course with a "B" grade or higher will be exempt from completing the exercise physiology component of the DPT program.

## 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.

Code	Title	Credits
<b>Required Prerequisites Offered in the College of Arts and Sciences</b>		
Choose one of the following Anatomy courses:		4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	
BIO 224 & BIO 225	Clinical Anatomy and Clinical Anatomy Lab	
Choose one of the following Physiology courses:		4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	
BIO 226 & BIO 227	Clinical Physiology and Clinical Physiology Lab	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
Choose one of the following Biochemistry courses:		4
CHE 304 & CHE 305	Essentials of Biochemistry and Essentials of Biochemistry Lab	
CHE/BIO 388	Biochemistry I	
CHE/BIO 389	Biochemistry I Lab	
Choose one of the following Microbiology courses:		4
BIO 234 & BIO 235	Microbiology and Microbiology Lab	
BIO 230 & BIO 231	Clinical Microbiology and Clinical Microbiology Lab	
PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab	4
PSY 100	Introduction to Psychology	3
Choose one of the following Statistics courses:		3-4
MAT 207M	Statistical Analysis	
PSY 230M	Introduction to Statistical Methods and Experimental Design	
HAS 250M	Statistics and Research Methods in Applied Health Sciences	

**Recommended Courses Offered in the College of Arts and Sciences**

PHI 110	Contemporary Moral Issues	
Choose one of the following advanced Cellular Biology courses:		4
BIO 244 & BIO 245	Pathophysiology and Pharmacology and Pathophysiology and Pharmacology Lab	
BIO 248 & BIO 249	Clinical Pathophysiology and Pharmacology and Clinical Pathophysiology and Pharmacology Lab	
BIO 332 & BIO 333	Genetics and Genetics Lab	
<hr/> Total Credits		34-35

# 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. 226)
- B.A. in Social Studies Education 5-12 (p. 266) (See Multidisciplinary section)

## Minor in History

- History (p. 227)

### **HIS 200L • American Civilization.** 3 Credits.

An exploration 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).*

*Offered: Fall, spring*

### **HIS 204U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered:*

*Occasionally*

### **HIS 205U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring*

### **HIS 206U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered:*

*Occasionally*

### **HIS 207U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring*

**HIS 209L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally*

**HIS 210U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall, odd # years*

**HIS 212U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in religious studies.*

**HIS 216L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in political science.*

**HIS 217UZ • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall, even # years. Special Notes: Spanish language not a requirement.*

**HIS 221L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally*

**HIS 223L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Interim, odd # years*

**HIS 230L • 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:* GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).

*Offered:* Interim, odd # years

**HIS 231L • 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:* GES 130; GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).

*Offered:* Spring

**HIS 241L • 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:* GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).

*Offered:* Interim. *Special Notes:* Carries cross-credit in political science.

**HIS 245L • 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:* GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).

*Offered:* Fall

**HIS 290 • 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.

**HIS 300 • American Beginnings.** 4 Credits.

An exploration 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.

*Prerequisites:* HIS 200L or sophomore standing. *Offered:* Fall 2020.

**HIS 301 • A New Nation.** 4 Credits.

An exploration 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.

*Prerequisites:* HIS 200L or sophomore standing. *Offered:* Fall.

**HIS 302 • 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

**HIS 305G • 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. *Special Notes:* Carries cross-credit in political science.

*Offered:* Fall, even # years.



**HIS 307 • 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.

*Prerequisites: HIS 200L or sophomore standing. Offered: Spring, odd # years*

**HIS 310 • 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: GES 130 or GES 145; sophomore standing. Offered: Occasionally*

**HIS 311 • 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: GES 130 or GES 145; sophomore standing. Offered: Spring*

**HIS 312 • 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.

*Prerequisites: GES 130 or GES 145; sophomore standing. Offered: Occasionally*

**HIS 320K • 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.*

**HIS 324G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Occasionally. Special Notes: Carries cross-credit in political science.*

**HIS 328G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Interim. Special Notes: Carries cross-credit in religious studies.*

**HIS 329 • 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: POS 202U or POS 205 recommended. Offered: Spring. Special Notes: Carries cross-credit in political science.*

**HIS 335G • The Reformations.** 3 Credits.

Christian worldviews in the 16th century, including the Protestant Reformation, Catholic Reformation, and Radical Reformation.

*Prerequisites:* [GES 130; GES 160; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES 244; *World Cultures (U) course*]. *Offered:* Fall, even # years

**HIS 350 • Modern America.** 4 Credits.

An exploration 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:* HIS 200L; *Sophomore standing.* *Offered:* Fall 2019.

**HIS 354 • 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:* GES 130 or GES 246; *Sophomore standing.* *Offered:* Fall, odd # years.

**HIS 356 • 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.*

**HIS 360 • 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.*

**HIS 370 • Topics in American History.** 3-4 Credits.

Selected topics in American history. Specific topic to be announced in advance of registration.

*Prerequisites:* HIS 200L or consent of instructor. *Repeatable course: The course may be repeated when a different topic is emphasized.* *Offered:* Occasionally

**HIS 371 • Topics in European History.** 3-4 Credits.

Selected areas, themes, and periods of European history. Specific topic is announced in advance of registration.

*Prerequisites:* GES 130 or GES 246; *Contemporary Western Life and Thought (L) course.* *Repeatable course: The course may be repeated when a different topic is emphasized.* *Offered:* Occasionally

**HIS 372 • 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:* GES 130 or GES 246; *Contemporary Western Life and Thought (L) course or GES 246; World Cultures (U) course.* *Repeatable course: May be repeated when a different topic is emphasized.* *Offered:* Occasionally

**HIS 400 • 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 HIS 400 and/or directed study.*

**HIS 481 • Internship in History.** 1-4 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

**HIS 499 • Senior Seminar.** 4 Credits.

Historiography, historical methodology, and the philosophy of history. Emphasis on synthesis, integration, and writing of a research paper.

*Prerequisites: Senior standing and HIS 290 (or consent of instructor). Offered: Spring*

**DIG 200 • Introduction to Digital Humanities.** 3 Credits.

Introduction to the theory and practice of the digital humanities, or using computing skills to further study within the humanities disciplines. Integrates foundational humanities skills like reading, research, critical thinking, and writing with the toolset of 21st century digital life: E.G., coding, data visualization, mapping, text-mining, digital preservation and curation.

*Offered: Spring.*

**DIG 310 • Advanced Digital Humanities.** 3 Credits.

Interdisciplinary seminar deepening conversation about the digital humanities. Students collaborate with others and contribute expertise from their primary major to create sophisticated digital projects. Explores the history and theory of innovation, the personal and social impact of digitization, and the changing nature of work and leisure in a digital age.

*Prerequisites: DIG 200; DES 105; COS 100; Junior standing. Offered: Fall.*

**DIG 481 • Internship in Digital Humanities.** 3-4 Credits.

Practical experience enabling students to hone a range of digital skills to complement their abilities in critical thinking, research, and communication. Includes collaboration with peers, staff, professors and/or off-campus partners.

*Prerequisites: DIG 200; Junior or Senior standing; Digital Humanities major Offered: Fall, Interim, Spring.*

## B.A. in History

Code	Title	Credits
<b>Major in History (B.A.)</b>		
HIS 290	Introduction to History	3
HIS 499	Senior Seminar	4
Choose two from American History courses (with at least one at the 300 level):		7-8
HIS 200L	American Civilization	
HIS 209L	Christianity in America	
HIS 210U	Minorities in America	
HIS 216L	American Constitutional History	
HIS 223L	History of the American West	
HIS 245L	History of Women in America	
HIS 300	American Beginnings	
HIS 301	A New Nation	
HIS 302	History of Sexuality in the United States	
HIS 307	The American Civil War	
HIS 350	Modern America	
HIS 370	Topics in American History	
Choose two from Global History courses (with at least one at the 300 level):		7-8
HIS 205U	History of China, Japan, and Korea	
HIS 206U	History of India and Its Neighbors	
HIS 207U	Latin American Civilizations	
HIS 212U	History of Islam	
HIS 217UZ	Hispanic Christianity	
HIS 241L	Revolution and Political Development	

## Minor in History 227

HIS 324G	Human Rights in International History		
HIS 328G	Muslim Women in History		
HIS 329	African Politics		
HIS 356	Modern Middle East		
HIS 372	Topics in Global History		
Choose two from European History courses (with at least one at the 300 level)		7-8	
HIS 230L	World War I		
HIS 310	Near Eastern and Greek Civilizations		
HIS 311	Roman Civilization		
HIS 312	Medieval Europe		
HIS 335G	The Reformations		
HIS 354	Modern Europe		
HIS 371	Topics in European History		
Electives from history courses		7-11	
<b>Code</b>	<b>Title</b>	<b>Credits</b>	
Major *			35-42
General Education			49-50
Electives			30-38
<b>Total Credits</b>			<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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, HIS 400, or HIS 481. 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

Code	Title	Credits
<b>Minor in History</b>		
HIS 290	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>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Pietas Honors Program

The Pietas 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. The program is designed to provide an enriched educational experience for students with exceptional academic ability, to create a community 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.

Students in the program take a total of four Honors-specific courses, which fulfill general education requirements. As members of the Pietas Honors Program, students will receive all of the textbooks for these four Honors courses for free. Students also choose one additional course (one at the 200-level or above) to add an Honors tag (H-tag). In H-tag courses, students contract with the course professor to further explore course material of projects. After the first year of the program, students engage in a significant leadership or service position at Bethel University. This could include a role as a resident assistant, campus discipleship leader, leader of a Twin Cities Outreach group, officer of a recognized campus club or organization within the Bethel Student Government umbrella, tutor for the Academic Enrichment Support Center, or many others. In addition to these requirements, there are Honors Colloquia, which students are required to attend throughout their time in the program.

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

## Pietas Honors Program

Code	Title	Credits
HON 160	Pietas Seminar I <sup>1</sup>	3
HON 300G	Pietas Seminar II <sup>1</sup>	3
HON 305K	Pietas Seminar III <sup>1</sup>	3
HON 464P	Pietas Seminar IV <sup>1</sup>	3
Choose one tagged honors course at the 200-level or above		
Leadership or Service Requirement		
Total Credits		12

<sup>1</sup> This course meets a General Education requirement.

### HON 160 • Pietas Seminar I. 3 Credits.

An introduction to the meaning and value of a liberal arts education in the Christian tradition and to key facets of the Pietas Program. While exploring a specific topic of interest, the seminar promotes the establishment of community among students, faculty, and varying aspects of student life. Students are also provided with instruction and practice in writing, as well as preparing and delivering oral presentation, in a manner that addresses the strengths and needs of Pietas Program students.

*Prerequisites:* Admission to the Pietas program. *Special Notes:* This course fulfills the Inquiry Seminar (GES 160) general education requirement. Offered: Fall, Spring.

### HON 205U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently); admission to the Honors Program. Offered: Spring.*

**HON 300G • Pietas Seminar II.** 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: Pietas Seminar I; admission to the Honors Program; [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Interim or Spring.*

**HON 305K • Pietas Seminar III.** 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, Spring.*

**HON 464P • Pietas Seminar IV.** 3 Credits.

As a capstone experience, seniors in the Honors Program will work collaboratively to research, discuss, evaluate, and address an interdisciplinary issue of contemporary civic importance. Through this work, students will have the opportunity to synthesize work completed in other Honors courses and projects as well as give mature reflection on the role of faith in the life of Christian scholarship.

## 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.

The Athletic Training Program at Bethel University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program is currently applying to the CAATE for a change in level of degree. The last cohort of undergraduate students eligible to apply to the undergraduate athletic training program will be those meeting the application requirements Fall 2018. The last undergraduate cohort is expected to graduate in May 2021.

First-year students beginning at Bethel University Fall 2018 and later, should refer to the information regarding the Dual Degree: B.A. in Biokinetics-Exercise Science/M.S. in Athletic Training.

The Dual Degree B.A. degree in Biokinetics-Exercise Science/M.S. in Athletic Training (3 + 2) program merges requirements from the Biokinetics-Exercise Science major and graduate athletic training program for the completion of two degrees in five years. 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. Students who want to become athletic trainers must earn a degree from an accredited athletic training curriculum and pass a comprehensive National Exam administered by the Board of Certification. Students apply to athletic training program during the spring semester of their second year. Accepted students who have completed undergraduate requirements will be allowed to begin taking graduate athletic training courses in their fourth year. By the end of their fifth year of study, students who complete all academic requirements will have earned a B.A. in Biokinetics-Exercise Science and an M.S. in Athletic Training, and will be eligible to sit for the Board of Certification (BOC) exam, ([www.bocatc.org](http://www.bocatc.org)).

The Community Health major prepares students for careers in public health or other activities that seek to promote good health and healthy lifestyles throughout our nation's diverse communities. Students in the community health major are given multiple experiential opportunities to improve their skills in the areas of health, health informatics, communication, teaching and learning, and intercultural leadership.

The Health Education 5-12 major 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.

The Physical Education K-12 degree 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 is available.

The B.S. in Biokinetics major prepares health scientists who can address a wide-range of health needs related to lifestyle, aging, and disease (Pre-Medicine, Pre-Physical, or Occupational Therapy and Pre-Chiropractic). The program emphasizes a hands-on research based approach to health science.

## Majors in Human Kinetics and Applied Health Science

- B.A. in Athletic Training (p. 240)
- B.A. in Biokinetics - Exercise Science/M.S. in Athletic Training (3 + 2) (p. 242)
- B.A. in Community Health (p. 246)
- B.A. in Health Education 5-12 (p. 247)
- B.A. in Physical Education K-12 (p. 248)
- B.S. in Biokinetics (p. 249)

## Minors in Human Kinetics and Applied Health Science

- Community Health (p. 251)
- Health Education (p. 251)
- Physical Education (p. 252)

### **HAS 110 • Introduction to Healthcare.** 3 Credits.

An introduction to various health professions and the healthcare system in the United States. Emphasis on understanding the healthcare system, current issues in healthcare, and healthcare career paths. Development of healthcare literacy and navigating healthcare culture. Students examine education, training, and licensure and/or certification requirements for potential careers.

*Offered: Fall, Spring.*

### **HAS 120 • First Aid.** 1 Credit.

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.*

### **HAS 130 • 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.*

### **HAS 170 • Applied Nutrition.** 3 Credits.

Effects of nutrition on health, human performance and reduction of chronic disease throughout the lifespan. Topics covered also include disordered eating, weight management, supplements, and societal and cultural issues related to nutrition.

*Offered: Fall, Interim, Spring.*

### **HAS 200Q • Professional Activities: Individual/Dual.** 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, even # years.*

### **HAS 201 • 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, odd # years.*



**HAS 205QA • 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.*

**HAS 210Q • Professional Activities: Team.** 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 in competency in lifetime activities are encouraged (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: Spring.*

**HAS 215Q • Professional Activities: Conditioning.** 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. 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. PR: Sophomore class standing or consent of instructor.

*Offered: Fall.*

**HAS 220A • 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.*

**HAS 247 • 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.

*Prerequisites: BIO 214/BIO 215. Offered: Fall, Spring.*

**HAS 250M • Statistics and Research Methods in Applied Health Sciences.** 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 healthcare and Institutional Review Board (IRB) human-based research projects.

*Offered: Fall, Spring. Special Notes: Students may not receive credit for both HAS 250M and PSY 230M.*

**HAS 261 • 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.*

**HAS 262 • Coaching of Baseball.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of baseball.

*Offered: Spring odd # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 263 • Coaching of Basketball.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of basketball.

*Offered: Fall odd # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 264 • Coaching of Football.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of football. Basic terminology and position nomenclature for the introduction to coaching football.

*Offered: Spring even # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 265 • Coaching of Hockey.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of hockey.

*Offered: Spring even # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 266 • Coaching of Track and Field.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of track and field.

*Offered: Fall even # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 267 • Coaching of Volleyball.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of volleyball.

*Offered: Fall even # years. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 268 • Coaching of Fastpitch Softball.** 1 Credit.

Advanced skills, strategy, techniques, and coaching philosophy of softball.

*Offered: Occasionally. Special Notes: Recommended for students seeking the Coaching minor.*

**HAS 269 • Coaching of Soccer.** 1 Credit.

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.*

**HAS 279 • 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 in preparation for the clinical education program. Topics include; NATA history, professional organizations, injury management, therapeutic modalities, and basic pharmacology.

*Prerequisites: Sophomore class standing or consent of instructor. Offered: Fall.*

**HAS 303KZ • 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.*

**HAS 306 • 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.*

**HAS 314 • 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: HAS 130. Offered: Spring.*

**HAS 316 • 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 to reflect sequencing of content that differentiates across a range of students' developmental levels.

*Prerequisites: Sophomore standing. Offered: Spring odd # years.*

**HAS 318 • 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:* HAS 130; BIO 104/104D or BIO 122/122D; BIO 238/239 or both BIO 214/215 and BIO 216/217.  
*Offered:* Fall even # years.

**HAS 320 • 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.

**HAS 321 • Developmental and Adapted Field Experience.** 1 Credit.

Application of ideas from HAS 320 in a 32-hour field experience with hours dispersed between school and community settings.

*Prerequisites:* Sophomore standing. *Corequisites:* Should be taken concurrently with HAS 320, but may be taken in a different term if necessary. *Special Notes:* Times and locations are established by the HAS 320 instructor. *Offered:* Spring odd # years.

**HAS 322 • 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:* EDU 250 or HAS 320. *Offered:* Fall, odd # years.

**HAS 323 • 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:* EDU 250 or HAS 320. *Offered:* Fall.

**HAS 325 • Prevention and Care of Athletic Injuries.** 3 Credits.

Techniques for prevention and care of athletic injuries. Practical experience in the athletic training room.

*Prerequisites:* HAS 120; BIO 214/215 or BIO 238/239. *Offered:* Spring.

**HAS 331 • 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:* HAS 325. *Offered:* Fall.

**HAS 332 • Advanced Athletic Training - Lower Extremity.** 3 Credits.

Advanced techniques for the evaluation and treatment of athletic injuries to the lower extremity.

*Prerequisites:* HAS 325; BIO 214/215; BIO 216/217. *Special Notes:* This course is no longer offered at the undergraduate level. *Offered:* Fall.

**HAS 333 • Advanced Athletic Training - Upper Extremity.** 3 Credits.

Advanced techniques for the evaluation and treatment of athletic injuries to the upper extremity.

*Prerequisites:* HAS 325; BIO 214/215; BIO 216/217. *Special Notes:* This course is no longer offered at the undergraduate level. *Offered:* Spring.

**HAS 335 • Clinical Experience in Athletic Training I.** 1 Credit.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training competencies.

*Prerequisites:* Admission to athletic training program; HAS 325. *Offered:* Fall.

**HAS 336 • Clinical Experience in Athletic Training II.** 1 Credit.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training skills.

*Prerequisites:* HAS 335. *Offered:* Interim.

**HAS 337 • Clinical Experience in Athletic Training III.** 1 Credit.

Clinical experiences that provide opportunities to practice, refine, and master previously learned psychomotor and cognitive athletic training competencies.

*Prerequisites:* HAS 336. *Offered:* Spring.

**HAS 340 • 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.

**HAS 345 • 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:* HAS 120; HAS 130. *Offered:* Fall odd # years.

**HAS 351 • 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:* HAS 325 or BIO 214/215. *Special Notes:* This course is no longer offered at the undergraduate level. *Offered:* Fall.

**HAS 352 • 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:* HAS 325 or HAS 375. *Special Notes:* This course is no longer offered at the undergraduate level. *Offered:* Spring.

**HAS 360 • 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:* HAS 325 or HAS 120. *Offered:* Spring.

**HAS 370 • Functional Human Nutrition.** 3 Credits.

Prepares students in functional nutrition, emphasizing human biochemistry and cellular energetics. Explores the relationship of nutrients to health pathologies, including metabolic syndrome, obesity, diabetes, cardiovascular disease and cancer. Practical experience with nutritional interventions for health optimization and disease management. Emphasis in biochemical individuality for positive, nutritional modulation in oxidative phosphorylation.

*Prerequisites:* BIO 122 (or equivalency) or CHE 113 CHE 113D; HAS 170. *Offered:* Fall, Spring.

**HAS 375 • 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:* BIO 214/215 or BIO 238/239; Mathematics (M) course. PHY 102/102D and HAS 247 recommended. *Offered:* Fall, Spring.

**HAS 376 • 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:* BIO 238/239. *Offered:* Fall.

**HAS 379 • 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: BIO 214/215; BIO 216/217. Offered: Fall, Spring.*

**HAS 386 • Pathology and Medical Conditioning.** 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: BIO 214/215 and BIO 216/217 or equivalent. Offered: Fall.*

**HAS 393 • Literature Review in Biokinetics.** 1 Credit.

Students develop and work on their research project and IRB. Students will use literature to formulate an independent project. Completion of IRB is expected. Seminar includes discussions of careers, graduate and medical school application and entrance exams.

*Corequisites: Concurrent registration in HAS 399. Offered: Spring.*

**HAS 398 • Physiological Assessment Laboratory.** 1 Credit.

Laboratory experience accompanying HAS 399.

*Prerequisites: HAS 379, (may be concurrently). Corequisites: Concurrent registration in HAS 393 and HAS 399 is required. Offered: Spring.*

**HAS 399 • Physiological Assessment.** 3 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: HAS 379 (may be taken concurrently). Corequisites: Concurrent registration in HAS 393 and HAS 398 is required. Offered: Spring.*

**HAS 420 • 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.*

**HAS 436 • Clinical Experience in Athletic Training IV.** 1 Credit.

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: HAS 337; Senior standing. Offered: Fall, Interim, Spring.*

**HAS 439 • 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: HAS 337. Offered: Fall, Interim, Spring.*

**HAS 440 • Advanced Training for Human Performance.** 3 Credits.

Prepares students to systematically design training and conditioning programs to enhance the function and capacity of the musculoskeletal and cardiovascular systems. This course utilizes periodization and mathematical models with expected physiological and neuromuscular adaptations to maximize human performance in sport, pre-habilitation, public health and special populations.

*Prerequisites: BIO 216/217; BIO 238/239; or permission of instructor. Offered: Fall.*

**HAS 445 • 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: HAS 399. Offered: Fall.*

**HAS 450 • 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:* HAS 399. *Offered:* Fall, Spring.

**HAS 453 • 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:* PSY 100. *Offered:* Fall.

**HAS 478 • 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.

**HAS 481 • Internship in Human Kinetics and Applied Health Science.** 3-4 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:* HAS 399 or consent of instructor. *Special Notes:* Application must be made at least one semester prior to the intended experience. *Offered:* Fall, Spring.

**HAS 494 • Biokinetics Research.** 1 Credit.

Students develop and work on their senior research project. Students will complete data collection. Students will continue the discussion on "life after Bethel." In addition, social networking and public speaking and presentations will be explored.

*Prerequisites:* HAS 393. *Offered:* Fall.

**HAS 495 • Biokinetics Symposium.** 1 Credit.

Students prepare and deliver formal presentation and manuscripts of their research results. Weekly discussions are organized on current research topics. This course will continue the discussion of "life after Bethel."

*Prerequisites:* HAS 494. *Offered:* Spring.

**PEA 100 • Physical Wellness for Life.** 1 Credit.

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. *Special Notes:* This course will no longer be offered beyond the 2018-2019 academic year.

**PEA 110Q • Disc Golf.** 1 Credit.

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.

**PEA 112Q • Walk Jog Run.** 1 Credit.

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.

**PEA 113Q • Fly Fishing.** 1 Credit.

Basic skills and equipment of fly-fishing. Includes history, equipment, fly-tying, fly-casting, knot tying, and basic streamside/lakeside entomology.

*Offered:* Spring.

**PEA 114QA • Jazz Dance.** 2 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.*

**PEA 115QA • Ballet.** 2 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.*

**PEA 116Q • Group Fitness.** 1 Credit.

Development of cardiovascular fitness through aerobic rhythms and exercise. Workout includes varied aerobic conditioning, minimal strength training, and stretching.

*Offered: Fall, Spring.*

**PEA 117Q • Cycling.** 1 Credit.

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.*

**PEA 118Q • Beginning Weight Training.** 1 Credit.

Physical fitness through weight training. Basic principles of diet, weight training, and completion of an adequate program.

*Offered: Fall, Spring.*

**PEA 119Q • Self Defense.** 1 Credit.

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.*

**PEA 122Q • Badminton.** 1 Credit.

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.*

**PEA 124Q • Fundamentals of Basketball.** 1 Credit.

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.*

**PEA 130Q • Beginning Snowboarding.** 1 Credit.

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.*

**PEA 131Q • Intermediate Snowboarding.** 1 Credit.

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.*

**PEA 132Q • Golf.** 1 Credit.

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.*

**PEA 133Q • Intermediate Golf.** 1 Credit.

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: PEA 132Q or consent of instructor. Offered: Fall*

**PEA 136Q • Racquetball.** 1 Credit.

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.*

**PEA 138Q • Beginning Downhill Skiing.** 1 Credit.

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.*

**PEA 139Q • Intermediate Downhill Skiing.** 1 Credit.

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.*

**PEA 140Q • Cross Country Skiing I.** 1 Credit.

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.*

**PEA 141Q • Cross Country Skiing II.** 1 Credit.

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: PEA 140Q or consent of instructor. Offered: Occasionally Interim.*

**PEA 142Q • Slow Pitch Softball.** 1 Credit.

Fundamental skills of slow-pitch softball for the recreational player.

*Offered: Fall, Spring.*

**PEA 144Q • Beginning Tennis.** 1 Credit.

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.*

**PEA 145Q • Intermediate Tennis.** 1 Credit.

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.*

**PEA 146Q • Volleyball.** 1 Credit.

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.*

**PEA 147Q • Intermediate Volleyball.** 1 Credit.

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: PEA 146Q or participation in high school varsity volleyball. Offered: Spring even # years.*



**PEA 150Q • 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.*

**PEA 151Q • Soccer.** 1 Credit.

Introduction to the history, rules, and fundamental skills of soccer.

*Offered: Fall, Spring.*

**PEA 152Q • Yoga.** 1 Credit.

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.*

## B.A. in Athletic Training

The undergraduate Athletic Training Program at Bethel University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program is currently applying to the CAATE for a change in level of degree. The last cohort of undergraduate students eligible to apply to the undergraduate athletic training program will be those meeting the application requirements Fall 2018. The last undergraduate cohort is expected to graduate in May 2021.

First-year students beginning at Bethel University Fall 2018 and later, should refer to the information regarding the B.A. in Biokinetics-Exercise Science as a dual degree with the M.S. in Athletic Training.

## Requirements for Admission to the B.A. in Athletic Training Program

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 HAS 120; HAS 279; BIO 104/BIO 104D, BIO 120/BIO 121, or BIO 122/BIO 122D; BIO 214/BIO 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.

- 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/admission-requirements](http://bethel.edu/undergrad/academics/athletic-training/admission-requirements).

Progression:

Students admitted to the ATP must meet Bethel University requirements for academic progress. In addition, a student must:

- Maintain a cumulative GPA of 2.5 and a 2.75 GPA in major courses.
- Maintain current certification in American Red Cross CPR/AED for the Professional Rescuer.
- Become and remain a student member in the National Athletic Trainers Association.
- Earn a grade no lower than C in any major course.
- 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.
- Operate within the NATA Code of Ethics and the guidelines of the ATP Student Manual.

## B.A. in Athletic Training

Code	Title	Credits
<b>Major in Athletic Training (B.A.)</b>		
HAS 120	First Aid	1
HAS 170	Applied Nutrition	3
HAS 250M	Statistics and Research Methods in Applied Health Sciences	3
HAS 279	Introduction to Athletic Training <sup>2</sup>	2
HAS 325	Prevention and Care of Athletic Injuries <sup>2</sup>	3
HAS 331	Organization and Administration of Athletic Training <sup>2</sup>	3
HAS 332	Advanced Athletic Training - Lower Extremity <sup>2</sup>	3
HAS 333	Advanced Athletic Training - Upper Extremity <sup>2</sup>	3
HAS 335	Clinical Experience in Athletic Training I <sup>2</sup>	1
HAS 336	Clinical Experience in Athletic Training II <sup>2</sup>	1
HAS 337	Clinical Experience in Athletic Training III <sup>2</sup>	1
HAS 351	Therapeutic Interventions I <sup>2</sup>	3
HAS 352	Therapeutic Interventions II <sup>2</sup>	3
HAS 360	Advanced Emergency Care <sup>2</sup>	3
HAS 375	Biomechanics	3
HAS 379	Integrative Human Physiology	3
HAS 386	Pathology and Medical Conditioning <sup>2</sup>	3
HAS 436	Clinical Experience in Athletic Training IV <sup>2</sup>	1
HAS 439	Clinical Experience in Athletic Training V <sup>2</sup>	3
HAS 453	Therapeutic Interventions III <sup>2</sup>	3
HAS 478	Senior Seminar in Athletic Training <sup>2</sup>	3

Select one of the following sequences:

4

BIO 104 & BIO 104D	Human Biology and Human Biology Lab <sup>1</sup>	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	4
PEA 118Q	Beginning Weight Training	1
PSY 100	Introduction to Psychology	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		68
General Education		49-50
Electives		4-5
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Students interested in pre-professional programs (PT, PA, OT, etc.) should take BIO 120/BIO 121 or BIO 122/BIO 122D instead of BIO 104/BIO 104D. Students should consult their health professions advisor at Bethel for assistance regarding additional courses required for graduate school.

<sup>2</sup> This course must be completed in residence at Bethel University.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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.**

## B.A. in Biokinetics-Exercise Science as a Dual Degree with M.S. in Athletic Training

### Requirements for Admission to the Athletic Training Program

A selection process is necessary to identify the most appropriate candidates to enter into the graduate program. 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.

Matriculation into the M.S. in Athletic Training degree requires a secondary admission process. Once admitted to Bethel University as an undergraduate, students will declare a major in Biokinetics - Exercise Science (B.A.). Students will formally apply to the Athletic Training program early in the spring of their second pre-professional year (i.e., sophomore year). Students who meet the requirements to continue their course of study will progress into the graduate phase of their education. Students will submit their formal application through the Graduate School by March 15. Applications will be reviewed and admission decisions will be made by May 1st. Applicants to the Graduate School must meet the following requirements:

- Have earned an undergraduate GPA of 3.0 or higher on a 4.0 scale.
- Complete HAS120; BIO104/BIO104D, BIO120/BIO121, or BIO122/BIO122D; BIO214/BIO215; CHE113/CHE133D; and HAS325.
- Submit one professional and one supervisor Admission Reference.
- Submit a written Statement of Purpose.
- Complete required Observation Requirements.
- Interview with program faculty.

**Admission to the M.S in Athletic Training will be based on the following criteria:**

1. Overall undergraduate GPA 3.0 or greater
2. Academic grades in the following courses:
  - a. Biology with Lab
  - b. Chemistry with Lab
  - c. Human Anatomy with Lab
  - d. Prevention and Care of Athletic Injuries
3. Program Faculty Interview
4. References

**Post-Admissions Process:**

Accepted students will receive an official acceptance letter no later than May 1st. Students will receive a checklist to help them complete requirements. All items are due August 1st (prior to the graduate phase of the curriculum):

- Required current certification in either American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for Health Care Providers. Copy (with instructor's signature or QR code) of current, valid certification card(s) serves as proof of certification.
- Documentation of the following up-to-date immunizations:
  - Completed Hepatitis B series
  - Measles/Mumps/Rubella (MMR): (2 dates) Must be given after your first birthday
  - Tetanus shot within the last 10 years
- Submit a physical examination signed by a licensed medical physician (or designee). Physical Exam must be on Graduate Athletic Training Program Physical Form.
- Signed copy of the M.S. in Athletic Training Technical Standards (with or without reasonable accommodations) form. Compliance with the program's technical standards alone does not guarantee a student's eligibility for the BOC certification exam.
- Signed copy of the M.S. in Athletic Training Non-Disclosure Statement.
- Signed copy of the M.S. in Athletic Training Communicable Disease Policy.

**Progression/Retention:**

Students admitted to the ATP must meet Bethel University requirements for academic progress. In addition, a student must fulfill the following undergraduate and graduate program requirements:

**Undergraduate Requirements:**

1. Overall cumulative GPA of 3.0 at completion of their undergraduate courses.
2. Earn a grade no lower than C in any major course.

**Graduate Requirements:**

1. Maintain a cumulative GPA of 3.0.
2. Maintain current certification in American Red Cross CPR/AED for the Professional Rescuer (or equivalent).
3. Become and remain a student member in the National Athletic Trainers Association.

4. 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 membership fees, 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.

5. Operate within the NATA Code of Ethics and the guidelines of the ATP Student Manual.

## **B.A. in Biokinetics as a Dual Degree with M.S. in Athletic Training**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Major in Biokinetics (B.A.) Only as a Dual Degree with M.S. in Athletic Training</b>		
Human Kinetics and Applied Health Science Core:		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 170	Applied Nutrition	3
HAS 247	Motor Development and Learning	3
HAS 250M	Statistics and Research Methods in Applied Health Sciences	3
HAS 325	Prevention and Care of Athletic Injuries	3
HAS 370	Functional Human Nutrition	3
HAS 375	Biomechanics	3
HAS 379	Integrative Human Physiology	3
HAS 393	Literature Review in Biokinetics	1
HAS 398	Physiological Assessment Laboratory	1
HAS 399	Physiological Assessment	3
HAS 440	Advanced Training for Human Performance	3
Choose from one of the following courses:		
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	4

BIO 118 & BIO 118D	General Biology and General Biology Lab	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	4
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
Choose from one of the following courses:		4
PHY 102 & PHY 102D	Physics of Everyday Life and Physics of Everyday Life-Lab	
PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab	
PSY 100	Introduction to Psychology	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major		56
General Education		49-50
Courses from Bethel's M.S. in Athletic Training <sup>1</sup>		50
<b>Total Credits</b>		<b>155-156</b>

<sup>1</sup> Students will receive a B.A degree, in Biokinetics as a dual degree that will be granted only upon completion of the M.S. in Athletic Training. Specific courses and descriptions can be found in the Bethel University Graduate Catalog.

The Bethel University Athletic Training Program (ATP) is accredited by the Commission on Accreditation of Athletic Training Education Programs (CAATE), [www.caate.org](http://www.caate.org) and is designed to prepare students for the Board of Certification (BOC) exam and for careers as certified athletic trainers.

This option represents a collaborative partnership between the College of Arts and Sciences (CAS) and the Graduate School (GS) at Bethel University. Students wishing to complete the 3 + 2 program will adhere to the following plan:

- a. Enroll in the B.A. in Biokinetics-Exercise Science.
- b. In the first three years of their undergraduate program, complete undergraduate courses, including all general education courses prior to enrolling in graduate courses.
- c. Apply and be accepted into the M.S. in Athletic Training program.
- d. Begin the M.S. in Athletic Training in their fourth year.
- e. Upon successful completion of all requirements for both degrees, the student will earn both a B.A. in Biokinetics-Exercise Science and a M.S. in Athletic Training. Neither degree will be awarded without completion of all requirements for both degrees. The B.A. in Biokinetics-Exercise Science will be awarded by the College of Arts & Science. The M.S. in Athletic Training will be awarded by the Graduate School.
- f. Students planning to complete the five-year course of study in athletic training will apply for early-admissions to the Graduate Athletic Training Program (ATP) in the spring semester of their second year. Students who are not accepted or have not yet met the admission requirements may apply in their

third year. **Student may not graduate with the athletic training master's degree without completing all clinical requirements for the ATP.**

## B.A. in Community Health

Code	Title	Credits
<b>B.A. in Community Health <sup>1</sup></b>		
<b>Applied Health Science Core</b>		
HAS 110	Introduction to Healthcare	3
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 170	Applied Nutrition	3
HAS 250M	Statistics and Research Methods in Applied Health Sciences	3
HAS 314	Foundations, Administration, and Evaluation of Health Education	3
HAS 318	Epidemiology	2
HAS 345	Disease and Injury Control	2
HAS 481	Internship in Human Kinetics and Applied Health Science	4
<b>Professional Core</b>		
PHI 110	Contemporary Moral Issues	3
COM 209	Introduction to Health Communication	3
COM 319	Health Campaigns and Technology	3
EDU 331	Teaching and Learning	3
EDU 332	Teaching and Learning Field Experience	1
RES 340Z	Principles and Methods of Intercultural Leadership	4
<b>Natural and Behavioral Sciences Core</b>		
Choose one of the following Biology courses		4
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 118 & BIO 118D	General Biology and General Biology Lab	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
PSY 100	Introduction to Psychology	3
PSY 203	Lifespan Development	3
PSY 310	Addiction and Recovery	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		58
General Education		49-50
Electives		14-15
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> 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.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Health Education 5-12

Code	Title	Credits
<b>Major in Health Education (B.A.)</b>		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 314	Foundations, Administration, and Evaluation of Health Education	3
HAS 318	Epidemiology	2
HAS 340	School Health and Drug Issues	3
HAS 345	Disease and Injury Control	2
GES 208	Human Sexuality	3
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	4
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 422	Curriculum and Methods of 5-12 Health Education	3
EDU 423	Middle Level Education Practicum in Health	1
EDU 490	Student Teaching Block <sup>1</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		59
General Education		49-50
Electives		13-14
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> In order to meet requirements for endorsements and dual-majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill 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

Code	Title	Credits
<b>Major in Physical Education K-12 (B.A.)</b>		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 200Q	Professional Activities: Individual/Dual <sup>1</sup>	4
HAS 201	Foundations of Physical Education	2
HAS 210Q	Professional Activities: Team	3
HAS 215Q	Professional Activities: Conditioning	2
HAS 220A	Educational Rhythms	3
HAS 247	Motor Development and Learning	3
HAS 306	Administration of Athletics and Physical Education	2
HAS 316	Curriculum Development in Physical Education	3
HAS 320	Developmental and Adapted Physical Education	3
HAS 321	Developmental and Adapted Field Experience	1
HAS 340	School Health and Drug Issues	3
HAS 375	Biomechanics	3
HAS 376	Exercise Physiology and Assessment	3
Choose one of the following sequences:		4
BIO 100 & BIO 100D	Principles of Biology and Principles of Biology Lab	
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 424	Methods in Teaching K-12 Physical Education	3
EDU 425	Middle Level Practicum in Physical Education	1
EDU 490	Student Teaching Block <sup>2</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		81
General Education		49-50
Total Credits		130-131

<sup>1</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.

<sup>2</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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 complete a Developmental and Adapted Physical Education Endorsement or a Middle Level Endorsement. 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)

Code	Title	Credits
EDU 250	Educating the Exceptional Child	3
HAS 322	Methods and Materials for Adapted Physical Activity	2
HAS 323	Developmental and Adapted Physical Education Practicum	2
PSY 330	Disabilities and Giftedness	4
Total Credits		11

## B.S. in Biokinetics

Code	Title	Credits
<b>Major in Biokinetics (B.S.)</b>		
HAS 120	First Aid	1
HAS 170	Applied Nutrition	3
HAS 247	Motor Development and Learning	3
HAS 250M	Statistics and Research Methods in Applied Health Sciences	3
HAS 370	Functional Human Nutrition	3
HAS 375	Biomechanics	3
HAS 379	Integrative Human Physiology	3
HAS 393	Literature Review in Biokinetics	1
HAS 398	Physiological Assessment Laboratory	1
HAS 399	Physiological Assessment	3
HAS 445	Advanced Laboratory Techniques in Biokinetics	3
HAS 450	Physiology and Interventions in Disabilities and Chronic Disease	3
HAS 481	Internship in Human Kinetics and Applied Health Science	3
HAS 494	Biokinetics Research	1
HAS 495	Biokinetics Symposium	1

BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	4
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
PSY 100	Introduction to Psychology	3

Code	Title	Credits
Major *		50
General Education		49-50
Emphasis		10-12
Electives (4 credits must be at 300 level or above)		10-13
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill 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.

## Exercise Science Emphasis (10 credits)

Code	Title	Credits
Select one of the following sequences:		4
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 120 & BIO 121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
HAS 130	Personal and Community Health	3
HAS 440	Advanced Training for Human Performance	3
<b>Total Credits</b>		<b>10</b>

## Human Bioenergetics Emphasis (12 credits)

Code	Title	Credits
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	4
Select one of the following sequences: <sup>2</sup>		4
BIO 120 & BIO 121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab <sup>1</sup>	
Select one of the following sequences:		4
PHY 102 & PHY 102D	Physics of Everyday Life and Physics of Everyday Life-Lab <sup>1</sup>	

PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab <sup>1</sup>
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Total Credits	12
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- <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 BIO 122/BIO 122D and PHY 202/PHY 202D. 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 Community Health

Code	Title	Credits
<b>Minor in Community Health</b>		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 314	Foundations, Administration, and Evaluation of Health Education	3
Choose either the first sequence or both the second and third:		4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	
Choose either HAS 340 or two of the other courses:		3-4
HAS 318	Epidemiology	
HAS 340	School Health and Drug Issues	
HAS 345	Disease and Injury Control	
EDU 203	School Health and Drugs	
Choose one of the following sequences:		4
BIO 100 & BIO 100D	Principles of Biology and Principles of Biology Lab	
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 122 & BIO 122D	Introduction to Organismic Biology and Introduction to Organismic Biology Lab	
<b>Total Credits *</b>		18-19

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Health Education

Code	Title	Credits
<b>Minor in Health Education</b>		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3

HAS 314	Foundations, Administration, and Evaluation of Health Education	3
HAS 340	School Health and Drug Issues	3
EDU 422	Curriculum and Methods of 5-12 Health Education	3
Choose one of the following sequences:		4
BIO 100 & BIO 100D	Principles of Biology and Principles of Biology Lab	
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
<b>Total Credits *</b>		<b>21</b>

\* Courses whose number is followed by a letter fulfill 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

Code	Title	Credits
<b>Minor in Physical Education</b>		
HAS 120	First Aid	1
HAS 130	Personal and Community Health	3
HAS 200Q	Professional Activities: Individual/Dual	4
HAS 201	Foundations of Physical Education	2
HAS 210Q	Professional Activities: Team	3
HAS 215Q	Professional Activities: Conditioning	2
Electives from 300 level or above physical education courses		5
<b>Total Credits *</b>		<b>20</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

Completion of this minor will not result in a Minnesota physical education teaching license.

# Minor in Leadership Studies

Code	Title	Credits
<b>Minor in Leadership Studies</b>		
LEA 100	Emerging Leaders <sup>1,2</sup>	3
LEA 200	Leading Teams	3
LEA 300	Leading Organizations <sup>1,3</sup>	3
LEA 475	Leadership Studies Seminar	3
Choose one of the following Ethical Leadership courses:		3
GES 405P	Ethical Relationships: Choosing the Good in Family and Community Life	
GES 409P	Christian Leadership in a Secular World	
GES 444P	Christians and Conflict	
GES 453P	Ethics and Faith in the Workplace	
Choose one of the following Communications courses:		3
BUS 208	Business Communication	
COM 220	Group Communication	
COM 248	Organizational Communication	
COM 370	Interpersonal Communication	
<b>Total Credits *</b>		<b>18</b>

<sup>1</sup> These requirements are fulfilled through the Aerospace Studies Program (AFROTC) at the University of St. Thomas.

<sup>2</sup> or AFROTC Leadership Studies I

<sup>3</sup> or AFROTC Leadership Studies II

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## LEA 100 • Emerging Leaders. 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, Interim, Spring.*

## LEA 200 • 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: LEA 100. Offered: Occasionally Fall, Spring.*

## LEA 300 • Leading 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: LEA 200. Offered: Fall, Occasionally Spring.*

## LEA 351 • Leadership Seminar. 1 Credit.

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: LEA 300; Consent of instructor; Internship within a major (may be taken concurrently). Offered: Fall, Spring.*

**LEA 475 • Leadership Studies Seminar.** 3 Credits.

Provides opportunities for students to develop their individual, team, and organizational leadership capacity. Students apply and reflect on the practical aspects of leadership by applying theories and concepts from their discipline specific academic experiences in a service learning experience. Students complete a comprehensive and strengths-based leadership branding experience to capture their development as a leader.

*Prerequisites: LEA 300 (may be taken concurrently); Consent of instructor. Offered: Fall, Spring.*

# 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. Additional coursework and advising are available for students preparing for graduate school or for math-oriented careers such as data science and 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. 257)
- B.A. in Mathematics with Education 5-12 Licensure (p. 258)
- B.S. in Mathematics and Data Science (p. 259)

## Minor in Mathematics

- Mathematics (p. 260)

### **MAT 101M • 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*

### **MAT 102M • 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*

### **MAT 123M • Precalculus.** 3 Credits.

Mathematics topics required for MAT 124M 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*

### **MAT 124M • 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: MAT 123M or equivalent high school or college course(s); satisfy math department placement requirements. Offered: Fall, spring*

### **MAT 125 • 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: MAT 124M. Offered: Fall, spring*

**MAT 201M • 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; minimum ACT mathematics score of 24, minimum SAT mathematics score of 560, or satisfactory completion of Bethel's online Math for Elementary Education prep course; 15 college-level credits completed. Special Notes: MAT 201M may not be used to fulfill the requirements for a major or minor in Mathematics; Offered: Fall, Spring.*

**MAT 202 • 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 MAT 201M. MAT 202 may not be used to fulfill the requirements for a major or minor in mathematics. Offered: Fall, spring*

**MAT 207M • Statistical Analysis.** 3 Credits.

Descriptive and inferential statistics. Specific topics include discrete probability spaces, random variables, distributions, normal distribution, estimation, hypothesis testing, linear regression, correlation analysis. Selected topics could include analysis of variance, goodness-of-fit, and contingency tables. Applications to business, economics, and science.

*Offered: Fall, Interim, Spring. Special Notes: Students may not receive credit for both MAT 207M and PSY 230M.*

**MAT 209 • Financial Mathematics for Actuarial Science.** 3 Credits.

Topics and problem-solving practice for the actuarial exam in financial mathematics. Theory of interest topics include: time value of money, annuities, cash flows, amortized loans, bonds, portfolios, and immunization. Financial economics topics include: derivatives, options, forwards and futures, swaps, hedging, and investment strategies.

*Prerequisites: MAT 125. Offered: Occasionally.*

**MAT 211 • 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: MAT 125 or MAT 241. Offered: Fall, spring.*

**MAT 222 • 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: MAT 125. MAT 223 strongly recommended. Offered: Spring*

**MAT 223 • 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: MAT 125. Offered: Fall, Spring.*

**MAT 241 • 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: MAT 124M. Offered: Fall*

**MAT 310 • 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:* MAT 211. *Offered:* Spring

**MAT 330 • Probability and Statistics.** 3 Credits.

Discrete and continuous probability spaces, distribution and density functions, random variables, sampling, expectation, estimation, and hypothesis testing.

*Prerequisites:* MAT 125. *Offered:* Fall

**MAT 331 • Applied Statistics.** 3 Credits.

Linear and multilinear regression. Factor analysis, including analysis of variance and experimental design.

*Prerequisites:* MAT 330 or consent of instructor. *Offered:* Spring, even # years

**MAT 344 • 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:* MAT 211 or MAT 222. *Recommended:* COS 105 or COS 205. *Offered:* Spring. *Special Notes:* Carries cross-credit in computer science.

**MAT 351 • Modern Geometry.** 3 Credits.

A survey of informal and formal geometric topics. Investigation of concepts, structure, proof, Euclidean, non-Euclidean, and transformational geometry.

*Prerequisites:* MAT 241 or consent of instructor. *Offered:* Fall, even # years. *Special Notes:* Designed for students seeking licensure to teach math in grades 5-12.

**MAT 376 • Operations Research.** 4 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:* COS 105 or COS 205; MAT 211. *Offered:* Fall, odd # years.

**MAT 422 • Real Analysis.** 3 Credits.

Elementary set theory, properties of real numbers, functions of real variables, sequences, series, differentiation, Riemann integration, and introduction to topological concepts.

*Prerequisites:* MAT 223; MAT 310. *Offered:* Fall.

**MAT 425 • 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, combinatorics, and topology.

*Corequisites:* MAT 310 or consent of instructor. *Offered:* Spring, odd # years.

**MAT 499 • Foundations of Mathematics.** 3 Credits.

A short history of mathematics' major transition points, overview of foundations of mathematics, axiomatic structures, and philosophies of mathematics in relation to Christian faith.

*Prerequisites:* Major in mathematics; Senior standing. *Offered:* Interim.

## B.A. in Mathematics

Code	Title	Credits
<b>Major in Mathematics (B.A.)</b>		
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 222	Differential Equations	3

MAT 223	Multivariable Calculus	3
MAT 241	Discrete Mathematics	3
MAT 310	Algebraic Structures	4
MAT 330	Probability and Statistics	3
MAT 422	Real Analysis	3
MAT 425	Topics in Mathematics	3
MAT 499	Foundations of Mathematics	3
COS 100	Introduction to Programming	3
COS 105	Computer Science 1	4
Choose two of the following Applied Math course:		6-7
MAT 331	Applied Statistics	
MAT 344	Numerical Methods	
MAT 376	Operations Research	

Code	Title	Credits
Major *		49-50
General Education		49-50
Electives		22-24
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Mathematics with Education 5-12 Licensure

Code	Title	Credits
<b>Major in Mathematics with Education 5-12 Licensure (B.A.)</b>		
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 223	Multivariable Calculus	3
MAT 241	Discrete Mathematics	3
MAT 310	Algebraic Structures	4
MAT 330	Probability and Statistics	3
MAT 351	Modern Geometry	3
MAT 422	Real Analysis	3
MAT 499	Foundations of Mathematics	3
COS 100	Introduction to Programming	3
COS 105	Computer Science 1	4
Choose one of the following Applied Math courses:		3-4
MAT 331	Applied Statistics	
MAT 344	Numerical Methods	
MAT 376	Operations Research	
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3

EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 411	Mathematics Education Practicum in grades 5-8 or 5-12	1
EDU 412	Methods in Teaching 5-12 Mathematics	3
EDU 490	Student Teaching Block <sup>1</sup>	14

Code	Title	Credits
Major *		79-80
General Education		49-50
<b>Total Credits</b>		<b>129</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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 5-12 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

## B.S. in Mathematics and Data Science

Code	Title	Credits
<b>Major in Mathematics and Data Science (B.S.)</b>		
<b>Required courses in Mathematics:</b>		
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3
MAT 241	Discrete Mathematics	3
MAT 310	Algebraic Structures	4
MAT 330	Probability and Statistics	3
MAT 331	Applied Statistics	3
MAT 344	Numerical Methods	3
MAT 376	Operations Research	4
MAT 422	Real Analysis	3
MAT 499	Foundations of Mathematics	3
<b>Required Courses in Computer Science:</b>		
Choose one from Introductory Programming:		3
COS 100	Introduction to Programming	
COS 205	Scientific Computing	
COS 105	Computer Science 1	4

COS 212	Computer Science 2	4
COS 216	Data Structures and Algorithms	3
COS 313	Database Systems	3
COS 334	Data Mining and Machine Learning	3

**Required course in Business:**

BUS 317	Business Analytics	4
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Code	Title	Credits
Major *		67
General Education		49-50
Electives <sup>1</sup>		5-6
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> With the addition of a 200-level or above Computer Science course, requirements for a minor in Computer Science would be fulfilled. With the addition of COS 214 Computer Architecture, COS 301 Operating Systems and a choice of courses (6 credits) from COS 313 Database Systems, COS 318 Web Programming, COS 386 Data Communications and Computer Networks, COS 420 Software Process, and COS 477 Software Engineering requirements for a B.A. in Computer Science would be fulfilled.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Mathematics

Code	Title	Credits
<b>Minor in Mathematics</b>		
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
Electives from 200-level or above in mathematics courses or PHY 320 / ENR 320 Mathematical Methods in Physics and Engineering (excluding MAT 201M, MAT 202, and MAT 207M)		9
<b>Total Credits</b> *		<b>20</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# Multidisciplinary

## Multidisciplinary Majors

- B.A. in Business and Political Science (p. 261)
- B.A. in Digital Humanities (p. 262)
- B.A. in International Relations (p. 264)
- B.A. in Social Studies Education 5-12 (p. 266)
- B.S. in Biochemistry/Molecular Biology (p. 267)
- B.S. in Neuroscience (p. 269)

## Multidisciplinary Minors

- Asian Studies (p. 271)
- Film Studies (p. 197)
- Gender Studies (p. 200)

# B.A. in Business and Political Science

The Business and Political Science 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.

Code	Title	Credits
<b>Major in Business and Political Science (B.A.)</b>		
BUS 106	Introduction to Business Applications	1
ECO 201	Principles of Economics	4
BUS 100M or BUS 130	Business Calculus Business Problem Solving	3
MAT 207M	Statistical Analysis	3
POS 211	The Political Quest	3
POS 306	Public Administration	3
POS 499	Senior Seminar	4
BUS 326	Principles of Business Information Systems	3
Elective from 200 level or above economics course, excluding ECO 200		3
Choose one of the following Field Survey in Political Science courses:		3
POS 100	American Politics and Government	
POS 202U	Introduction to International Relations	
POS 205	Introduction to Comparative Politics	
POS 221L	American Political Ideologies	
Choose 15 credits from the following Business courses:		15
BUS 210	Financial Accounting	
BUS 220	Principles of Marketing	
BUS 230	Principles of Management	
BUS 344	Managerial Finance	
BUS 361	Business Law	
Choose one course from three of the following four areas		9-10
American Politics and Government:		

POS 325	Political Communication
POS 330K	Science, Values, and the Making of Environmental Policy
POS 340	American Political Institutions
POS 342	American Public Policy
International Relations:	
POS 305G	The Cold War
POS 310	American Foreign Relations
POS 313G	International Cooperation
POS 315	The Politics of Terrorism and Counterterrorism
POS 317	Political Psychology
POS 324G	Human Rights in International History
Comparative Politics:	
POS 304	Political Parties
POS 321	Contemporary Democracies
POS 329	African Politics
POS 356	Modern Middle East
Political Philosophy:	
POS 345	Modern Political Thought
POS 360	Classics in Western Political Philosophy

Code	Title	Credits
Major *		54-55
General Education		49-50
Electives		17-19
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Digital Humanities

Digital Humanities describes a wide range of activities that apply digital technology to the study of the humanities in order to research, analyze, and present information to contemporary audiences. The B.A. in Digital Humanities fuses the traditional strengths of the humanities - the search for knowledge about human culture, and the cultivation of intellectual curiosity and empathy - with a greater understanding of digital age skills. Students learn collaboratively how to use digital technologies to ask and answer meaningful questions in the study of English, History, Literature, Philosophy, Theology, and other subjects, and to communicate persuasively and winsomely with their audiences. **Because of its compact size, this major must be paired with a second major.**

Code	Title	Credits
<b>Major in Digital Humanities (B.A.)</b>		
Required Courses		
DIG 200	Introduction to Digital Humanities	3
COS 100	Introduction to Programming (or)	3
or COS 205	Scientific Computing	
DES 105	Introduction to Digital Media	3
DIG 310	Advanced Digital Humanities	3
DIG 481	Internship in Digital Humanities	4

Technical and Applied Electives, at least 6 credits from:	6
COM 170A	Media Production I
COM 215	Web Design for Mass Media
COM 264	Storytelling
COM 270	Media Production II
COM 373	Digital Filmmaking
COM 374	Broadcast Production
COS 105	Computer Science 1
COS 212	Computer Science 2
COS 216	Data Structures and Algorithms
DES 212	Graphic Design I
DES 312	Graphic Design II
DES 324	Interactive Design
EDU 331	Teaching and Learning
ENW 120	Digital News Studio
GEO 201	Introduction to Geographic Information Systems
GES 334K	Perspectives on Computing and Society
Humanities Core <sup>1</sup>	12
12 credits total at the 200-level or above (at least 6 of which must be 300-level or above), from two or more of the following disciplines:	
Anthropology (ANT)	
ANT 200U	Introduction to Anthropology
Art History (ARH)	
All courses	
Bible (BIB)	
BIB 212	Reading the Hebrew Bible
BIB 331G	Cultural World of the New Testament
Communication Studies (COM)	
COM 208U	Native Americans and the Media
COM 213	Media Communication
COM 230L	Introduction to Rhetoric and Public Influence
COM 301A	Oral Interpretation
COM 361	Rhetorical Criticism
COM 375	Media Criticism and Theory
COM 463	Topics in Communication Analysis
English - Literature (ENL)	
All courses	
English - Writing (ENW)	
All courses	
Film Studies (FLM)	
All courses	
General Studies (GES)	
GES 246	Humanities IV: Modern and Contemporary Western Culture
History (HIS)	
All courses	
Missional Ministries (MIN)	



MIN 320	Spiritual and Faith Formation
Music (MUS)	
MUS 312	Music History and Literature I
MUS 313	Music History and Literature II
Philosophy (PHI)	
All courses	
Political Science (POS)	
POS 221L	American Political Ideologies
POS 317	Political Psychology
Religious Studies (REL)	
All courses	
Sociology (SOC)	
SOC 372G	Religion in Society
Spanish (SPA)	
SPA 290	Ibero-American History
SPA 301U	Hispanic Cultures
SPA 305	Readings from Latin America and Spain
SPA 312	Contemporary Literature
SPA 313	Classical Literature
SPA 322	Advanced Spanish Communication
Theatre Arts (THA)	
THA 279	Theatre and Culture: Classical to Modern
THA 291L	Theatre in the Modern Age
THA 405	Directing
THA 410	Theatrical Styles
Theology (THE)	
All courses	

Code	Title	Credits
Major *		34
General Education		49-50
Electives		38-39
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> At least two of these courses must include the completion of a digital project approved by the digital humanities coordinator in consultation with the course instructor.

\* Courses whose number is followed by a letter fulfill 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.

Code	Title	Credits
<b>Major in International Relations (B.A.)</b>		
ECO 201	Principles of Economics	4

ECO 305	International Trade and Finance	3
GEO 120	Introduction to Geography	3
POS 202U	Introduction to International Relations	3
POS 205	Introduction to Comparative Politics	3
POS 211	The Political Quest	3
POS 250	Political Science Practicum <sup>2</sup>	1
POS 499	Senior Seminar	4
Choose from one of the following Political Science/History courses:		9
HIS/POS 241L	Revolution and Political Development	
HIS/POS 305G	The Cold War	
HIS/POS 324G	Human Rights in International History	
HIS/POS 329	African Politics	
HIS/POS 356	Modern Middle East	
POS 304	Political Parties	
POS 310	American Foreign Relations	
POS 313G	International Cooperation	
POS 315	The Politics of Terrorism and Counterterrorism	
POS 321	Contemporary Democracies	
Choose one of the following from Business and Economics courses:		3
BUS 318G	Global Marketing	
BUS 371G	International Business-Europe	
ECO 320G	Economic Development of Less-Developed Countries	
<b>Choose from the following listed above (but not otherwise used) or below <sup>1</sup></b>		<b>15</b>
<b>Sociology</b>		
SOC 350	Qualitative Research Methods	
SOC 351	Quantitative Research Methods	
SOC 372G	Religion in Society	
<b>Biblical and Theological Studies</b>		
REL 202	Introduction to Religious Studies	
REL 205U	Religions of India, China and Japan	
THE 263	Christian Social Ethics	
THE 312L	Post-Reformation to Contemporary Theology in Trans-Atlantic Perspective	
THE 326G	Christian Theology in Africa, Asia, and Latin America	
<b>General Studies</b>		
GES 416P	Christian Perspectives of Global Peacemaking	
GES 427P	Christian Responses to Genocide	
GES 440P	Christian Nonviolence	
GES 441PZ	Issues and Praxis in Christian Social Justice	
<b>History</b>		
HIS 204U	African Civilizations	
HIS 205U	History of China, Japan, and Korea	
HIS 206U	History of India and Its Neighbors	
HIS 207U	Latin American Civilizations	
HIS 212U	History of Islam	
HIS 230L	World War I	

HIS 231L	World War II	
HIS/GEO 320K	History and the Human Environment	
HIS 328G	Muslim Women in History	
HIS 354	Modern Europe	
<b>World Languages and Cultures</b>		
One world language course at the intermediate level or above		
<b>Philosophy</b>		
PHI 210L	The Modern Mind	
PHI 252	History of Philosophy II	
PHI 375G	Asian Philosophy	
<b>Political Science</b>		
POS 317	Political Psychology	
POS 410	Topics in Political Science	
<b>Psychology</b>		
PSY 215	Social Psychology	
PSY 308G	Cross-Cultural Psychology	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		51
General Education		49-50
Electives		21-22
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> At least 3 credits must be outside the departments of political science, business and economics, and history as well as classes cross-listed with those departments. At least 9 credits must be at the 300 level or above.

<sup>2</sup> Students must receive departmental approval for academic study in an off-campus program that contributes to their educational goals. Departmental approval will also enroll a student in a 1 credit post-experience colloquium where they will present their off-campus work.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

The B.A. in Social Studies Education 5–12 prepares students for a career teaching history, government, and other social studies classes at the middle- or high-school level. It combines coursework in history and social sciences with pedagogical training from the Department of Education, concluding with a student teaching experience in an area school. Students often add a second major in history or one of the social sciences. Advanced study in a second language or a minor in athletic coaching are also good fits for students preparing to teach grades 5–12. If students would rather work with younger students, they can major in elementary education and add a licensure in social studies (5–8).

Code	Title	Credits
<b>Major in Social Studies Education 5-12 (B.A.)</b>		
ANT 200U	Introduction to Anthropology	3
ECO 201	Principles of Economics	4
GEO 120	Introduction to Geography	3

HIS 320K	History and the Human Environment	3
POS 100	American Politics and Government	3
PSY 100	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
Choose one of the following Humanities Program Pathway courses:		3-4
GES 246	Humanities IV: Modern and Contemporary Western Culture	
HIS 200L	American Civilization	
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
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 418	Methods in Teaching 9-12 Social Studies	2
EDU 419	5-8 Social Studies Methods and Practicum	2
EDU 490	Student Teaching Block <sup>1</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		85-86
General Education		49-50
<b>Total Credits</b>		<b>135</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

For admittance 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.S. in Biochemistry/Molecular Biology

This major is the in-depth study of the chemical processes that underlie all living systems in the world. As a collaborative program of the Biological Sciences and Chemistry Departments, it is an ideal choice

for students in the health sciences and in pre-professional programs such as medicine, dentistry, law, and pharmacy.

Code	Title	Credits
<b>Major in Biochemistry/Molecular Biology (B.S)</b>		
BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4
BIO 332 & BIO 333	Genetics and Genetics Lab	4
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>3</sup>	4
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab <sup>3</sup>	4
Choose one of the following courses:		4
BIO 388 & BIO 389	Biochemistry I and Biochemistry I Lab	
Or		
CHE 388 & CHE 389	Biochemistry I and Biochemistry I Lab	
Choose one of the following:		4-8
CHE 113 & CHE 113D & CHE 214 & CHE 215	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab	
Or		
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab	4
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab	4
CHE 312 & CHE 313	Quantitative Analysis and Quantitative Analysis Lab	4
CHE 344 & CHE 345	Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab	4
CHE 396 & CHE 397	Biochemistry II and Biochemistry II Lab	4
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
Choose one of the following courses:		4

BIO 399 & BIO 495 & BIO 496 & BIO 499	Introduction to Research and Biology Seminar and Biology Research and Biology Symposium	
Or		
CHE 395 & CHE 490 & CHE 494	Chemistry Seminar: Research and Professional Development and Chemistry Seminar: Research and Chemistry Seminar: Research Presentation	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major <sup>*,1</sup>		68-72
General Education		49-50
Electives		0-5
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> BIO234 is recommended.

<sup>2</sup> Biochemistry/Molecular Biology students who select Chemistry Seminar will qualify for the ACS-accredited degree by completing CHE364/CHE365 in addition to those required by the major. Completing any additional 300-level chemistry course (including CHE364/CHE365) also completes the requirements for a Chemistry B.A.

<sup>3</sup> This is a designated research course.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.S. in Neuroscience

The neuroscience major is multidisciplinary, combining expertise across a variety of fields. It adopts an integrative approach early in the curriculum to provide students with a conceptual framework for understanding the neuroscientific implications of the biology, psychology, chemistry, mathematics, computer science, and physics courses that are required. At the upper levels, it provides in-depth lab experiences, individual research opportunities, and senior capstone courses to tie it all together and to prepare graduates to succeed in a graduate program or to enter the field in some professional capacity.

Code	Title	Credits
<b>Major in Neuroscience (B.S.)</b>		
<b>Neuroscience Core:</b>		
BIO/PSY/NSC 130	Introduction to Neuroscience	3
BIO/PSY/NSC 130D	Introduction to Neuroscience Lab	1
BIO 358 & BIO 359	Neurobiology and Neurobiology Lab	4
PSY 340 & PSY 341	Physiological Psychology and Physiological Psychology Lab	4
NSC 350 & NSC 351	Neuroscience Methods and Neuroscience Methods Lab	4
NSC 493	Literature Review in Neuroscience	1
NSC 496	Neuroscience Research	1
NSC 499	Neuroscience Seminar	1
<b>Fundamentals of Psychology Courses:</b>		
PSY 100	Introduction to Psychology	3
PSY 230M	Introduction to Statistical Methods and Experimental Design	4

**Fundamentals of Biology Courses**

BIO 124 & BIO 124D	Integrative Biology: Genes, Cells, Change and Integrative Biology: Genes, Cells, Change Lab	4
BIO 128 & BIO 128D	Integrative Biology: Metabolism, Energy, Biodiversity and Integrative Biology: Metabolism, Energy, Biodiversity Lab	4

**Choose a Chemistry Sequence:** 4-8

CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab

Or

CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab

**Choose one or both Mathematics courses:** 4-8

MAT 124M	Calculus 1
MAT 125	Calculus 2 <sup>1</sup>

**Choose two courses from Biology and Biochemistry courses, at least one which must be 300-level or above:** 8

BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab
BIO 238 & BIO 239	Human Anatomy and Physiology and Human Anatomy and Physiology Lab
BIO 332 & BIO 333	Genetics and Genetics Lab
BIO 338 & BIO 339	Endocrinology and Endocrinology Lab
BIO 346 & BIO 347	Animal Behavior and Animal Behavior Lab
BIO 354 & BIO 355	Cell Biology and Cell Biology Lab <sup>2</sup>
BIO 362	Developmental Biology
BIO 376	Animal Physiology
BIO 388 & BIO 389	Biochemistry I and Biochemistry I Lab
BIO 396 & BIO 397	Molecular Biology and Molecular Biology Lab <sup>2</sup>
CHE 304 & CHE 305	Essentials of Biochemistry and Essentials of Biochemistry Lab

**Choose one from Experimental Psychology courses:** 4

PSY 323	Motivation and Emotion
PSY 348 & PSY 349	Conditioning and Learning and Conditioning and Learning Lab
PSY 350	Cognitive Psychology
PSY 440 & PSY 441	Sensation and Perception and Sensation and Perception Lab

<b>Choose one from Critical Supporting in Computer Science courses:</b>		<b>3-4</b>
COS 100	Introduction to Programming	
COS 105	Computer Science 1	
COS 205	Scientific Computing	
COS/PSY 337K	Behavioral Robotics	
<b>Choose one of the following Physics courses:</b>		<b>8</b>
PHY 202 & PHY 202D	Introductory Physics I and Introductory Physics I Lab	
PHY 206 & PHY 207	Introductory Physics II and Introductory Physics II Lab	
Or		
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	
PHY 296 & PHY 297	General Physics II and General Physics II Lab	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		65-74
General Education		49-50
Electives		0-8
<b>Total Credits</b>		<b>122</b>

- <sup>1</sup> Required if student chooses the PHY 292/PHY 296 option or the COS 105 option.  
<sup>2</sup> This is a designated research course.  
 \* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Asian Studies

Code	Title	Credits
<b>Minor in Asian Studies</b>		
HIS 205U or HIS 206U	History of China, Japan, and Korea History of India and Its Neighbors	3
	Competency in an Asian language <sup>2</sup>	8
Choose 7-15 credits from the following:		7-15
HIS 205U	History of China, Japan, and Korea (if not selected above)	
HIS 206U	History of India and Its Neighbors (if not selected above)	
HIS 372	Topics in Global History (Asian topic or focus) <sup>1,3</sup>	
PHI 365	Topics in Philosophy (Asian topic or focus) <sup>1,3</sup>	
PHI 375G	Asian Philosophy	
POS 202U	Introduction to International Relations (Asian focus) <sup>1</sup>	
POS 241L	Revolution and Political Development (Asian focus) <sup>1</sup>	
REL 205U	Religions of India, China and Japan	
SOC 372G	Religion in Society <sup>1</sup>	
REL/THE 401	Christianity and the World's Religions (Asian focus) <sup>1</sup>	



- <sup>1</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.
- <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.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

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.

## 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.

## Majors in Music

- B.A. in Music (p. 279)
- B.Mus. in Applied Performance (p. 279)
- B.Mus.Ed. in Music Education (p. 281)

## Minor in Music

- Music (p. 283)

### Music Courses

#### **MUS 101 • Music Fundamentals.** 1 Credit.

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 MUL 143A or consent of instructor. Offered: Fall.*

#### **MUS 103 • 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 MUS 101 and MUL 143A, or consent of instructor. Offered: Fall.*

#### **MUS 104 • Music Theory I.** 3 Credits.

A continuation of MUS 101 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: MUS 101; MUS 103. Offered: Spring*

#### **MUS 195 • Music Hour.** 0 Credit.

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: Graded on an S/U basis. Offered: Fall, Spring.*

#### **MUS 202 • Music Theory II.** 3 Credits.

A continuation of MUS 104 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: MUS 104. Offered: Fall*

#### **MUS 203 • 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: MUS 202 or consent of instructor. Offered: Spring*

#### **MUS 210 • 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: MUS 104 or consent of instructor. Offered: Spring 2020*

#### **MUS 230 • Music and Worship in the 21st Century.** 3 Credits.

The role of music within the context of Christian corporate worship. Current practice in church music is analyzed from a theological and historical perspective with the goal of forming musical practice that matches biblical function.

*Offered: Spring.*

#### **MUS 262A • 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.*

#### **MUS 301 • Music Theory IV.** 3 Credits.

Advanced analysis and composition in all styles with a focus on 20th century music.

*Prerequisites: MUS 203. Offered: Spring, odd # years*

**MUS 305G • 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:* [GES 130; GES 160; *Contemporary Western Life and Thought (L) course; World Cultures (U) course*] or [GES 244; *World Cultures (U) course*]. *Offered:* Spring, even # years

**MUS 312 • 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:* MUS 103; MUS 104. *Offered:* Fall

**MUS 313 • Music History and Literature II.** 3 Credits.

A continuation of MUS 312, from 1750 to the present.

*Prerequisites:* MUS 312. *Offered:* Spring

**MUS 315 • 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 2019

**MUS 322 • 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:* MUS 324. *Offered:* Spring

**MUS 323 • 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:* MUS 202; MUS 312. *Offered:* Spring

**MUS 324 • 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:* MUS 203; MUS 313 or consent of instructor. *Offered:* Fall

**MUS 326 • Vocal Literature.** 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:* MUS 203, MUS 313.

**MUS 357 • 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.

**MUS 358 • 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

**MUS 359 • 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

**MUS 360 • String Methods.** 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

**MUS 362 • Woodwind Methods.** 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*

**MUS 363 • 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*

**MUS 366 • Italian and English Lyric Diction.** 1 Credit.

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*

**MUS 367 • French Lyric Diction.** 1 Credit.

Studies in pronunciation of French diction through use of the International Phonetic Alphabet (IPA). Verbal, written, and sung realizations of this work practiced on assigned repertoire.

*Prerequisites: MUS 366. Offered: Spring, odd # years*

**MUS 368 • German Lyric Diction.** 1 Credit.

Studies in pronunciation of German diction through the use of the International Phonetic Alphabet (IPA). Verbal, written, and sung realization of this work practiced on assigned repertoire.

*Prerequisites: MUS 366. Offered: Spring, even # years*

**MUS 395 • Junior Recital.** 0 Credit.

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*

**MUS 495 • Half Senior Recital.** 0 Credit.

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*

**MUS 496 • Full Senior Recital.** 0 Credit.

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 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. Not all music ensembles require auditions. Prerequisite: Participation in a major performance organization (MUP101A through MUP163A).

**MUE 100A • Bethel Chapel Choir.** 1 Credit.

A non-auditioned choir that performs regularly in Chapel and other Departments of Music and Campus Ministries events. Grading Exceptions: S/U (limited). TR; Fall, Spring.

**MUE 101A • Chamber Choir.** 1 Credit.

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*

**MUE 131A • Handbell Ensemble.** 1 Credit.

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.*

**MUE 141A • Chamber Ensemble.** 1 Credit.

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.*

**MUE 151A • Jazz Orchestra.** 1 Credit.

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.*

**MUE 161A • Chamber Winds.** 1 Credit.

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.

**MUL 140A • Beginning Piano.** 1 Credit.

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.*

**MUL 141A • Beginning Voice.** 1 Credit.

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.*

**MUL 142A • Beginning Guitar.** 1 Credit.

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.*

**MUL 143A • Introduction to Keyboard Theory.** 1 Credit.

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 MUS 101. 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.*

**MUL 144A • Group Voice.** 1 Credit.

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: MUL 141A or membership in Women's Chorale or Male Chorus. Offered: Fall, spring*

**MUL 242A • Intermediate Guitar.** 1 Credit.

A series of lessons designed to advance the student beyond the foundational guitar techniques introduced in MUL 142A, including barred chords, chord alteration, advanced strumming and fingerpicking, performance techniques, guitar music theory, and arranging.

*Prerequisites: MUL 142A or consent of instructor. Offered: Spring*

**MUL 300 • 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: MUS 202 or consent of instructor. The private lesson fee applies to this course. 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.

**MUP 101A • Bethel Women's Choir.** 1 Credit.

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.*

**MUP 111A • Bethel Choir.** 1 Credit.

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.*

**MUP 121A • Bethel Men's Choir.** 1 Credit.

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*

**MUP 150A • Bethel Philharmonic Orchestra.** 1 Credit.

A fully symphonic orchestra open, by audition, to all members of the Bethel community, including students, faculty, staff, alumni and the larger community as openings allow. Rehearses one night a week and gives one concert a semester.

*Offered: Fall, Spring.*

**MUP 153A • Bethel Chamber Orchestra.** 1 Credit.

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.*

**MUP 163A • Wind Symphony.** 1 Credit.

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.*

## B.A. in Music

Code	Title	Credits
<b>Major in Music (B.A.)</b>		
MUL 143A	Introduction to Keyboard Theory	1
MUS 101	Music Fundamentals	1
MUS 103	Introduction to Music Literature	2
MUS 104	Music Theory I	3
MUS 195	Music Hour	0
MUS 202	Music Theory II	3
MUS 203	Music Theory III	3
MUS 312	Music History and Literature I	3
MUS 313	Music History and Literature II	3
MUS 322	Instrumental Literature and Conducting	3
MUS 323	Instrumentation	2
MUS 324	Choral Literature and Conducting	3
MUS 495	Half Senior Recital	0
PHI 310	Aesthetics	3
Performance Organizations		6
Private Lessons		6
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		42
General Education		49-50
Electives		30-31
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

### 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



Code	Title	Credits
<b>Major in Applied Music Performance (B.Mus.)</b>		
MUL 143A	Introduction to Keyboard Theory	1
MUS 101	Music Fundamentals	1
MUS 103	Introduction to Music Literature	2
MUS 104	Music Theory I	3
MUS 195	Music Hour	0
MUS 202	Music Theory II	3
MUS 203	Music Theory III	3
MUS 301	Music Theory IV	3
MUS 312	Music History and Literature I	3
MUS 313	Music History and Literature II	3
MUS 322	Instrumental Literature and Conducting	3
MUS 323	Instrumentation	2
MUS 324	Choral Literature and Conducting	3
MUS 395	Junior Recital	0
MUS 496	Full Senior Recital	0
PHI 310	Aesthetics	3
Performance Organizations		6
Private Lessons		4
Choose one emphasis from the Emphases tab		12-14

Code	Title	Credits
Major *		55-57
General Education		49-50
Electives		15-18
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

### 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 Emphasis (12 credits)

Code	Title	Credits
Private Lessons in Composition:		6
MUL 300	Applied Composition	
Select three of the following four courses:		6
MUS 358	Brass Methods	
MUS 359	Percussion Methods	
MUS 360	String Methods	
MUS 362	Woodwind Methods	
Total Credits		12

## Instrumental Performance Emphasis (12 credits)

Code	Title	Credits
Private Lessons		10
Select one of the following:		2
MUS 358	Brass Methods	
MUS 359	Percussion Methods	
MUS 360	String Methods	
MUS 362	Woodwind Methods	
Total Credits		12

## Piano Performance Emphasis (13 credits)

Code	Title	Credits
Private Lessons		6
MUS 210	Collaborative Keyboard Skills	2
MUS 315	Piano Literature	3
MUS 357	Piano Pedagogy	2
Total Credits		13

## Vocal Performance (14 credits)

Code	Title	Credits
Private Lessons		6
MUS 326	Vocal Literature	3
MUS 363	Vocal Pedagogy	2
MUS 366	Italian and English Lyric Diction	1
MUS 367	French Lyric Diction	1
MUS 368	German Lyric Diction	1
Total Credits		14

## B.Mus.Ed. in Music Education

Code	Title	Credits
<b>Major in Music Education (B.Mus.Ed.)</b>		
MUL 143A	Introduction to Keyboard Theory	1
MUS 101	Music Fundamentals	1
MUS 103	Introduction to Music Literature	2
MUS 104	Music Theory I	3
MUS 195	Music Hour	0
MUS 202	Music Theory II	3
MUS 203	Music Theory III	3
MUS 305G	Music in World Cultures	3
MUS 312	Music History and Literature I	3
MUS 313	Music History and Literature II	3
MUS 322	Instrumental Literature and Conducting	3
MUS 323	Instrumentation	2

MUS 324	Choral Literature and Conducting	3
MUS 495	Half Senior Recital	0
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 432	Methods in Teaching Elementary Music	3
EDU 433	Methods in Teaching Secondary Music	3
EDU 434	Middle Level Education Practicum in Music	1
EDU 490	Student Teaching Block <sup>1</sup>	14
Performance Organizations <sup>3</sup>		5-6
Private Lessons <sup>2</sup>		5-6
Choose one emphasis from the Emphases tab <sup>2</sup>		4-6

Code	Title	Credits
Major *		83-87
General Education		49-50
<b>Total Credits</b>		<b>133-136</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

<sup>2</sup> Instrumental K-12 majors take 6 credits and vocal K-12 majors take 4 credits.

<sup>3</sup> Instrumental K-12 majors take 5 credits of performance organizations and 5 credits of private lessons, resulting in 37 credits.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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 Emphasis (6 credits)

Code	Title	Credits
Choose three of the following courses for a total of 6 credits:		6
MUS 358	Brass Methods	
MUS 359	Percussion Methods	
MUS 360	String Methods	
MUS 362	Woodwind Methods	
<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 before student teaching.

## Vocal K-12 Emphasis (4 credits)

Code	Title	Credits
MUS 363	Vocal Pedagogy	2
MUS 366	Italian and English Lyric Diction	1
MUS 367 or MUS 368	French Lyric Diction German Lyric Diction	1
Total Credits		4

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 before student teaching.

## Minor in Music

Code	Title	Credits
<b>Minor in Music</b>		
MUL 143A	Introduction to Keyboard Theory	1
MUS 101	Music Fundamentals	1
MUS 103	Introduction to Music Literature	2
MUS 104	Music Theory I	3
MUS 202	Music Theory II	3
MUS 312	Music History and Literature I	3
MUS 313	Music History and Literature II	3
MUS 324	Choral Literature and Conducting	3
Performance Organizations <sup>1</sup>		2
Private Lessons		2
<b>Total Credits</b> *		23

<sup>1</sup> Must be in a performance organization for a minimum of two years.

\* Course whose number is followed by a letter fulfill a General Education requirement.

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 Science, Technology, Engineering, and Math (STEM)

- Science, Technology, Engineering, and Math (STEM) (p. 171) (See Education Department section)

### **NAS 101D • 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. *Special Notes:* This course is a half-term course. Students may not take this course and another NAS course the same half-term. Students must complete two different NAS science concepts courses to complete the Laboratory Science (D) course requirement for general education. Offered: Fall, Spring.

### **NAS 102D • 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. *Special Notes:* This course is a half-term course. Students may not take this course and another NAS course the same half-term. Students must complete two different NAS science concepts courses to complete the Laboratory Science (D) course requirement for general education. Offered: Fall, Spring.

### **NAS 103D • 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. *Special Notes:* This course is a half-term course. Students may not take this course and another NAS course the same half-term. Students must complete two different NAS science concepts courses to complete the Laboratory Science (D) course requirement for general education. Offered: Interim, Spring.

### **NAS 104D • 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. *Special Notes:* This course is a half-term course. Students may not take this course and another NAS course the same half-term. Students must complete two different NAS science concepts courses to complete the Laboratory Science (D) course requirement for general education. Offered: Fall, Interim.

### **NAS 300 • 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:* NAS 101D; NAS 102D; NAS 103D; NAS 104D; MAT 201M; MAT 202. *Special Notes:* A minimum cumulative GPA of 2.75 is required for all prerequisite courses. Offered: Fall.

**NAS 400 • 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: NAS 300. 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 pre-nursing 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 option through the College of Adult & Professional Studies. Degrees in Master of Science in Nurse-Midwifery and Doctor of Nursing Practice are also offered through the Graduate School.

The baccalaureate degree is approved by the Minnesota Board of Nursing and accredited by:

The Commission on Collegiate Nursing Education : **655 K Street, NW, Suite 750, Washington, DC 20001, 202.887.6791**

## Admission Procedures

Students intending to complete a degree in nursing will be enrolled as pre-nursing students with the designation of PRN. Once students have met the minimum criteria for admission to nursing, submitted their application and been formally admitted to the nursing program, they will become nursing majors with the designation NUR.

### Regular Admission to the Nursing Program

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. Earn a C or better for all prerequisite science, health, and psychology courses.
5. Submit a recent ATI TEAS test score. Students are allowed to take the exam a maximum of two times, no sooner than two weeks apart.
  - a. Pre-nursing students must achieve a score of proficient (58.7) or higher in order to be admitted to the Nursing program. Submit the results to Bethel University St. Paul, MN from ATI. Students should test at a PSI site as soon as they graduate from high school, and no later than the summer before their sophomore year.
6. Demonstrate competency in oral and written communication.
7. Demonstrate a level of personal health consistent with safe nursing practice as determined in a physical examination.
8. Provide documentation of current immunizations as required by clinical agencies prior to beginning the nursing program.



9. 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.
10. Be recommended for admission into the nursing program by two persons outside the Department of Nursing.
11. Have completed the required prerequisite courses, including the general education courses: Inquiry Seminar, Christianity and Western Culture (CWC) or GES 145, and a biblical or theological studies course.
12. Applicants taking prerequisite science courses at Bethel will be more competitive.
13. Students can only reapply once for admission to the nursing program.
14. Provide documentation of successful completion of a Certified Nursing Assistant/Nursing Assistant Registered Program prior to beginning the nursing program.
15. 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.

## Transfer and/or Advanced Standing

Transfer students applying for admission to the nursing program must meet the regular admission requirements in addition to the requirements below:

1. Transfer students must achieve a cumulative GPA of at least 2.85 for all college level courses prior to admission to Bethel
2. Transfer students must attend Bethel at least one semester (12 credits minimum) prior to starting the nursing program. Students may complete nursing and/or general education pre-requisite courses during this semester.

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 science course prerequisites for the nursing program. However, the nursing department recommends students with a 4 or better take the science prerequisites, particularly BIO 118/BIO 118D and CHE 101/CHE 101D, at Bethel. Students with a score of 3 on AP science prerequisite courses will receive elective credit or receive credit toward General Education requirements.

## Early/Direct Admission to the Nursing Program

Highly qualified students may apply for early admission to the Nursing Program. This means that after acceptance, but before enrolling at Bethel University, they may also be accepted into the Nursing Program. This option is available to a limited number of first year and transfer students entering Bethel as pre-nursing majors.

### 1. Freshman Early/Direct Admission

To be considered for early admission an applicant must have an ACT combined score of 26 or more.

The Admissions and Progression Committee determines how many of the qualified students will receive a letter inviting them to apply for early admission. To apply the student must write an essay and submit one reference from a high school teacher or counselor.

Submit a recent ATI TEAS test score. The results of the TEAS will not be used as admissions criterion, but will be used to help determine supports that individual students may need. It is recommended students take the TEAS test the summer prior to starting at Bethel.

## 2. Transfer Early/Direct Admission

Early/direct transfer students are accepted into the sophomore fall semester with a planned nursing program start the coming spring. Early transfer applicants must meet the regular admission requirements in addition to the requirements below:

1. Report an ACT cumulative score of 26 or higher or a TEAS exam score of advanced or higher (taken within 5 years of application). All students must submit a recent ATI TEAS test score. The results of the TEAS will not be used as admissions criterion if the ACT cumulative score is 26 or higher, but will be used to determine supports that individual student may need.
2. A cumulative GPA of 3.3 or higher.
3. Prerequisite science courses completed within the past 5 years with no courses retaken.

Early/Direct Admission and Early Admit Transfer application materials are available from the College of Arts and Sciences traditional baccalaureate nursing program.

## Additional Requirements

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 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  
Saint 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 BIO 248/BIO 249 and each nursing course. Select nursing courses require that the overall combined exam score is at least 75% in order to pass the course. This indicates satisfactory achievement of objectives and completion of course requirements. Details are provided in the syllabi for the select courses.
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 all NUR400 level courses in residence at Bethel University.
7. Inform Health Services of any changes in health status that would affect performance as a nursing student.

## Appeals process

Students have the right to appeal a final grade, clinical evaluation, or dismissal from the program, if resolution cannot be resolved with the faculty member most immediately involved, to the nursing department Admission and Progressions committee, as described in the *Pre-licensure Nursing Program Student Handbook*.

Admissions decision are final and may not be appealed. Applicants may request a review of an admissions decision by the Dean of Nursing.

Students who are dismissed from the nursing program will be administratively withdrawn from nursing courses in which they are registered for the next term.

### **NUR 202 • 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:* HAS 110; *Acceptance into the Nursing program.* *Corequisites:* Registration in BIO 248/BIO 249 is required. *Offered:* Spring.

### **NUR 311 • 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:* BIO 248/249; HAS 110 or NUR201; NUR 202. *Corequisites:* Must be taken concurrently with NUR 313 and NUR 315. *Offered:* Fall.

### **NUR 312 • Nursing Skills III.** 1 Credit.

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:* NUR 311; NUR 313; NUR 315. *Corequisites:* Must be taken concurrently with NUR 314; NUR 318; NUR 322; NUR 324. *Offered:* Spring.

**NUR 313 • 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:* BIO 248/249; NUR201 or HAS 110; NUR 202. *Corequisites:* Must be taken concurrently with NUR 311 and NUR 315. *Offered:* Fall.

**NUR 314 • 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 NUR 313.

*Prerequisites:* NUR 311; NUR 313; NUR 315. *Corequisites:* Must be taken concurrently with NUR 312; NUR 318; NUR 322; NUR 324. *Offered:* Spring.

**NUR 315 • Practicum I: Medical Surgical Nursing.** 2 Credits.

A focus on the care of individuals in various health/illness states. Students will implement the nursing process in various healthcare settings fulfilling nursing roles with a focus on critical thinking and evidence-based practice.

*Prerequisites:* BIO 248/249; NUR201 or HAS 110; NUR 202. *Corequisites:* Must be taken concurrently with NUR 311 and NUR 313. *Offered:* Fall.

**NUR 318 • 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:* NUR 311; NUR 313; NUR 315. *Corequisites:* Must be taken concurrently with NUR 312; NUR 314; NUR 322; NUR 324. *Offered:* Spring.

**NUR 322 • Practicum II: Medical Surgical Nursing II.** 3 Credits.

A focus on the care of individuals in acute and chronic health/illness states. Students implement the nursing process in simulated and inpatient medical-surgical health care settings, fulfilling nursing roles with a focus on critical thinking and evidence-based practice.

*Prerequisites:* NUR 311; NUR 313; and NUR 315. *Corequisites:* Must be taken concurrently with NUR 312; NUR 314; NUR 318; and NUR 324. *Offered:* Spring.

**NUR 324 • Practicum III: Mental Health and Community Based Nursing.** 2 Credits.

A focus on the care of individuals in acute and chronic health/illness states. Students implement the nursing process in mental health and community settings, fulfilling nursing roles with a focus on critical thinking and evidence-based practice.

*Prerequisites:* NUR 311; NUR 313; NUR 315. *Corequisites:* Must be taken concurrently with NUR 312; NUR 314; NUR 318; NUR 322. *Offered:* Spring.

**NUR 411 • 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:* NUR 312; NUR 314; NUR316 or NUR 322 and NUR 324. *Corequisites:* Must be taken concurrently with NUR 413; NUR 417Z, NUR 419; NUR 425GZ. *Offered:* Fall.

**NUR 412 • 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:* NUR 411 or NUR411Z; NUR 413; NUR 417Z; NUR 419; NUR 425GZ. *Corequisites:* NUR 416, NUR 426; NUR 496. *Offered:* Spring.

**NUR 413 • Practicum IV: Pediatric and Maternity Nursing.** 2 Credits.

A focus on the nursing care of pediatric and maternity patients and families. Students use critical thinking and evidence-based practice to provide holistic nursing care in simulated, pediatric, and maternity health care settings.

*Prerequisites:* NUR 312; NUR 314; NUR 318; NUR316 or NUR 322 and NUR 324. *Corequisites:* Must be taken concurrently with NUR 411; NUR 417Z; NUR 419; NUR 425GZ. *Offered:* Fall.

**NUR 416 • Practicum VI: Clinical Capstone.** 3 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:* NUR 411 or NUR411Z; NUR415Z or NUR 413 and NUR 417Z; NUR 419; NUR 425GZ.

*Corequisites:* Must be taken concurrently with NUR 412; NUR 426; NUR 496. Offered: Spring.

**NUR 417Z • Practicum V: Public Health Nursing.** 2 Credits.

Provision of population focused nursing care, analysis of societal issues, and an understanding of cross-cultural relationships.

*Prerequisites:* NUR 312; NUR 314; NUR 318; NUR316 or NUR 322 and NUR 324. *Corequisites:* Must be taken concurrently with NUR 411; NUR 413; NUR 419; and NUR 425GZ. Offered: Fall.

**NUR 419 • Pediatric & Maternity Nursing.** 3 Credits.

A focus on nursing care of pediatric and maternity patients and families. Students apply theoretical frameworks and practice considerations to holistic nursing care.

*Prerequisites:* NUR 312; NUR 314; NUR316 or NUR 322 and NUR 324; NUR 318. *Corequisites:* Must be taken concurrently with NUR 411; NUR 413; NUR 417Z; NUR 425GZ. Offered: Fall.

**NUR 425GZ • Population Focused Nursing Care.** 4 Credits.

An exploration of population-focused nursing care with an emphasis on culturally diverse and underserved populations. Includes consideration of the epidemiologic process and cultural perspectives. Focuses on the advocacy and collaborator roles within the context of service-learning.

*Prerequisites:* NUR 312; NUR 314; NUR316 or NUR 322 and NUR 324; NUR 318; [GES 130; GES 160;

*Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course].* *Corequisites:* Must be taken concurrently with NUR 411; NUR 413; NUR 417Z; NUR 419. Offered: Fall.

**NUR 426 • 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:* NUR 411 or NUR411Z; NUR415Z or NUR 413 and NUR 417Z; NUR 419; NUR 425GZ.

*Corequisites:* Must be taken concurrently with NUR 412; NUR 416. NUR 496. Offered: Spring.

**NUR 431 • 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.

**NUR 481 • Internship in Nursing.** 1 Credit.

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

**NUR 496 • Senior Nursing Synthesis.** 1 Credit.

A focus on the transition from the student role to the role of the professional nurse. Synthesis of nursing clinical concepts that are essential for nursing graduates to provide safe, quality care to individuals, families, and groups in a variety of clinical settings. Promotion of critical thinking development and utilizing NCLEX-RN resources for preparation of NCLEX-RN.

*Prerequisites:* HAS 110 or NUR201; NUR 202, NUR 311, NUR 312, NUR 313, NUR 314, NUR 315, NUR316 or NUR 322 and NUR 324, NUR 318, NUR 411; NUR 413; NUR 417Z; NUR 425GZ. *Corequisites:* NUR 412; NUR416; NUR 426. Offered: Spring.

# B.S. in Nursing

Code	Title	Credits
<b>Major in Nursing (B.S.), prerequisite Courses</b> <sup>1,2,6</sup>		
<b>Science prerequisite courses:</b>		
BIO 118 & BIO 118D	General Biology and General Biology Lab	4
BIO 224 & BIO 225	Clinical Anatomy and Clinical Anatomy Lab	4
BIO 226 & BIO 227	Clinical Physiology and Clinical Physiology Lab	4
BIO 230 & BIO 231	Clinical Microbiology and Clinical Microbiology Lab	4
CHE 101 & CHE 101D	Introduction to Chemistry and Introduction to Chemistry Lab	4
<b>Health and Psychology prerequisite courses:</b>		
HAS 110	Introduction to Healthcare	3
HAS 170	Applied Nutrition	3
PSY 100	Introduction to Psychology	3
PSY 203	Lifespan Development	3
<b>General Education prerequisite courses: (Included in Gen Ed total):</b> <sup>3, 5</sup>		
GES 130	Christianity & Western Culture	4
GES 160	Inquiry Seminar	3
Biblical Studies Requirement (BIB 101, THE 201, or Interpreting Biblical Themes (J) course)		3
<b>Total Prerequisite Credits</b>		<b>42</b>
Code	Title	Credits
<b>Major in Nursing (B.S.)</b>		
BIO 248 & BIO 249	Clinical Pathophysiology and Pharmacology and Clinical Pathophysiology and Pharmacology Lab	4
Choose one of the following Statistics courses:		3
PSY 230M	Introduction to Statistical Methods and Experimental Design	
HAS 250M	Statistics and Research Methods in Applied Health Sciences	
Choose one of the following Ethics courses: <sup>4</sup>		3
PHI 110	Contemporary Moral Issues	
ENS/PHI 335K	Environmental Ethics	
GES 340K	Healthcare Informatics: Merging Data, Science, Technology, and Healthcare	
GES 390K	Decision-Making and Medical Technology	
GES 405P	Ethical Relationships: Choosing the Good in Family and Community Life	
GES 420P	Bioethics	
GES 458PZ	Contemporary Wellbeing and Traditional Therapies in Taiwan	

NUR 202	Nursing Skills I: Health Assessment	2
NUR 311	Nursing Skills II	2
NUR 312	Nursing Skills III	1
NUR 313	Nursing Care of Individuals I	3
NUR 314	Nursing Care of Individuals II	3
NUR 315	Practicum I: Medical Surgical Nursing	2
NUR 318	Chronicity: Mental Health Focus	2
NUR 322	Practicum II: Medical Surgical Nursing II	3
NUR 324	Practicum III: Mental Health and Community Based Nursing	2
NUR 411	Nursing Skills IV	1
NUR 412	Nursing Skills V	1
NUR 413	Practicum IV: Pediatric and Maternity Nursing	2
NUR 416	Practicum VI: Clinical Capstone	3
NUR 417Z	Practicum V: Public Health Nursing	2
NUR 419	Pediatric & Maternity Nursing	3
NUR 425GZ	Population Focused Nursing Care	4
NUR 426	Leadership Development	4
NUR 496	Senior Nursing Synthesis	1
<b>Total Major Credits *</b>		<b>51</b>

Code	Title	Credits
General Education <sup>5</sup>		49-50
<b>Total Credits</b>		<b>123-126</b>

- <sup>1</sup> Achieve a cumulative GPA of 2.75 in the science prerequisite courses, before being admitted to the nursing program.
  - <sup>2</sup> Earn a C or better for all prerequisite science, health, and psychology courses.
  - <sup>3</sup> Humanities Students take GES 145, GES 147, and GES 244 along with the Biblical Studies Requirement.
  - <sup>4</sup> A course in ethical decision making must be included within the total program. Students are encouraged to take PHI 110 Contemporary Moral Issues (included in the above required courses list).
  - <sup>5</sup> The General Education total includes 10 credits of required prerequisite courses.
  - <sup>6</sup> Achieve a cumulative Bethel GPA of at least 2.75.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

# 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. 298)

## Minor in Philosophy

- Philosophy (p. 299)

### **PHI 105 • 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: Occasionally.*

### **PHI 110 • 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.*

### **PHI 120 • 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.*

### **PHI 125M • 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.*

### **PHI 210L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently).*

*Offered: Fall.*



**PHI 220L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall*

**PHI 223L • 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.

*Prerequisites: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring*

**PHI 228L • Philosophies of Love and Sex.** 3 Credits.

Examines different perspectives on the nature of love and sexuality. Defines and distinguishes features associated with different types of love and sexuality. Explores norms concerning both, and critically examines their role in contemporary American society.

*Prerequisites: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently); one completed PHI course recommended. Offered: Spring, Occasionally*

**PHI 230U • Medieval Islamic Philosophy.** 3 Credits.

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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring*

**PHI 235L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently); one completed PHI course recommended. Offered: Occasionally interim. Special Notes: Carries cross-credit in English.*

**PHI 251 • History of Philosophy I.** 3 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*

**PHI 252 • History of Philosophy II.** 3 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*

**PHI 301 • 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: PHI 125M or MAT 241. Offered: Occasionally*

**PHI 302 • 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: FLM 200 and one philosophy course, or consent of the instructor. Offered: Occasionally spring*

**PHI 305G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Spring*

**PHI 310 • 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: GES 125. Offered: Fall*

**PHI 315 • 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*

**PHI 316 • 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: PSY 100 or one philosophy course. Offered: Occasionally. Special Notes: Carries cross-credit in psychology.*

**PHI 320 • 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: Two PHI courses or approval of instructor. Offered: Spring.*

**PHI 323 • 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*

**PHI 335K • 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.*

**PHI 340K • 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*

**PHI 360 • 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.

**PHI 365 • 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

**PHI 375G • 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. *Offered:* Fall

**PHI 390 • 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

**PHI 499 • 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

Code	Title	Credits
<b>Major in Philosophy (B.A.)</b>		
PHI 110	Contemporary Moral Issues	3
PHI 125M	Introduction to Logic	3
Choose one from the following Contemporary or Global Philosophy courses:		3
PHI 210L	The Modern Mind	
PHI 220L	Philosophies of Race and Gender in America	
PHI 223L	Introduction to Gender Studies	
PHI 228L	Philosophies of Love and Sex	
PHI 230U	Medieval Islamic Philosophy	
PHI 235L	Film and the Modern Sensibility	
PHI 251	History of Philosophy I	3
PHI 252	History of Philosophy II	3
PHI 320	Ethics: Theory and Practice	4
PHI 390	Epistemology and Metaphysics	4
PHI 499	Senior Seminar	4

Electives from philosophy courses, of which at least 3 credits must be from 300 level or above	6
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Code	Title	Credits
Major *		33
General Education		49-50
Electives		39-40
<b>Total Credits</b>		122

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Philosophy

Code	Title	Credits
<b>Minor in Philosophy</b>		
PHI 251	History of Philosophy I	3
or PHI 252	History of Philosophy II	
Electives from philosophy courses, of which six credits must be 300-level or above		14
<b>Total Credits</b> *		17

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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

Code	Title	Credits
PHI 125M	Introduction to Logic	3
PHI 251	History of Philosophy I	3
or PHI 252	History of Philosophy II	
PHI 320	Ethics: Theory and Practice	4
PHI 335K	Environmental Ethics	3
Electives		4
<b>Total Credits</b>		17

### Pre-Healthcare Professions Track

Code	Title	Credits
PHI 251	History of Philosophy I	3
or PHI 252	History of Philosophy II	
PHI 320	Ethics: Theory and Practice	4
PHI 340K	Philosophy of Science	3
Electives		7
<b>Total Credits</b>		17

**Pre-Law Track**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
PHI 125M	Introduction to Logic	3
PHI 251 or PHI 252	History of Philosophy I History of Philosophy II	3
Electives (11 credits of which 6 must be 300 level or above)		11
Total Credits		17

**Pre-Seminary Track**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
PHI 251	History of Philosophy I	3
PHI 252	History of Philosophy II	3
PHI 305G	Philosophy of Religion	3
Electives (7 credits of which 3 must be 300-level or above)		7
Total Credits		16

# Physics

The Department of Physics and Engineering seeks to prepare students in a liberal arts setting for careers in physics, engineering, and related fields. In addition to the B.S. in Electrical Engineering and the B.S. in Software Engineering, students oriented toward engineering careers are also 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 and Engineering 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. 304)
- B.A. in Science Education 9-12: Physics Emphasis (p. 305)
- B.S. in Applied Physics (p. 306)
- B.S. in Physics (p. 308)

## Minor in Physics

- Physics (p. 309)

### **PHY 102 • Physics of Everyday Life.** 3 Credits.

Explores how physics concepts can be used to understand everyday phenomena in the world around us. Topics include mechanics, waves (including sound and light), thermodynamics, and atomic and nuclear physics. Lecture demonstrations and laboratories stress a clear understanding of observed phenomena.

*Corequisites: Concurrent registration in PHY 102D is required. Offered: Interim.*

### **PHY 102D • Physics of Everyday Life-Lab.** 1 Credit.

Laboratory experience accompanying PHY 102.

*Corequisites: Concurrent registration in PHY 102 is required. Offered: Interim.*

### **PHY 112 • 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 PHY 112D is required. Offered: Fall.*

### **PHY 112D • Introduction to Astronomy Lab.** 1 Credit.

Laboratory experience accompanying PHY 112. Includes optics, atomic spectra, and observations with simple instruments and telescopes.

*Corequisites: Concurrent registration in PHY 112 is required. Offered: Fall.*

### **PHY 202 • Introductory Physics I.** 3 Credits.

Mechanics, thermal properties of matter and mechanical waves.

*Prerequisites: MAT 123M, MAT 124M, 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 PHY 202D is required. Offered: Fall*

**PHY 202D • Introductory Physics I Lab.** 1 Credit.

Laboratory experience accompanying PHY 202.

*Corequisites: Concurrent registration in PHY 202 is required. Offered: Fall.*

**PHY 206 • Introductory Physics II.** 3 Credits.

Electricity and magnetism, sound waves, optical phenomena, and modern physics.

*Prerequisites: PHY 202/202D. Corequisites: Concurrent registration in PHY 207 is required. Offered: Spring*

**PHY 207 • Introductory Physics II Lab.** 1 Credit.

Laboratory experience accompanying PHY 206.

*Corequisites: Concurrent registration in PHY 206 is required. Offered: Spring.*

**PHY 260 • Careers in Engineering and Physics Seminar.** 1 Credit.

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: PHY 296/297. Offered: Fall. Special Notes: Carries cross-credit in engineering.*

**PHY 292 • General Physics I.** 3 Credits.

Kinematics, mechanics, oscillations, fluids, and conservation principles.

*Prerequisites: MAT 124M (may be taken concurrently). Corequisites: Concurrent registration in PHY 292D is required. Offered: Fall*

**PHY 292D • General Physics I Lab.** 1 Credit.

Laboratory experience accompanying PHY 292.

*Corequisites: Concurrent registration in PHY 292 is required. Offered: Fall.*

**PHY 296 • General Physics II.** 3 Credits.

Electricity, magnetism, thermodynamics, sound waves, and optics.

*Prerequisites: PHY 292/292D (with a grade of C or better); MAT 125 (may be taken concurrently).*

*Corequisites: Concurrent registration in PHY 297 is required. Offered: Spring*

**PHY 297 • General Physics II Lab.** 1 Credit.

Laboratory experience accompanying PHY 296.

*Corequisites: Concurrent registration in PHY 296 is required. Offered: Spring.*

**PHY 302 • Electronics.** 3 Credits.

Fundamentals of digital and analog electronics intended for scientists and engineers.

*Prerequisites: PHY 296/297 (grade of C or better); MAT 124M. Corequisites: Concurrent registration in PHY 303 is required. Offered: Fall*

**PHY 303 • Electronics Lab.** 1 Credit.

Laboratory experience accompanying PHY 302. 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 PHY 302 is required. Offered: Fall.*

**PHY 312 • Modern Physics.** 3 Credits.

Relativity, quantum theory, atomic structure, nuclear structure, and elementary particles.

*Prerequisites: PHY 296/297 (grade of C or better); MAT 223. Corequisites: Concurrent registration in PHY 313 is required. Offered: Spring*

**PHY 313 • Modern Physics Lab.** 1 Credit.

Atomic and nuclear laboratory experiments accompanying PHY 312.

*Corequisites: Concurrent registration in PHY 312 is required. Offered: Spring.*

**PHY 320 • 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: MAT 222; MAT 223. Offered: Fall. Special Notes: Carries cross-credit in engineering.*

**PHY 332 • Optics.** 3 Credits.

Principles of geometrical and physical optics.

*Prerequisites:* PHY 312/313; MAT 223. *Corequisites:* Concurrent registration in PHY 333 is required. *Offered:* Spring, even # years

**PHY 333 • Optics Lab.** 1 Credit.

Laboratory experience accompanying PHY 332 emphasizing physical optics measurements, laser technology, and holography.

*Corequisites:* Concurrent registration in PHY 332 is required. *Offered:* Spring, even # years.

**PHY 340 • Mechanics.** 4 Credits.

Particle dynamics, conservative motion, central forces, accelerated coordinate systems, and Lagrange's equations of motion.

*Prerequisites:* PHY 296/297 (grade of C or better); MAT 222; MAT 223. *Offered:* Fall.

**PHY 352 • 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:* MAT 223; PHY 296/297, and PHY 302/303 (grade of C or better) or consent of instructor.

*Corequisites:* Concurrent registration in PHY 353 is required. *Offered:* Spring. *Special Notes:* Carries cross-credit in engineering.

**PHY 353 • Computer Methods in Physics and Engineering Lab.** 1 Credit.

Laboratory experience accompanying PHY 352.

*Corequisites:* Concurrent registration in PHY 352 is required. *Offered:* Spring. *Special Notes:* Carries cross-credit in engineering.

**PHY 365 • Physics Research Seminar.** 1 Credit.

An introduction to research in physics and the development of scientific writing skills. Emphasis placed on preparing for departmental research experiences such as PHY 490 and external research experiences such as those found in industry, summer fellowship programs, and graduate schools.

*Prerequisites:* PHY 260; PHY 312/313; junior standing; a major in the physics department. *Offered:* Spring

**PHY 400 • Electricity and Magnetism.** 4 Credits.

Electro- and magnetostatics, electric and magnetic fields, and electromagnetic waves.

*Prerequisites:* PHY 296/297 (grade of C or better); MAT 222; MAT 223. *Offered:* Fall, odd # years

**PHY 410 • Thermodynamics.** 4 Credits.

Laws of thermodynamics, conditions for thermodynamic equilibrium, and fundamentals of statistical mechanics.

*Prerequisites:* PHY 296/297 (grade of C or better); MAT 223. PHY 312/313 is strongly recommended. *Offered:* Spring, odd # years

**PHY 422 • 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:* PHY 296/297 (grade of C or better); MAT 223. *Corequisites:* Concurrent registration in PHY 423 is required. *Offered:* Fall, odd # years. *Special Notes:* Carries cross-credit in engineering.

**PHY 423 • Fluid Mechanics Lab.** 1 Credit.

Laboratory experience accompanying PHY 422.

*Corequisites:* Concurrent registration in PHY 422 required. *Offered:* Fall, odd # years. *Special Notes:* Carries cross-credit in engineering.

**PHY 424 • Materials and Devices.** 3 Credits.

Theory and application of condensed matter and materials. Physical origin of electrical, optical, mechanical, thermal, and magnetic properties. Particular emphasis on devices such as pn junction diodes, LEDs, solar cells, piezoelectrics, liquid crystals, nanostructures, and sensors. An accompanying lab explores characterization of materials and design, fabrication, and testing of devices.

*Prerequisites:* PHY 302/303 or PHY 312/313. *Corequisites:* Concurrent registration in PHY 425 is required. *Offered:* Fall, even # years. *Special Notes:* Carries cross-credit in engineering.



**PHY 425 • Materials and Devices Lab.** 1 Credit.

Laboratory component of PHY 424.

*Corequisites: Concurrent registration in PHY 424 required. Offered: Fall, even # years. Special Notes: Carries cross-credit in engineering.*

**PHY 432 • Topics in Contemporary Optics.** 3 Credits.

Fourier optics, theory of coherence, quantum optics, nonlinear optics, and the physics of lasers.

*Prerequisites: PHY 312/313; MAT 222; MAT 223. Concurrent registration in PHY 433 is required. Offered: Spring, odd # years*

**PHY 433 • Topics in Contemporary Optics Lab.** 1 Credit.

Laboratory experience accompanying PHY 432.

*Corequisites: Concurrent registration in PHY 432 is required. Offered: Spring, odd # years.*

**PHY 440 • Quantum Mechanics.** 4 Credits.

Concepts and techniques of quantum mechanics.

*Prerequisites: PHY 312/313; MAT 222; MAT 223. Offered: Fall, even # years*

**PHY 450 • Topics in Applied Physics and Engineering.** 3-4 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: PHY 302 and PHY 352 (may be taken concurrently); MAT 222. Repeatable course: Course may be repeated when a different topic is emphasized. Special Notes: Carries cross-credit in Engineering. Offered: Occasionally.*

**PHY 481 • 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*

**PHY 490 • Research.** 3 Credits.

An opportunity for individual student projects under the supervision of the faculty.

*Prerequisites: Senior standing; PHY 365; major in physics department. Offered: Fall, spring*

## B.A. in Physics

Code	Title	Credits
<b>Major in Physics (B.A.)</b>		
PHY 260	Careers in Engineering and Physics Seminar	1
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
PHY 320	Mathematical Methods in Physics and Engineering	4
Electives from 300- or 400-level physics courses, at least 4 credits of which are not counted for another major		12
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4

MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		47
General Education		49-50
Electives		25-26
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Science Education 9-12: Physics Emphasis

Code	Title	Credits
<b>Science Education 9-12: Physics Emphasis (B.A.)</b>		
PHY 112 & PHY 112D	Introduction to Astronomy and Introduction to Astronomy Lab	4
PHY 260	Careers in Engineering and Physics Seminar	1
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
PHY 352 & PHY 353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
CHE 113 & CHE 113D & CHE 214 & CHE 215 or CHE 208/208D	General Chemistry I and General Chemistry I Lab and General Chemistry II and General Chemistry II Lab Accelerated General Chemistry	4-8
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 223	Multivariable Calculus	3
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 420	Methods in Teaching 5-12 Science	3

EDU 429	Science Education Practicum in Grades 5-8 or 5-12	1
EDU 490	Student Teaching Block <sup>1</sup>	14
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		76-80
General Education		49-50
<b>Total Credits</b>		<b>126-129</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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 9-12 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

Code	Title	Credits
<b>Major in Applied Physics (B.S.)</b>		
PHY 260	Careers in Engineering and Physics Seminar	1
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
PHY 320	Mathematical Methods in Physics and Engineering	4
PHY 340	Mechanics	4
PHY 352 & PHY 353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
PHY 365	Physics Research Seminar	1
PHY 490	Research	3
Choose one of the following:		4
CHE 208 & CHE 208D	Accelerated General Chemistry and Accelerated General Chemistry Lab	
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab	
COS 205	Scientific Computing	3
MAT 125	Calculus 2	4
MAT 223	Multivariable Calculus	3

Code	Title	Credits
Major *		47
General Education		49-50
Emphasis		19-24
Electives		1-7
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Biomedical Emphasis (24 credits)

Code	Title	Credits
BIO 120 & BIO 121	Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4
BIO 214 & BIO 215	Human Anatomy and Human Anatomy Lab	4
BIO 216 & BIO 217	Human Physiology and Human Physiology Lab	4
PHY 422 & PHY 423	Fluid Mechanics and Fluid Mechanics Lab	4
Choose from one of the following Optics courses:		4
PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	
Choose one of the following courses on properties of materials:		4
PHY 400	Electricity and Magnetism	
PHY 424 & PHY 425	Materials and Devices and Materials and Devices Lab	
<b>Total Credits</b>		<b>24</b>

## Computational Emphasis (19 credits)

Code	Title	Credits
COS 351	High-Performance Computing	3
MAT 222	Differential Equations	3
MAT 241	Discrete Mathematics	3
MAT 330	Probability and Statistics	3
MAT 344	Numerical Methods	3
MAT 376	Operations Research	4
<b>Total Credits</b>		<b>19</b>

## Electronics Emphasis (23 credits)

Code	Title	Credits
MAT 222	Differential Equations	3
PHY 400	Electricity and Magnetism	4
PHY 424 & PHY 425	Materials and Devices and Materials and Devices Lab	4

Choose one of the following Optical Science courses:		4
PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	
ENR 306 & ENR 307	Digital Logic and Design and Digital Logic and Design Lab	4
ENR 326	Circuit Analysis & Simulations	4
Total Credits		23

## Mechanics Emphasis (19 credits)

Code	Title	Credits
ENR 308	Statics and Mechanics of Materials	4
MAT 222	Differential Equations	3
PHY 410	Thermodynamics	4
PHY 422 & PHY 423	Fluid Mechanics and Fluid Mechanics Lab	4
PHY 424 & PHY 425	Materials and Devices and Materials and Devices Lab	4
Total Credits		19

## Optics Emphasis (19 credits)

Code	Title	Credits
MAT 222	Differential Equations	3
PHY 332 & PHY 333	Optics and Optics Lab	4
PHY 400	Electricity and Magnetism	4
PHY 432 & PHY 433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	4
PHY 440	Quantum Mechanics	4
Total Credits		19

## B.S. in Physics

Code	Title	Credits
<b>Major in Physics (B.S.)</b>		
PHY 260	Careers in Engineering and Physics Seminar	1
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
PHY 320	Mathematical Methods in Physics and Engineering	4
Choose one of the following Optical Science courses:		4

PHY 332 & PHY 333	Optics and Optics Lab	
PHY 432 & PHY 433	Topics in Contemporary Optics and Topics in Contemporary Optics Lab	
PHY 340	Mechanics	4
PHY 365	Physics Research Seminar	1
PHY 400	Electricity and Magnetism	4
PHY 410	Thermodynamics	4
PHY 440	Quantum Mechanics	4
PHY 490	Research	3
COS 205	Scientific Computing	3
MAT 124M	Calculus 1	4
MAT 125	Calculus 2	4
MAT 222	Differential Equations	3
MAT 223	Multivariable Calculus	3
Choose one of the following Computation courses:		3-4
MAT 344	Numerical Methods	
PHY 352 & PHY 353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	

Code	Title	Credits
Major *		65-66
General Education		49-50
Electives		6-8
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Physics

Code	Title	Credits
<b>Minor in Physics</b>		
Choose either Introductory Physics 1 & 2 and Labs or General Physics 1 & 2 and Labs		8
PHY 202 & PHY 202D & PHY 206 & PHY 207	Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab	
PHY 292 & PHY 292D & PHY 296 & PHY 297	General Physics I and General Physics I Lab and General Physics II and General Physics II Lab	
PHY 302 & PHY 303	Electronics and Electronics Lab	4
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	4
Select one of the following:		4
PHY 332 & PHY 333	Optics and Optics Lab	

PHY 340	Mechanics	
PHY 410	Thermodynamics	
<b>Total Credits</b> *		20

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# Political Science

Political Science is the study of power, justice, liberty, and order, whether locally, 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 Business and Political Science (p. 261). (See Multidisciplinary section)
- B.A. in International Relations (p. 264) (See Multidisciplinary section)
- B.A. in Political Science (p. 315)
- B.A. in Social Studies Education 5-12 (p. 266) (See Multidisciplinary section)
- Pre-Law Education (p.317) (See Pre-Law section)

## Minor in Political Science

- Political Science (p. 316)

**POS 100 • 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.*

**POS 202U • 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; GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall, spring*

**POS 205 • 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.*

**POS 211 • 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*

**POS 216L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). ; one completed PHI course recommended. Offered: Occasionally interim. Offered: Spring. Special Notes: Carries cross-credit in history.*

**POS 219L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally*

**POS 221L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally interim. Offered: Fall*

**POS 230L • 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: [GES 130 and GES 160] or GES 244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in religious studies.*

**POS 241L • 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: GES 130 and GES 160 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Interim. Special Notes: Carries cross-credit in history.*

**POS 250 • Political Science Practicum.** 1 Credit.

In consultation with the Political Science Department, students will select an off campus program of academic study. After the off campus study, students will create a presentation and share their experiences in a colloquium with other International Relations, Political Science, and Business and Political Science majors. The purpose of this course is to integrate off campus experiences with curricular learning experiences.

*Prerequisites: One POS course; consent of the Political Science department; Major in International Relations, Business and Political Sciences, Political Science, or minor in Political Science. Special Notes: Graded on anS/U basis. Offered: Spring.*

**POS 304 • Political Parties.** 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; POS 100 recommended. Offered: Fall, even # years.

**POS 305G • 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Spring, odd # years. Special Notes: Carries cross-credit in history.

**POS 306 • 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. POS 100 recommended. Offered: Spring. Special Notes: Carries cross-credit in business.

**POS 310 • 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. POS 100 or POS 202U recommended. Offered: Fall, even # years

**POS 313G • International Cooperation.** 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course] POS 202U or POS 310 recommended. Offered: Spring, even # years

**POS 315 • 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:* POS 202U. Offered: Spring, odd # years

**POS 317 • 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.

**POS 321 • 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 POS 100 or POS 211 before enrolling in this course.

**POS 324G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Special Notes: Carries cross-credit in history. Offered: Occasionally.

**POS 325 • 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, POS 100, or consent of instructor. Offered: Occasionally interim. Special Notes: Carries cross-credit in communication studies.

**POS 329 • 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: POS 202U or POS 205 recommended. Carries cross-credit in history.

**POS 330K • 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.

**POS 340 • 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: POS 100 or consent of instructor. Offered: Fall, even # years

**POS 342 • 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: POS 100 or consent of instructor. Offered: Spring, even # years

**POS 345 • 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

**POS 356 • 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 history.

**POS 360 • 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.*

**POS 410 • 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*

**POS 481 • 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*

**POS 499 • Senior Seminar.** 4 Credits.

Advanced research and analysis in selected problems and value questions in political science.

*Prerequisites: POS 211; 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 advisor in the Department of Political Science.

## B.A. in Political Science

Code	Title	Credits
<b>Major in Political Science (B.A.)</b>		
POS 211	The Political Quest	3
POS 499	Senior Seminar	4
Choose one of the following American politics and government courses:		3
POS 100	American Politics and Government	
POS 216L	American Constitutional History	
POS 219L	Public Leadership	
POS 230L	Politics and Religion in the United States	
POS 306	Public Administration	
POS 317	Political Psychology	
POS 325	Political Communication	
POS 330K	Science, Values, and the Making of Environmental Policy	
POS 340	American Political Institutions	
POS 342	American Public Policy	
Choose one of the following international relations courses:		3
POS 202U	Introduction to International Relations	
POS 305G	The Cold War	
POS 310	American Foreign Relations	
POS 313G	International Cooperation	
POS 315	The Politics of Terrorism and Counterterrorism	
POS 324G	Human Rights in International History	

Choose one of the following comparative politics courses:		3
POS 205	Introduction to Comparative Politics	
POS 241L	Revolution and Political Development	
POS 304	Political Parties	
POS 321	Contemporary Democracies	
POS 329	African Politics	
POS 356	Modern Middle East	
Choose one of the following political philosophy courses:		3-4
POS 221L	American Political Ideologies	
POS 345	Modern Political Thought	
POS 360	Classics in Western Political Philosophy	
Electives from political science courses		15
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		34-35
General Education		49-50
Electives		37-39
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Political Science

Code	Title	Credits
<b>Minor in Political Science</b>		
POS 211	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>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Pre-Law

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 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.

Code	Title	Credits
BUS 210	Financial Accounting	4
ECO 201	Principles of Economics	4
ENW 205A	Prose Studio <sup>1</sup>	4
HIS/POS 216L	American Constitutional History <sup>1</sup>	3
PHI 125M	Introduction to Logic <sup>1</sup>	3
POS 100	American Politics and Government	3
POS 324G	Human Rights in International History	3
POS 340	American Political Institutions	3

# Psychology

Psychology can be defined as the scientific study of behavior and mental processes. The courses in the Psychology 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 Christian faith. Psychology department courses interface with numerous other Bethel majors, including biology, business, nursing, biokinetics, philosophy, and many others. The Psychology Department also works with the Biological Sciences Department in running the neuroscience major. A Master of Arts in Counseling is offered through the graduate school. An Addiction Studies certificate can be obtained through dual enrollment with the College of Adult and Professional Studies.

The required senior capstone options provide an opportunity for students to gain hands-on experience, either with a 135 hour internship or independent research supervised by a faculty member. The seminar portion of the capstone provides more intensive time to interact with faith/psychology integration issues. The senior capstone experiences helps students to 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. 322)
- B.S. in Neuroscience (p. 269).(See Multidisciplinary section)

## Minor in Psychology

- Psychology (p. 324)

### **PSY 100 • Introduction to Psychology.** 3 Credits.

Methods, theories, and principal findings of psychological investigation.

*Offered: Fall, spring.*

### **PSY 130 • 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 PSY 130D is required. Offered: Spring. Special Notes: Carries cross-credit in Biology and Neuroscience.*

### **PSY 130D • Introduction to Neuroscience Lab.** 1 Credit.

Laboratory experience accompanying PSY 130.

*Corequisites: Concurrent registration in PSY 130 is required. Offered: Spring. Special Notes: Carries cross-credit in Biology and Neuroscience.*

### **PSY 203 • Lifespan Development.** 3 Credits.

Physical, cognitive, emotional, social, moral, and spiritual development from conception to death. Includes a consistent focus on individual differences.

*Prerequisites: PSY 100. Offered: Fall, spring. Special Notes: Students may not receive credit for PSY 203 if they receive credit for PSY 206.*

### **PSY 206 • 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: PSY 100. Offered: Fall. Special Notes: Students may not receive credit for both PSY 206 and PSY 203.*

**PSY 211 • 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: PSY 100. Offered: Spring*

**PSY 215 • 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: PSY 100. Offered: Fall, spring*

**PSY 230M • 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 PSY 230M and MAT 207M or HAS 250M.*

**PSY 300 • 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: PSY 100. Offered: Fall, Occasionally interim, Spring.*

**PSY 304 • 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 theory and application in forensic psychology.

*Prerequisites: An introductory social sciences course (PSY 100, SOC 101, or ANT 200U); a quantitative research course in the social sciences (PSY 230M or SOC 351); or consent of instructor. Offered: Fall, even # years.*

**PSY 305 • Personality.** 3 Credits.

Examination of traditional and contemporary theories of personality, with an emphasis on comparing and contrasting these theories. Explores non-western and Christian perspectives of the description and development of personality.

*Prerequisites: PSY 100. Offered: Spring*

**PSY 308G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Spring*

**PSY 310 • 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: PSY 100. Offered: Interim*

**PSY 313G • 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: [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. Offered: Fall*

**PSY 315 • 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.

*Prerequisites: PSY 100; junior or senior standing. Offered: Spring.*



**PSY 316 • 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: PSY 100 or one philosophy course. Offered: Occasionally. Special Notes: Carries cross-credit in philosophy.*

**PSY 317 • 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.*

**PSY 320Z • 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: PSY 100; Junior or senior standing; permission of instructors; timely completion of application process. Offered: Occasionally interim.*

**PSY 323 • Motivation and Emotion.** 4 Credits.

How biological, environmental, cognitive, emotional, and personal systems interact to initiate and direct human behavior. How experimental psychologists study emotional and motivational systems.

*Prerequisites: PSY 100; PSY 230M. Offered: Fall.*

**PSY 325G • 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: [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. Offered: Spring*

**PSY 330 • Disabilities and Giftedness.** 4 Credits.

Focus on the development of individuals with disabilities and giftedness from a lifespan perspective. Cognitive, physical, emotional, and sociocultural variables relevant to developmental delay; giftedness; learning disabilities; physical, sensory, and communication disabilities; emotional disturbance; and multiple disabilities. Critical analysis of psychosocial educational interventions. Service learning with those with disabilities.

*Prerequisites: EDU 240, PSY 203, PSY 206, or PSY 211; Junior standing. Offered: Fall.*

**PSY 335 • 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: PSY 100; PSY 230M. Offered: Spring*

**PSY 337K • 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, Occasionally spring. Special Notes: Carries cross-credit in computer science.*

**PSY 340 • Physiological Psychology.** 3 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: PSY 100; Mathematics (M) course. Corequisites: Registration in PSY 341 is required. Offered: Fall.*

**PSY 341 • Physiological Psychology Lab.** 1 Credit.

Laboratory experience accompanying PSY 340.

*Corequisites: Registration in PSY 340 is required. Offered: Fall.*

**PSY 346 • 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 PSY 100. Corequisites: Registration in PSY 347 is required. Special Notes: Carries cross-credit in biological sciences. Offered: Spring, odd # years.*

**PSY 347 • Animal Behavior Lab.** 1 Credit.

Laboratory course accompanying PSY 346.

*Corequisites: Registration in PSY 346 is required. Offered: Spring, odd # years. Special Notes: Carries cross-credit in biological sciences.*

**PSY 348 • Conditioning and Learning.** 3 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 experiences.

*Prerequisites: PSY 100; Mathematics (M) course. Corequisites: Registration in PSY 349 is required. Offered: Spring.*

**PSY 349 • Conditioning and Learning Lab.** 1 Credit.

Laboratory experience accompanying PSY 348.

*Prerequisites: PSY 100; Mathematics (M) course. Corequisites: Registration in PSY 348 is required. Offered: Spring.*

**PSY 350 • Cognitive Psychology.** 4 Credits.

Psychological theory and research concerning thinking, memory, reasoning, language, and problem solving. Includes laboratory experience.

*Prerequisites: PSY 100; PSY 230M. Offered: Spring*

**PSY 355 • 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 statistical construct validity.

*Prerequisites: PSY 100; PSY 230M. Offered: Fall, Spring.*

**PSY 357 • Research Seminar.** 3 Credits.

Students develop a research project with faculty supervision in preparation for independent research. Seminar format allows for in-depth analysis of contemporary issues in the field of psychological science, and students apply these issues to their personal projects.

*Prerequisites: PSY 100, PSY 230M, PSY 355, and consent of instructor Offered: Spring.*

**PSY 399 • Topics in Psychology.** 3 Credits.

Contemporary concerns in psychology not covered in the current formal course offerings of the department.

*Prerequisites: PSY 100. Offered: Occasionally*

**PSY 400 • 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: PSY 100; PSY 300 or PSY 305. Offered: Fall, spring*

**PSY 430 • Advanced Psychopathology.** 4 Credits.

Explores issues pertaining to the nature and occurrence of psychological disorders, including classification, cultural context, developmental considerations, etiology, and treatment. Critical evaluation of contemporary theory and research, including conceptualizations, methodologies, and statistical approaches.

*Prerequisites: PSY 300; PSY 355. Offered: Fall*

**PSY 440 • Sensation and Perception.** 3 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: PSY 100. Corequisites: Registration in PSY 441 is required. Offered: Spring, odd # years.*

**PSY 441 • Sensation and Perception Lab.** 1 Credit.

Laboratory experience accompanying PSY 440. Prerequisites: PSY 100. Corequisites: Registration in PSY 440 is required.

*Offered: Spring, odd # years.*

**PSY 481 • 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*

**PSY 493 • 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 with the Bethel faculty instructor. This structured experience will facilitate students' processing of their internship experiences and offer a forum for discussion of internship-related issues and self career exploration related issues.

*Prerequisites: Psychology major; Senior standing; minimum 2.25 GPA in psychology courses, 2.0 cumulative GPA. Offered: Spring, Summer*

**PSY 498 • 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; PSY 230M. Grade exceptions: Graded on an S/U basis. Offered: Fall, spring*

**PSY 499 • 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

Code	Title	Credits
<b>Major in Psychology (B.A.)</b>		
PSY 100	Introduction to Psychology	3
PSY 230M	Introduction to Statistical Methods and Experimental Design	4
PSY 355	Research Principles and Laboratory	4
Choose one of the following Developmental Psychology courses:		3
PSY 203	Lifespan Development	

PSY 206	Child and Adolescent Development	
PSY 211	Adult Development and Aging	
Choose one of the following History of Psychology courses:		3
PSY 315	History of Psychology	
PSY 316	Consciousness: Psychology and Philosophy in Dialogue	
PSY 320Z	European Pioneers in Psychology	
Choose one of the following Socio-cultural Bases of Behavior courses:		3
PSY 215	Social Psychology	
PSY 308G	Cross-Cultural Psychology	
PSY 313G	Families in Cross-cultural Perspective	
Choose one of the following Abnormal or Personality courses:		3
PSY 300	Abnormal Psychology	
PSY 305	Personality	
Choose two of the following Experimental Psychology courses:		8
PSY 323	Motivation and Emotion	
PSY 335	Tests and Measurement	
PSY 340/341	Physiological Psychology	
PSY 346/347	Animal Behavior	
PSY 348/349	Conditioning and Learning	
PSY 350	Cognitive Psychology	
PSY 430	Advanced Psychopathology	
PSY 440 & PSY 441	Sensation and Perception and Sensation and Perception Lab	
Choose One 4-Credit Elective: Choose from any of the above 4-credit Experimental Psychology courses or the following:		4
PSY 330	Disabilities and Giftedness	
PSY 400	Principles of Counseling and Psychotherapy	
Choose One 3- or 4-Credit Elective: Choose from any 3- or 4-credit courses above or the following:		3
PSY 304	Introduction to Forensic Psychology	
PSY 310	Addiction and Recovery	
PSY 317	Political Psychology	
PSY 325G	Psychology of Religion	
PSY 337K	Behavioral Robotics	
Choose one of the following capstone experiences:		7
PSY 493 & PSY 499	Psychology Internship and Seminar and Senior Seminar	
Or		
PSY 498 & PSY 357	Research and Research Seminar	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		45
General Education		49-50
Electives		27-28
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

No student may take more than eight credits in any combination of PSY 481, PSY 498, or a Directed Study in Psychology.

## Minor in Psychology

Code	Title	Credits
<b>Minor in Psychology</b>		
PSY 100	Introduction to Psychology	3
Choose one of the following:		3
PSY 203	Lifespan Development	
PSY 206	Child and Adolescent Development	
PSY 211	Adult Development and Aging	
Choose one of the following:		4
PSY 323	Motivation and Emotion	
PSY 330	Disabilities and Giftedness	
PSY 335	Tests and Measurement	
PSY 340/341	Physiological Psychology	
PSY 346/347	Animal Behavior	
PSY 348/349	Conditioning and Learning	
PSY 350	Cognitive Psychology	
PSY 400	Principles of Counseling and Psychotherapy	
PSY 430	Advanced Psychopathology	
PSY 440 & PSY 441	Sensation and Perception and Sensation and Perception Lab	
Electives from 200-level or above psychology courses (excluding PSY 481, PSY 498, and PSY 499)		9
<b>Total Credits</b> *		19

\* Courses whose number is followed by a letter fulfill a General Education requirement.

# 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. 326)

### REL 201 • 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.*

### REL 202 • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall or spring*

### REL 205U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall*

### REL 206UZ • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Occasionally interim*

### REL 212U • 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: GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Spring. Special Notes: Carries cross-credit in history.*

**REL 225L • 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:* BIB 101; GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently).

*Offered:* Occasionally

**REL 230L • 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:* GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). *Offered:* Interim.

*Special Notes:* Carries cross-credit in political science.

**REL 328G • 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:* [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. *Offered:* Interim. *Special Notes:* Carries cross-credit in history.

**REL 356 • Judaism.** 3 Credits.

Exploration of the diverse political, religious, and social expressions of Judaism through study of the significance of the Jewish liturgical year in original contexts, medieval and modern European contexts, and American contexts.

*Prerequisites:* [GES120; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. *Offered:* Occasionally

**REL 401 • 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:* BIB 101; THE 201. *Offered:* Occasionally. *Special Notes:* Carries cross-credit in biblical and theological studies.

## Minor in Religious Studies

Code	Title	Credits
<b>Minor in Religious Studies</b> <sup>1</sup>		
REL 202	Introduction to Religious Studies	3
REL 356	Judaism	3
Choose two of the following:		6
REL 205U	Religions of India, China and Japan	
REL 206UZ	Religious Traditions in Asia: Thailand	
REL 212U	History of Islam	
REL 225L	New Religious Movements	
Choose three of the following:		9
REL 201	Religion and Art in Asia	
REL 230L	Politics and Religion in the United States	
REL 328G	Muslim Women in History	
REL 401	Christianity and the World's Religions	
ENL 316GZ	Literature of Faith: Christianity and Islam	
GES 413P	Women's Spiritual Experience	

*Minor in Religious Studies* 327

PHI 230U	Medieval Islamic Philosophy
GES 447PZ	Muslims and Middle Easterners: Past, Present, and Personal
PHI 305G	Philosophy of Religion
PHI 375G	Asian Philosophy
PSY 325G	Psychology of Religion
SOC 372G	Religion in Society
<b>Total Credits</b> *	21

<sup>1</sup> Four of the seven courses required in this minor must be taken at Bethel.

\* Courses whose number is followed by a letter fulfill a General Education requirement.



# 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 SOW 331. 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 SOW 331 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. 333)

## Minor in Social Work

- Social Welfare Studies (p. 334)

## 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; as necessary, work to address any concerns identified in SAPP improvement plans.
  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. Corrective action plans related to the SAPP must be completed prior to candidacy review.
- B. The social work department gives written notification to the applicant concerning candidacy status.
- C. Students wishing to appeal decisions related to candidacy must follow the appeals process as established in the social work program manual.

## 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.)  
Corrective action plans related to the SAPP must be completed prior to full admission review. 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.

C. Students wishing to appeal decisions related to full admission to the Social Work program must follow the appeals process as established in the Social Work program manual.

### **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.

**SOW 200Z • 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*

**SOW 250 • 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: Spring.*

**SOW 304 • 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: SOW 200Z; major in Social Work. Offered: Fall.*

**SOW 305 • 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*

**SOW 307Z • 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.*

**SOW 308Z • 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.*

**SOW 313 • 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: SOW 200Z; major in social work. Offered: Fall*

**SOW 326 • Restorative Justice.** 3 Credits.

Examines and analyzes the philosophy and principles of restorative justice, including its historical and theological roots by comparing and contrasting retributive and restorative paradigms. Applications of restorative justice examined from the perspective of victim-offender dialogue and the use of restorative justice principles in offender reintegration.

*Prerequisites:* SOC 324. *Offered:* Spring, odd # years.

**SOW 327G • 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course]. *Offered:* Spring

**SOW 330 • 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:* SOW 200Z; consent of instructor; major in Social Work. *Corequisites:* Must be taken concurrently with SOW 304; SOW 313. *Offered:* Fall

**SOW 331 • 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:* SOW 304; SOW 313; SOW 330; major in social work; admission to the Social Work Program; admission to the Social Work Field Program. *Offered:* Spring

**SOW 351 • 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. PSY 230M recommended. *Offered:* Fall

**SOW 405 • Social Work Practice III.** 4 Credits.

Generalist social work theory applied to integrated practice within client systems. Emphasis is on families and groups and on the planned change process. Student development of a group work project and case study review promote application of critical thinking, research-informed practice and culture competence.

*Prerequisites:* SOW 200Z; SOW 304; SOW 313; SOW 330; SOW 331; admission to the Social Work program. *Offered:* Fall.

**SOW 431 • Conversations about End of Life.** 1 Credit.

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.

**SOW 432 • 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: Consent of instructor; Admission to the Social Work Program; admission to the Social Work Field Program. Corequisites: Must be taken concurrently with SOW 405. Offered: Fall.*

**SOW 433 • Social Work Field Instruction II.** 3 Credits.

A continuation of SOW 432. 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: SOW 432. Offered: Spring*

**SOW 434 • Social Work Field Instruction III.** 3 Credits.

A continuation of SOW 433. Time involvement must total a minimum of 135 hours in the field. Satisfactory progress in SOW 432/433/434 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: SOW 432. Corequisites: Must be taken concurrently with SOW 433; SOW 499. Offered: Spring*

**SOW 499 • 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: SOW 405; SOW 432. Corequisites: Must be taken concurrently with SOW 433/434. Offered: Spring*

## B.A. in Social Work

Code	Title	Credits
<b>Major in Social Work (B.A.)</b>		
SOW 200Z	Introduction to Social Work	4
SOW 250	Social Welfare History	3
SOW 304	Social Work Practice I	3
SOW 305	Social Policy Practice	4
SOW 313	Social Work Practice II	3
SOW 327G	Social Perspective, Human Worth, and Social Action	3
SOW 330	Social Work Field Experience I	2
SOW 331	Social Work Field Experience II	2
SOW 351	Methods of Applied Social Research	4
SOW 405	Social Work Practice III	4
SOW 432	Social Work Field Instruction I	3
SOW 433	Social Work Field Instruction II	3
SOW 434	Social Work Field Instruction III	3
SOW 499	Senior Integrative Seminar	3
BIO 104 & BIO 104D	Human Biology and Human Biology Lab	4
ECO 200	Economics of Public Policy Analysis	3
POS 100	American Politics and Government	3
PSY 100	Introduction to Psychology	3
PSY 203	Lifespan Development	3
SOC 101	Introduction to Sociology	3

Code	Title	Credits
Major *		63
General Education		49-50
Electives		9-10
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

Students planning on graduate school should choose or to satisfy the mathematics (M) course requirement.

## Minor in Social Welfare Studies

Code	Title	Credits
<b>Minor in Social Welfare Studies</b>		
SOW 200Z	Introduction to Social Work	4
SOW 250	Social Welfare History	3
SOW 305	Social Policy Practice	4
SOW 351	Methods of Applied Social Research	4
ECO 200	Economics of Public Policy Analysis	3
or POS 100	American Politics and Government	
Elective from introductory course in the social and behavioral sciences		3
<b>Total Credits</b> *		<b>21</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Sociology and Reconciliation Studies

The Department of Sociology and Reconciliation Studies offers majors and minors in sociology and reconciliation studies. We prepare 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.

Sociology 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 a sociological core, and applying these core understandings to such concerns as crime, poverty, and racism. The Sociology major uniquely offers two areas of concentration: urban studies and criminal justice.

Reconciliation Studies students critically engage with the centrality of Jesus, as a dimension of the Trinity, when they examine the biblical and theological basis for reconciliation. They learn how theories and practices from the social sciences, the humanities, and arts can inform their efforts to co-build relationships with communities and individuals in a diverse and conflict ridden world; they learn to participate in collaborative initiatives that tackle inequity, redress injustice, transform systems, and honor the human dignity of peoples through coursework and practical experiences (including a semester of study abroad that accommodates an internship position). These programs enable students to see the world from the viewpoint of the hurting, the despised, the oppressed, as they reflect on how their own experiences and histories shape their outlook and interactions with diverse peoples. The Reconciliation Studies major also introduces students to contemplative practices that can enrich their relationships with others and God as they co-partner with others to initiate social change for the common good.

## Majors in Sociology and Reconciliation Studies

- B.A. in Reconciliation Studies (p. 339)
- B.A. in Sociology (p. 340)

## Minors in Sociology and Reconciliation Studies

- Reconciliation Studies (p. 341)
- Sociology (p. 341)

### **ANT 200U • 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:* GES 130 or GES 244 (may be taken concurrently). *Offered:* Fall

### **SOC 101 • 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.

### **SOC 205 • Introduction to Global Social Problems.** 3 Credits.

Introduction to global awareness and citizenship. Analyzes social problems and challenges facing the world, including the United States, with a view to action. Emphasizes interaction between global and local issues, and how solutions require broad cooperation. Topics may include education, energy, gender, health, population, social class, technology, urbanization, and work.

*Prerequisites:* GES 160, [GES 130 or GES 244]. *Offered:* Interim, even # years.



**SOC 229U • 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:* GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). *Offered:* Interim

**SOC 242U • 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:* [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. *Offered:* Spring.

**SOC 280 • Urbanization.** 3 Credits.

Cross-cultural and comparative study of urban development, form, and heterogeneity in advanced industrial societies and countries of the Global South, Central, and Eastern Europe, and Eurasia. Examination of the rise of cities, their growth in the United States and worldwide, and their functions. Issues of housing, crime, gangs, governance, and other urban issues. Students visit various cities as part of course study.

*Offered:* Fall.

**SOC 304G • 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:* [GES 130; GES 160; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 244; World Cultures (U) course] POS 202U or POS 310 recommended. *Offered:* Fall, even # years

**SOC 315 • Social Responsibility in the Marketplace.** 3 Credits.

Explores the nature of the reciprocal relationship between businesses and society from a multi-disciplinary perspective. Examines contrasting ethical arguments in historical contexts about the role of business in society. Discusses how healthy relationships can be promoted between business and society for the benefit of both.

*Prerequisites:* [GES 130; World Cultures (U) course] or [GES 246; World Cultures (U) course]. *Offered:* Fall. *Special Notes:* Carries cross-credit in reconciliation studies.

**SOC 318G • 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:* [GES 130; Contemporary Western Life and Thought (L) course; World Cultures (U) course] or [GES 246; World Cultures (U) course]. *Offered:* Interim, odd # years

**SOC 324 • 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, even # years.

**SOC 326 • Restorative Justice.** 3 Credits.

Examines and analyzes the philosophy and principles of restorative justice, including its historical and theological roots by comparing and contrasting retributive and restorative paradigms. Applications of

restorative justice examined from the perspective of victim-offender dialogue and the use of restorative justice principles in offender reintegration.

*Prerequisites:* SOC 324. *Offered:* Spring, odd # years.

**SOC 328 • Criminal Law and Procedure in America.** 3 Credits.

Examines the structure, function, and principles of criminal law, includes the acts, mental states, and circumstances that are necessary elements of the crime and criminal defenses. Explores procedures from arrest to final disposition, with focus on exclusionary rules for the relevant constitutional amendments.

*Prerequisites:* SOC 304G or SOC 324. *Offered:* Fall, odd # years.

**SOC 330G • 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; .

*Prerequisites:* [GES 130; GES 160; *Contemporary Western Life and Thought (L) course*; *World Cultures (U) course*] or [GES 244; *World Cultures (U) course*]. *Offered:* Spring

**SOC 350 • 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

**SOC 351 • 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.

**SOC 361 • 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 course*. *Offered:* Fall.

**SOC 372G • 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:* [GES 130; GES 160; *Contemporary Western Life and Thought (L) course*; *World Cultures (U) course*] or [GES 244; *World Cultures (U) course*]. *Offered:* Spring, odd # years.

**SOC 381G • 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:* [GES 130; *Contemporary Western Life and Thought (L) course*; *World Cultures (U) course*] or [GES 246; *World Cultures (U) course*]. *Offered:* Fall

**SOC 385 • 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: SOC 385, SOC 387Z, or SOC389.*

**SOC 387Z • 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:* ANT 200U; 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: SOC 385, SOC 387Z, or SOC389.

**SOC 481 • Internship in Sociology.** 3-4 Credits.

A work-related, hands-on learning experience in an off-campus professional setting. Students are mentored by an experienced professional in the field, and overseen by a departmental faculty member.

*Prerequisites:* Major in sociology; junior or senior standing.

**SOC 499 • 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: SOC 350, SOC 351, SOC 361; Senior standing. *Offered:* Spring.

**RES 201 • 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.

**RES 207U • Fannie Lou Hamer, 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:* GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). *Offered:* Fall, Spring.

**RES 215L • European American Experiences, Whiteness, and Reconciliation.** 3 Credits.

Explores how family history and upbringing influence understanding of whiteness. Since ideological constructions of whiteness are linked to various injustices confronting people of color, students will wrestle with how to adopt practices within the spirit of reconciliation that break down walls of division for the greater good.

*Prerequisites:* Sophomore standing. *Offered:* Fall.

**RES 220A • Hip-Hop, The Spoken Word, and Reconciliation.** 3 Credits.

Engages Hip-Hop and the spoken word as our modern-day Psalms: raw, uncompromising, challenging, confrontational, and confessional. Explores how a conversation among Hip-Hop, the spoken word, and biblical stories cultivate a relationship with God as transparent as the Psalms and Jesus' own relationship with his Father.

*Prerequisites:* Sophomore standing. *Offered:* Spring.

**RES 305 • 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:* RES 201. *Offered:* Fall, spring

**RES 320 • The Power of Story and Reconciliation.** 3 Credits.

Explores complex stories that can nurture cultural humility and empathy. Includes readings of creative and biblical narratives with emphasis on listening deeply to others' experiences. Confronts a world divided by difference and explores how stories can foster understanding between peoples.

*Prerequisites:* Sophomore standing. *Offered:* Fall.

**RES 340Z • 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:* Junior or Senior Standing or permission of the instructor. *Offered:* Spring.

**RES 481 • Internship in Reconciliation Studies.** 3-4 Credits.

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

*Prerequisites:* RES 201; major in reconciliation studies; junior or senior standing. *Offered:* Spring

**RES 499 • 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.

*Prerequisites:* RES 201; Senior standing. *Offered:* Fall.

## B.A. in Reconciliation Studies

Code	Title	Credits
<b>Major in Reconciliation Studies (B.A.)</b>		
RES 201	Introduction to Reconciliation Studies	3
RES 305	Conflict Resolution and Mediation Skills	3
RES 340Z	Principles and Methods of Intercultural Leadership	4
RES 499	Senior Seminar in Reconciliation Studies	4
THE 326G	Christian Theology in Africa, Asia, and Latin America	3
Choose one of the following research methods courses:		4
SOC 350	Qualitative Research Methods	
SOC 351	Quantitative Research Methods	
Choose one of the following identity, systems & reconciliation courses:		3
ECO 225L	The Redevelopment of Central City Neighborhoods	
PHI 223L	Introduction to Gender Studies	
PSY 215	Social Psychology	
HIS/POS 356	Modern Middle East	
Choose one of the following race and reconciliation courses:		3
RES 207U	Fannie Lou Hamer, Martin Luther King Jr., Malcolm X, and Our Multicultural World	
RES 215L	European American Experiences, Whiteness, and Reconciliation	
GES 450P	Reconciliation in a Racialized Society	
Choose one of the following arts and reconciliation courses:		3
RES 220A	Hip-Hop, The Spoken Word, and Reconciliation	
RES 320	The Power of Story and Reconciliation	
Choose one of the following off-campus program options:		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)

Creation Care Study Program in Kaikoura, New Zealand (fall, spring - 14-16 credits)

New Zealand is Culture and the Environment: A Shared Future (fall, spring 16 credits)

Code	Title	Credits
Major *		44-46
General Education		49-50
Electives		26-29
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Sociology

Code	Title	Credits
SOC 101	Introduction to Sociology	3
SOC 205	Introduction to Global Social Problems	3
SOC 242U	Race, Ethnicity, and Peacemaking	3
SOC 350	Qualitative Research Methods	4
SOC 351	Quantitative Research Methods	4
SOC 361	Sociocultural Theory	4
SOC 372G	Religion in Society	3
SOC 481	Internship in Sociology	3-4
SOC 499	Senior Seminar	4

Code	Title	Credits
Major *		31-32
Chosen Emphasis		12
General Education		49-50
Electives		28-30
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Criminal Justice Emphasis (12 credits)

Code	Title	Credits
SOC 304G	Sociology of Crime and Deviance	3
SOC 324	Criminal Justice in American Society	3
SOC 326	Restorative Justice	3
SOC 328	Criminal Law and Procedure in America	3
<b>Total Credits</b>		<b>12</b>

## Urban Studies Emphasis (12 credits)

Code	Title	Credits
SOC 229U or SOC 318G	Interaction with Urban Life and Systems The Urban Church	3
SOC 280	Urbanization	3
SOC 381G	Urbanism: A Way of Life	3
ECO 225L	The Redevelopment of Central City Neighborhoods	3
<b>Total Credits</b>		<b>12</b>

## Minor in Reconciliation Studies

Code	Title	Credits
<b>Minor in Reconciliation Studies</b>		
RES 201	Introduction to Reconciliation Studies	3
RES 305	Conflict Resolution and Mediation Skills	3
RES 320	The Power of Story and Reconciliation	3
Choose one of the following race and reconciliation courses:		3
BIB 308J	Biblical Theology of Reconciliation	
RES 207U	Fannie Lou Hamer, Martin Luther King Jr., Malcolm X, and Our Multicultural World	
PHI 220L	Philosophies of Race and Gender in America	
Choose one of the following culture and reconciliation courses:		3
RES 340Z	Principles and Methods of Intercultural Leadership	
PSY 308G	Cross-Cultural Psychology	
HIS/POS 356	Modern Middle East	
Choose one of the following systems and reconciliation courses:		3
BIB 309J	A Biblical Theology of Poverty	
HIS 245L	History of Women in America	
SOW 327G	Social Perspective, Human Worth, and Social Action	
<b>Total Credits *</b>		<b>18</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Minor in Sociology

Code	Title	Credits
<b>Minor in Sociology</b>		
SOC 101	Introduction to Sociology	3
SOC 205	Introduction to Global Social Problems	3
SOC 361	Sociocultural Theory	4
Choose one of the following Research Methods courses		4
SOC 350	Qualitative Research Methods	
SOC 351	Quantitative Research Methods	
Choose three Sociology courses		9
<b>Total Credits</b>		<b>23</b>

## 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.

Major in Theatre Arts

- B.A. in Theatre Arts (p. 344)

## Minor in Theatre Arts

- Theatre Arts (p. 346)

### **THA 100A • Beginning Acting.** 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.*

### **THA 120A • Projects in Performance.** 1 Credit.

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*

### **THA 195 • Theatre Hour.** 0 Credit.

Attendance of two performances at an area theatre and discussion of topics of significance to theatre artists.

*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.*

### **THA 202A • Producing and Performing a Musical: Into the Woods.** 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*

### **THA 212A • Voice Production.** 3 Credits.

A group-intensive laboratory designed to explore 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: Sophomore standing. Offered: Fall 2019.*

### **THA 214 • 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: Consent of instructor. Offered: Spring.*

**THA 220 • Projects in Performance.** 1 Credit.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Casting in a production or consent of department. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years. Offered: Fall, Interim, Spring.*

**THA 240 • Stagecraft.** 3 Credits.

Techniques used to mount a theatre production through developing and adapting the skills and creative capabilities inherent in each student. Set construction, painting and dyeing, makeup, and lighting techniques.

*Prerequisites: GES 125 or GES 147. Offered: Spring, odd # years.*

**THA 279 • 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.*

**THA 291L • 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: GES 160; GES 130 or GES 244 (may be taken concurrently). Offered: Spring, even # years.*

**THA 302 • Producing and Performing a Musical: Into the Woods.** 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; THA 202A. Offered: Interim, odd # years*

**THA 310 • 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: GES 125 or GES 147; Sophomore standing. Offered: Occasionally.*

**THA 311 • Stage Dialects.** 3 Credits.

A group-intensive laboratory designed to 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: THA 100A or consent of instructor; Sophomore standing. Offered: Fall 2018.*

**THA 313 • Auditioning and Acting for the Camera.** 3 Credits.

A group intensive laboratory designed to explore 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: Sophomore standing. Offered: Spring, even # years.*

**THA 315 • Performing Shakespeare.** 3 Credits.

The art of performing and acting Shakespeare. Basic key skills such as scansion and antithesis, and performance techniques needed to analyze and interpret Shakespearean text for performance. Group lab experiences and work with Shakespearean scenes and monologues.

*Prerequisites: ENL 303 or ENL 321 or THA 350. Offered: Spring, odd # years.*

**THA 320 • Projects in Performance.** 1 Credit.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Casting in a production or consent of department. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years. Offered: Fall, Interim, Spring, odd # years.*



**THA 330 • 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*

**THA 350 • Advanced Acting.** 3 Credits.

Advanced work in scene study, character analysis, and individual performance skills.

*Prerequisites: THA 100A. Offered: Fall, even # years*

**THA 360 • 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: THA 100A or THA 202A; or Consent of instructor; Sophomore standing. Offered: Spring, even # years.*

**THA 405 • 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: THA 350 or consent of instructor. Offered: Fall, even # years.*

**THA 410 • Theatrical Styles.** 4 Credits.

Advanced study of various theatrical styles (Greek, Neoclassic, Commedia, Antirealism, Experimental) from an acting/directing perspective. Analysis of acting and directing theories and workshop exercises.

*Prerequisites: THA 405; THA 350 or THA 360. Offered: Spring, odd # years.*

**THA 420 • Projects in Performance.** 1 Credit.

An individual project in acting, stage-managing, or design to be done in conjunction with the theatre productions being performed during current semester.

*Prerequisites: Casting in a production or consent of department. Special Notes: Maximum of 1 credit per area, per semester and 4 credits per four years. Offered: Fall, Spring, Interim odd # years.*

**THA 481 • 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*

**THA 490 • 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

Code	Title	Credits
<b>Major in Theatre (B.A.)</b>		
<b>Theatre Core</b>		
THA 100A	Beginning Acting	3
THA 195	Theatre Hour	0
THA 212A	Voice Production	3
THA 240	Stagecraft	3
THA 279	Theatre and Culture: Classical to Modern	4
THA 291L	Theatre in the Modern Age	3

THA 315	Performing Shakespeare	3
THA 350	Advanced Acting	3
THA 405	Directing	4
THA 410	Theatrical Styles	4
THA 481	Internship in Theatre	3-4
or THA 490	Theatre Practicum	
PEA 114QA	Jazz Dance	2
PEA 115QA	Ballet	2

Code	Title	Credits
Major *		37-38
Chosen Emphasis		12-13
General Education		49-50
Electives		21-24
<b>Total Credits</b>		<b>122</b>

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## Acting/Directing Emphasis (12 credits)

Code	Title	Credits
THA 214	Stage Combat	3
THA 313	Auditioning and Acting for the Camera	3
Choose two courses from theatre:		6
THA 311	Stage Dialects	
THA 330	Topics in Theatre Arts	
THA 360	Musical Theatre	
<b>Total Credits</b>		<b>12</b>

Additional Requirement: Acting/ Directing students must participate in a minimum of six Theatre productions.

## Musical Theatre Emphasis (13 credits)

Code	Title	Credits
THA 202A	Producing and Performing a Musical: Into the Woods <sup>1</sup>	3
THA 311	Stage Dialects	3
or THA 214	Stage Combat	
or THA 330	Topics in Theatre Arts	
THA 360	Musical Theatre	3
MUL 143A	Introduction to Keyboard Theory <sup>1</sup>	1
MUS 101	Music Fundamentals	1
MUS 103	Introduction to Music Literature	2
<b>Total Credits</b>		<b>13</b>

Additional Requirement: Musical Theatre students must participate in a minimum of six Theatre productions and are encouraged to take voice lessons.

# Minor in Theatre Arts

Code	Title	Credits
<b>Minor in Theatre Arts</b>		
THA 100A	Beginning Acting	3
THA 240	Stagecraft	3
THA 291L	Theatre in the Modern Age	3
Choose two of the following:		6-7
THA 212A	Voice Production	
THA 315	Performing Shakespeare	
THA 330	Topics in Theatre Arts (Theatre for Youth and Children or Playwriting)	
THA 330	Topics in Theatre Arts (Theatre Entrepreneurship)	
THA 350	Advanced Acting	
THA 360	Musical Theatre	
THA 405	Directing	
Choose one or two of the following:		1-4
THA 202A	Producing and Performing a Musical: Into the Woods	
THA 220/320/420	Projects in Performance	
<b>Total Credits *</b>		<b>16-20</b>

\* Courses whose number is followed by a letter fulfill 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.

## Business Track

Code	Title	Credits
THA 212A	Voice Production	3
THA 405	Directing	4
Total Credits		7

## Education Track: Communication Arts and Literature

Code	Title	Credits
THA 315	Performing Shakespeare	3
THA 350	Advanced Acting	3
THA 405	Directing	4
Total Credits		10

## Education Track: K-12

Code	Title	Credits
THA 330	Topics in Theatre Arts	3
THA 405	Directing	4
Total Credits		7

**Healthcare Track**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
THA 350	Advanced Acting	3
THA 405	Directing	4
Total Credits		7

**Music Track**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
THA 212A	Voice Production	3
THA 360	Musical Theatre	3
Total Credits		6

## World Languages and Cultures

The Department of World Languages and Cultures 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: spanish) and Teaching English as a Second Language K-12 (TESL). Programs in the Department of World Languages and Cultures 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 World Languages and Cultures 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 (p. 60)) or students may work with the Office of Off-Campus Programs and the World Languages and Cultures 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).

- 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. 353)
- B.A. in Spanish (p. 355)
- B.A. in Spanish Education K-12 (Licensure in World Languages: Spanish) (p. 356)
- B.A. in Teaching English and a Foreign Language (TEFL) (p. 357)
- B.A. in Teaching English as a Second Language (TESL) K-12 (p. 359)

## Minors in Modern World Languages

- Linguistics (p. 368)
- Spanish (p. 361)
- Teaching English to Speakers of Other Languages (TESOL) (p. 362)

### **ASL 101 • 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.*

### **ASL 102S • 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: ASL 101 or placement exam. Offered: Fall, spring*

### **CHI 101 • 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 communication in Mandarin Chinese.

*Offered: Fall.*

### **CHI 102S • 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: CHI 101 or placement exam. Offered: Spring*

### **CHI 201 • 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: CHI 102S or placement exam. Offered: Occasionally*

### **FRE 101 • 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*

**FRE 102S • 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: FRE 101 or placement exam. Offered: Spring*

**LIN 210Z • 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.*

**LIN 300 • 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.*

**SPA 101 • 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*

**SPA 102S • 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: SPA 101 or placement exam. Offered: Fall, spring*

**SPA 120A • 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.*

**SPA 201 • 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: SPA 102S or placement exam. Offered: Fall, spring. Special Notes: Students may not receive credit for both SPA 201 and SPA 203.*

**SPA 202UZ • 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: SPA 201 or placement exam; GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently). Offered: Fall, spring. Special Notes: Students may not receive credit for both SPA 202UZ and SPA 204.*

**SPA 203 • 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: SPA 102S or placement exam. Offered: Spring. Special Notes: Students may not receive credit for both SPA 203 and SPA 201.*

**SPA 204 • 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: SPA 201, SPA 203, or placement exam. Offered: Spring. Special Notes: Students may not receive credit for both SPA 204 and SPA 202UZ.*

**SPA 208 • 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:* SPA 201, SPA 203, or placement exam. *Offered:* Occasionally

**SPA 228 • 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 World Languages and Cultures. *Grade exceptions:* Graded on an S/U bases. *Offered:* Interim, by arrangement. *Special Notes:* Program must be approved by the Department of World Languages and Cultures in advance. *Enrollment is limited.*

**SPA 290 • 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:* SPA 202UZ, SPA 204, SPA 208, or placement exam. *Offered:* Fall, spring

**SPA 291 • 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:* SPA 202UZ, SPA 204, SPA 208, or placement exam. *Offered:* Spring

**SPA 292 • 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:* SPA 202UZ or SPA 208. *Offered:* Fall

**SPA 300 • Introduction to Hispanic Literature.** 4 Credits.

Readings in novels, essays, short stories, poetry, newspapers, and magazines from Latin America and Spain.

*Prerequisites:* SPA 290, SPA 291 (may be taken concurrently) or SPA 292 (may be taken concurrently). *Offered:* Fall (Spain Term) and Spring (Guatemala Term). *Special Notes:* Students may not receive credit for both SPA 300 and SPA 305.

**SPA 301U • 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:* GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently); SPA 290, SPA 291, or SPA 292. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA 301U and SPA 302U.

**SPA 302U • 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:* GES 130 (may be taken concurrently) or GES 244 (may be taken concurrently); SPA 290 or SPA 291 (may be taken concurrently), or placement exam. *Offered:* Spring. *Special Notes:* Students may not receive credit for both SPA 302U and SPA 301U.

**SPA 303U • 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:* GES 130 or GES 244 (may be taken concurrently), SPA 290, SPA 292 (May be taken concurrently), or consent of instructor. *Offered:* Fall.



**SPA 305 • Readings from Latin America and Spain.** 3 Credits.

Readings in novels, essays, short stories, and poetry from Latin America and Spain.

*Prerequisites: SPA 290, SPA 291, or SPA 292. Offered: Fall. Special Notes: Students may not receive credit for both SPA 305 and SPA 300.*

**SPA 308 • 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: SPA 300 (may be taken concurrently) or SPA 305. Offered: Spring*

**SPA 312 • Contemporary Literature.** 4 Credits.

Prose and poetry from selected contemporary Latin American and Spanish authors.

*Prerequisites: SPA 300 or SPA 305. Offered: Fall, even # years*

**SPA 313 • Classical Literature.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites: SPA 300 or SPA 305. Offered: Fall, odd # years*

**SPA 316 • 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: SPA 305 or concurrent enrollment in SPA 300. Offered: Fall*

**SPA 317 • Advanced Communication in Spain.** 4 Credits.

Further development of communicative ability in Spanish, including reading, writing, listening, and conversational skills. Students write compositions, participate in discussions, have conversational exchanges with Spanish university students, give presentations, and read short essays.

*Prerequisites: SPA 301U or SPA 303U (May be taken concurrently), or consent of instructor. Offered: Fall*

**SPA 318 • Classical Literature in Spain.** 4 Credits.

Prose and poetry from the classical literature of Spain.

*Prerequisites: SPA 305 or concurrent enrollment in SPA 300. Offered: Fall. Special Notes: Students may not receive credit for both SPA 318 and SPA 313.*

**SPA 322 • Advanced Spanish Communication.** 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: SPA 301U, SPA 302U, or SPA 303U. Offered: Spring.*

**SPA 323 • 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: SPA 301U, SPA 302U, or SPA 303U (may be taken concurrently). Offered: Spring*

**SPA 327 • 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: SPA 202UZ. (Carries cross-credit in business.) Offered: Fall. Special Notes: The class is taught and assignments are completed in Spanish.*

**SPA 481 • 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 World Languages and Cultures.

*Prerequisites: Spanish major or minor, or enrollment in Spain or Guatemala Term. Offered: Fall, interim, spring, summer*

**SPA 499 • 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*

**TEL 230 • 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.*

**TEL 240 • TESOL Practicum Abroad.** 1 Credit.

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: LIN 210Z; consent of the Department of World Languages and Cultures. Grade exceptions: Graded on an S/U basis. Offered: By arrangement*

**TEL 301 • 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: LIN 210Z or LIN 300. Offered: Spring, odd # years*

**TEL 305 • 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 including using authentic materials, creating meaningful communicative activities, and teaching with Total Physical Response (TPR) and Total Proficiency Through Reading and Storytelling (TPRS). Students create lesson plans and practice teaching with these strategies.

*Offered: Fall.*

**TEL 320 • 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: LIN 210Z. Offered: Spring. Special Notes: Can be taken concurrently with EDU 400.*

**TEL 481 • 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

Code	Title	Credits
<b>Major in Linguistics (B.A.)</b>		
<b>Courses at Bethel</b>		
LIN 210Z	Introduction to Second Language Acquisition	3
LIN 300	Introduction to Linguistics	3
ANT 200U	Introduction to Anthropology	3
SOC 350	Qualitative Research Methods	4

Choose 5-6 from the following World Languages courses: <sup>2</sup>		19-20
ASL 101	Introductory American Sign Language I	
ASL 102S	Introductory American Sign Language II	
CHI 101	Introductory Chinese I	
CHI 102S	Introductory Chinese II	
FRE 101	Introductory French I	
FRE 102S	Introductory French II	
GRK 101	Introductory Biblical Greek I	
GRK 102S	Introductory Biblical Greek II	
GRK 253	Readings in New Testament Greek	
HEB 101	Introductory Biblical Hebrew I	
HEB 102S	Introductory Biblical Hebrew II	
LAT 101	Introductory Latin I	
LAT 102S	Introductory Latin II	
SPA 101	Introductory Spanish I	
SPA 102S	Introductory Spanish II	
SPA 201	Intermediate Spanish I	

**Courses at SIL-UND**

Courses taken first summer at SIL-UND <sup>1</sup>		
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

Code	Title	Credits
Major *		51-52
General Education		49-50
Electives		20-22
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> Students attend classes at SIL-UND in Grand Forks, N.D., during the summers after their sophomore and junior years at Bethel University.

<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.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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 at Bethel and two summers at SIL-UND in Grand Forks, N.D.

## B.A. in Spanish

Code	Title	Credits
<b>Major in Spanish (B.A.)</b>		
Choose one from intermediate Spanish I courses:		3-4
SPA 201	Intermediate Spanish I	
SPA 203	Intensive Intermediate Spanish I in Guatemala	
Choose one from intermediate Spanish II courses:		3-4
SPA 202UZ	Intermediate Spanish II	
SPA 204	Intensive Intermediate Spanish II in Guatemala	
SPA 208	Spanish for Health Professionals	
Choose one from history courses in Spanish:		3-4
SPA 290	Ibero-American History	
SPA 291	Ibero-American History in Guatemala	
SPA 292	Ibero-American History in Spain	
Choose one from culture courses in Spanish:		4
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
Choose one from advanced Spanish language courses:		4
SPA 317	Advanced Communication in Spain	
SPA 322	Advanced Spanish Communication	
SPA 323	Advanced Spanish Communication in Guatemala	
Choose one from introductory literature courses in Spanish:		3-4
SPA 300	Introduction to Hispanic Literature	
SPA 305	Readings from Latin America and Spain	
Choose two from literature and current events in Spanish:		7-8
SPA 308	Current Issues in Guatemala	
SPA 312	Contemporary Literature	
SPA 313	Classical Literature	
SPA 316	Modern Spain: An Examination of Ethics - Spain	
SPA 318	Classical Literature in Spain	
SPA 327	Marketing and Management in Spain	
Choose one from Spanish elective courses: <sup>1</sup>		3
SPA 120A	Photography in Spain	
Electives from Spanish courses at 200-level or above <sup>1</sup>		
Select from related areas of study:		3-4
LIN 210Z	Introduction to Second Language Acquisition	
LIN 300	Introduction to Linguistics	
SOC 330G	Sociology of Third World Development	
SPA 481	Internship in Spanish	
SPA 499	Senior Seminar	4
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		37-43
General Education		49-50

Electives	29-36
<b>Total Credits</b>	<b>122</b>

<sup>1</sup> SPA 202UZ, SPA 203, or SPA 204 may not be used to fulfill the Spanish elective course requirements.

\* Courses whose number is followed by a letter fulfill a General Education 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 World Languages and Cultures.

## B.A. in Spanish Education K-12 (Licensure in World Languages: Spanish)

Code	Title	Credits
<b>Major in Spanish Education K-12 (Licensure in World Languages: Spanish (B.A.))</b>		
Choose one from intermediate Spanish I courses:		3-4
SPA 201	Intermediate Spanish I	
SPA 203	Intensive Intermediate Spanish I in Guatemala	
Choose one from intermediate Spanish II course:		4
SPA 202UZ	Intermediate Spanish II	
SPA 204	Intensive Intermediate Spanish II in Guatemala	
Choose one from history courses in Spanish:		3-4
SPA 290	Ibero-American History	
SPA 291	Ibero-American History in Guatemala	
SPA 292	Ibero-American History in Spain	
Choose one from culture courses on Spanish:		4
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
Choose one from advanced Spanish language courses:		4
SPA 317	Advanced Communication in Spain	
SPA 322	Advanced Spanish Communication	
SPA 323	Advanced Spanish Communication in Guatemala	
Choose one from introductory literature courses in Spanish:		3-4
SPA 300	Introduction to Hispanic Literature	
SPA 305	Readings from Latin America and Spain	
Choose two literature and current event courses in Spanish:		8
SPA 308	Current Issues in Guatemala	
SPA 312	Contemporary Literature	
SPA 313	Classical Literature	
SPA 316	Modern Spain: An Examination of Ethics - Spain	
SPA 318	Classical Literature in Spain	
Choose two from Spanish electives:		6
SPA 120A	Photography in Spain	

Spanish elective courses at 200-level or above <sup>2</sup>

LIN 210Z	Introduction to Second Language Acquisition	3
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 426	Methods in Teaching K-12 World Languages and Cultures	3
EDU 427	Middle Level Education Practicum in World Languages and Cultures	1
EDU 490	Student Teaching Block <sup>1</sup>	14

Code	Title	Credits
Major *		74-77
General Education		49-50
<b>Total Credits</b>		<b>124-126</b>

<sup>1</sup> In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.

<sup>2</sup> SPA 202UZ, SPA 203, or SPA 204 may not be used to fulfill the Spanish elective course requirement.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

Additional requirements for a major in Spanish Education K-12 (Licensure in World Languages: 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 World Languages and Cultures.

Students seeking licensure in the state of Minnesota to teach Spanish K-12 (Licensure in World Languages: Spanish) 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)

Code	Title	Credits
<b>Major in Teaching English as a Foreign Language (TEFL)</b>		
LIN 210Z	Introduction to Second Language Acquisition	3
LIN 300	Introduction to Linguistics	3
TEL 240	TESOL Practicum Abroad	1

*B.A. in Teaching English as a Foreign Language (TEFL) 358*

TEL 301	Analysis of the English Language	3
TEL 305	Teaching Language Skills for Second Language Learners	3
TEL 320	Curriculum Development and Assessment	3
TEL 481	Internship in TESL/TEFL	3-4
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 240	Educational Psychology	3
EDU 241	Educational Psychology Field Experience	1
EDU 317GZ	Educational Equity	3
EDU 426	Methods in Teaching K-12 World Languages and Cultures	3
A world language <sup>2</sup>		10
Choose three from TESOL Area Elective courses: <sup>1</sup>		9
HIS 204U	African Civilizations	
HIS 205U	History of China, Japan, and Korea	
HIS 206U	History of India and Its Neighbors	
HIS 207U	Latin American Civilizations	
HIS 212U	History of Islam	
HIS 217UZ	Hispanic Christianity	
HIS 354	Modern Europe	
PHI 375G	Asian Philosophy	
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
Choose one from TESOL Cross-cultural elective courses:		3-4
COM 355Z	Intercultural Communication	
HIS 210U	Minorities in America	
POS 202U	Introduction to International Relations	
PSY 308G	Cross-Cultural Psychology	
REL 205U	Religions of India, China and Japan	
SOC 330G	Sociology of Third World Development	
SOC 387Z	Cross Cultural Experience	
SPA 481	Internship in Spanish	
THE 401	Christianity and the World's Religions	

Code	Title	Credits
Major *		55-57
General Education		49-50
Electives		15-18
<b>Total Credits</b>		<b>122</b>

<sup>1</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>2</sup> TEFL majors who are non-native speakers of English must reach an advanced proficiency level in English.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

## B.A. in Teaching English as a Second Language (TESL) K-12

Code	Title	Credits
<b>Major in Teaching English as a Second Language (TESL) K-12 (B.A.)</b>		
LIN 210Z	Introduction to Second Language Acquisition	3
LIN 300	Introduction to Linguistics	3
TEL 240	TESOL Practicum Abroad	1
TEL 301	Analysis of the English Language	3
TEL 305	Teaching Language Skills for Second Language Learners	3
TEL 320	Curriculum Development and Assessment	3
EDU 200	Introduction to Education	3
EDU 201	Introduction to Education Field Experience	1
EDU 203	School Health and Drugs	2
EDU 220	Introduction to Middle Level Education	3
EDU 240	Educational Psychology	3
EDU 272	Language and Literacy Development for Young Learners (K-3)	5
EDU 273	Primary Grade Practicum	1
EDU 317GZ	Educational Equity	3
EDU 320	Pedagogy and the Young Adolescent Learner	1
EDU 321	Integrated Literacy in the Content Areas	1
EDU 400	Methods in Teaching K-12 English to Speakers of Other Languages	3
EDU 401	Middle Level Education Practicum in TESL	1
EDU 490	Student Teaching Block <sup>1</sup>	14
A world language <sup>2</sup>		7-8
Choose two from TESL Area Elective courses: <sup>3</sup>		6
HIS 204U	African Civilizations	
HIS 205U	History of China, Japan, and Korea	
HIS 206U	History of India and Its Neighbors	
HIS 207U	Latin American Civilizations	
HIS 212U	History of Islam	
HIS 217UZ	Hispanic Christianity	
HIS 354	Modern Europe	
PHI 375G	Asian Philosophy	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
Choose one from cross-cultural elective courses:		3
COM 355Z	Intercultural Communication	
HIS 210U	Minorities in America	
POS 202U	Introduction to International Relations	
PSY 308G	Cross-Cultural Psychology	
REL 205U	Religions of India, China and Japan	
SOC 330G	Sociology of Third World Development	
SOC 387Z	Cross Cultural Experience	



SPA 481	Internship in Spanish	
THE 401	Christianity and the World's Religions	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major *		73-74
General Education		49-50
<b>Total Credits</b>		<b>123</b>

- 1 In order to meet requirements for endorsements and dual majors this number is subject to change. Students should consult with their advisor.
  - 2 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).
  - 3 TESL majors who are non-native speakers of English must reach an advanced proficiency level in English.
- \* Courses whose number is followed by a letter fulfill a General Education requirement.

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

Code	Title	Credits
<b>Minor in Linguistics</b>		
LIN 210Z	Introduction to Second Language Acquisition	3
LIN 300	Introduction to Linguistics	3
Select two courses from World Languages:		6-8
ASL 101	Introductory American Sign Language I	
ASL 102S	Introductory American Sign Language II	
CHI 101	Introductory Chinese I	
CHI 102S	Introductory Chinese II	
FRE 101	Introductory French I	
FRE 102S	Introductory French II	
GRK 101	Introductory Biblical Greek I	
GRK 102S	Introductory Biblical Greek II	
HEB 101	Introductory Biblical Hebrew I	
HEB 102S	Introductory Biblical Hebrew II	
LAT 101	Introductory Latin I	
LAT 102S	Introductory Latin II	
SPA 101	Introductory Spanish I	
SPA 102S	Introductory Spanish II	
<b>Courses at SIL-UND</b>		
LING 450	Articulatory Phonetics	2
LING452	Syntax and Morphology I	3
LING470	Introduction to Sociolinguistics	2

LING480	Learner-Directed Second Language Acquisition	3
<b>Total Credits*</b>		22-24

<sup>1</sup> Courses whose number is followed by a letter fulfill 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

Code	Title	Credits
<b>Minor in Spanish</b>		
Choose one from Intermediate Spanish I courses:		3-4
SPA 201	Intermediate Spanish I	
SPA 203	Intensive Intermediate Spanish I in Guatemala	
Choose one of the following intermediate Spanish II courses:		3-4
SPA 202UZ	Intermediate Spanish II	
SPA 204	Intensive Intermediate Spanish II in Guatemala	
SPA 208	Spanish for Health Professionals	
Choose one of the following:		3-4
SPA 290	Ibero-American History	
SPA 291	Ibero-American History in Guatemala	
SPA 292	Ibero-American History in Spain	
Choose one from history courses in Spanish:		4
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
SPA 300	Introduction to Hispanic Literature	3-4
or SPA 305	Readings from Latin America and Spain	
Choose from the following: <sup>1</sup>		6
Electives from Spanish courses at 200-level or above		
BUS/SPA 327	Marketing and Management in Spain	
EDU 204UZ	Teaching and Learning in Guadalajara	
EDU 426	Methods in Teaching K-12 World Languages and Cultures	
LIN 210Z	Introduction to Second Language Acquisition	
SOC 330G	Sociology of Third World Development	
SPA 120A	Photography in Spain	
<b>Total Credits*</b>		22-26

<sup>1</sup> Only one course chosen may carry the EDU, LIN, or SOC designation.

\* Courses whose number is followed by a letter fulfill a General Education requirement.

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)

Code	Title	Credits
<b>Minor in Teaching English to Speakers of Other Languages (TESOL)</b>		
LIN 210Z	Introduction to Second Language Acquisition	3
TEL 240	TESOL Practicum Abroad	1
TEL 305	Teaching Language Skills for Second Language Learners	3
TEL 320	Curriculum Development and Assessment	3
LIN 300	Introduction to Linguistics	3
or TEL 301	Analysis of the English Language	
A world language		6
Choose one of the following:		3-4
COM 355Z	Intercultural Communication	
HIS 204U	African Civilizations	
HIS 205U	History of China, Japan, and Korea	
HIS 206U	History of India and Its Neighbors	
HIS 207U	Latin American Civilizations	
HIS 217UZ	Hispanic Christianity	
HIS 354	Modern Europe	
LIN 300	Introduction to Linguistics	
PHI 375G	Asian Philosophy	
POS 202U	Introduction to International Relations	
PSY 308G	Cross-Cultural Psychology	
REL 205U	Religions of India, China and Japan	
SOC 330G	Sociology of Third World Development	
SPA 301U	Hispanic Cultures	
SPA 302U	Hispanic Cultures: Guatemalan Perspectives	
SPA 303U	Historic Spain and its Cultures	
SPA 481	Internship in Spanish	
TEL 301	Analysis of the English Language	
<b>Total Credits *</b>		<b>22-23</b>

\* Courses whose number is followed by a letter fulfill 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 World Languages and Cultures prior to the experience.

## Admissions Procedures

To consider your application for admission, Bethel University must receive the following in most cases:

### New Freshmen, Transfers, and Nontraditional Students

- Your completed online application, including your personal statement of faith.
- For High School applicants, a copy of your High School transcript and your SAT, ACT, or CLT standardized test score.
- For transfer applicants, all transcripts from any secondary and postsecondary institutions you have attended. A high school transcript and test score may be required if you have less than one year of college experience.
- References may be requested in certain cases.

### PSEO Students

To consider your application for admission, Bethel University must receive the following by May 1st:

- Your completed online application, including personal essay must be received in the Office of Admissions by April 1 of your junior year in high school.
- Official transcripts from all secondary and post-secondary schools.
- Your PSAT, ACT, CLT, or SAT score.
- PSEO State Form Notice of Registration
- High School Counselor Form

### International Students

- Your completed application by May 1, including your personal statement of faith.
- 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, or PTE scores, or other standardized test (ACT, SAT).
- A copy of your I-94 (applicants living in the U.S.).
- A copy of your passport (applicants living in or traveling to the U.S.).
- A copy of your current visa (applicants living in or traveling to the U.S.).
- Documentation of health insurance (or upon arrival at Bethel University the student may consult with the International Student Adviser who will provide the necessary information).
- Your completed International Student Certification of Finance certificate.
- Applications for Spring should be submitted no later than November 1.

**In order to enroll at Bethel, Bethel requires official transcripts from all institutions. Uniquely for High School, the posted graduation date must be on the transcript.**

## Finances

The Bethel University Board of Trustees reserves the right to change any financial charges or regulations listed in this catalog.

### Student Cost for 2018-2019

FT = full-time enrollment (12-18 credits per semester)

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>	\$18,570	No charge <sup>2</sup> (up to 5 credits)	\$18,570	NA
<b>FT Fall and PT Spring</b>	\$18,570	\$775/credit	\$1,550/credit	NA
<b>PT Fall and FT Spring</b>	\$1,550/credit	\$775/credit	\$18,570	NA
<b>PT Fall and PT Spring</b>	\$1,550/credit	\$1,550/credit	\$1,550/credit	NA
<b>FT fall and NR Spring</b>	\$18,570	\$775/credit	-	NA
<b>NR Fall and FT Spring</b>	-	\$775/credit	\$18,570	NA
<b>PT Fall and NR Spring</b>	\$1,550/credit	\$1,550/credit	-	NA
<b>NR Fall and PT Spring</b>	-	\$1,550/credit	\$1,550/credit	NA
<b>Interim Only</b>	-	\$1,550/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>	\$1,030/credit	\$1,030/credit	\$1,030/credit	\$516/credit
<b>Post-baccalaureate Rate</b>	\$1,030/credit	\$1,030/credit	\$1,030/credit	\$516/credit
<b>Tuition Overload<sup>1</sup></b>	\$1,030/credit	NA	\$1,030/credit	NA
<b>Summer Term</b>	NA	NA	NA	\$516/credit
<b>Audit</b>	\$170/credit	\$170/credit	\$170/credit	\$170/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 \$18,570 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 Activity fee (full time)</b>	\$80	NA	\$80	NA

**Room (first-time residents in Bethel housing)**

	Fall	Interim	Spring
<b>In Bethel Housing Fall, Spring, and Interim</b>	\$2,915	No Charge	\$2,915
<b>In Bethel Housing Fall and Interim</b>	\$2,915	\$292	-
<b>In Bethel Housing Spring and Interim</b>	-	\$292	\$2,915
<b>In Bethel Housing Interim Only</b>	-	\$584	-

**Room (second consecutive year in Bethel Housing)**

	Fall	Interim	Spring
<b>In Bethel Housing Fall, Spring, and Interim</b>	\$2,915	No Charge	\$2,915

In Bethel Housing Fall and Interim	\$2,915	\$292	-
In Bethel Housing Spring and Interim	-	\$292	\$2,915

### Room (third consecutive year in Bethel housing)

	Fall	Interim	Spring
In Bethel Housing Fall, Spring, and Interim	\$2,850	No Charge	\$2,850
In Bethel Housing Fall and Interim	\$2,850	\$292	-
In Bethel Housing Spring and Interim	-	\$292	\$2,850

### Room (fourth consecutive year in Bethel Housing)

	Fall	Interim	Spring
In Bethel Housing Fall, Spring, and Interim	\$2,795	No Charge	\$2,795
In Bethel Housing Fall and Interim	\$2,795	\$292	-
In Bethel Housing Spring and Interim	-	\$292	\$2,795

### Room (fifth consecutive year in Bethel Housing)

	Fall	Interim	Spring
In Bethel Housing Fall, Spring, and Interim	\$2,700	No Charge	\$2,700
In Bethel Housing Fall and Interim	\$2,700	\$292	-
In Bethel Housing Spring and Interim	-	\$292	\$2,700

### Meal Plan

More information regarding meal plans is available at [bethel.edu/dining-services/meal-plans](http://bethel.edu/dining-services/meal-plans)

Students with Bethel housing will be auto-assigned the meal plan "Block Plan B" (\$4,690 per year) with the option to change their plan based off the their housing selection.

To manage your meal plan: **MyBethel>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)	\$155 per semester
Nursing Lab Fee (Sophomores)	\$65 (spring semester)
Nursing Testing Fee (Seniors-Fall 2018)	\$384
Nursing Testing fee (Juniors-Fall 2018)	\$464
Nursing Testing Fee (Sophomores-Spring 2019)	\$209
Nursing Clinical Fee for Clinical Site Placement, and Malpractice Insurance (Juniors and Seniors)	\$100 per semester
Nursing Central Fee (Juniors)	\$195 (fall semester)
Nursing Fee for Criminal Background Check (Sophomores)	\$30 (spring semester)
Human Kinetics and Applied Health Science Athletic Training for Red Cross Re-certification (Junior and Seniors)	\$30
Language Skills Test	Varies according to language
Credit by Examination	\$65 per credit
Student Health Insurance Fee (if proof of student's own health insurance plan is not provided by the 10th day of class)	Cost varies
Official Transcript: <a href="https://www.bethel.edu/registrar">https://www.bethel.edu/registrar</a>	\$8 per copy
Non-Sufficient Funds Fee (NSF)	\$25 per item
Commuter Parking Fee	\$100 per semester
Senior Resident Parking Permit	\$100 per semester
Junior Resident Parking Permit	\$150 per semester
Sophomore Resident Parking Permit (Availability restrictions apply. See Office of Security.)	\$200 per semester
Freshman Resident Parking Permit (Availability restrictions apply. See Office of Security.)	\$300 per semester

## Bethel Student Activity Fee

The Bethel Student Activity 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.

## Transcript Fee

Official transcripts are available showing all academic work completed to date at Bethel University. Both electronic and paper versions of official transcripts are available for \$8. Electronic transcripts are processed instantly. Paper transcripts will be printed and mailed the next business day. Some exceptions apply. Transcripts can only be sent if all outstanding financial obligations are met. Questions regarding transcripts should be addressed to the Office of the Registrar. To order an official transcript, please visit: <https://www.bethel.edu/registrar>.

## 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.

**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 **My Bethel > 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).



## Tuition and Payment Options

Full payment or enrollment in the 5-Month Semester Payment Plan is required by August 15, 2018 for the fall term and January 15, 2019 for the Spring term. The bill may include, but is not limited to: tuition, room, meal plan, Student Activity fee, course fees, music lessons, health insurance, parking permits and commuter fees. 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. All students enrolled in the Fall term are required to complete their Enrollment Checklist by August 15, 2018. For Spring term, all incoming (new students only) are required to complete their Enrollment Checklist by January 15, 2019. If the Enrollment Checklist has not been completed by the dates above there will be a \$200 fine assessed on the student account. Enrollment for succeeding terms is dependent on payment of the previous term's expenses. A late fee of .5% per month will be assessed on charges more than 30 days past due.

### Payment Options

#### Full Payment (Option 1)

Full payment for **fall semester** is due **August 15, 2018**.

Full payment for **interim/spring semester** is due **January 15, 2019**.

Full payment for **summer school** is due **May 28, 2019**.

#### 5-Month Semester Payment Plan (Option 2)

Students have the option to enroll in the 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, 2018. **The deadline to enroll in the payment plan and pay your first installment is August 15, 2018.** 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 approximately December 22, 2018. **The deadline to enroll in the payment plan and pay your first installment is January 15, 2019.** 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 \$30 per semester. The monthly payment amount is recalculated each time there is a new transaction posted on 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 may be removed from the payment plan. If removed from the plan, a registration hold will be placed on the student account if the balance is \$2,000 or more. Also, a late fee of .5% will be assessed each month for any unpaid balance on the account. (Payment plans are not offered for summer school).

Visit [bethel.edu/business-office/payment-plans/undergrad](http://bethel.edu/business-office/payment-plans/undergrad) for more payment plan information.

## Online Monthly Statements

Around the 17th of each month, an email will be sent to the student's Bethel email address alerting them that the monthly statement is available to view with a link to access the statement. 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:

MyBethel > Student Services tab > My Statement channel > Statement and Payment History > Select Statement Bill Date > View Statement

## Ways to Make a Payment

Students can view their account, enroll in a Semester Payment Plan, and pay online through **MyBethel (formerly 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 "enroll in payment plan" and follow the prompts.

- Online by electronic check: Authorize 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 2.85% or \$3 minimum, charged by PayPath (processing service).
- In person: Pay by check, or money order at the Business Office (Anderson Center, 5th Level), 8 a.m. - 4:30 p.m., M-F. Credit cards accepted online only.
- A drop box is located next to the ATM machine near the entrance of the Campus Store. Items in the drop box will be delivered to the Business Office one time per business day.
- 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.

## 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. Once the student has followed the steps below, the authorized user will be sent an email with further instructions. (If the authorized user does not receive the email, it may have been delivered to their spam mailbox.)

To authorize another user, go to MyBethel Student Services tab > My Bethel Account > Make a Payment. This will direct you to the Touchnet/Bill-Pay site. Once in Touchnet/Bill-Pay go to "My Profile Set Up" > "Authorized Users" and follow the prompts.

Visit [bethel.edu/business-office/make-a-payment/authorized-users](http://bethel.edu/business-office/make-a-payment/authorized-users) for more information.

## Enrollment Checklist

All students enrolled in the fall term are required to complete their Enrollment Checklist by August 15, 2018. For Spring term, all incoming (new students only) are required to complete their Enrollment Checklist by January 15, 2019. If the Enrollment Checklist has not been completed by the dates above there will be a \$200 fine assessed on the student account.

To view the Enrollment Checklist, go to: MyBethel > Home tab > Enrollment Checklist.

## Late Fees

A late fee of .5% 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 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 registration will be granted in ten business days.

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, their registration may 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

The following paragraphs apply to all students:

**Default:** I will be in default if: I fail to pay the total amount payable when due, any scheduled payment under either a semester payment plan or installment plan, or any other fee (which may include, but are not limited to, charges such as parking fines, library fees, other charges for violations of Bethel University policies, or any other amount billed to my student account) by the 15<sup>th</sup> day of the month following the month in which I am sent billing notice.

Failure to pay due to the following situations will not exempt me from entering default:

- withdrawal from Bethel University (whether voluntary or involuntary),
- insufficient funds in an account from which my payment was drawn (or similar circumstances),
- change of address without notifying Bethel University in writing,
- providing to Bethel University any false or misleading information,
- a case under U.S. Bankruptcy Code is started by or against me or any guarantor or cosigner.

If I am in default, Bethel University may require immediate payment of my Obligation in full along with any unpaid fees. If Bethel University demands immediate payment and I fail to comply, I agree that Bethel University may add my unpaid fees to my Obligation. If any payment is not paid in full by the 15<sup>th</sup> day of the month following the month in which it was due, I agree to pay Bethel University a default charge of six percent (6%) of the unpaid and past due amount of my Obligation. In addition, Bethel University may prohibit me from scheduling courses for the current or following semester; remove me from current courses; withhold course credits, academic transcripts, and my diploma without prior notice until the Obligation is paid in full. Bethel University may also exercise any other legal rights it may have, including engaging a collection agency to enforce its rights hereunder or taking legal actions to collect amounts due to it. In the event Bethel University incurs expenses collecting my Obligation, I agree to pay all reasonable attorneys' fees, legal expenses, and collections fees that result from my default (unless prohibited by law) at the rate of twenty-two percent (22%) of the unpaid Obligation. Even if I am in default, Bethel University may or may not require immediate payment, and may delay enforcing any of its rights without waiving them.

## Non-Sufficient Funds

If payment is returned from the bank for non-sufficient funds, a \$25 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.

## Postsecondary Enrollment Options Program (PSEO)

Students participating in the PSEO program at Bethel are not responsible for paying the enrollment deposit, tuition, Student Government fee, course fees, and books. Fees for tuition, the 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, campus store charges, library fines, and traffic fines. Specific questions regarding the PSEO program should be directed to the Office of Admissions.

## Refunds and Withdrawals

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. This date of notification will serve as the student's withdrawal/stop-out date. 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. Once the interview is complete the dean will process the student's withdrawal/stop-out.

## 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

### Fall First Half and Spring First Half

Through the sixth business day	100%
Through Friday of the third week	75%
Through Friday of the fifth week	50%
Through Friday of the sixth week	25%
After Friday of the sixth week	No refund

### Fall Second Half and Spring Second Half

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 housing refund policy and schedule.)

### Summer Full Term and Term C

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 Activity 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.

## Account Questions?

More student account information is available at [bethel.edu/business-office](http://bethel.edu/business-office).

Contact the Business Office at 651.638.6208 (800.255.8706, ext. 6208) or at [business-office@bethel.edu](mailto:business-office@bethel.edu).

## 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.

- 1. 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.
- 2. 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 \$717.88.

**Sample Refund Calculation (Student withdraws from all 15 credits on 10th day of classes.)**

Institutional Charges	Original	Refund	Refund	Net Charges
Tuition	\$17,505	75%	(\$13,128.75)	\$4,376.25
Room	\$2,795	75%	(\$2,096.25)	\$698.75
Meal Plan	\$1,805	95%	(\$1,713.88)	\$91.12
Bethel Student Association Fee	\$75	0%	0	\$75
Lab Fee	\$50	0%	0	\$50
<b>Total Charges</b>	<b>\$22,230</b>		<b>(\$16,938.88)</b>	<b>\$5,291.12</b>

Financial Aid and Cash	Original	Refund	Refund	Net Payments
Direct Subsidized Loan	(\$2,700)	-100%	\$2,700	\$0
Federal Pell Grant	(\$2,900)	-82%	\$2,368	(\$532)
<b>Subtotal: Federal Aid</b>	<b>(\$5,600)</b>	<b>-91%</b>	<b>\$5,068</b>	<b>(\$532)</b>
Minnesota State Grant	(\$2,900)	-85%	\$2,452	(\$448)
Minnesota SELF Loan	(\$1,000)	-85%	\$846	(\$154)
Bethel Grant	(\$7,000)	-75%	\$5,250	(\$1,750)
Private Scholarship	(\$500)	-75%	\$375	(\$125)
<b>Total Financial Aid</b>	<b>(\$17,000)</b>	<b>-82%</b>	<b>\$13,991</b>	<b>(\$3,009)</b>
Cash Paid	(\$3,000)	0%	0	(\$3,000)
<b>Total Payments on Account</b>	<b>(\$12,000)</b>		<b>\$13,991</b>	<b>(\$6,009)</b>

<b>Summary</b>	<b>Original Bill</b>	<b>Refund</b>	<b>Revised Bill</b>
<b>Total Charges</b>	\$22,230	(\$16,938.88)	\$5,291.12
<b>Total Payments on Account</b>	(\$12,000)	\$13,991	(\$6,009)
<b>Difference</b>	\$10,230	(\$2,947.88)	\$717.88



# 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)

### **Alumni of the Year Scholarship Fund**

This endowed scholarship was established in honor of past Alumni of the Year awardees and their families, to assist worthy students who reflect the core values of Bethel: being Christ-Followers, Character-Builders, Truth-Seekers, Learners, Reconcilers, Salt and Light, and World-Changers. This scholarship will be awarded to a Junior or Senior with tremendous potential, solid character and a great attitude, one who is ready to make a mark on the world. The purpose of the scholarship is to award a student who might not be the "obvious choice," but to award it to a student that needs encouragement and inspiration. Our desire is to help them continue to make contributions to their field of study, trust God on the path He has set for them, and then go on to impact their community for Christ. (EAA273)

### **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 and Sciences student majoring in Anthropology, Sociology, or Criminal Justice who is a junior, has a strong academic achievement in the department (3.2 GPA or above), participates in departmental activities and has the potential for achievement and Christian 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)

### **Robert and Violet Atkins Memorial Scholarship Fund**

This scholarship is in memory of Robert and Violet Atkins and is given to students majoring in nursing who demonstrate need and Christian character. (EAA266)

### **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 in the College of Arts & Sciences who demonstrates financial need and is recommended from the Temple Baptist Church congregation. If none recommended, it may be given to a student that attends a Converge church. (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 (C76), 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**

This scholarship is awarded to business and economics majors who are at least in their sophomore year. (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 \$500 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 in the College of Arts & Sciences without regard for financial need that identify their home church from Moraine Valley Baptist Church, Illinois, Sawyer Highlands Baptist Church, Michigan, Christ Bible Church of Chicago, First Baptist Church of Geneva, Converge Community Church in New Buffalo, MI, Edgewater Baptist in Chicago, CrossWinds in Chicago, Bellevue Baptist in Chicago, Skokie Valley Baptist in Wilmette IL, Pathway Community in Elmhurst IL, Life Community Church in Mount Prospect IL, SouthBridge in Orland Park IL, Homewood Church in Homewood IL, or Evangel Baptist in Wheaton IL. Secondary preference will be to qualifying students that identify their home church within the MidAmerica conference of Converge Worldwide. (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)

### **BUILD Endowed Scholarship Fund**

In recognition of their lifelong interest in young people, their interests in education, their passion for honoring God's example of serving the least of these and devotion to the cause of Christ, this scholarship is awarded to a worthy Bethel student in the College of Arts & Sciences enrolled in the BUILD program with financial need. (EAB286)

### **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)

### **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)

### **G. William Carlson Memorial Scholarship**

This scholarship has been established in memory of the life and work of Dr. G. William Carlson— or G.W., to most. He was a 1965 graduate of Bethel, professor in the history and political science

departments for 44 years (1968 to 2012), served on the St. Paul school board from 1986-1996 – and was an encouragement to students to accept Christ as Savior, cultivate a Christian spiritual journey, be lifelong learners and be deeply committed to service. Scholarships in the amount of \$1,500 per student are given annually to qualified history or political science majors with financial need and whose cumulative GPA is 3.0 or higher. (EAC034)

### **E. W. Ceder Memorial Fund for Music Scholarship**

This scholarship is awarded to worthy students studying music in the College of Arts & Sciences at Bethel University who demonstrate need. (EAC038)

### **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 1972 Scholarship**

The Class of 1972 gives an award to a worthy Bethel University student in the College of Arts and Sciences that demonstrates financial need. (EAC278)

### **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. (EAG063)

### **The Donald R. 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, 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)

### **Thor and Nancy Hansen Scholarship**

This scholarship is given to worthy students who demonstrate financial need, with first preference to those students who are graduates of Hope Academy of Minneapolis, MN. (EAH285)

### **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)

### **Stacey Hunter Hecht Scholarship Fund**

In recognition of her lifelong interest in young people, her interests in education and political science, her loyalty and devotion to the cause of Christ, the Stacey Hunter Hecht Scholarship was established to assist worthy students with financial need who are majoring in political science or intend to major in political science and maintaining a minimum GPA of 3.0. (EAH275)

### **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)

### **Dr. Gordon P. Howell Scholarship Fund**

In recognition of his lifelong interest in young people, his interest in music education, his loyalty and devotion to the cause of Christ as manifested by his service as a member of the Bethel University music faculty (1959-1993), appointed Professor of Music Emeritus, this scholarship is awarded to a worthy Bethel student in the College of Arts & Sciences who is a music major with financial need. (EAH281)

### **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)

### **Lisa Marie Ohlgren Johnson Scholarship**

In recognition of her lifelong interest in young people, her dedication to excellence in nursing, her loyalty and devotion to the cause of Christ, this scholarship is to be awarded to a worthy Bethel student in the College of Arts & Sciences with financial need. Nursing faculty will select a senior nursing student who has demonstrated a firm commitment to his / her Christian faith and exhibits a true desire for excellence in nursing. (EAJ284)

### **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)

### **Gunnar Kronholm Scholarship Fund in Wealth Management**

The Gunnar Kronholm Scholarship Fund in Wealth Management has been established in honor of the exceptional life of Gunnar Kronholm, his leadership in establishing the Department of Business/Economics at Bethel University, his godly example to and influence on numerous business/economics students. The fund is to assist a worthy Bethel student with financial need. The preferred candidate is a third- or fourth-year business/economics/finance student with a GPA of 3.0 or greater, seeking a career in wealth management. (EAK276)

### **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**

In memory of Harold and Gertrude Lidbom, this scholarship is given to students in the College of Arts and Sciences 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)

**Janet M. Lindquist M.D. Scholarship Fund**

The Janet M. Lindquist, MD Scholarship Fund is to be awarded to worthy college of arts and sciences students at Bethel University who are pursuing a professional career in medicine and demonstrate financial need. (EAL269)

**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 Scholarships**

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.

### **Minnesota Society of Certified Public Accountants Endowed Scholarship Fund**

This scholarship is given to an accounting major (Junior or Senior) who intends to sit for the CPA exam, maintains a 3.25 GPA or higher and demonstrates financial need. (EAM265)

### **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 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 demonstrate 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)

### **Gloria (Christenson) Nelson Nursing Scholarship**

In recognition of her lifelong interest in young people, her interest in nursing, and her loyalty and devotion to the cause of Christ, this Scholarship is awarded to a worthy Bethel student in the College of Arts & Sciences who demonstrate financial need. Preference will be given to junior or senior Nursing students. (EAN282)

### **Stephen F. Nelson Science Scholarship Fund**

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. To be awarded to Bethel student enrolled in College of Arts & Sciences with a preference given to junior or senior seeking a major in 5-12 Education with an emphasis in science (chemistry, life science, or physics.) 2nd preference would be a junior or senior seeking a major in 5-12 Education with an emphasis in another science. (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)

### **Mayme Okken Scholarship Fund**

This scholarship was established in memory of Mayme Okken, older sister of Joyce DeHaan, who as a Down syndrome adult, achieved beyond her limitations, and loved Jesus and others well. This scholarship is to be awarded students with financial need that are enrolled in Bethel's BUILD program. (EAO272)

### **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 with financial need. First consideration will be to first-year students from Forest City, Iowa. Second consideration will be to CAS students pursuing a music major. (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)

### **Viola C. Ost Scholarship**

This scholarship was given by the estate of Viola C. Ost in recognition of her lifelong interest in young people, her interests in education and preparation of students for the ministry, her loyalty and devotion to the cause of Christ, and is to be awarded to students who are pursuing a vocation in the ministry, or mission work. Each scholarship awarded shall be \$1,000 per student annually. (EA0271)

### **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 scholarship is set up to assist worthy Bethel University students in the College of Arts & Sciences who have demonstrated exemplary Christian character, who have made a constructive contribution to campus life and who are making academic progress. Students must also demonstrate need. (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, Mahanomen, 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, Mahanomen, 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)

### **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)

### **To the Glory of God BUILD Scholarship Fund**

This scholarship was established by a special passion for BUILD students and a desire to see each one grow, learn and reach their full God-given potential to be salt and light in this world. The fund is to assist annually one worthy Bethel University student with financial need who has been accepted to the Bethel BUILD Program. (EAG277)

### **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)

### **Urban Youth Leadership Scholarship Fund**

This scholarship is awarded to worthy Bethel University students with financial need who qualify as ACT-SIX participants or are among the underserved populations in the urban Twin Cities area. (EAU270)

### **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)

### **M. Eleanore Vogel Scholarship**

In recognition of her lifelong interest in young people, her interests in education and nursing leadership, her loyalty and devotion to the cause of Christ, this scholarship is awarded to a worthy Bethel student in the College of Arts & Sciences with financial need who is majoring in nursing. (EAV283)

### **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)

### **Emily White Scholarship Fund**

This scholarship was established by Dale and Julie White in recognition of their special passion for BUILD students and their desire to see each one grow, learn, and reach their full God-given potential and are prepared to be salt and light in this world. This scholarship is to be awarded to students with financial need who have been accepted to the Bethel BUILD Program. (EAW274)

### **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)

# Administration

## Office of the President

James (Jay) Barnes III, Ed.D.	President
John Addleman, Ph.D.	Special Assistant to the President

### Provost

Debra K. Harless, Ph.D.	Executive Vice President and Provost
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### Diversity and Inclusion

Ruben Rivera, Ph.D.	Chief Diversity Officer
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### Academic Affairs

Deborah L. Sullivan-Trainor, Ph.D.	Vice President of Academic Affairs and Dean
Julie Finnern, Ed.D.	Dean of Professional Programs
Barrett Fisher II, Ph.D.	Dean of Arts and Humanities
Carole Young, Ph.D.	Dean of Natural and Behavioral Sciences; Dean of Faculty Development
Diane Dahl, Ph.D, RN	Dean of Nursing and CAPS/GS Health, Medical, and Social Sciences
Joel D. Frederickson, Ph.D.	Associate Dean of Institutional Assessment and Accreditation

### Career Development and Calling

Dave Broza, M.A.	Director of Career Development and Calling
Will O'Brien, M.A. LPCC	Associate Director of Career Development and Calling

### Off-Campus Programs/International Studies

Vincent Peters, M.S.W.	Associate Dean of Off-Campus Programs/International Studies
Tanden Brekke, M.Div.	Assistant Director of Community Engagement and Service-Learning
Melanie Eslinger, M.A.	Assistant Director of Off-Campus/International Studies

### Library

David R. Stewart, M.L.I.S.	Director of Libraries
Rhonda E. Gilbraith, M.L.I.S.	Associate Director and Collection Development Librarian
Karen M. Dubay, M.L.S.	Reference and Instruction Librarian
Lyndi Fabbrini, M.L.I.S.	Public Services Librarian
Kent T.K. Gerber, M.S.	Digital Library Manager
Scott A. Kaihoi, M.L.I.S.	Reference and Instruction Librarian/Copyright Liaison
Michael R. Mitchell, M.L.I.S.	Reference and Instruction Librarian/Assessment
Amy L. Reinhold, M.L.I.S.	Materials Services Librarian
Earleen J. Warner, M.L.S.	Reference Librarian
Serena K. Giese, M.L.I.S.	Reference and Instruction Librarian/User Experience

## Office of Christian Formation and Church Relations

Laurel Bunker, M.A.	Associate Vice President for Christian Formation and Church Relations
Matthew C. Runion, M.Div.	Associate Dean of Campus Ministries
Jason Steffenhagen, D.Min.	Associate Campus Pastor
Donna E. Johnson, M.S., M.A.	Assistant Campus Pastor
Paul Kong, M.Div.	Assistant Campus Pastor

## Registrar

Diane Krusemark, Ed.D.	Registrar
Natalie Gomez	Assistant Registrar

## Student Life

William O. Washington, Ph.D.	Vice President for Student Life
Miranda Powers, M.A., L.P.C	Dean of Student Programs
James A. Benjamin, M.A.	Associate Dean of Residence Life
Robert B. Bjorklund, M.A.	Director of Athletics
Kwai-Yung Carol Chang, M.S.	Associate Dean for International Student Programs and Services
Bryan Dennis, M.A.	Assistant Dean for Residence Life
Lani Moua, M.B.A.	Associate Dean for Intercultural Programs
Rick Meyer, M.A.	Wellness Center Director
Jennifer Hillier, M.A.	Assistant Dean for Residence Life
Miriam Hill, Ph.D, LMFT	Director of Counseling Services
Scott Kirchoff, M.A.	Assistant Dean for Leadership Development
Erica Green, M.A.	Associate Dean for Campus Engagement
Elizabeth K. Miller, R.N.	Director of Health Services
Kara Fifield, M.A.	Director of Disability Resources and Services
Sara Wanous	Director for Student Activities and Campus Engagement
Pang Moua, M.A.	Diversity and Inclusion Associate

## Teaching and Learning Technology

Matthew Putz, Ph.D	Director of Teaching and Learning Technology
Justin Heglund	Lead Media Designer
Kara Wicklund, M.A.	Lead Instructional Designer

# 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 at Greensboro, 1987.

**Brent Adams**, 1999. Associate Professor of Theatre Arts. B.A., University of Kentucky, 1985. M.F.A., University of Minnesota, 1991.

**Ebony Adedayo**, 2017. Adjunct Instructor in Sociology and Reconciliation Studies. B.A. in Pastoral Studies, North Central University, 2006. M.A. in Global and Contextual Studies, Bethel Seminary, 2010.

**Kimberly Allmann**, 1995. Private Lesson Instructor in French Horn. B.A. in Business Management/Marketing, Bethel University, 1991. B.Mus., Horn Performance, Bethel University, 1994. B.Mus.Ed., Instrumental K-12, Bethel University, 1994. Master of Music, Horn Performance, University of Minnesota - Twin Cities, 1997.

**Phyllis Alsdurf**, 2003. Professor of English Emerita. B.A. in Journalism, Evangel College, 1969. M.A. in Journalism, Kansas State University, 1974. M.A. in Humanities, Western Kentucky University, 1977. Ph.D. in Mass Communications, University of Minnesota, 2003.

**Beth Anderson**, 2016. Assistant Professor of Nursing. B.S. Nursing, University of Wisconsin-Eau Claire, 1989. M.A. Organizational Leadership, St. Catherine University, 2000. Doctor of Nursing Practice, Capella University, Currently enrolled.

**Trudi Anderson**, 2002. Private Lesson Instructor in Flute. Bachelor of Music, Augsburg College, 1977. Master of Music, Northwestern University, 1987.

**Linda Anderson**, 1990. Pre-licensure Program Director. B.S. in Nursing, University of Minnesota, 1981. M.S. in Public Health Nursing, University of Minnesota, 1989. Ph.D. in Nursing Practice, University of Minnesota, 2010.

**Bryan Anderson**, 1991. Associate Professor of Biological Sciences. B.S., Northland College, 1981. M.S., University of Minnesota, 1989.

**Tanner Auch**, 2017. Associate Professor of Mathematics. B.A. Mathematics, MidAmerica Nazarene University, 2004. M.S. Mathematics, University of Nebraska- Lincoln, 2010. Ph. D. Mathematics, University of Nebraska- Lincoln, 2013.

## B

**Linda Bahr**, 2006. Adjunct Assistant Professor of Education. B.A., University of Hawaii, 1970. M.A., University of Minnesota, 1982.

**Kim Bailey**, 2018. Adjunct Instructor of Education. B.A.S. in Early Childhood Studies, Metropolitan State University, 2012. M.A. Ed. in Early Childhood Education, Concordia University, 2014. Ph.D. in Organizational Leadership Specialization: Early Childhood Education, Concordia University, In Process.

**Thomas Becknell**, 1983. Professor of English. B.A., Wheaton College, 1974. Ph.D., University of Iowa, 1983.

**Brian Beecken**, 1988. Professor of Physics and Engineering. B.A., Elmhurst College, 1980. M.S., University of Minnesota, 1984. Ph.D., University of Minnesota, 1986.

**James K. 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.

**Robin Bell**, 1996. Adjunct Assistant Professor of Sociology and Reconciliation Studies. B.A., California State University at Long Beach, 1978. Th.M. Systematic Theology, Dallas Theological Seminary, 1990. M.Ed. Youth Development Leadership & Youth Studies, University of Minnesota, 2000. Ed.D. Social Justice and Policy, Hamline University, 2013.

**Steve Bennett**, 2017. Associate Professor of Education. B.S. in Crop and Soil Sciences, Michigan State University, 1984. M.S. in Crop and Soil Sciences, Michigan State University, 1986. Ph.D., Michigan State University, 2017.

**Loren Bergstedt**, Adjunct Instructor of Psychology. Adjunct Instructor of Psychology. B.A. Communication Studies, Northwestern College, 2002. M.A. Counseling Psychology, Bethel University, 2012.

**Mauvalyn Bowen**, 2016. Associate Professor of Business. B.Ed, University of Technology, Jamaica, 1994. M.S., Southern Illinois University at Carbondale, 1998. Ph.D, University of Minnesota, 2008.

**Gregory Boyd**, 1985. Adjunct Professor in Biblical and Theological Studies. B.A. in Philosophy, University of Minnesota, 1979. M.Div. in Philosophy and Theology, Yale University, 1982. Ph.D. in Systematic Theology, Princeton Theological Seminary, 1985.

**Andrew Bramsen**, 2013. Associate Professor of Political Science. 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.

**Tim Bredow**, 1998. Professor of Nursing. B.S. in Biology, University of Iowa, 1974. B.S.N., University of Iowa, 1976. M.A.N. in Public Health Nursing, University of Iowa, 1980. Post masters certificate as Family Nurse Practitioner, University of Minnesota, 2009. Ph.D. in Educational Administration, University of Iowa, 1988.

**Tanden Brekke**, 2007. Adjunct Instructor of General Studies. B.A. Youth Ministry, North Central University, 1999. M.A. Theological Studies, Bethel Seminary, 2006.

**Heather Bren**, 2017. Associate Professor of Art and Design. B.A. Graphic Design, Studio Art, University of Northwestern- St Paul, 1999. M.F.A. Ceramics, University of Kansas, 2003.

**Debbie Britt**, 2011. Adjunct Instructor of Nursing. B.S. in Nursing, Bethel University, 2008. M.A. in Nursing Education, Bethel University, 2011.

**Susie Brooks**, 2017. Adjunct Associate Professor of Business and Economics. B.A. International Business, Hanzehogeschool University of Applied Sciences, 1998. M.A. Leadership, Bethel University, 2001. Ph.D. Education, Hamline University, 2012.

**Susan Brooks**, 1998. Professor of English. B.A., Bethel College, 1986. M.S., Mankato State University, 1994. Ph.D., University of Minnesota, 2010.

**Scott Brown**, 1996. Professor of Mathematics Education. 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. Associate Professor of English. B.A., Bethel College, 1991. M.A., Colorado State University, 1995. Ph.D., University of Iowa, 2005.

**Jeff Brueske**, 2003. Private Lesson Instructor in Jazz Bass. B.S in Music Performance, Northwestern College, 1988. Master in Music, University of Minnesota, 1995.

**Nancy Brule**, 2004. Professor of Communication Studies. B.S., Moorhead State University, 1994. M.S., Mankato State University, 1996. Ph.D., University of Nebraska, 2002.

**Justin Buol**, 2017. Adjunct Instructor of Biblical and Theological Studies. B.A., Biblical and Theological Studies, Bethel University, 2005. M.A., New Testament, Trinity Evangelical Divinity School, 2007. M.A., Classical and Near Eastern Studies: Religions in Antiquity, University of Minnesota, 2009. Ph.D., Christianity and Judaism in Antiquity, University of Notre Dame, 2017.

**Anna Butler**, 2003. Adjunct Instructor of Spanish Language. B.A., Washington and Lee University, 1990. M.A. in Sociology, University of Virginia, 1994. Teaching Licensure: K-12 Spanish, Bethel University, 2008.

**Justin Byers**, 2004. Associate Professor of Human Kinetics and Applied Health Science, Director of Athletic Training Services, Athletic Trainer. 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

**Jessica Cabak**, 2015. Adjunct Instructor of Mathematics and Computer Science. B.A. Mathematics, Bethel University, 2008. M.S. Education, University of Wisconsin, 2012.

**Becky Carlson**, 2003. Adjunct Instructor. B.A. Elementary Education/Psychology, Bethel University, 1993. Master of Science in Education, Winona State University, 1994.

**Angela Carlson-Lombardi**, 2017. Associate Professor of Spanish. B.A. Spanish, B.A. Studio Art, Bethel University, 1987. M.A. Hispanic Literature, University of Georgia, 1994. Ph.D. Hispanic Literature, University of Minnesota, 2002.

**Christopher Carroll**, 2010. Assistant Professor of Human Kinetics and Applied Health Science. B.A. in Business, Bethel College, 2004. M.Ed. in Exercise Science, University of Minnesota, 2007. Ph.D. in Kinesiology-Exercise Physiology, University of Minnesota, 2013.

**Amanda Carter**, 2016. Associate Professor of Business and Economics. B.A. in Economics, Yale University, 1986. MBA, Finance, Wharton Business School, University of Pennsylvania, 1990.

**Yu-Li Chang-Zacher**, 2016. Associate Professor of Journalism. B.A. in English Language and Literature, Fu-Jen Catholic University (Taiwan), 1985. M.A. in Journalism and Mass Communication, University of Missouri-Columbia, 1991. Ph.D. in Journalism and Mass Communication, Ohio University, 2000.

**James Christenson**, 2017. Assistant Professor of Chemistry. B.S. Biochemistry/Molecular Biology and B.S. Chemistry, Bethel University, 2012. Ph.D., University of Minnesota, 2017.

**Connie Clark**, 2009. Professor of Nursing. B.A. in Nursing, College of St. Catherine, 1974. M.S.N. in Nursing Education, Drake University, 1991. Ph.D. in Higher Education, Iowa State University, 2001.

**Chris Coffey**, 2015. Adjunct Instructor of Human Kinetics Applied Health Science. B.S. Biology, St. Cloud State University, 1993. M.S. Exercise Science, University of Nebraska, 1997.

**Christian Collins Winn**, 2005. Professor of Biblical and Theological Studies. 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.

**Patrice Conrath**, 1988. Associate Professor of Mathematics. 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.

**Sherryse Corrow**, 2017. Associate Professor of Psychology. B.A. Psychology, Minnesota State University, Moorhead, 2008. M.A. Child Psychology, University of Minnesota, Twin Cities, 2011. Ph.D. Child Psychology, University of Minnesota, Twin Cities, 2013.

**Lindsay Craig**, 2015. Adjunct Instructor of General Studies. B.A., University of Minnesota, 2004. M.A., University of Minnesota, 2015.

**David Crittenden**, Adjunct Assistant Professor of Music and Private Lesson Instructor in Guitar. B.Mus., University of Georgia, 1974. M.M., Ball State University, 1982. D.M.A., University of Georgia, 1996.

**Gary Crowe**, 1982. Private Lesson Instructor in Saxophone. B.A., St. John's University, 1977. M.M., University of Michigan, 1979.

## D

**Nikki Daniels**, 1989. Adjunct Faculty in Organizational Leadership. B.A., Trinity College, 1973. M.A., Bethel University, 1997.

**Emily Day**, 2018. Assistant Professor of Nursing. B.S. in Animal Science, Pennsylvania State University, 2007. M.P.H. in Epidemiology, Drexel University, 2009. B.S. in Nursing, Rutgers University, 2012.

**Julie De Haan**, 2010. Associate Professor of Nursing. B.S. in Nursing, Calvin College, 1988. M.S.N. Nursing education track, Walden University, 2009.

**Teresa DeGolier**, 1994. Professor of Biological Sciences. B.A., Calvin College, 1980. M.S., Florida Atlantic University, 1990. Ph.D., University of Minnesota, 1994.

**Seann Dikkers**, 2015. 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. Ph.D., University of Wisconsin, 1999.

**Jamie Dolieslager**, 1999. Associate Professor of Human Kinetics and Applied Health Sciences, Athletic Trainer. B.S. in Exercise Science, Buena Vista University, 1997. M.S. in Health, Physical Education, and Recreation, Emporia State University, 1999.

**William Doyle**, 1981. Adjunct Professor of Mathematics and Computer Science. B.S. Education, Miami University Oxford, Ohio, 1969. M.Ed., Miami University Oxford, Ohio, 1975. Ph.D., Ohio State University, 1981.

**Karen Drake**, 1992. Professor of Nursing. B.S. in Nursing, University of Illinois, 1971. M.S. in Nursing, University of Michigan, 1981. Ph.D. in Educational Policy and Administration (focus on Comparative and International Development Education), University of Minnesota, 2004.

**Michael Dreher**, 1997. Professor of Communication Studies. B.A. Speech Communication/Theater and Mathematics, North Central College (IL), 1989. M.A. Communication Studies, University of Iowa, 1992. Ph.D. Speech Communication, Louisiana State University, 1995.

**Dale Durie**, 2005. Adjunct Associate Professor. B.A., Bethel College, 1985. M.Div., Denver Seminary, 1990. D.Min., Gordon-Conwell Theological Seminary, 2001.

**Neal Dutton**, 1980. Athletic Training Program Director and Associate Professor of Human Kinetics and Applied Health Science. 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. Associate 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.

**Pamela Erwin**, 2002. Professor of Biblical Studies. B.A., University of North Carolina, 1991. M.A., Denver Seminary, 1996. D. Min, Fuller Seminary, 2002.

**Tim Essenburg**, 1989. Professor of Economics. B.A. in Economics & Finance, Covenant College, 1983. M.A., University of Tennessee, 1986. Ph.D. in Economics, University of Tennessee, 1991.

**Victor Ezigbo**, 2008. 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

**Drew Fernelius**, 2012. Adjunct Instructor of Human Kinetics and Applied Health Sciences. B.A. in Speech Communications/Education and Coaching, University of St. Thomas, 1993. M.Div., Bethel Theological Seminary, 2000.

**Tawnya Fiedler**, 2016. Adjunct Instructor of Business and Economics. B.A. Business and Economics, Westmont College, 1992. MBA, University of St. Thomas, 2006.

**Paul Floyd**, 2005. Adjunct Instructor of Business. B.A. Honors, Judson College, 1976. M.Div., Bethel Seminary, 1980. J.D., William Mitchell College of Law, 1983.

**Andrew Folstad**, 2018. Assistant Professor of Nursing. B.S. in Nursing, University of Minnesota, 2011. M.S. in Nursing Education, Bethel University, 2016.

**Penny Foore**, 2017. Adjunct Instructor of General Studies. B.S. in Mathematics Education, Concordia University, 2003. M.A. in Educational Psychology, University of Missouri, 2017.

**Chris Frank**, 2008. Adjunct Instructor of Psychology. Bachelor of Arts, Bethel University, 2000. M.A., Counseling Psychology, Bethel University, 2008.

**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.

**Joel Frederickson**, 1996. Professor of Psychology. B.A., Bethel College, 1989. M.A., University of Minnesota, 1992. Ph.D. in Educational Psychology/Social Psychology, University of Minnesota, 1997.

**Pamela Friesen**, 1985. Associate Professor Emerita of Nursing. B.S.N., University of Mary Hardin, 1976. M.S. in Nursing, University of Texas-Austin, 1985. Ph.D., University of Minnesota, 2003.



## G

**Leo Gabriel**, 1991. Professor of Business. 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. Professor of History. B.A., College of William and Mary, 1996. Ph.D., Yale University, 2002.

**Bethany Gerdin**, 2013. Associate Professor of Nursing. B.S. in Nursing, Bethel University, 2007. Ph.D. in Nursing, University of Minnesota, 2015.

**Andrew Gess**, 2001. Associate Professor of Communication Studies, 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.

**Kelly Gibas**, 2016. Assistant Professor of Human Kinetics and Applied Health Science, Biokinetics. B.A., Communications, Bethel University, 1991. M.A., Counseling Psychology, Bethel University, 2014. Clinical Doctorate in Behavioral Health (DBH), Arizona State University, 2016.

**Laura Gilbertson**, 2005. Instructor of Biblical and Theological Studies. B.A., University of Minnesota, 2000. M.Div., Bethel Seminary, 2005.

**Charles Goldberg**, 2016. Assistant Professor of History. B.A. in History, Concordia College, 2007. M.A. in History, M.Phil. in History, Syracuse University, 2013. Ph.D. in History, Syracuse University, 2016.

**Jennifer Good**, 2017. Adjunct Instructor of Nursing. B.S., Nursing; B.A., Biology, Bethel University, 2005.

**Amy Gorowsky**, 2016. Laboratory and Safety Coordinator. M.S., University of Notre Dame, 2009. B.S., Bethel University, 2006.

**Nathan Gossett**, 2007. Associate Professor of Mathematics and Computer Science. B.A. in Mathematics, Bethel University, 2002. B.S. in Computer Science, Bethel University, 2002. Ph.D. in Computer Science, University of Minnesota, 2007.

**Eric Gossett**, 1984. Professor of Mathematics and Computer Science. 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.

**John Gray**, 2013. Adjunct Assistant Professor of Biological Sciences. B.S. Biochemistry, University of Minnesota, 1976. M.D., Mayo Medical School, 1980, 1981, 1983.

**James Green**, 2002. Adjunct Instructor of Business and Economics. B.A. Economics, Princeton University, 1972. MBA, University of Pennsylvania, 1978.

**Andrew Greenlee**, 2014. Adjunct Instructor of Philosophy. B.A. Economics, B.A. Philosophy, Bethel University, 2008. M.A. Philosophy, University of Rochester, 2012.

**Thomas Greenlee**, 1979. Professor of Physics. B.S., Michigan Technological University, 1970. M.S., California Institute of Technology, 1973. Ph.D., California Institute of Technology, 1978.

**Larry Gronewold**, 2018. Adjunct Assistant Professor of Education. M.Ed. in Art Education, University of Minnesota, 1991.

**Michael Gross**, 2008. Adjunct Instructor of General Studies. B.A. Biblical and Theological Studies, Bethel University, 2002. M.Div., Princeton Theological Seminary, 2007.

**Andrew Gustafson**, 2016. Adjunct Associate Professor of Physics. B.S. Physics, Iowa State University, 2005. B.A. English, Iowa State University, 2015. M.S. Physics, University of Minnesota, 2012. Ph.D. Physics, University of Minnesota, 2013.

**Kristi Gustafson**, 2002. Assistant Professor of Nursing. B.S.N., Bethel College, 1998. M.A. in Nursing Education, Bethel University, 2002.

## H

**Rushika Hage**, 2015. Adjunct Instructor of History. B.A. in History, College of St. Benedict, 1993. M.A. in Medieval History, University of California, 1997. Ph.D. in Medieval History, University of Minnesota, In Process.

**Emily Hagen**, 2015. Private Lesson Instructor in Viola. B.A. in English, St. Olaf College, 2000. M.M. in Viola Performance, Cleveland Institute of Music, 2010.

**Amanda Hamilton**, 2013. Professor of Art. B.S., Biola University, 2000. M.F.A., Claremont Graduate University, 2005.

**Alyssa Hamre**, 2012. Instructor of Physics. B.S. in Physics, Wheaton College, 2008. M.S. in Physics, University of Minnesota, 2011.

**Chuck Hannema**, 2002. Associate Professor Emeritus of Business. B.A. in Economics, Wheaton College, 1978. MBA in Finance, Carlson School of Business at the University of Minnesota, 1984.

**Angela Hanson**, 2008. Private Lesson Instructor in Violin. B.M. in Violin Performance, St. Olaf College, 2003. M.M. in Violin Performance, University of Minnesota, 2005. D.M.A. in Violin Performance, University of Minnesota, 2007.

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# Index

## A

Academic Appeals .....	15
Academic Calendar .....	3
Academic Honesty .....	14
Academic Information .....	12
Academic Programs .....	63
Academic Progress .....	17
Accreditation .....	2
Administration .....	401
Admissions Procedures .....	363
An Affirmation of Our Faith .....	11
Art and Design .....	69

## B

B.A. in Art .....	73
B.A. in Athletic Training .....	240
B.A. in Biblical and Theological Studies .....	87
B.A. in Biokinetics-Exercise Science as a Dual Degree with M.S. in Athletic Training .....	242
B.A. in Biology .....	101
B.A. in Business .....	115
B.A. in Business and Political Science .....	261
B.A. in Chemistry .....	127
B.A. in Communication Arts and Literature Education 5-12 (English Education) .....	186
B.A. in Communication Studies .....	139
B.A. in Community Health .....	246
B.A. in Computer Science .....	149
B.A. in Computer Science: Software Project Management .....	150
B.A. in Digital Humanities .....	262
B.A. in Economics .....	118
B.A. in Economics and Finance .....	119

B.A. in Engineering .....	176
B.A. in English Literature .....	187
B.A. in English Literature and Writing .....	188
B.A. in Environmental Studies .....	194
B.A. in General Science Education 5-8 .....	170
B.A. in Graphic Design .....	74
B.A. in Health Education 5-12 .....	247
B.A. in History .....	226
B.A. in Independent Filmmaking .....	141
B.A. in International Relations .....	264
B.A. in Journalism .....	189
B.A. in K-6 Elementary Education .....	165
B.A. in Linguistics .....	353
B.A. in Mathematics .....	257
B.A. in Mathematics with Education 5-12 Licensure .....	258
B.A. in Media Production .....	142
B.A. in Missional Ministries .....	88
B.A. in Music .....	279
B.A. in Organizational Communication .....	143
B.A. in Philosophy .....	298
B.A. in Physical Education K-12 .....	248
B.A. in Physics .....	304
B.A. in Political Science .....	315
B.A. in Psychology .....	322
B.A. in Reconciliation Studies .....	339
B.A. in Science Education 5-12: Chemistry Emphasis .....	128
B.A. in Science Education 9-12: Life Science Emphasis .....	104
B.A. in Science Education 9-12: Physics Emphasis .....	305
B.A. in Social Studies Education 5-12 .....	266
B.A. in Social Work .....	333
B.A. in Sociology .....	340

B.A. in Spanish .....	355
B.A. in Spanish Education K-12 (Licensure in World Languages: Spanish) .....	356
B.A. in Teaching English as a Foreign Language (TEFL) .....	357
B.A. in Teaching English as a Second Language (TESL) K-12 .....	359
B.A. in Theatre .....	344
B.A. in Visual Arts Education K-12 .....	75
B.F.A. in Art .....	76
B.Mus. in Applied Performance .....	279
B.Mus.Ed. in Music Education .....	281
B.S. in Accounting and Finance .....	120
B.S. in Applied Physics .....	306
B.S. in Biochemistry/Molecular Biology .....	267
B.S. in Biokinetics .....	249
B.S. in Biology .....	105
B.S. in Chemistry .....	129
B.S. in Computer Engineering .....	177
B.S. in Computer Science .....	151
B.S. in Electrical Engineering .....	178
B.S. in Environmental Science .....	195
B.S. in Mathematics with Data Science .....	259
B.S. in Neuroscience .....	269
B.S. in Nursing .....	293
B.S. in Physics .....	308
B.S. in Software Engineering .....	179
Becoming Whole and Holy Persons: A Covenant for Life Together at Bethel .....	7
Bethel University Commitments .....	6
Bethel University Schools .....	5
Biblical and Theological Studies .....	79
Biological Sciences .....	91
Business and Economics .....	108

**C**

Chemistry .....123  
Classics .....131  
Classification of Students ..... 18  
College of Arts & Sciences ..... 1  
College of Arts & Sciences Philosophy of Higher Education ..... 12  
Communication Studies ..... 132  
Computer Science .....147  
Course Policies and Grades ..... 18  
Credits by Examination ..... 48

**D**

Departmental Scholarships (Special Awards) .....376  
Doctor of Physical Therapy Program at Southwest Baptist University .....217

**E**

Education .....153  
Engineering .....172  
English .....181  
Environmental Studies .....192

**F**

Faculty and Administration .....403  
Film Studies .....197  
Final Examinations ..... 38  
Finances .....363  
Foreign Languages .....199

**G**

Gender Studies .....200  
General Education .....22  
General Education Entry Standing ..... 49  
General Information ..... 1  
General Studies .....201  
Geography .....213

Geology .....	213
Graduation Requirements .....	35
<b>H</b>	
Healthcare .....	214
Healthcare Endorsement .....	215
History .....	221
Honors .....	39
Honors Program .....	228
Human Kinetics and Applied Health Science .....	230
<b>I</b>	
Individualized Study .....	40
Interim .....	39
<b>L</b>	
Leaving the University Prior to Graduation .....	43
<b>M</b>	
M.S. in Physician Assistant at Bethel University .....	219
Mathematics .....	255
Middle Level Endorsements .....	167
Middle Level Licensures .....	167
Minor in Art (Art History Emphasis) .....	77
Minor in Art (Studio Emphasis) .....	77
Minor in Asian Studies .....	271
Minor in Biblical and Theological Studies .....	89
Minor in Biblical Greek .....	90
Minor in Biblical Languages (Hebrew and Greek) .....	90
Minor in Biology .....	107
Minor in Business .....	121
Minor in Chemistry .....	130
Minor in Classics .....	131
Minor in Communication Studies .....	145
Minor in Community Health .....	251

Minor in Computer Science .....	152
Minor in Creative Writing .....	189
Minor in Digital Film and Video for Actors .....	145
Minor in Economics .....	121
Minor in English Literature .....	190
Minor in Film Studies .....	197
Minor in Gender Studies .....	200
Minor in Graphic Design .....	77
Minor in Health Education .....	251
Minor in History .....	227
Minor in Journalism .....	190
Minor in Leadership Studies .....	253
Minor in Linguistics .....	360
Minor in Mathematics .....	260
Minor in Media Production .....	146
Minor in Music .....	283
Minor in Philosophy .....	299
Minor in Photojournalism .....	191
Minor in Physical Education .....	252
Minor in Physics .....	309
Minor in Political Science .....	316
Minor in Psychology .....	324
Minor in Reconciliation Studies .....	341
Minor in Religious Studies .....	326
Minor in Science, Technology, Engineering, and Math (STEM) .....	171
Minor in Social Welfare Studies .....	334
Minor in Sociology .....	341
Minor in Spanish .....	361
Minor in Teaching English to Speakers of Other Languages (TESOL) .....	362
Minor in Theatre Arts .....	346
Multidisciplinary .....	261

Music .....	273
-------------	-----

## **N**

Natural Sciences .....	285
Nursing .....	287

## **O**

Off-Campus Programs .....	58
Off-Campus Programs (International) .....	58
Off-Campus Programs (United States) .....	61
Option 1 for General Education: CWILT .....	33
Option 2 for General Education: Humanities .....	34

## **P**

Philosophy .....	295
Physics .....	301
Political Science .....	311
Post Secondary Enrollment Options .....	44
Pre-Medical Track .....	216
Psychology .....	318

## **R**

Religious Studies .....	325
Requirements for a Bachelor's Degree .....	35
Requirements for an Associate of Arts Degree .....	37
ROTC .....	45

## **S**

Senior Care Leadership and Administration .....	215
Social Work .....	328
Sociology and Reconciliation Studies .....	335
Student Load .....	46
Summer School .....	39

## **T**

The Family Educational Rights and Privacy Act (FERPA) .....	52
---	----



Theatre Arts .....342

Themes of the General Education Curriculum .....24

Transfer of Credits to Bethel ..... 46

Tuition and Payment Options .....368

**W**

World Languages and Cultures .....348



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