

EASTERN NAZARENE COLLEGE

2007 • 2008

Undergraduate Catalog



many differences, one faith

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ACADEMIC CALENDAR

Fall Semester 2007

September 1	New Students Arrive
September 3	Labor Day
September 4	Registration Day
September 5	Classes Begin
September 12	Final Day to Register for Classes
September 18	Final Day to Add/Drop Classes
October 8	Columbus Day (No Classes)
October 26	Midterm Grades Available
October 18-20	Homecoming Weekend
October 29-31	Midterm Advising
October 31	Deadline to Withdraw or Change to Pass-Fail/Audit
November 21-25	Thanksgiving Break (No Classes)
December 10	Classes End
December 11-15	Final Exams
December 19	Final Grades Distributed

January Term (J-Term) 2008

January 3	Classes Begin
January 4	Final Day to Register for a Class
January 7	Final Day to Add/Drop Classes
January 10	Final Day to Withdraw or Change to Pass-Fail/Audit
January 21	Martin Luther King, Jr. Day (No Classes)
January 22	Classes End
January 23 - 25	J-Term Break
January 25	Final Grades Available

Spring Semester 2008

January 28	Registration Day
January 28	Classes Begin
February 3	Winter Commencement (Alt. Date February 10)
February 4	Final Day to Register for Classes
February 11	Final Day to Add/Drop Classes
March 10-14	Spring Break (No Classes)
March 21-24	Easter Break (No Classes)
March 24	Mid-term Grades Distributed
March 25-28	Mid-term Advising
March 31	Final Day to Withdraw or Change to Pass-Fail/Audit
April 15	Advising Day
April 15 - 18	Registration Days
*April 12	Advising Day - No Day Classes Evening and Graduate Classes Held
May 7	Classes End
May 8	Reading Day; Senior Grades Available
May 9, 12-15	Final Exams
May 13	Senior Grades Distributed
May 16	Baccalaureate
May 17	Spring Commencement
May 20	Final Grades Distributed

Summer Session 2008

May 20	Summer Session Begins
May 21	Final Day to Register for a Class
May 23	Final Day to Add/Drop Classes
May 26	Memorial Day - No Classes
May 28	Last Day to Withdraw or Change to Pass-Fail/Audit
June 6	Summer Session Ends
June 9	Final Grades Distributed

LETTER FROM THE PRESIDENT



Photo by Bonnie Ashworth

At Eastern Nazarene College we believe there is no conflict between the best in education and the best in Christian faith. We believe a Christian education enlarges the approach to knowledge that not only includes facts, figures, and ideas, but also strives to advance ultimate truth, righteousness, justice, and holiness. With this base, doors of creative and redemptive opportunity are opened, and students are encouraged to lay a foundation for their knowledge on a deep sense of God's incarnate love and grace in Jesus Christ.

Within this catalog, you will find information regarding the programs, procedures, and policies of ENC. Let me encourage you to look closely at the details of program and policy, but beyond that, to look intently at mission and ministry. The college community atmosphere in which you pursue your education is vital to the quality of the learning experience and to the preparation that one makes for a fulfilled life of committed service.

Many colleges will give you opportunities for success in your chosen field, but ENC goes beyond this to help you ground that success in knowledge of God's intentions for humankind. Our community will challenge you not only to know the truth in all its multifaceted dimensions, but also to commit your life to the divine source of all truth. ENC is dedicated to the proposition that service to God and neighbor is not only consistent with the life of the mind, but also required as a disciplined cultivation of the soul.

Founded over 100 years ago, ENC exists to further students in their educational and spiritual development.

We look forward to serving you.

*Dr. Corlis McGee
President*

ABOUT THIS CATALOG

This catalog is an official publication of Eastern Nazarene College. The catalog is an informational guide to ENC's academic programs. It is not a contract between ENC and its students. Although ENC has made every effort to ensure that the information contained in the catalog is accurate and complete at the time of printing, the contents are subject to change at any time. ENC reserves the right to unilaterally add, withdraw or revise any course offering, course description, teaching assignment, program of study, on or off-campus location, policy, practice, provision or requirement described in the catalog, including statement of fees, policies, admissions and graduation requirements.

Students are responsible for acquainting themselves with the policies, requirements, rules, and regulations of ENC included in the catalog and in other official ENC publications. Students check the college website at www.enc.edu to view published changes to this catalog.

ABOUT ENC

Mission

The mission of Eastern Nazarene College is to serve God, the Church, and the World by providing a quality liberal arts education to students of all ages. Consistent with its Wesleyan heritage, ENC seeks to create and maintain an environment which awakens and fosters truth, righteousness, justice, and holiness as made possible by God's transforming grace through Jesus Christ.

To be faithful to our Wesleyan heritage requires that we as a community of scholar servants: recognize the primacy of Scriptural authority; be consciously and proudly part of the broad, ancient tradition of the Christian faith – that we be genuinely ecumenical; affirm justification by grace through faith; recognize that God's grace "transforms," as well as "pardons"; be effective apologists of the Christian faith; commit ourselves to discipleship and accountability, and be committed to compassionate ministries.

ENC seeks to serve the Church of the Nazarene in particular and the church in general by equipping people for Christian leadership and service to humanity. As a Christian community, ENC strives to embody academic excellence, personal integrity, and respect for each individual. The entire educational program encourages each person to become a creative and redemptive force in the world through integration of the richness of the Christian tradition and the human quest for understanding.

Eastern Nazarene College seeks to fulfill its mission by striving towards the achievement of the following goals:

ENC is a Christian community striving for excellence.

1. ENC seeks to foster a Christian educational community where every policy and all relationships are grounded in the Biblical mandate to love and treat each person as a child of God.
2. ENC seeks to be a community where every member is encouraged to move holistically toward his or her full physical, social, intellectual, and spiritual

- potential. ENC affirms the concept of a “seamless curriculum” which emphasizes the importance of both formal and informal learning opportunities.
3. ENC recognizes that the campus spiritual environment is the responsibility of the entire community. Recognizing that ENC’s history is replete with examples of students whose lives have been impacted spiritually by staff and faculty alike, the college seeks to employ wherever possible staff and faculty who affirm the Lordship of Jesus Christ in their lives.
 4. ENC seeks to be a diverse community which models the Biblical description of the Kingdom of God – a kingdom formed “from every tribe and language and people and nation” (Revelation 5:9).
 5. ENC strives to create an environment of excellence in all that it does and is – spiritually, academically, culturally, financially, and in terms of personnel and facilities.
 6. ENC seeks to be an agile institution, which secures financial resources sufficient to fulfill its mission, while cultivating an attitude toward the future, which prizes flexibility in adapting to a rapidly changing world.
 7. ENC strives to create an atmosphere focused on providing ever better service to its students and constituents. Service must be the concern of every member of the community.

ENC is a Wesleyan educational community.

8. ENC seeks to foster a community of Christian scholars and teachers who reflect a Wesleyan perspective which centers on the dynamic interaction of Scripture, tradition, reason, and experience, and which responds in word and deed to the Biblical mandate to live fully consecrated lives infused with and cleansed by the power of the Holy Spirit.
9. ENC intends to provide a quality liberal arts education in which each student can discover the breadth and relevance of the literary, philosophical, aesthetic, scientific, and religious achievements of human culture.
10. ENC seeks to develop the analytical, creative, and technical skills necessary for logical thought and clarity of written and oral expression.
11. ENC intends to offer undergraduate, graduate, and professional development education informed by the Christian perspective, which meets professional and constituent needs, and to do so in both traditional and nontraditional formats utilizing delivery methods appropriate to the age and experience of the students.
12. ENC seeks to serve all students who have the capacity and desire to pursue a college education and commits to offer the academic support services necessary to meet the needs of students representing a broad range of academic preparation.
13. ENC pledges to recruit and retain faculty willing and able to serve within the spirit of the college and the Church of the Nazarene, who are academically and professionally qualified, effective and inspirational teachers, and committed and active Christians, preferably within the Wesleyan tradition. ENC faculty will continue to affirm the historic teachings of the church as expressed in the Apostles’ and Nicene Creeds, participate in the life and ministry of a local church, and model lives which reflect the love of Christ.

ENC is a community dedicated to serving its students, the church, the world.

14. ENC strives to prepare students for careers, graduate studies, and service through our educational curriculum and career counseling.
15. ENC strives to prepare students to grapple successfully with the moral dilemmas of our day by cultivating an understanding of the Christian tradition and the broad liberal arts in order to foster knowledge of God and our world.
16. ENC purposes to inspire students to accept responsibility and to prepare them for leadership which will energize the church, serve the community, and foster stewardship of God's creation.
17. ENC seeks to strengthen its relationship with alumni by providing opportunities to collaborate with the college in planning for the college's future, securing the necessary resources to accomplish the mission, mentoring college-bound students, and assisting those who have graduated.
18. ENC seeks to foster a sense of shared mission through communication, collaboration, and cooperation between ENC and the Nazarene churches of the Eastern Region and throughout the world.
19. ENC commits to fostering a closer, more collaborative relationship with the larger evangelical community and historic Christian communities who affirm with us the creeds of the early church.
20. ENC strives to develop ever closer ties to the South Shore and the Greater Boston communities, educational institutions, businesses, professions, governments, and human service organizations in order to play our part in creating through education and service a more humane world.

ENC Community

From its inception in 1900, move to Quincy in 1919, and to the present, Eastern Nazarene College has pursued a mission of excellence in education in an atmosphere of Christian faith. ENC is one of nine liberal arts colleges supported by the International Church of the Nazarene in the United States and Canada, and part of an educational network of sites supported by the church around the world. The college is located in a suburb of Boston, Massachusetts, which places the college within one of the great hubs of educational, cultural, and scientific endeavor in the world. Eastern Nazarene College is coeducational and offers resources and opportunities for participation, advancement, and service to all students regardless of race, religion, national origin, gender, age, disability, genetic information, veteran status, or any other category protected by law. Although the majority of the students come to ENC from Nazarene church backgrounds, over 30 denominations are represented by the nearly 1100 undergraduate students on campus and in the adult education program. Besides strategic location and equal opportunity, an additional advantage ENC students enjoy over students in larger universities is one of greater personal contact with faculty members who are dedicated not only to their scholarly activities, but also to their personal lives of faith. Rather than sheltering students from challenging ideas and controversial issues, ENC professors encourage debate of ideas and issues as a means of learning, to search for truth, greater depth, and personal meaning in one's faith. With a student to faculty ratio of 14 to 1, students enjoy the rarity of getting to

know their professors personally within the context of the classroom and in extracurricular activities. All of these elements are reflected in the mission statement and goals that seek to guide every aspect of the college's development.

The ENC Ideal

Eastern Nazarene College seeks, in each member of its community, to enlighten the mind, to enhance the quality of personality, to enkindle a never-ending search for truth, and to enable each, out of Christian love and concern, to serve others creatively and responsibly. Both faculty and students subscribe to these principles, as follows.

Truth: We will persevere in our search for truth in our studies, our human relationships, and our knowledge of God. We will endeavor to express clearly, concretely, and consistently in all phases of our lives, the truth as we see it.

Values: We will consciously seek the highest values in all phases of our lives - literature, the arts, recreation, personal human relations, government - by actively supporting and encouraging their expression wherever we find them.

Creative Scholarship: We will seek to advance knowledge, both secular and religious, by exploring new, fruitful approaches to deeper insights, wider perspectives, and more effective applications of liberal arts, science, and spiritual values to humankind under a motivation that springs from our Christian commitment.

Christian Faith: We will orient our thinking and our living around a commitment to the Christian way, seeking ever to deepen our own spiritual lives and to disseminate the Gospel as widely as possible.

Accreditations/Affiliations

Eastern Nazarene College is accredited by the New England Association of Schools and Colleges, Inc. through its Commission on Institutions of Higher Education. Inquiries regarding the accreditation status by the New England Association should be directed to the administrative staff of the institution. Individuals may also contact:

Commission on Institutions of Higher Education
New England Association of Schools and Colleges, Inc.
209 Burlington Road, Bedford, MA 01730-1433
(781) 271-0022, E-Mail: cihe@neasc.org

In addition, Eastern Nazarene College has gained professional and program accreditation from the following agencies:

Department of Education of the Commonwealth of Massachusetts
Interstate Certification Compact for all Teacher Education Programs
National Association of State Directors of Teacher Education and Certification
Council on Social Work Education
Massachusetts Board of Higher Education

Eastern Nazarene College is also a member of the following organizations:

American Association for Adult and Continuing Education
American Association of Colleges for Teacher Education
American Association of Collegiate Registrars and Admissions Officers
American Association of Higher Education

American Association of Presidents of Independent Colleges and Universities
American Council on Education
Association of Business Administrators of Independent Christian Colleges
Association for Christian Adult Higher Education
Association of Governing Boards of Universities and Colleges
Boston Education Collaborative
Christian Higher Education Commission of the National Association of Evangelicals
The College Board
Commission on Higher Education of the Christian Holiness Association
Consortium for the Advancement of Adult Higher Education
Council for Christian Colleges and Universities
Council for the Advancement and Support of Education
Council of Independent Colleges
Massachusetts Association for Intercollegiate Athletics for Women
Massachusetts Association of Colleges for Teacher Education
National Association of Advisers for the Health Professions
National Association of Christian College Admissions Personnel
National Association of College Admissions Counselors
National Association of College and University Business Officers
National Association of College Broadcasters
National Association for Developmental Education
National Association of Independent Colleges and Universities
National Association of International Educators
National Association of Social Workers
National Association of Student Personnel Administrators
National Collegiate Athletic Association (Division III)
National Council of Teachers of English
New England Resource Center for Higher Education

Notice of Nondiscrimination Policy

Eastern Nazarene College stands committed to providing all students fair treatment and an educational environment free of unlawful discrimination and harassment. ENC does not discriminate on the basis of race, color, religion, national origin, gender, age, disability, genetic information, veteran status or any other category protected by law in admission to, access to, treatment in, or employment in its programs and activities. In addition, discriminatory harassment based on race, color, religion, national origin, gender, age, disability, genetic information, veteran status or any other category protected by law is illegal conduct that will not be tolerated by ENC.

Any student who believes he or she is being subjected to unlawful discrimination or unlawful harassment, including sexual harassment, should inform the Vice President of Student Development, the Director of Residential Life, the Academic Dean or the faculty advisor. Students are to refer to the student handbook for further information.

LIBERAL ARTS EDUCATION AND CORE CURRICULUM

Liberal Arts Education

All students in the undergraduate bachelor's degree program, regardless of major concentration, are required to complete a comprehensive set of courses designed to challenge the student to a never-ending quest for new knowledge and personal growth. The liberal arts General Education curriculum opens new dimensions to the student through the study of great personalities, ideas, and movements of history. These foundational courses explore written and oral communication skills and an understanding of social science, mathematics, science, literature, history, intercultural awareness, art, philosophy, and because of our unique Christian perspective, foundational Biblical truths. The faculty members in every major field of concentration expect students to approach specific courses of study with this comprehensive underpinning of cultural, philosophical, literary and communicative understanding. Within the liberal arts core curriculum is the Cultural Perspectives sequence, which consists of six integrative courses that present the study of culture from a variety of perspectives: history, literature, art and music, science, and philosophy. The culminating course is Living Issues, a capstone course taken in the senior year, designed to help students relate these cultural perspectives to their major and to problems in the modern world.

It is the objective and the responsibility of the college to transmit cultural heritage, to cultivate a love of learning, and to provide the student with a firm basis to solve contemporary problems. The general education core requirements are distributed over the entire college experience and are generally intertwined with major courses of study throughout the four-year span. Core requirements for associate degree programs are listed within program descriptions.

General Education Philosophy and Objectives

The goal of General Education at Eastern Nazarene College is to educate students in the context of a Christian understanding of the human experience. Our approach to General Education is founded on our view of God as the ultimate patron of honest exploration, human creativity and dedicated service. We view the world as God's creation and humans as created in the image of God as revealed in Jesus Christ. Our highest goal is to glorify God, which we do by worshipping Him, seeking to understand His creation and serving others. We believe the Holy Spirit offers a good future to the world, enabling and commissioning us to participate in His transforming work.

In these ways, the Christian perspective which informs our General Education goals is Wesleyan. ENC's General Education Curriculum is designed to assist students in the lifelong process of formulating, refining and articulating their worldviews in the light of the Christian tradition, the Western heritage, and the current cultural setting. We pursue this goal by offering a curriculum that is designed to achieve the following objectives.

1. To instill in students an appreciation for a God-given coherence and meaning to life.
2. To assist students in the development of their physical, intellectual, spiritual and aesthetic sensitivities and abilities.
3. To develop the critical thinking and analytical, creative and expressive skills for articulate reflection and effective communication.

4. To provide students with a broad base of general knowledge about the personalities, ideas and movements that have shaped the contemporary world.
5. To introduce students to the interrelationships among the arts, the sciences, aesthetics, morality, historical place and meaning, social existence and religious faith.
6. To foster students' understanding and appreciation of cultures or languages other than their own.
7. To cultivate a love of learning that serves students throughout their lives.
8. To equip and motivate students with the scriptural and theological resources needed to engage their culture as Spirit-guided messengers of hope and redemption.

General Education Requirements and Recommended Sequence

All students are required to complete the following set of General Education courses as part of the student's liberal art education. Some majors require specific courses to fulfill the General Education requirements. In addition, some majors (particularly science, music education, and education) follow a department recommended sequence. Therefore, it is very important for students to consult closely with their advisor when registering for classes in order to take the required courses in the recommended sequence.

Communication Skills Requirement - 9 credits

All students are required to successfully complete a writing sequence and speech. These courses form a foundation for success in college due to their emphasis on writing, research and presentation skills. Students who are required to take developmental courses must successfully complete EN098/EN099 prior to enrolling in Critical Writing or Rhetoric.

The ability to speak confidently and convincingly in public is an asset to all students who want to take an active role in the classroom, workplace, church and the community. Public speaking sharpens the student's ability to reason and think critically.

Oral communication skills including speaking and listening have been identified as the fundamental competencies for tomorrow's workers. In fact, a survey of 480 organizations conducted by the National Association of Colleges and Employers ranked oral communication skills as the most desired quality sought by employers and as the most vital qualification for job advancement.

Freshman Year: Writing and Research - 6 credits

EN103 Critical Writing (3 cr) Emphasizes critical thinking, summary, analysis, and synthesis of source material in the writing of student essays on cross-disciplinary topics. Several short documented essays and a research paper of 2500 words with proper documentation are required. The research process is an integral part of this course. *Prerequisite: EN098 Writing for College is required for students whose entrance tests indicate a weakness in this area.*

EN104 Rhetoric (3 cr) Examines classical rhetoric and its influence on the writing and presentation of an argument. Emphasizes how ideas and evidence are developed through written argumentation and oral debate. A final research paper is required. Can be taken as honors class, and students in the honors section

critically evaluate argumentative strategies in challenging readings and develop creative ways of writing an effective argument in a series of papers culminating in a research paper. *Prerequisite: EN103 or equivalent.*

Physical Education Requirement- 2 credits

Recommended for Freshman/Sophomore years: All students are required to complete 2 credits of physical education activity courses. All courses are graded as Pass/Fail. All courses are repeatable for credit with the exception of PE222 First Aid and CPR. Varsity athletes may earn credit for participation in a varsity sport upon official request by the student to the athletic department for a maximum of 2 credits. One credit may be earned for each full season of varsity participation. See the Movement Arts Department for a list of previously offered activities. Only PE001/002 course numbers may be earned toward the PE requirement. Skill and Theory courses (200 level) are offered only to Movement Arts and Physical Education majors.

Biblical Literature and Christian Tradition Requirement - 6 credits

All students are required to complete two foundational courses offered by the Religion Department.

Freshman Year

BL110 Biblical History and Literature (3 cr) Surveys the Christian Bible with the following objectives: understanding the central ideas and themes of the Bible; familiarity with its chief persons, places, and events; awareness of the types of Biblical literature; and development of the ability to study the Bible effectively. *Offered fall and spring.*

Junior Year

TH300 Christian Tradition (3 cr) Introduces the Christian tradition according to what the Christian Church has believed, taught, and confessed on the basis of the Word of God. Focuses on the historical and doctrinal. Serves the Apostles' Creed and the Nazarene Articles of Faith as models by surveying the historical and doctrinal foci of the Christian tradition. *Prerequisites: BL110, CP210, CP295, and Junior standing. Offered fall and spring, often in summer.*

Lab Science Requirement and Math or Science Requirement - 7 credits

All students must fulfill this requirement with two of the following courses. One course **MUST** be a LAB SCIENCE. The other may be a science or mathematics course, unless otherwise specified in certain majors. **Students should consult with their advisor to determine if specific courses are required for their major.**

For most students it is **HIGHLY** recommended that students fulfill their math and lab science options during their freshman year in order to build on their previous educational experiences. Students who are required to take either MA098/MA099 must successfully complete these courses before taking any of the mathematics (including PS251 Statistics for the Social Sciences) or any science courses.

Recommended Lab Sciences (with no prerequisites) - 4 credits

BI110/BI110L Nutrition (for non-majors) w/Lab

BI210/BI210L Earth Science w/Lab

CH101/CH101L Introduction to Chemistry w/Lab

PY101/PY101L Astronomy w/Lab

PY102/PY102L Physical Science w/Lab

Recommended Lab Sciences (for those strong high school science background. Prerequisites required.) - 4 credits

CH102/CH102L Chemistry of Life w/Lab

BI103/BI103L Introduction to Cell Biology and Genetics w/Lab

BI230/BI285L Oceanography w/Lab

PY201/PY201L General Physics I w/Lab

Mathematics or Science Requirement - 3 credits

CS101 Introduction to Computer Science

CS110 Principles of Computer Information Systems

CS131 Computer Programming I

MA101 Math Explorations

MA109 Finite Mathematics

MA111 College Algebra

MA118 Introduction to Statistics

MA122 Trigonometry

MA151 Calculus I (4 credits)

MA152 Calculus II (4 credits)

Specifically excluded:

MA098 Fundamentals of Mathematics

MA099 Math for College

Social Science Requirement - 6 credits

Students may fulfill this requirement with two courses from the list below. Courses used to fulfill this requirement generally may not be used for other core requirements or to meet requirements in the major. Please be sure to take note of prerequisites for all courses. Students should consult their major degree requirements to determine if specific courses are required for their major.

All Psychology courses - PS110 through PS499

All Sociology courses - SO110 through SO499

All Criminal Justice courses - CJ251 through CJ499, except for

CJ180 Introduction to Criminal Justice

IN210 Peoples and Cultures of the World

IN299 Special Topics in Intercultural Studies

IN220 International Studies Travel Seminar

BA231 Principles of Economics I (Microeconomics)

BA232 Principles of Economics II (Macroeconomics)

GO210 American Political Institutions

GO220 World Political Geography

GO310 International Relations

GO320 Comparative Government

SW245 Moving Toward Personhood

SW312 Marriage and Family Relations

CO220 Interpersonal Communications

Specifically excluded:

CJ180 Introduction to Criminal Justice

SO392 Special Topics in Sociology

Intercultural Literacy Requirement - 6 credits

Students who have not successfully completed a two-year language sequence in high school must fulfill this requirement with two introductory foreign language courses (Hebrew, Greek, Spanish). Students who have successfully completed the language sequence in high school may fulfill this requirement with two of the courses listed below. Language courses require an examination for proper placement. Courses used to fulfill this requirement generally may not be used for other core requirements or to meet requirements in the major. However, courses used to meet this requirement may be used to meet the requirements of a minor. Beginning in academic year 2007-2008 the following courses may be used to fulfill the intercultural literacy option.

BI343/343L Field Problems in Anthropology and Ecology/Lab

CO336 World Drama I

CO337 World Drama II

EN211 Introduction to Linguistics

EN394 International Short, Short Story

EN398 African-American Literature

GK101 Elementary Greek I

GK202 Elementary Greek II

HE201 Elementary Hebrew I

HE202 Elementary Hebrew II

HI250 Understanding the Middle East

HI320/SO320 Seminar in Globalization

IN210 Peoples and Culture in the World

IN299 Special Topics in Cultural Studies

MI110 Introduction to Missions

MI200 Travel Course in Missions (Mozambique)

MI300/PH300 World Religions

SO212 Human Diversity

SP101 Elementary Spanish I

SP102 Elementary Spanish II

Cultural Perspectives - 18 credits

A distinctive feature of the curriculum at Eastern Nazarene College is the Cultural Perspectives sequence. This is a series of chronologically organized courses which seek to integrate various disciplines in the liberal arts (e.g., philosophy, history, literature, natural sciences) in the context of Christian higher education.

The primary goal of this sequence is to introduce students to various ways of understanding the world while maintaining a Christian perspective. Each course presents students with content which is related to other courses in the sequence on a regular basis. As a result, our aim is to help students see the interrelated nature of knowledge. This approach is based on our core belief that all truth is from God, meaning that there is a oneness and unity to all human understandings.

The Cultural Perspectives sequence attempts to achieve a further goal of enabling students to understand and appreciate the Western cultural heritage as a significant shaper of our contemporary world. In the effort to achieve this goal, students are presented with a comprehensive overview of Western culture, including its art,

philosophy, literature and music.

Throughout the Cultural Perspectives sequence, students are encouraged to develop their critical thinking skills in the context of Biblical concepts of truth, justice, righteousness, and holiness. Students are encouraged to use Christian values as a means of developing their own worldviews as a basis for responding to issues of the day. Where patterns of culture contradict Scriptural mandates, faculty members assist students as they confront and seek to transform the society in which they live.

The Cultural Perspectives sequence is at the heart of the curriculum of Eastern Nazarene College. As such, it represents the foundation on which all other aspects of the curriculum are based. Throughout, it seeks to demonstrate that Biblical principles are dependable guides in the development of a worldview that gives meaning and significance to human existence.

CP210 Western Heritage (3cr) Summary view of the development of humanity in the Western world with emphasis upon the problems of unity, continuity, and change in history. *Prerequisites: EN103 and EN104 (at least concurrently).*

CP230 Arts and Music (3 cr) An integrated presentation of the histories of art and music with emphasis on aesthetics, as well as practical approaches to viewing art and listening to music. *Prerequisites: Sophomore standing and EN103, EN104, CP210.*

CP240 World Literature (3 cr) A humanities course aimed at developing a true appreciation of the literature of the Western world through an understanding of the great ideas that make up our common heritage of thought and feeling and the forms in which they have been expressed. *Prerequisites: Sophomore standing, EN103, EN104, CP210 (at least concurrently).*

CP295 Philosophical Quest* (3 cr) This course is an historical introduction to the most significant issues which have confronted humankind in the quest of meaning. Attention will be called to the concepts, issues, and philosophers which have played the greatest role in Western civilization. Some emphasis will be placed upon correlations with other courses in the Cultural Perspectives sequence. *Prerequisites: Sophomore standing, EN103, EN104, CP210 (at least concurrently).*

CP320 Epoch-Making Events in Science (EMES) (3 credits)** Consideration of the great ideas of science: the environments from which they arose, the people involved, and their impacts upon contemporary and succeeding civilization. Interactions of scientific thought with prevailing philosophical and religious outlooks are considered. Among the ideas and epochs discussed are: the origin of the Western scientific tradition in Ancient Greece, the Copernican revolution, evolutionary theory, relativity, atomic theory and quantum physics, and modern cosmology. This course includes brief discussion of the religious implications of contemporary science. *Prerequisites: BL110, CP210, CP295, one lab science course.*

CP410 Living Issues (3 credits) This is the capstone course in ENC's Cultural Perspectives sequence of courses, designed to expose students to some of the major challenges facing humanity as a whole and the student as an individual. One of the primary course objectives is the exploration of the tensions and possibilities that exist for Christian faith and values in a society permeated with individualism, materialism, and despair. This course also deals with moral philosophy, considering social issues and morality from the vantage point of individual ethics and responsibility. *Prerequisites: CP295, Senior standing.*

**Note: IS199 Contemporary Questions may be substituted for CP295.*

Summary of General Education Course Sequence — A Checklist

Freshman Year	Sophomore Year	Junior Year	Senior Year
CO110 EN103 EN104 Intercultural Literacy Social Science Mathematics Lab Science Biblical Literature 2 PE Courses	CP210 CP230 CP240 CP295 Intercultural Literacy Social Science 2 PE Courses	TH300 CP320	CP410

ACADEMIC DIVISIONS

Traditional Undergraduate Division

The traditional undergraduate program at Eastern Nazarene College is built upon a General Education curriculum which is the foundation for each of the college's major programs of study. Each student seeking a bachelor's degree is required to complete the core curriculum which includes eleven specific courses and eight other course options in four different academic areas. Core requirements for students seeking the associate degree are somewhat less extensive.

In addition to the general education curriculum, each student will select a major program of study, and in some instances, a special set of courses to prepare for particular careers. Sixteen departments in five academic divisions offer 50 majors, certification programs in education, cooperative programs in engineering, and five pre-professional programs.

Full-time undergraduate students register for 15 to 17 credit hours per semester. Most ENC courses are worth three credit hours each, which means a full load during a semester is normally four to five courses. **Students are expected to spend at least twice as much time studying outside of class as they spend in class each week.** The one-month January term offers the student opportunities both for a change of pace and for experiences which do not fit easily into the regular semester. Each student schedules one three-credit course and most classes meet for three hours each weekday morning during the month. Travel-study courses, interdisciplinary courses, and practical experiences are available. Team teaching is employed in Liberal Arts Core courses on a variety of levels. Enrichment courses are offered for juniors and seniors, and independent study may be designed by qualified students with permission of a professor. Many students are able to complete their degree requirements within four academic years. However, for a variety of reasons, more and more students are now requiring more than four years to complete their degrees.

Adult Studies Division - Undergraduate Programs

The Adult Studies Undergraduate Program offers accelerated programs at the associate's and bachelor's levels. The bachelors' programs are offered in a format that enables working adults, with a significant amount of transfer credit, to complete a

Bachelor of Science or a Bachelor of Arts degree in two years, meeting one evening per week for class sessions. Adult Studies also offers a similarly structured Associate of Arts degree in General Business. Each program's curriculum, instruction, and administration combine theoretical knowledge with the student's background of practical experience. Please contact Adult Studies for degree requirements or click on the Adult Studies link found on the college website at www.enc.edu.

Associate's Degree

In order to earn an Associate's Degree, a student must successfully complete the following degree requirements:

- A minimum of 62 total credit hours
- A minimum of 17 credit hours (some programs may require additional credit hours) in the Liberal Arts Core curriculum as follows:
 - EN103 Critical Writing
 - EN104 Rhetoric
 - CO110 Fundamentals of Speech
 - PE001 or PE002 Physical Education requirement (1 credit)
 - BL110 Biblical Literature and History
 - CP210 Western Heritage
- Choice of one of the following:
 - CP230 Arts and Music
 - CP240 World Literature
 - CP295 Philosophical Quest
- A minimum of 18 credit hours in the major area of study
- A cumulative grade point average of 1.8 or better

Bachelor's Degrees

In order to earn an Bachelor's Degree, a student must successfully complete the following degree requirements:

- A minimum of 123 total credit hours
- Completion of the Liberal Arts Core curriculum (General Education requirements)
- Completion of a major, as specified in the departmental listing, with a grade of C- or better for all courses applied to the major, unless otherwise stated by the department
- Completion of the senior year (30 credit hours) and a minimum of one-half of the major in residence at ENC
- Electives completing the total number of credit hours needed
- Comprehensive examination and/or project in the major field completed to the satisfaction of the major department
- A cumulative grade point average of 2.0 or better based on student major

Dual Degrees: BA and BS Degrees

Students who pursue a major to earn a Bachelor of Arts and a major to earn a Bachelor of Science degree are considered to be dual degree students. A dual degree student must complete the following requirements:

- A minimum of 153 total credit hours
- Completion of the general Liberal Arts Core curriculum
- Completion of two majors as specified in the departmental listings, with a grade of C- or better for all courses applied to either major
- Completion of the senior year (30 credit hours) and a minimum of one-half of the major in residence at ENC
- Electives completing the total number of credit hours needed
- Comprehensive examinations in both major fields completed to the satisfaction of each major department
- A cumulative grade point average of 2.0 or better

Minors

Minors are offered in every area of study in which a major is offered. Minors generally consist of 15 credits in a department. Please consult the individual departmental curriculum for requirement details.

Preparatory Programs for Graduate Studies

ENC offers students the option of preparing for graduate school in a specific field of study. ENC offers tracks in the following areas:

Pre-Law	Pre-Occupational Therapy
Pre-Nursing	Pre-Physical Therapy
Pre-Medicine	Pre-Pharmacy

Graduate Division

The Graduate Program is designed to provide professional preparation and certification for students in service-oriented careers such as education and counseling, as well as management. Degrees offered include the Master of Science in Marriage and Family Therapy and the Master of Education. MEd candidates will be eligible for licensure in the Commonwealth of Massachusetts. Most courses are offered during the late afternoon and evening to accommodate working adults. Nontraditional programs are offered within the graduate program in several areas. Saturday MEd licensure programs in educational administration, special needs, and reading are available. Management courses are offered in the evenings and on weekends.

MAJORS, PROGRAMS AND DEGREES

MAJOR	PROGRAM	DEGREE	COLLEGE DIVISION
Biology	Biology	BA, BS	Natural Sciences
Biochemistry	Biology/Chemistry	BS	Natural Sciences
Business	General Business	BA, BS	Social Sciences
Business	Management Business	AA, BS	Social Sciences
Business	Marketing Business	BS	Social Sciences
Business	Communications Arts/Business	BS	Interdisciplinary
Business	Chemistry/Business	BS	Interdisciplinary
Chemistry	Chemistry	BA, BS	Natural Sciences
Communication Arts	Journalism/Communication Arts	BA	Arts and Letters
Communication Arts	Advertising and Public Relations/Comm Arts	BA	Arts and Letters
Communication Arts	Television/Radio Communication Arts	BA	Arts and Letters
Communication Arts	Theatre/Communication Arts	BA	Arts and Letters
Computer Science	Computer Science	BA, BS	Natural Sciences
Criminal Justice	Criminal Justice	AA, BA	Social Sciences

MAJORS, PROGRAMS AND DEGREES *(continued)*

MAJOR	PROGRAM	DEGREE	COLLEGE DIVISION
Education	Early Childhood Education/Liberal Arts	AA, BA, Cert.	Teacher Education
Education (Elementary)	Elementary Education/Liberal Arts	BA, Certification	Teacher Education
Education (Middle)	Middle School Various	BA, Certification	Teacher Education
Education (Secondary)	Secondary School Various	BA	Teacher Education
Education	Music Education/Music	BA, Certification	Teacher Education
Education	Physical Education/Movement Arts	BS, Certification	Teacher Education
Engineering	Computer Engineering	BS	Natural Sciences
Engineering	Electrical Engineering	BS	Natural Sciences
Engineering	Engineering Studies	BA	Natural Sciences
Engineering	General Engineering	BS	Natural Sciences
English	Literature English	BA	Arts and Letters
English	Writing Studies English	BA	Arts and Letters
Environmental Science	Environmental Science	BS	Natural Sciences
Forensic Science	Forensic Science	BS	Natural Sciences
Government	Various	Minor	Social Sciences
Health Science	Health Science	BA, BS	Natural Sciences
History	History	BA	Social Sciences
History Education	History	BA	Social Sciences
International Studies	Various	Minor	Social Sciences
Liberal Arts	Liberal Arts	BA	Interdivisional
Mathematics	Mathematics	BA, BS	Natural Sciences
Movement Arts	Movement Arts	BS	Social Sciences
Music and Business	Interdisciplinary	BA	Arts and Letters/Social Sciences
Music and Communication Arts	Interdisciplinary	BA	Arts and Letters
Music and Computer Science	Interdisciplinary	BA	Arts and Letters/Natural Sciences
Music Performance	Music	BA	Arts and Letters
Music Performance/Music History	Music	BA	Arts and Letters
Music Performance/Music Theory	Music	BA	Arts and Letters
Music	Church Music	BS	Arts and Letters
Music/Music Composition	Music	BA	
Music/Contemporary Music and Recording	Interdisciplinary	BA	Arts and Letters
Music/Contemporary Music Business	Interdisciplinary	BA	Arts and Letters
Music/Instrumental Performance	Music	BA	Arts and Letters
Music/Vocal Performance	Music	BA	Arts and Letters
Philosophy	Religion	Minor	Religion and Philosophy
Physics	Physics	BA	Natural Sciences
Physics	Physics	BS	Natural Sciences
Psychology/Sociology	Psychology/Sociology	BA	Social Sciences
Psychology Child/Adolescent Development	Psychology	BA	Social Sciences
Psychology Clinical and Research	Psychology	BS	Social Sciences
Psychology Social Relations	Psychology	BA	Social Sciences
Religion	Religion	BA, Minor	Religion and Philosophy
Religion Christian Ministry (Non-Ordination)	Religion	BA, Minor	Religion and Philosophy
Religion Christian Ministry (Ordination)	Religion	BA	Religion and Philosophy
Religion	Missions/Religion	Minor	Religion and Philosophy
Religion	Spiritual Formation/Religion	Minor	Religion and Philosophy
Religion	Church History	Minor	Religion and Philosophy
Religion	Biblical Languages (Minor)		
Religion	Biblical Literature (Minor)		
Religion	Urban Ministry Sociology/Religion	BA	Social Sciences/Religion and Phil
Religion/Youth Ministry	Religion	BA	Religion and Philosophy
Social Work	Social Work	BA	Social Sciences
Sociology	Sociology	BA	Social Sciences
Sociology Criminal Justice	Sociology	BA	Social Sciences
Sports Management	Interdisciplinary	BS	Social Sciences
Theology	Religion	Minor	Religion and Philosophy
Theology Philosophy	Religion	BA	Religion and Philosophy

ADMISSIONS INFORMATION AND REQUIREMENTS

Recommended Preparation

As a high school student, it is important that one has a solid academic curriculum to prepare for college. In order to be equipped for college work at ENC, we strongly recommend that a student have a minimum of 16 college preparatory units in the following areas:

English 4	History 1-2
Language 2-4	Mathematics 2-4
Social Sciences 1-2	Natural Sciences 2-4

Admissions Application

The decision for admission will be made on the basis of the information submitted. It is necessary for the student to send the Admissions Office the following items:

- Application for Admission and Financial Aid, completed by the student. This may be submitted online at www.enc.edu or through the US mail. Online applications are free; hard copy applications are free until December 31 of the year before entry. From January 1 through the beginning of the Fall semester, paper applications must be accompanied by a \$25 non-refundable fee.
- Secondary school transcript submitted by the student's guidance counselor directly to ENC. The transcript should include grades received and courses in progress-to-date, as well as current class rank. A student who makes application prior to completion of the first half of his or her senior year should have the school send ENC a supplementary transcript after the first semester of the senior year.
- An official report of a student's scores on either the SAT or the ACT. It is recommended that these examinations be taken by February of the student's senior year. The SAT is required, with 480 for Critical Reading, 480 for Math, and 480 for Writing. (ENC's SAT code is 3365.) The ACT is also accepted with a minimum composite score of 20. (ENC's ACT code is 1818.)
- One recommendation from a person who can attest to the student's academic ability and character. This recommendation should be completed by a nonfamily member, preferably a teacher, guidance counselor, pastor, or employer.
- An essay or an in-depth personal interview with an Admissions professional.

Transfer Students

Eastern Nazarene College welcomes applications from students who are interested in transferring from a regionally accredited institution. Transfer applicants should be in good academic, social, and financial standing at the institution previously attended and have a grade point average of 2.0 or better. Students are asked to furnish the same credentials as freshmen applicants, plus official transcripts from all colleges and universities attended.

Students Entering from Home Schooling Education

Students who have graduated from home schooling programs of study are encouraged to contact the Admissions Office early in their college planning, since home school students typically do not have ready access to guidance counseling. Enrollment counselors are available to guide students through the enrollment process. Home schooled applicants need to submit the following items in order to complete their admission process at ENC:

- The Application for Admission and Financial Aid completed by the student. The forms are available online at www.enc.edu or by contacting the Admissions Office and requesting that the forms be mailed.
- A comprehensive transcript of the student's academic program from grades 9 through 12, including a listing of courses, course descriptions, and grades.
- It is recommended that these examinations be taken by February of the student's senior year. The SAT is required, with 480 for Critical Reading, 480 for Math, and 480 for Writing. (ENC's SAT code is 3365.) The ACT is also accepted with a minimum composite score of 20. (ENC's ACT code is 1818.)
- One recommendation from a person who can attest to the student's academic ability and character. This recommendation should be completed by a nonfamily member, preferably a teacher, guidance counselor, pastor, or employer.
- An essay or an in-depth personal interview with an Admissions professional.

Students must submit documentation of high school completion with a diploma or one of the following:

- General Equivalency Diploma (GED) certificate or state certificate.
- Certificate of high school completion (recognized by the state, if applicable).
- Documentation of outstanding academic achievements.

Home schooled students that are interested in playing intercollegiate athletics should contact the Athletic Director early in the admission process to make sure they meet NCAA Division III eligibility regulations.

International Students

International students are welcome to apply to ENC. Any student who does not hold either U.S. citizenship or permanent resident status at the time of application will be considered as an international student. Students who wish to apply must be 18 years of age, have a high school diploma or its equivalent, and have an acceptable level of academic performance. Students must submit the following documents in English or the documents should be accompanied by a certified translation in English:

1. **Application:** Application for admission with signature by March 1 for the fall semester and September 1 for the spring semester.
2. **Recommendation:** One recommendation from a person who can attest to the student's academic ability and character. This recommendation should be completed by a nonfamily member, preferably a teacher, guidance counselor, pastor, or employer.
3. **Essay/Interview:** A one-page essay or a formal admission interview. Students choosing to submit an essay should answer the question recommended in the application packet. Students in the U.S. may choose to schedule a formal interview with an Admissions professional.

4. **TOEFL Requirement:** Proof of English proficiency. English proficiency must be submitted through the Test of English as a Foreign Language (TOEFL) with a minimum score of 500 (173 on the computer-based exam, 63 on the internet-based exam). (ENC's code is 3365.)
5. **SAT/ACT Requirement for International Students:** The SAT is required, with 480 for Critical Reading, 480 for Math, and 480 for Writing. (ENC's SAT code is 3365.) The ACT is also accepted with a minimum composite score of 20. (ENC's ACT code is 1818.)
6. **Foreign Student Certification of Finances:** Students must submit a Foreign Student Certification of Finances form, as well as official bank statements bearing an official bank signature and/or seal. All international applicants are required to provide sufficient financial documentation that proves their ability to finance their education for one academic year. This documentation must be received and evaluated by ENC prior to issuance of an I-20 form.
7. **National Examination Certificates:** Certified copies or originals of national examination certificates should be submitted. If these records are not in English, the originals should be accompanied by a certified translation in English. All documents should bear an original signature and official seal or stamp, and should be sent directly from the authorized school or examination center.
8. **Official Transcript:** Official transcript and leaving certificates or diplomas from ALL secondary schools, universities, or professional schools attended. These records should include dates of attendance, graduation date, names of subjects, and grades, with a description of the marking system giving the highest obtainable grade and the lowest passing mark.
9. **International Student Transcript Evaluation:** International students must have all high school, college, and university transcripts evaluated by one of the following independent evaluation services:
 - World Education Services (WES)
 - Bowling Green Station P.O. Box 5087
 - New York, NY 10274-5087
 - Telephone: 212-966-6311 or 1-800-937-3895
 - Fax: 212-739-6100 Email: info@wes.org
 For further information, please see www.wes.org.
 American Association of Collegiate Registrars and Admissions Officers (AACRAO)
 International Education Services
 One Dupont Circle, NW, Suite 520
 Washington, DC 20036-1135
 Telephone: (202)296-3359
 Fax: (202)822-3940 Email: oies@aacrao.org
 For further information, please see
www.aacrao.org/international/foreignEdCred.cfm.

Admissions Standards

Admission is normally granted on a rolling basis to applicants who rank in the upper half of their high school class. Typically, students admitted to ENC have an average SAT of 1050 (based on the previous SAT format without the Writing section), and

must present a minimum combined score of 1440 (480 for Critical Reading, 480 for Math, and 480 for Writing) for full admission. The Committee on Admissions (CA), however, looks at the entire student profile, including class rank, high school GPA, SAT/ACT scores, college transcripts, TOEFL scores (where applicable), and the recommendation in making the final decision. Applicants who do not meet these guidelines may be considered for admission through the College Achievement Program (CAP). Prior to considering applicants for CAP, the Committee on Admissions will require the student to take placement testing and may ask the student to provide additional materials attesting to readiness for college.

Advanced Placement - AP Tests and CLEP

Please see the Advanced Placement and CLEP Exams sections under Academic Information and Policies on page 50 for further description of advanced placement.

Honors Scholar Program

The Honors Scholar Program at Eastern Nazarene College is designed to supplement student academic and ethical development. The program continues the long history of academic excellence at ENC and encourages eligible individuals to participate in activities designed to stretch the mind and strengthen the heart. The Honors Program was instituted to provide opportunity for students of exceptional academic ability to dig deeper and reach higher in their pursuit of a Christian liberal arts education. Alternative and additional courses and activities are offered to students who want to graduate having earned the designation Honors Scholar. Honors Scholars participate in individual and group extracurricular activities, involve themselves in specialized service projects, and expose themselves to the thoughts of contemporary scholars in various fields of knowledge.

Eligibility Requirements: Incoming first-year students are evaluated based on scores on the Scholastic Aptitude Tests, ACT, and their high school GPA. Those students whose record demonstrates a potential for strong academic excellence are invited to join the Honors Scholar Society at the beginning of their first semester. Thereafter, a student may join and participate in Honors classes and activities if his/her composite GPA remains at or rises above 3.5. Because of the program's emphasis upon intelligence and character, however, Honors Scholars are expected to exercise greater initiative in scholarship and pursue consistently the disciplines and virtues associated with character excellence.

Benefits Enjoyed by Honors Scholars: Participation in honors courses or contracted honors courses involve an extension of the syllabi for contracted courses, with provision for academic challenge beyond that of non-honors courses. Honors courses completed successfully with a grade of B or better will be indicated as Honors Level on the academic transcript. Students who successfully complete the Honors Scholar Society requirements will be specifically recognized at graduation ceremonies, and these students will receive an Honors Scholar notation on their diplomas and transcripts. Honors Scholars enjoy access to student Honors Scholar programs, socials, lectures, trips, and leadership activities.

Application to the Society: Eligible students who wish to join the Honors Scholar Society and who meet the requirements must complete a member information form. Applicants must determine if the Honors Scholar Society requirements are expectations they feel they can continue to meet during their study at Eastern Nazarene College. For more information, contact the Associate Dean of Academic Affairs.

College Achievement Program (CAP)

The College Achievement Program provides developmental course work, tutoring, assistance with study skills, and academic counseling for students who may need assistance during a successful transition into college academics. Based on an overview of students' portfolios, the Office of Admissions identifies prospective CAP students' Accuplacer and Developmental courses. The Accuplacer test is administered prior to registration to determine which developmental courses will best prepare a student for college work. Developmental courses offered include:

- EN098 Writing for College
- EN099 Reading for College
- MA098 Fundamentals of Mathematics
- MA099 Math for College

Based on test results, students may then be exempt from some of these course requirements. Institutional credit is granted for these courses, but credit hours earned may not be applied toward graduation requirements. **Students must achieve at least a C in each developmental course before enrolling in subsequent college classes in Math, Science, or English.** In addition, all students admitted through the College Achievement Program who are required to take two or more developmental courses must register for CC101 First Year Seminar during their first term at ENC. All students are strongly encouraged to submit all necessary application materials, including those requested by the Admissions Committee, as early as possible during their senior year in high school. Please consult the description for each major for additional admission requirements. International applicants should consult the special instructions for international student admission.

FINANCIAL AID INFORMATION AND APPLICATION PROCESS

Eastern Nazarene College is among the most affordable private colleges and universities in the northeast. Nevertheless, many students, were they to rely solely on the resources available to them through their families, would probably be unable to attend. ENC annually awards significant financial assistance to help students pay for college. Students should investigate the types of financial aid for which they may be eligible and must apply annually for financial aid. Students who are to continue receiving financial aid must maintain satisfactory academic progress. Students must be currently enrolled at ENC or have gained admission to the college before the Financial Aid Office can determine eligibility for aid. Early application will ensure that college financial aid funds are not exhausted.

United States Citizen and Resident Alien Students

In order to be considered for financial assistance, students must submit the following documentation:

1. Complete the Free Application for Federal Student Aid (FAFSA) electronically on the Internet at www.fafsa.ed.gov or obtain a paper version of the form from the ENC Financial Aid Office or a secondary school guidance office. Students should make a photocopy of the completed form, as well as any other forms or letters they submit, for their records. Students may need to refer to this information at a later date. The completed FAFSA should be mailed to the federal processor or the school. This form is required to be eligible for any need-based aid.
2. The FAFSA is usually the only form required for residents who may be eligible for a state grant. Some states, such as Vermont, may require a supplemental form in addition to the Free Application for Federal Student Aid. This supplemental form will be available through secondary school guidance offices or appropriate state agencies. Complete and send this supplemental application form to the appropriate agency by the deadline.
3. A Verification Worksheet (dependent or independent), a signed copy of the parents' federal taxes including all schedules, a signed copy of the student's federal taxes including all schedules (and spouse's, if applicable), and a copy of all W-2 forms relative to these tax forms may be required for federal verification.

International Students

International students will be required to file:

1. An ENC International Financial Aid Application.
2. An ENC Foreign Student Certification of Finances form.
3. At least two of the following three types of documentation:
 - a) Previous year National or Federal tax forms for all persons named on the Foreign Student Certification of Finances form, including the student, the student's spouse, the student's parent(s), and the student's sponsor(s);
 - b) Employment statement(s) from employer(s) that include annual salary information for all persons named on the Foreign Student Certification of Finances form, including the student, the student's spouse, the student's parent(s), and the student's sponsor(s);
 - c) Bank statements bearing an official bank signature and/or seal documenting the resources of all persons named on the Foreign Student Certification of Finances form, including the student, the student's spouse, the student's parent(s) and the student's sponsor(s).

Notification of Award

Approximately three to six weeks after submitting the FAFSA, the student will receive a Student Aid Report (SAR). All of the colleges that have been listed in Step 6 of the FAFSA will receive this same information in an ISIR (Institutional Student Information Record). Please use ENC's Title IV School Code, 002145, in this section to ensure our access to your ISIR. In the event that the student did not list ENC on the FAFSA, but subsequently wishes to apply for aid at ENC, the student should photocopy the SAR, sign it, and send it to the ENC Financial Aid Office. The Financial Aid Office must have either an ISIR or a signed SAR from the student before a complete aid plan can be

prepared. Once either an ISIR or a SAR and an ENC Financial Aid Application have been received, the Financial Aid Office will process and send an award letter to the student outlining a financial aid plan. Students should be aware that financial aid awards are subject to change whenever new information is received by the Financial Aid Office. Aid may decrease or be withdrawn due to FAFSA data errors discovered in verification, withdrawing from the college or dropping below full-time status, or academic probation or suspension. Scholarships that arrive late in the process may alter the disposition of loan levels or eligibility. It is not uncommon for a student to receive an updated award letter from the college; these letters are considered to be estimated until the file has been verified or finalized.

Benefits of Applying for Financial Aid

Students should not assume ineligibility for financial assistance because of the level of family income. Factors such as large family size, age of the older parent, medical or other extraordinary expenses, and number of children in college are important considerations in determining financial need. Generally, all U.S. citizens and resident aliens, unless they have previously defaulted on a federal loan, are eligible for at least an unsubsidized Stafford Loan. *All students must submit an ENC Financial Aid Application to be considered for any type of institutional aid.*

TYPES OF FINANCIAL AID

There are two general categories of financial assistance for eligible students. Gift aid consists of grants, scholarships, and awards that do not require repayment. These include ENC institutional and endowed scholarships and grants, federal and state grants, and local scholarships. Self-help aid, as the title implies, consists of various ways for students to help pay for some of their college expenses through loan and employment programs. To some degree, both the gift aid and self-help aid categories are subdivided into merit-based aid, need-based aid and/or entitlement programs. Listed below are brief descriptions of the major types of financial aid available to students. For more detailed information and applications, students should contact the ENC Financial Aid Office.

Government Loan Programs

Federal Stafford Loan: Eligible dependent undergraduates may borrow up to \$3,500 per year during their first academic year (or as long as they maintain freshman standing) and up to \$4,500 per year during their second year (or as long as they maintain sophomore standing). Eligible juniors and seniors may borrow up to \$5,500 per year during their third, fourth, and fifth academic years. Half-time status is the minimum requirement to be eligible. For subsidized loans, payment and interest accrues six months after the student graduates, drops below half-time, or leaves school. For unsubsidized loans, interest accrues immediately while principal payments begin six months after the student graduates, drops below half-time, or leaves school. Students may choose to pay the interest while in college, keeping down the cost of the loan, or they may choose to defer the interest which will capitalize or compound, increasing the total cost of the loan. Eligibility for the Stafford Loan is determined by the FAFSA. Independent students are eligible for a supplemental loan program. *Before funds can be credited to the student's account, the student must*

complete an entrance loan counseling program. Please note that the guarantee and origination fees are extracted from the total amount of the loan, reducing the loan amount by three to four percent. *Borrowers must also complete an exit loan counseling program prior to leaving the college.*

Federal Perkins Loan: Exceptionally needy students, eligible under federal guidelines, may be offered Perkins Loans of up to \$1000 per year. Repayment schedules and interest benefits are similar to the subsidized Stafford Loan, except that interest accrues at 5%. The college administers this loan program on a first come, first serve basis, as funds are available. *All students are required to complete an entrance loan counseling program prior to signing the Promissory Note.* Once students have signed their note, the Perkins Loan amounts are applied to their student account. Students must apply with the FAFSA and ENC Financial Aid Application to be eligible for consideration. *Exit loan counseling is required prior to leaving the college.*

Government Grants

Federal Pell Grant: This grant is a need-based foundation of the federal financial aid program. Eligible students may receive from \$400 to \$4,310 toward educational expenses. Eligibility is based on need as determined by the Department of Education's standard formula that is revised and approved by the U.S. Congress each year. Grants do not have to be repaid. Apply with the Free Application for Federal Student Aid (FAFSA). The form can be printed from the FAFSA website at www.fafsa.ed.gov; is available at high school guidance offices; and may be requested from the Financial Aid Office at ENC. Pell Grants, as an entitlement program, are available regardless of when the FAFSA is filed during the year, up to the last class day of that academic year.

Federal Supplemental Educational Opportunity Grant (SEOG): This grant is administered by the college under the guidelines of federal policy as the funds are available. Eligible students who need additional assistance may receive from \$200 to \$600 for their educational expenses, with Pell recipients being given first consideration. In order to be eligible for consideration, the student must submit a FAFSA and an ENC Financial Aid Application.

Federal Academic Competitiveness Grant (ACG): This is a new grant program that began in the 2006-2007 award year for fulltime undergraduate students enrolled in an eligible program who receive Federal Pell Grants and are U.S. citizens. Students also must have completed a rigorous secondary school program of study. Eligible students who need additional assistance may receive \$750 for the first academic year. Students can receive \$1,300 for their second academic year as long as they maintain the above criteria and have at least a 3.0 GPA for the first academic year.

Federal National Science and Mathematics Access to Retain Talent Grant (National SMART Grant): This is a new grant program for full-time undergraduate students who are enrolled in the third or fourth academic year of an eligible program, who receive Federal Pell Grants and who are U.S. citizens. An eligible program in the National SMART Grant is one that leads to a bachelor's degree in an eligible major. The award is up to \$4,000 for each of the third and fourth academic years. The student must be pursuing an eligible major in physical, life, or

computer sciences, engineering, technology, mathematics or a critical-need foreign language; and have at least a 3.0 cumulative GPA.

State Scholarships: Several states provide grant and scholarship money that can be applied towards educational purposes. Some states do not allow their funds to be used out of state. ENC may not receive notification of the award until after school begins. Consequently, students should be aware that aid may be adjusted when the official notification is received from the state agency. Generally only the FAFSA is required for students to be considered; however, some states may require other forms. Students should check with their state Department of Education or local secondary school guidance office on this matter. State deadlines can be as early as March 1. May 1 is the application deadline for many state grant programs; however, students should check the **Deadlines for State Student Aid** section of the FAFSA instructions to be sure about state deadlines.

ENC Institutional Scholarships and Grants

These awards are given to students meeting the eligibility criteria stated for each separate scholarship. Scholarships and grants do not have to be repaid. Awarding preference will be given to students who apply by the priority deadline, which is generally stated as six months prior to registration, and specifically stated as March 1st for the fall semester, July 5th for the January term, and August 2nd for the spring semester. It is to be understood that all institutional scholarships and grants have funding limits, and awards may not be available to students applying late, even though they may fit the stated criteria of the award. Off campus study opportunities can have an impact on ENC institutional scholarships and grants. Please see Off-Campus Study Opportunities under Academic Information and Policies for important information about how each program impacts your institutional aid.

President's Scholarship: ENC's most prestigious scholarship is competitively awarded each year to an entering student who has demonstrated superior academic performance. Students scoring **2250 or above on the SAT exam or 34 or above on the ACT exam** are eligible for consideration. Selection criteria will also include students that have a GPA of at least 3.7 with valedictorian or salutatorian status and outstanding achievement in extracurricular activities. The President's Scholarship is a four-year scholarship that includes full tuition and room and board expenses. The student must maintain a grade point average of 3.7 or better, be enrolled as a full-time student, and be an active participant in the ENC community. The ENC Financial Aid Application is required along with an in-depth interview with ENC's Vice President of Admissions and Financial Aid.

Munro Scholar: Up to two scholarships for full tuition are awarded to students who have demonstrated outstanding academic achievement. Students scoring **2100 or above on the SAT exam or 32 or above on the ACT exam** are eligible for consideration. Selection criteria will also include class rank and achievement in extracurricular activities. The Munro Scholar award continues for up to four years, as long as the student maintains a grade point average of 3.5 or better, is enrolled as a full-time student, and actively participates in ENC community. The ENC Financial Aid Application is initially required and additional information may be requested of eligible candidates.

Dean's Scholar: Awards of \$8,000 are given to students who received **2100 or above on the SAT or 32 or above on the ACT exam**. These awards continue for up to four years, as long as the student maintains full-time enrollment and a cumulative grade point average of 3.5 or higher. The ENC Financial Aid Application is required.

Honor Scholar: Awards of up to \$7,000 are given to students who received **1800 to 2090 on the SAT exam or 27 or above on the ACT exam**. Awards continue for up to four years, as long as the student maintains full-time enrollment and a cumulative grade point average of 3.2 or higher. The ENC Financial Aid Application is required.

Academic Scholar: Awards of up to \$5,000 are given to students who received **1500 to 1790 on the SAT exam or 21 or above on the ACT exam**. Awards continue for up to four years, as long as the student maintains full-time enrollment and a cumulative grade point average of 3.0 or higher. The ENC Financial Aid Application is required.

Transfer Scholar: Awards of \$5,000 are given to incoming transfer students who have earned at least 12 credit hours and have a minimum cumulative GPA of 3.0.

Opportunity Grant: Awards of \$1,500 are given to students showing promise for growth at ENC who have not received another academic scholarship. These awards continue for up to four years, as long as the student maintains full-time enrollment and a cumulative grade point average of 2.0 or higher. The ENC Financial Aid Application is required.

Multiple Children Family Grant: Families with more than one dependent child enrolled full-time at ENC simultaneously are eligible to receive a scholarship amounting to \$700 per eligible student for the current academic year.

Edward and Cora Mann Book Scholarship: Book scholarships of \$100 each are available to students who have at least one parent who is an alumna of the college. The alumna parent would need to have completed at least one semester.

Grant for Children of Pastors and Missionaries: Grants of \$1500 are awarded to children of full-time Nazarene ministers and full-time Nazarene missionaries. Grants of \$1,000 are awarded to children of full-time pastors and missionaries serving other churches.

ENCourage Merit Award: Grants are awarded to students with demonstrated leadership, service, extracurricular activities, awards, and church involvement. Incoming students are eligible to apply for the ENCourage Merit Award. Eligible students will have submitted the ENC Application for Admission as well as at least two additional documents required in the admissions process (transcripts, letters of recommendation, SAT/ACT test results, and and essay/interview). A copy of the application is available in the admissions department. Students must maintain a minimum cumulative GPA of 2.0 to retain this grant.

Church of the Nazarene Grants: Several types of grants, provided in conjunction with local and district congregations of the Church of the Nazarene in Eastern Nazarene College's educational region, are available to church attendees.

Nazarene Student Grant: An award of \$650 is made to students who regularly attend Nazarene churches, as funds allow.

Nazarene Church Matching Grant: ENC will match up to \$200 per student from Nazarene churches and up to \$500 for the children of full-time Nazarene pastors and missionaries. It is the responsibility of the students to see that their records include demographic data of their district and church affiliation. Informational materials concerning this award will be sent to each pastor in the Church of the Nazarene on the Eastern Educational Region early each summer.

Nazarene District Incentive Grant: Students from Nazarene churches which belong to districts in the ENC region that have paid at least 85% of their educational budget to ENC are eligible for this grant.

The Scholarship Pool will be equally divided among the district's students.

- **85% District payment = \$5,000**
- **90% District payment = \$10,000**
- **95% District payment = \$15,000**
- **100% District payment = \$20,000**

Enhanced Plan (In addition to the above awards)

- **One half of district payments over 90% will be added to your district's scholarship pool.**
- **One half of district payments over 90% will help fund Quality of Student Life projects.**

It is the responsibility of students to see that their ENC computer records accurately indicate their district and church affiliation. Computer records are available in the Admissions Office for incoming students and in the Registrar's Office for returning students. Informational materials concerning this award will be sent to each pastor in the Church of the Nazarene on the Eastern Educational Region early each summer.

Endowed and Annually Funded Scholarships: *(These scholarships cannot have applications.)* These scholarships are awarded by the Scholarship Committee to students who meet the eligibility criteria set for each scholarship. Scholarships do not have to be repaid. Criteria may include need and merit criteria, so students are strongly encouraged to submit the FASFA as well as the required ENC Application for Financial Aid no later than six months prior to registration.

- **Adult Studies Leadership Scholarship** is for an Adult Studies student who is pursuing a bachelor's degree, demonstrates leadership qualities and has financial need.
- **The Charles E. Allen Scholarship** is awarded to an incoming freshman with financial need.
- **The Michelle Alworth Memorial Scholarship** is for a student majoring in social work.
- **The Rev. John Z. Andree Memorial Scholarship** is awarded to a Nazarene ministerial student with financial need.
- **The Rev. Ernest E. Angell Scholarship** recognizes diligent purpose and commendable achievement.
- **The Rev. Alexander Ardrey Scholarship** is for a student with financial need.

- **A.S.S.I.S.T.** is awarded to a student who has participated in work-study at ENC in the prior academic year.
- **The J. Dwight and Ida M. Biscoe Memorial Scholarship** is designated for a student whose parent is a pastor.
- **The Esther Mosher Blaney Music Scholarship** assists a student studying church music.
- **The Dr. Harvey J. S. Blaney Scholarship** is awarded to a senior religion major.
- **The Rev. Della Boggs Memorial Scholarship** is for a child of an active missionary from the Washington District.
- **The W. H. Bollinger Memorial Scholarship** assists a student with financial need.
- **The Dean and Phyllis Dancy Boshart Scholarship** assists students with financial need, with preference to students from the Newark Church of the Nazarene.
- **The Harry and Alice Boud Scholarship** is awarded to missionary children.
- **The Revs. Roy and Christine Bowers Memorial Scholarship** assists students with financial need who live up to their academic potential. Preference is given to students from the Melwood Church of the Nazarene.
- **The Grace and Nelson Bowles Memorial Scholarship** recognizes students from the Virginia District, particularly those studying for ministry or Christian service.
- **The Harold and Marie Brake Scholarship** is awarded to a sophomore, junior, or senior student with a 3.0 GPA, and who is majoring in business administration, economics or education.
- **The Brickley Scholarship** is awarded to an ethnic minority student from an inner-city area.
- **The Joseph Britt Memorial Scholarship** assists a multicultural and/or female freshman with a high school GPA of 2.70+.
- **The Business Administration Scholarship** assists a business major.
- **Chapman Family Scholarship** is for a freshman who has a minimum GPA of 3.0 and demonstrates financial need.
- **The Charles Todd Caldwell Memorial Scholarship** assists history majors.
- **The Drs. Ruth and James R. Cameron Scholarship** is for a student with financial need and a GPA of 3.0.
- **The Rev. Howard Chambers Scholarship** is for students from the Fairview Village Church, with preference given to ministerial students.
- **The C. H. O. I. C. E. (Christians Helping Others In Christian Education) Scholarship** is designated for students with financial need.
- **The Class of 1944 Scholarship** assists students with financial need.
- **The Class of 1949 Scholarship** Criteria to be announced.
- **The Class of 1954 Scholarship** is for students who have financial need and a minimum 3.0 GPA.
- **The Class of 1955 Scholarship** is for students who have financial need and a minimum 2.5 GPA, with preference given to freshmen.
- **The Class of 1956 Scholarship** Criteria to be announced.
- **The Class of 1957 Scholarship** assists students with financial need and academic potential.
- **The Class of 1962 Scholarship** Criteria to be announced.

- **The Class of 1964 Scholarship** is for students who have financial need and a minimum 2.5 GPA.
- **The Class of 1965 Scholarship** is for students with strong academic potential and financial need.
- **The Class of 1966 Zink Memorial Scholarship**, honoring the memory of classmate Rev. Charles Zink, is for a multicultural student with financial need.
- **The Class of 1982 Scholarship** is dedicated to the memory of classmate Mark Mancini. Criteria to be announced.
- **The Class of 1992 Scholarship** Criteria to be announced.
- **The Constantine Science Scholarship** rewards a first-year freshman or transfer student who excels in the sciences.
- **The Rev. Henry Cooper Scholarship** is administered by the Physics and Engineering Department.
- **The Derrell and Ruth Cornell Scholarship** considers a student's financial need. The student must have a GPA of 3.0.
- **The Cove/Marple Piano Scholarship** is awarded by the Music Department to a female student who is an upperclassman.
- **The Rev. Robert W. Crew Memorial Scholarship** is designated for a senior preparing for pastoral ministry or other Christian service.
- **The Mervin D. and Helen R. Crouthamel Scholarship** is awarded to a student who excels in the physical sciences.
- **The Rev. James M. Cubie Memorial Scholarship** assists senior ministerial students.
- **The Raymond W. Cunningham Scholarship** assists a disadvantaged African-American freshman.
- **The Helen V. Daley Scholarship** is awarded to a student with financial need who is committed to inner-city ministry. This scholarship is awarded by the Women's Organization in consultation with Dorchester Church of the Nazarene.
- **The John Dalton Memorial Scholarship** is for a student with financial need.
- **The M. Betty Davidson Memorial Scholarship** is awarded to an incoming freshman from Manchester, CT, who is preparing to teach in public schools.
- **The Abbie-Jean Delp Memorial Scholarship** helps a student preparing for missionary service or nursing.
- **The Rev. John H. Dias Memorial Scholarship** is awarded to a student of Cape Verdean background.
- **The Jonathan Dixon Memorial Scholarship** is for a student from the Bradford (PA) First Church of the Nazarene.
- **The Jeanne M. Driscoll Memorial Scholarship** is for Adult Studies students who demonstrate financial need and have the minimum GPA required for their program (master's 3.0; bachelor's 2.5; associate's 2.0).
- **The ENC Grounds Department Scholarship** is awarded to a selected student who is entering his or her senior year and is a member of the grounds crew at ENC.
- **The ENC Women's Organization Scholarship** is awarded to a female student who is a junior, has a minimum GPA of 3.0 and demonstrates financial need.
- **The Eastern Regional N.Y.I. Scholarship** is given to a Nazarene student from the Eastern Region.

- **The Elementary Education Scholarship** assists upper-class education majors with a 3.0 GPA.
- **The Shawn Patrick Flynn Memorial Scholarship** assists students with financial need, with preference to a student involved in the soccer program.
- **The Winthrop A. French P.C.I. Scholarship** is awarded to a student with financial need.
- **The Rev. Almer F. and Mildred B. Gallup Scholarship** recognizes an upperclassman preparing for preaching, mission, or evangelistic work.
- **The Dr. R. Wayne and Elizabeth Young Gardner Scholarship** is awarded to a ministerial student and a student majoring in mathematics who have promising potential.
- **The Theona Fry Gery Memorial Scholarship** recognizes character, need and scholarship.
- **The Dan Gresham Memorial Travel Scholarship** is awarded to assist with student academic travel.
- **The Jeremy Griffin Scholarship** is for a multicultural student with financial need who has a minimum GPA of 2.7.
- **The George E. Grimshaw and Irene Gudewicz Scholarship** is awarded to a business administration major.
- **The Ernest E. Grosse Memorial Scholarship** assists a junior or senior student with financial need who is pursuing a course of study in full-time Christian ministry. The student must have a 2.5 GPA.
- **The Reuben A. and Lizzie Grossman Scholarship** is awarded to students who demonstrate scholarship, character, and financial need.
- **The Lowell and Dorla Hall Scholarship** is designated for a chemistry major with a minimum GPA of 3.0.
- **The Elery and Elura Harris Memorial Scholarship** is for a student from the Maine District.
- **The Warren Hartman Scholarship** is given to students preparing for Christian ministry.
- **The Rev. Michael Haynes Scholarship** recognizes an African-American student from Boston who is preparing for ministry.
- **The Henry and Hazel Heckert Scholarship** is awarded to a child of a missionary or pastor.
- **The Helping Hands Medical Scholarship** is awarded to a student who is pursuing a major which leads to a medical profession such as pre-med, pre-nursing or pre-pharmacy, has a minimum GPA of 3.2 and demonstrates financial need.
- **The Ida E. Henderson Memorial Scholarship** considers financial need and is awarded to an early childhood or elementary education major with a 3.0 GPA.
- **The Ralph N. Henck Scholarship** assists students with need.
- **The Herrschaft Scholarship** is awarded to students from the N.Y. District who demonstrate scholarship, character, and financial need.
- **The Higginson-Shea Scholarship** recognizes students with a GPA of 3.0 who are majoring in biology or physics/engineering.

- **The Janice Hill Scholarship** is awarded to a student with a 3.00+ GPA.
- **The Jack E. Holcomb Memorial Scholarship** assists religion majors or others preparing for full-time Christian ministry.
- **The Ronald and Madeline Hollett Memorial Scholarship** is for a junior, preferably, and may follow the student through remaining semesters at ENC if the following criteria are met: majors in religion or youth ministry, is in good academic standing, and demonstrates financial need.
- **The Bob and Shirley Hooper Scholarship** is for a student from the Mid-Atlantic District who has financial need.
- **The Virgil and Ruth Hoover Scholarship** considers academic scholarship and financial need.
- **The Robert J. Howard Music Scholarship** assists music majors, with preference to an instrumentalist.
- **The Barbara Brigham Howard Memorial Scholarship** assists music education majors.
- **The Dr. Larry D. Hybertson Scholarship** supports an ethnic minority student with financial need and academic potential.
- **The Lillia Babbit Hyde Scholarship** is designated for a student majoring in science or mathematics.
- **The Eugene Dixon and Marilyn Brown Iden Scholarship** is awarded to students with financial need.
- **The Into All the World Scholarship** assists students with financial need who have a minimum GPA of 3.0 and who have expressed an interest in pursuing a course of study related to missions.
- **The Marion Janes Scholarship** is awarded to a student with a GPA of 2.00+.
- **The Dr. Floyd John Mathematics Scholarship** awards a freshman student who has excelled in mathematics.
- **The G. Allen Johnson Scholarship** assists students from the Warren (PA) Church of the Nazarene.
- **The Henry R. Johnson Memorial Scholarship** is for a Canadian national.
- **Laura Anne Katcharian Scholarship** is for an Adult Studies student who demonstrates financial need. Established in memory of Laura Anne Katcharian by her parents Mr. and Mrs. Leon Katcharian.
- **The Elmer and Henrietta Kauffman Memorial Scholarship** recognizes worthy students, particularly those planning to enter Christian service.
- **The Milton and Nora Eyer Keller Family Ministry Scholarship** is for students majoring in an academic area which leads to family ministry, with preference being given to a female or multicultural student.
- **The Alverda Kinney Memorial Scholarship** is awarded to elementary education majors who have a GPA of 3.00+.
- **The Professors Lois and James Knox Scholarship** is given to a student with financial need who is an education major with a GPA of 3.0.
- **The Myron Ladue Memorial Scholarship** assists a needy student who is a science major or majoring in a related field, with a preference to a Pennsylvania resident.
- **The Myron and Peggy Ladue Scholarship** is awarded to an incoming freshman with financial need, with preference given to students from Pennsylvania.

- **The Juan Lara Memorial Scholarship** is administered by the Physics and Engineering Department.
- **The Stephen W. Lind, Sr. Memorial Scholarship** assists students with financial need.
- **The Rev. Leslie and Marion MacKay Scholarship** assists education majors or those who are going into full-time Christian service.
- **The Stewart and Letha Maddox Memorial Scholarship** is awarded to a student preparing either for the preaching ministry or for missionary service.
- **The Edward and Cora Mann Scholarship** is awarded to children of ENC alumni for the purchase of books.
- **The Gwendolyn E. Mann Education Scholarship** assists education majors, at the junior level, with a minimum GPA of 3.0.
- **The Katherine Angell Mann Scholarship** recognizes character, scholarship and need.
- **The Rev. John T. and Ella S. Maybury Memorial Scholarship** is given to a ministerial student.
- **The J. David and Linda McClung Scholarship**, established by the ENC Foundation Board in appreciation of McClung's leadership through challenging days, assists a child of an active Nazarene pastor or missionary.
- **The McClung Family Scholarship** assists a first generation college student, the son/daughter of a pastor, or a multicultural ministerial student.
- **The McCurdy Scholarship** assists students with United Empire Loyalist ancestry.
- **The William K. and Lela McCurdy and Biagio and Maria Palella Memorial Scholarship** assists students majoring in science, math, or business.
- **The Faye and Jack McInturff Scholarship** assists children of missionaries currently serving the Church of the Nazarene.
- **The Stephen Merrill Scholarship** is for a junior or senior history major who has a minimum GPA of 2.7.
- **The Pearl R. Miller Memorial Scholarship** is awarded to a student from the Butler (NJ) Church of the Nazarene who is preparing to teach in public schools.
- **The Wilbur H. Mullen Memorial Scholarship** is for a distinguished student in philosophy and/or religion who has financial need.
- **The Grace and Patricia Murphy Scholarship** is divided between a qualified senior social work student and a qualified junior music major.
- **The Prof. J. R. Naylor Scholarship** recognizes need, character, and scholarship.
- **The Floyd and Madeline Nease Memorial Scholarship** is designated for an international student.
- **The Esther Nichols Scholarship** is for students from the Bloomsburg (PA) Church of the Nazarene or from the Philadelphia District.
- **The John N. Nielson Sermon Award** is given to the winner of the Religion Department's annual sermon competition.
- **The Oakland Nazarene Church Scholarship** assists needy students with a 3.0 GPA, with preference given to students from the Oakland (ME) Church of the Nazarene.
- **The Phelma Shaffer O'Connell Memorial Scholarship** is awarded to a female student from Pennsylvania who has demonstrated academic achievement.

- **The Anthony V. and Marilyn E. Oddo Scholarship** is awarded to a ministerial student who demonstrates financial need.
- **The A. L. Parrott Memorial Scholarship** is given to a student with financial need.
- **The Dr. Harold A. Parry Memorial Scholarship** is awarded to students preparing for Christian ministry.
- **The Dale Parry Memorial Scholarship** is for students preparing for Christian ministry.
- **The Rev. Edwin A. Patmore Memorial Scholarship** recognizes students with financial need who are pursuing a career in some area of pastoral or church staff ministry.
- **The Rev. Jay W. Patton Memorial Scholarship** recognizes character and scholarship, with preference given to students preparing for full-time Christian service.
- **The Dr. Cecil R. Paul Memorial Scholarship** assists an international student with financial need.
- **The L. D. Peavey Memorial Scholarship** helps students with financial need.
- **The Paul E. Pepper Memorial Scholarship** awards a science student who has excelled academically, with preference given to a premedical student.
- **The Allan and Fern Pfautz Scholarship** assists students with financial need.
- **The Phi Delta Lambda Scholarship** is for students who are eligible for Phi Delta, as determined by the Office of the Academic Dean.
- **The Philadelphia District Scholarship** is for students from that district.
- **The Prince of Peace Scholarship** is for students with a minimum GPA of 2.9.
- **The Richard W. Pritchard Scholarship** assists a student from the Painesville (OH) Church of the Nazarene.
- **The Andrew and Mary Rankin Scholarship** assists needy students, with preference given to business majors.
- **The Richard R. and Deborah Reese Family Scholarship** assists students with financial need, with first preference to a Nazarene pastor's child from the Upstate New York District.
- **The Restrick Family Scholarship** is for a student who is the child of a missionary or pastor and has financial need.
- **The Budd L. Rice Memorial Scholarship** matches contributions up to \$500 from Pittsburgh District churches for first-year students from the district.
- **The Paul Rice Memorial Scholarship** is awarded to several freshman students from Western Pennsylvania.
- **The Ben Rieder Memorial Scholarship** is given to a junior or senior student who is the child of a Nazarene missionary or who is called to missions work.
- **The Ritchie Scholarship** is awarded to an upperclassman with financial need who has a 3.0 GPA. The student's character and commitment to ENC are considered in the selection.
- **The Roberts/Grosse Scholarship** is awarded to students with financial need, with preference given to men and women currently in ministry.
- **The Dr. Jose Rodriguez Scholarship** is awarded to a student of Hispanic background.

- **Thomas Edwin and Ruth MacIntosh Rush Scholarship** assists students with financial need who possess solid character and a minimum GPA of 2.5.
- **The Esther R. Sanger Memorial Scholarship** is awarded to a social work or religion major.
- **The Lawson Saunders Scholarship** is for a male sophomore or above majoring in religion or preparing for ministry.
- **The Kathryn Savage Scholarship** is awarded by the Physics and Engineering Department.
- **The Scott Family Scholarship** assists students preparing for ministry or early childhood education who have a GPA of 3.00+.
- **The Shrader Society Fund** is awarded by the Chemistry Department.
- **The Dr. James H. Shrader Memorial Scholarship** is awarded to students with financial need majoring in chemistry.
- **The Alice Spangenberg Memorial Scholarship** is awarded to a junior or senior English major.
- **The Mary Spangenberg Memorial Scholarship** is available to a student with financial need.
- **The Mr. and Mrs. Oscar M. and Mr. and Mrs. J. Elmer Stockwell Scholarship** assists a student with financial need and/or preparing for ministry or missions in the Church of the Nazarene.
- **The Annie W. Stilson Scholarship** assists students preparing for the ministry.
- **The Rev. Kenneth E. Sullivan Scholarship** rewards a junior or senior student with financial need who has demonstrated academic achievement.
- **The James and Frances Swartz Endowment for the Study of the Holocaust and Genocide throughout the World** will be administered by the History Department for use in a variety of ways, including guest speakers, travel courses, special research projects and the purchase of materials.
- **The Marion E. Turkington Scholarship** is awarded to a junior majoring in religion, with preference given to a student planning to go to Nazarene Theological Seminary.
- **The Marion E. Turkington Senior Scholarship** assists students with financial need who are preparing for the ministry or missionary service in the Church of the Nazarene.
- **The Upstate New York NYI Scholarship** is for students from Upstate churches who have been active in ministry and who have strong academics and financial need, with preference given to a student whose intention is to enter full-time ministry.
- **The Vermont Christian Service Scholarship** is awarded to a student from a Nazarene church in Vermont, with preference given to one who plans to enter Christian ministry.
- **The Rev. H. Blair and Edwinna Wilson Ward Scholarship** is given to a language or ministerial student.
- **The John Warren Memorial Scholarship** is awarded to at least one business administration major and one physical education major, who have financial need.
- **The Washington District Scholarship** is for a new student from the Washington District.

- **The Washington First Church of the Nazarene Scholarship** assists students from the Washington First Church of the Nazarene.
- **The H. D. Hazel and Howard Wertman Scholarship** is awarded to a student with financial need.
- **The Grace Gleason White Scholarship** is given to a literature or music student.
- **The Linda Whitling Memorial Scholarship** is awarded to a student with financial need.
- **The Esther D. Williamson Memorial Scholarship** is given to a music major, with preference given to one studying voice.
- **The Dr. Earl C. Wolf Scholarship** is awarded to a freshman majoring in religion or Christian education.
- **The Stephen N. Wolf Scholarship** is for students majoring in education, with preference given to those pursuing special needs education.
- **The Vernal and Thelma Woodward Scholarship** is for a junior, preferably from Maine, majoring in education or a natural science, who has a minimum GPA of 3.0 and financial need.
- **The James L. and Vivian M. Wooster Memorial Scholarship** is for a junior, preferably, and may follow the student through remaining semesters at ENC if the following criteria are met: majors in chemistry, is in good academic standing, and demonstrates financial need.
- **The Yacubian Scholarship** assists students with financial need who are majoring in physics or engineering. Recommendations are made by the Physics and Engineering Department.
- **The Samuel Young Scholarship** assists a student preparing for Nazarene pastoral ministry.

Maintaining Your Financial Aid Eligibility – Academic Standing and Satisfactory Academic Progress

Please see Academic Standing and Academic Discipline under Academic Information for important information about satisfying criteria for good academic standing and making satisfactory academic progress to maintain your financial aid.

Student Account Information

Our mission is to provide excellent customer service and information to our students, the Eastern Nazarene College community, and all outside constituents, in order to achieve a clear and clean financial picture and enable paid in full status on all accounts. Information related to various payment options offered by the college may be obtained from the Office of Student Accounts and is included below.

All financial arrangements must be completed prior to registration. Registration cannot be completed until all financial obligations are cared for and clearance is given from the Office of Student Accounts. Any unpaid balances will be subject to an additional monthly Past Due Balance Charge, and failure to maintain the agreed upon financial plan may result in un-enrollment.

Tuition and Fees for 2007-2008

	Semester 1	Semester 2	Total	January Only*
Tuition	\$9,944	\$9,944	\$19,888	\$2,520
Student Fee**	\$343	\$343	\$686	\$95
Room and Board***	\$4,101	\$3,294	\$7,395	\$852
Resident Total	\$14,388	\$13,581	\$27,969	\$3,473
Commuter Total	\$10,287	\$10,287	\$20,574	\$2,621

* For full-time students in the fall or spring semester, there is no additional tuition charge for the January course. Room and board for January are included in the first semester charge to full-time students.

** Charged each semester to students taking 8 or more credit hours and does not include health insurance.

*** Charges will vary depending on meal plan and room chosen. Please call Student Accounts for information related to charges for particular room and board combinations.

Note: Students must be enrolled for **12 credits per semester**, not including January term, to be billed at the block tuition rates shown in Tuition and Fees for 2007-2008. **Students enrolled for fewer than 12 credits per semester, not including January term, will be billed at part-time tuition rates.** The part-time rate for 1-11 credits is \$842 per credit. Students enrolled for more than 17 credits per semester, not including the January term, will be charged \$674 per additional credit or \$337 per half credit. This is considered a credit overload.

Other Possible Fees:

Part-time Rates (per credit hour for 1 - 11 credits)	\$842
Part-time Student Fee	\$95
Overload Rates (per credit hour for over 17 credits)	\$674
Audit Fee (half of regular 3 credit hour course charge)	\$1,263
Audit Fee for senior citizens (over 65) or pastors	\$110

Health Insurance Fee - per year, charged by semester, waiver available	\$750
Room Reservation Fee for current students	\$75
Room Damage Deposit - residents	\$150
<i>charged first semester of occupancy each year; conditionally refundable at end of year</i>	
Mailbox Key Deposit - residents and commuters	\$15
<i>charged first semester of occupancy each year; conditionally refundable at end of year</i>	
Parking Fee - per year residents, commuters	\$45, \$25
Diploma and Graduation Fee	\$60
Academic Petition Fee	\$5
Late Registration Fee	\$100
Change in Registration (add/drop) after add/drop deadline	\$25
Late Filing of Degree Candidacy Forms - late junior year, late senior year	\$10, \$25
Transcripts	\$5
Lab Fees - per semester	varies
Music Equipment - per semester, per methods class	\$50
Organ Rental - per semester	\$50
PE Activity (SCUBA, sailing, skiing, PE 222)	varies
Practice Room - per semester	\$50
Private Instruction - Music (one credit hour)	\$275
Private Instruction - Music (two credit hours)	\$475
Directed Studies Fee	\$175
Praxis Internship Supervision Fees - based on number of credit hours	\$100 to \$175

Books and Other Financial Expenses

Books are available for cash, check, credit card or book scholarship at the College Store and generally cost \$300 to \$500 per semester, depending on the area of study. Other items such as supplies, equipment, laundry, personal expenses, and incidentals vary according to the individual. Books and personal expenses cannot be charged to the student's college account. Telephone service and equipment is provided but long-distance (LD) charges are the student's responsibility. After 60 days of unpaid LD charges, the LD account will be turned off and the balance transferred to the student's ENC account.

College Withdrawal and Course Drop Refund Policy

To be eligible for any refund, a student must complete the appropriate withdrawal procedure. If a student withdraws from school during the semester, tuition, fees and room, will be refunded according to this timeline:

Refund	Fall	J-Term	Spring
100%	9/5/2007	1/3/2008	1/28/2008
90%	9/6/2007 to 9/11/2007	-	1/29/2008 to 2/3/2008
75%	9/12/2007 to 9/18/2007	1/4/2008 to 1/6/2008	2/4/2007 to 2/11/2007
50%	9/19/2007 to 10/2/2007	1/7/2008 to 1/8/2008	2/12/2008 to 2/24/2008
25%	10/3/2007 to 10/30/2007	1/9/2008-1/10/2008	2/25/2008-3/31/2008
0%	after 10/30/2007	after 1/10/2008	after 3/31/2008

Any refund for unused board will be made on the basis of the number of weeks the student attended. No refunds for board will be made for a portion of a week.

These refund policies conform to the requirements of the Higher Education Act Amendments of 1992. If a recipient of financial assistance withdraws and is scheduled a refund, all or part of this refund will be used to reimburse the financial aid program from which the student received funds. Music lessons: No refund after September 18 and February 11 without approval of the chairperson of the Music Department.

The effective date of any withdrawal or course drop will be the date such withdrawal or drop is officially requested. The official withdrawal date is the date established by the student with the Registrar. The official course withdrawal date is the date the drop form is returned to the Registrar. Adjustments are computed as of the end of the week in which the student makes official withdrawal. When a student withdraws (or is withdrawn) from school prior to the end of a semester, a prorated amount of the student's institutional scholarships and grants will be withdrawn from the student's account, based upon the above stated policy. Additionally, Title IV federal and state financial aid will be repaid to the appropriate program(s) as mandated by regulations published by the U.S. Department of Education. Title IV refunds will be repaid in the following order: FFEL Program, Federal Perkins Loan Program, Federal Pell Grant Program, and other SFA. Note: The grace period associated with the repayment of federal loans begins to expire from the date of withdrawal. Students who do not formally withdraw by submitting the Withdraw from College Form run the risk of losing refunds based on the previous chart. The college cannot guarantee these refunds if the student does not follow the proper procedure.

Students who withdraw from college after the last day to withdraw from classes will earn a grade of "F" if the student is not passing his or her courses. Otherwise, a grade of "W" will be recorded on the student's transcript.

Leave of Absence

In the event that there is a necessary interruption of scheduled attendance, the student must submit an academic petition to the Registrar's Office prior to the start of the leave. A leave of absence may be granted during a semester upon approval of the Academic Standing Committee, in which case a refund calculation will be done, or one may be granted before a semester begins. Leaves of absence will be reviewed on a case by case basis: a written doctor's request based on maternity or mental or physical health may generally be approved for a 60-day leave of absence.

A student who has been granted a leave of absence is not considered to have withdrawn from school. Students failing to request a leave of absence in writing or who were denied such a request will be considered to have withdrawn for purposes of Title IV and institutional financial aid purposes. This is a very important distinction since the grace period associated with the repayment of federal loans (i.e. Stafford and Perkins loans) will begin to expire from the date of withdrawal. If a student fails to return from an approved leave of absence, a withdrawal date will be predated to the last recorded date of class attendance. This date will be reported to the student's lender and the National Student Loan Data Service (NSLDS) via the National Student Loan Clearinghouse (NSLC) regardless of whether the student subsequently withdraws officially (by notifying the school) or unofficially (by not renewing attendance at the time designated on the official leave of absence form).

Methods of Payment and Account Regulations

1. Acceptable methods of payment are as follows:
 - a) Payment in full - Payment must be made by cash, cashier's check, certified check, credit card, or personal money order. Payments will also be accepted online through the online bill.
 - b) Advance Payment - The college will establish a reserve account in the name of any prospective student. The amount in reserve can be refunded if a change in plans becomes necessary, except for nonrefundable fees.
 - c) For students and parents desiring to pay educational expenses in monthly installments, an interest free payment plan is offered through Tuition Management Systems. Sign-up is available online for up to 12 months at www.afford.com. Please call the Office of Student Accounts for more information.
2. All charges are due and payable at the time of registration at the beginning of the semester or term, unless 1c) is applicable. Checks should be made payable to Eastern Nazarene College, with the student ID number on the check. An itemized statement will be presented online and reminders sent to the student's ENC email address. Statements will be mailed to the student's home address only if they opt out of the online bill or unless the individual responsible for the financial obligation directs otherwise.
3. Where financial aid has been awarded, the percentage of down payment and payment of balance is calculated after deducting such awards. College Work-Study is not deducted.
4. Any financial arrangement between the college and its students will be binding only if such agreement is in printed or written form. Any arrangements concerning finances should be made with the Office of Student Accounts only.
5. The College adds a 1.25% Past Due Balance Charge (15% annual rate) each monthly billing period to the balance at the beginning of the billing period, less any payments during the month. The cutoff for each billing period is usually around the 30th of the month but may vary. Past Due Balance Charges on the unpaid balance will be charged from the day of registration. If the balance is to be paid by a federal or state grant, these charges will be reversed when the federal or state grant check is received at ENC.
6. No student may participate in graduation until all accounts are paid in full. No degree will be conferred nor credit hours transferred until accounts are settled. Payments must be made by cash, cashier's check, certified check, credit card, or personal money order.
7. Any student who has become delinquent through failure to make payment or proper financial arrangements may be un-enrolled until such matters are satisfactorily taken care of with the Office of Student Accounts. Any unpaid balance is seen as an education loan from ENC when bankruptcy is being considered. Thus, the unpaid balance is not dischargeable.
8. Past Due Balances
 - a) **Currently Enrolled Students:** ENC services will be withheld, including but not limited to, registration, grades, transcripts, and diplomas. Until the debt is paid in full, you will also be assessed a monthly Past Due Balance Charge. Once

the account is paid in full, the hold will be automatically removed.

b) **Not Currently Enrolled Students:** ENC services will be withheld, including but not limited to, registration, grades, transcripts, and diplomas. Until the debt is paid in full, you will also be assessed a monthly Past Due Balance Charge. Once the account is paid in full, the hold will be automatically removed.

9. Transcripts will not be released for any student owing a past due balance. This is without exception.

All debt not paid in a timely manner may be referred to a collection agency and may be reported to the Credit Bureau. If you feel the charge is in error, please contact the Bursar's Office to avoid collection agency action. If it is deemed necessary to refer the account to an agency, the debtor (student) will be responsible for all collection costs and legal fees. Once the account has been assigned to an outside agency, please contact the collection agency to discuss your account. For further information concerning payment of student accounts, contact the Office of Student Accounts in Gardner Hall at 1-866-532-3669, 617-745-3600 or studentaccounts@enc.edu.

STUDENT LIFE INFORMATION

ATHLETICS

Because ENC considers athletics and physical education an integral part of undergraduate life, each student participates in the physical education program for the equivalent of two credit hours. This is to provide exercise and foster interest and skill in sports that can be enjoyed for life. Students may select from a number of activities to fulfill the Physical Education requirements. Athletes may substitute participation on a varsity team for required Physical Education.

Athletic Facilities: Lahue Physical Education Center, athletic fields, and tennis courts are provided exclusively for the use of the ENC community. Priority is given to academic classes, then varsity activity.

Intercollegiate Athletics: The Crusaders, ENC's intercollegiate teams, add spirit to the campus. Varsity sports for men include baseball, basketball, soccer, cross-country, and tennis. Women's varsity teams include tennis, volleyball, soccer, basketball, softball, and cross-country. Christian sportsmanship is in keeping with ENC's ideals and objectives. Besides sportsmanship, another important ingredient of a good athletic program is the loyalty of students and staff. Students are encouraged to take an active part in the intercollegiate program by participating and sharing enthusiasm. ENC is a Division III member of the National Collegiate Athletic Association (NCAA) and part of the Commonwealth Coast Conference. To participate in the athletic program of the college, scholastic standards must be maintained. ENC follows eligibility rules as set forth by the college and NCAA III. All questions of eligibility should be referred to the Director of Athletics.

Intramural Sports: All participants must be classified as undergraduate students. These students must be enrolled at the time of competition in two courses or more, earning at least eight credit hours and have paid the full-time student fee.

COUNSELING, CAREER, AND HEALTH SERVICES

Health, mental health, and career services are available to all students through the Brickley Center.

Counseling Services: Trained counselors are available to assist with personal, adjustment, spiritual, academic, and other concerns. Referral to outside mental health agencies is available. The center also sponsors group workshops and seminars on a variety of topics.

Career Services: ENC's Career Services assist college students and alumni/ae in evaluating, developing, and implementing their career goals (choice of major, work and ministry/service opportunities). The following services are available: career counseling, career assessments, Career Resources Library, resume, cover letter and job search information, part-time and full-time job postings, job fairs, internship listings, and alumni/ae networking opportunities. Information on graduate schools and assistance with planning and the application process are available. Career development courses are also offered for credit.

Health Services and Insurance: The campus nurse is accessible to students on a drop-in basis at the clinic located in the Brickley Center. Massachusetts law requires that all students enrolled full-time in public and private institutions of higher learning be covered by a comprehensive medical plan. The Student Accident and Health Insurance Program at the college is designed to cover the basic health needs which college-age young adults typically face. Coverage under the policy takes effect upon registration and continues until August 25 of the next year for students enrolled for both fall and spring semesters. The insurance is subject to the exclusions and limitations outlined in the brochure distributed. Students may elect to waive the college sponsored health insurance in favor of their existing family plan. Information pertaining to this option will be provided by the Brickley Center's health services office.

MULTICULTURAL AFFAIRS

Eastern Nazarene College seeks to promote community awareness and appreciation of various ethnic and cultural backgrounds. This is facilitated through the core curriculum, programs, worship services, and cultural awareness experiences. In addition, the Multicultural Affairs Program seeks to provide support for students from various ethnic and cultural backgrounds and to enhance unity through increased understanding of the diversity within our community.

STUDENT LIFE OPPORTUNITIES

The entire co-curricular program at ENC is built around the concept of developing Christian character through well-rounded and well-planned activities that are rich in tradition and invite a high degree of participation.

Student Government Association (SGA): Student life and activities at Eastern Nazarene are entrusted in large degree to students themselves. The Executive Council of the Student Government Association, a representative group of students and one faculty advisor, discusses campus problems and ideas suggested by the student body. The council works with the administration for the solution of these problems. The positions within the Executive Council consist of president, director of finance,

administrative assistant, director of social life, director of recreational life, director of student ministries organizations, and director of publicity.

Student Ministries Organizations: The SGA director of student ministries organizations works with the Office of Spiritual Development in providing campus and community ministry opportunities.

Student Publications: The *Campus Camera*, the college newspaper, is published by students and provides campus news to the college community. *Nautilus*, the college yearbook, is printed annually and portrays the activities and personnel of the year.

Social Life: Under the supervision of the SGA's Directors of Social Life and Recreational Life, various activities are planned. These groups design a program of college student events, keeping in mind the need to provide activities which enhance social interaction among students while maintaining an atmosphere of wholesomeness and balance.

Music and Theatre: Students with talent for music have many opportunities for participation in the various music organizations: A Cappella Choir, Gospel Choir, Chamber Singers, Wind Ensemble, Brass Ensemble, Choral Union, etc. Every year drama productions are presented by students under the direction of the Communication Arts Department. All students, faculty, and staff are encouraged to audition for these plays which range from large-scale musicals to experimental productions, exciting Christian drama, unusual adaptations of classics in literature, and often, theatre for young audiences. Technical training and crew experience are available in an excellent theatre facility and optional course credit can be earned.

Homecoming: Each fall one weekend is set aside for events planned for both students and alumni returning to the campus. The traditional soccer game, fall musical, and recognition of the Homecoming Court are just a few of the events. Additional events are planned by the Alumni/ae Council.

Commencement: Commencement exercises are held in February and May of each year. During commencement weekend in May, Phi Delta Lambda meets to induct seniors into the graduation honor society, and the college president delivers the baccalaureate sermon.

Special Interest Organizations: For students anxious to develop their own academic field of interest outside of the classroom, there is plenty of challenge and opportunity. Student National Education Association, Biology Club, American Chemical Society, Student Association of Social Workers, Psychology Club and Business Club are examples of organizations reflecting academic interests. Other interest clubs are available, such as Best Buddies, Open Hand Open Heart, Men's Volleyball Club, Ski Club, Women's Lacrosse Club, and others.

Cooperative Programs with other Academic Institutions: Students participating in ENC recognized and approved co-op programs with other local institutions may participate in residential and social life at ENC while taking coursework from said institutions during their junior and/or senior years. Students wishing to maintain residence at ENC will abide by all regulations and guidelines as determined by the Office of Student Development as set forth in the current year's Student Handbook. Additionally, students will pay full Room and Board charges and applicable fees. Petition for chapel exemption may be made with the Spiritual Development Office.

CAMPUS SAFETY AND SECURITY

ENC has a tradition of providing a safe and secure environment for the college community. While ENC historically has enjoyed an extremely low crime rate, extensive precautions are still taken in an effort to maintain a safe campus environment, reflecting an awareness of what the world about us is like. In any emergency, a security guard can be contacted by anyone at any time, day or night, by simply dialing extension 3911 on college phones located strategically in the residence halls and throughout the campus. The overall emphasis of our guard training is to impart awareness that as guards, their main responsibility is not so much the enforcement of college rules and regulations, but to be of service in a proactive team effort to provide added safety and security for the students, faculty and staff, and property of ENC.

Other members of the Massachusetts Association of College and University Public Safety Directors (MACUPSD) suggest that 90 to 95% of their overall security problems and most cases involving sexual abuse, rape or what is known as date rape are directly related to alcohol use by one or both parties involved. Our stated school policy, reflected in the Lifestyle Covenant, attempts to establish and maintain an alcohol, tobacco, and drug free campus. The no smoking policy on campus helps to decrease the risk of fire, especially in the residence halls. ENC maintains a separate residence hall for men and women. Visiting in rooms of the opposite sex is permitted only during scheduled and supervised open house hours.

Residence hall security is further enhanced by a security computer set to maintain all outside residence hall doors in a continuously locked status. Access is gained by personal proximity to all residence halls and other campus buildings. Each residence hall door has its own code that can be set to limit access. This is designed to greatly reduce the opportunities for unauthorized individuals or intruders to gain entrance. Any outside residence hall door left propped open, accidentally or on purpose, registers on the screen of the security computer and alerts the guard on duty to initiate an investigation of that door.

In addition, the college staff conducts regular safety inspections of every residence hall room as well as all other campus buildings in an attempt to assure clear emergency egress is maintained, all fire extinguishers and smoke alarms are in place and in operating condition, and there are no other obvious safety hazards.

Special efforts are also made to educate students about individual responsibility for personal safety. This is, and always will be, the primary source of any individual's ongoing security. Information regarding overall campus safety, personal security, rape and rape avoidance, state laws and college rules relating to alcohol, drugs, tobacco and firearms is distributed during registration and is always available to all students. All freshmen are required to attend lectures and view videotapes relating to these topics in addition to having briefings concerning general campus familiarization. Notices concerning current safety and/or security concerns are also posted on bulletin boards to help keep all students alert and aware.

Finally, we trust that students' sense of responsibility and independence taught during their high school years has increased to the point where they are now used to making responsible personal decisions concerning their own attitudes and actions. If so, they

will be well prepared to handle the comparatively unrestricted freedom of a residential college situation. While ENC cannot guarantee the safety of each and every student, all reasonable precautions have been taken to enhance campus safety. This effort is made because we all live in a world where crime, violence, or unexpected accidents and injuries, can and do occur all too frequently.

Student Right-to-Know and Campus Security Act

The Student Right-to-Know and Campus Security Act of 1990 mandates that records be kept and disclosed on campus crimes such as murder, rape, robbery, aggravated assault, burglary, and motor vehicle theft, considered to be a threat to other students and employees and reported to campus security or to the local police. In addition, institutions must report the number of arrests for the following crimes: liquor law violations, drug abuse violations, and weapon possessions. This act helps institutions not only keep and disseminate statistics for information and prevention purposes but also involves the distribution of information on policies related to campus security. ENC encourages students and employees to promptly report crimes to the Director of Risk Management. In an effort to inform students and employees about campus security procedures and policies and to encourage students and employees to be responsible for their own security and the security of others, a Campus Security and Safety brochure is distributed at the beginning of each school year. For specifics on crime statistics, policies, and programs, please refer to the brochure.

Weapons

Possession of firearms, air guns, BB guns, hunting knives, wrist rockets including slingshots, or weapons of any kind on campus is expressly forbidden. Possession or use of any of the above, as well as fireworks or explosive devices of any type, will result in confiscation, severe fines, possible legal action, and disciplinary action up to and including suspension or expulsion.

Motor Vehicle Registration/Parking

All students who possess vehicles at school, including commuter students, are required to register their vehicles and to pay a parking registration fee for each academic year. Freshmen are not eligible for student parking (except in rare circumstances). The current parking sticker allows them space in the student lot at the corner of Wendell Avenue and Waterston Avenue, with commuter student parking available in the lot at the corner of Sachem and Wendell. A campus guard will provide escort service for students or staff to any place on or near campus after dark and during late night hours, if requested. A call box is available for students and escorts in the Waterston parking lot. Student parking is not permitted anywhere on the main campus. Unregistered student cars may be towed away at owner's expense if parked on ENC property. Eastern Nazarene College assumes no financial responsibility for any damage or loss to a student's vehicle or its contents. Students who park on or off campus do so at their own risk. Students are encouraged to maintain adequate insurance coverage.

Liability

Eastern Nazarene College is not liable for the loss of money or personal belongings by any person or for damage done to property. Students are strongly encouraged to carry their own personal property insurance.

SPIRITUAL LIFE

As a Christian college, Eastern Nazarene gives first place in its co-curricular program to spiritual values and to the development of Christian insight and commitment on the part of its students. The goal is achieved through a spiritual life program which is coordinated by the College Chaplain and the Center for Spiritual Development (housed in the Religion Department in Angell Hall), in cooperation with the faculty and staff, the Office of Student Life, the Student Government Association, local church congregations, and local Christian service organizations.

Spiritual Life Program

The mission of the Spiritual Life program of Eastern Nazarene College is to provide an environment conducive to the process of spiritual formation in each member of the college community, through an intentional, focused effort which influences every endeavor and relationship of campus life. Spiritual formation is defined as “growing in authentic Christ-likeness, which is a transforming and developmental process, by God’s grace, which results in wholeness and holiness and is evidenced in service to God and others.” This process is promoted in the campus community in at least the following ways:

- by cultivating the spiritual disciplines, including prayer, worship and spiritual reading;
- by purposefully modeling a community of love, justice, humility, reconciliation, support, authenticity, and civility;
- by encouraging an informed and thoughtful faith;
- by practicing faith evidenced through service;
- by fostering an environment of spiritual mentoring and accountability, and
- by striving to affirm the value of each person in the image of God, which includes an openness to differences as expressions of God’s creative design.

The Spiritual Life program is coordinated in the college’s Center for Spiritual Development, located in the Religion Department in Angell Hall. Information concerning campus, community and church-related ministries is available. Information concerning student-led campus ministries can also be obtained through the Student Government Association’s Director of Student Ministries, whose office is located in the SGA suite in the Mann Student Center.

Chapel is the centerpiece of the Spiritual Life program on campus. In chapel, we gather as a covenant community of faith, to worship God. Through the act of worship we, the body of Christ, find ourselves encouraged, equipped, energized, and empowered by the Spirit of God for acts of loving service in the world. The Spiritual Life program seeks to help the ENC community live out its Christian faith in all settings and life circumstances, strengthen community, allow persons to respond to the Gospel of Jesus the Christ through confession of sin and affirmation of faith, and integrate social, moral, intellectual, and political issues with the Christian faith.

Each student participates in the program through attendance and participation in chapel worship services. Students may choose to participate in small groups, service ministry opportunities, spiritual retreats, and missions projects to further accentuate growth toward Christ-likeness. It is the college's hope that students take advantage of the opportunities to be challenged by the various options offered.

ACADEMIC INFORMATION AND POLICIES

PRIVACY OF STUDENT RECORDS - FERPA

The Family Educational Rights and Privacy Act of 1974 requires that students and their guardians, when applicable, receive written notification of their rights under the act. These rights include the right to 1) inspect and review the student's educational records, 2) request an amendment to the student's records to ensure they are correct and otherwise not in violation of the student's right to privacy, 3) consent to the disclosure of information to other individuals or entities, 4) file a complaint with the Office for Civil Rights to seek redress if the college fails to comply with the requirements of the Act, and 5) obtain a copy of the college's policy.

SEMESTER SYSTEM

Eastern Nazarene College operates on the 4-1-4 semester system. Fall semester runs from the end of August/early September to mid-December and Spring semester runs from the end of January to mid-May. January (J- term) and summer classes meet every day from approximately 8:30 am -12:30 pm. The majority of undergraduate classes are scheduled during the day with a few courses scheduled in the evening. A typical course load is 4 to 5 classes during Fall and Spring semesters, as well as one class during J-term.

ACADEMIC CALENDAR

The academic calendar lists all the important deadlines and academic events each semester. Take special note of: Add/Drop Deadlines; Withdrawal Deadlines; Final Exam Period; Grades Available. The Academic Calendar is published on the college website.

ACADEMIC ADVISORS

Students are assigned advisors who should be consulted each semester to assist with academic planning and course selection. Students must obtain the signature of their advisors to make changes to their class schedules. ***While advisors are available for advice and course planning, it is the student's responsibility to know college policies, follow published deadlines and stay on track to complete all degree requirements.***

ADVANCED PLACEMENT (AP) AND CLEP EXAMS

Advanced placement may be achieved through participation in the College Entrance Examination Board's Advanced Placement Program (AP). Students must have OFFICIAL scores sent directly to the Registrar's Office for evaluation. A score of 3 will result in a waiver of the course. A score of 4 or 5 will result in a waiver with credit for the equivalent course. Please visit the college web site at www.enc.edu for a list of AP Exams and ENC course equivalents to see what degree requirement would be fulfilled by specific exams.

Math Advanced Placement

The Math Department chair may, in special circumstances, grant students advanced placement in math who desire it but have not taken an Advanced Placement Exam. Any student wishing to pursue this route should contact the Math Department chair.

Students who desire full sophomore standing (24-56.9 credits) in Mathematics must take MA211 Calculus III and MA171 Introduction to Discrete Math in the fall semester.

CLEP Exams

Students who take CLEP exams and receive the minimum score listed will receive college credit and waiver of the listed requirement. Students must have OFFICIAL scores sent directly to the Registrar's Office for evaluation. Please visit the college web site at www.enc.edu for a list of CLEP Exams and ENC course equivalents to see what degree requirement would be fulfilled by specific exams.

DEVELOPMENTAL COURSES AND GRADUATION CREDIT

Developmental courses prepare a student for college level work. As such they are not counted in the total credits earned toward graduation. Courses that fall into this category are: MA098, MA099, EN098, and EN099.

THE CENTER FOR ACADEMIC SERVICES

The Center for Academic Services (CAS) provides a variety of academic supports to students of all academic abilities. The center employs both professional and student staff to provide tutoring, supplemental instruction, developmental education, testing support, and special programming for students, as listed below. For further information, contact CAS.

Supplemental Instruction

For many of the first and second year core courses, the center provides supplemental instruction reinforcement to students. Academically accomplished students are hired and trained to confer with the instructor on course material, attend the class sessions, and then facilitate additional afternoon and/or evening opportunities to review the lecture material, to ask additional questions, and to prepare for tests.

Drop-In Tutoring

CAS offices are open for drop-in tutoring during business and evening hours. It is staffed with trained peer tutors who assist students with general academic skills, editing of papers, general mathematics skills, test preparation and study skills, and computer access. CAS is also an excellent place to find quiet study space. Hours of operation are posted each semester.

Specialized Peer Tutoring

Students desiring specific academic assistance in a particular subject may request a peer tutor who will be paid in advance to the cashier for a minimum of five sessions. The center maintains a list of trained tutors, matches tutor to tutee, subsidizes the cost of the tutor and oversees the completion of the arrangement. Students interested in arranging for a tutor should come to the CAS offices and file a request form.

Group study sessions are available for classes in which there is a minimum of four students needing similar study assistance. The center will arrange for the develop-

ment of a small group study session, select a tutor and form the group at no cost to the interested students. A group of students wishing to form a study group should drop by the CAS offices and file a request.

Testing Services

CAS provides reasonable accommodations to qualified students with disabilities when it is determined that specific testing accommodations are necessary and reasonable. Please see the director of the CAS for further information.

Students with Disabilities

Eastern Nazarene College is committed to equality of educational opportunities for qualified students with disabilities - learning or physical. ENC will provide reasonable accommodations to students with disabilities on an individualized basis to allow students equal access to facilities, courses, programs, services, and activities at ENC.

A student who wishes to be considered for reasonable classroom accommodations at ENC must make a request to the director of the CAS, providing documentation of the student's disability and the accommodations requested. The director will explain the policy and procedure that will be followed by ENC to verify the student's disability and need for accommodation. Accommodation needs in residential settings are coordinated with the Office of Student Life.

LIBRARY SERVICES

Nease Library provides information resources and services to support students and faculty in all programs of the college. In addition to traditional collections of books, non-print materials, and periodicals, the ENC community has access to a varied collection of web-delivered indexes and full-text databases. Library staff teaches library/Internet research skills and assists students in the research process. The library also supports instruction through the Donald E. Reed Instructional Resources Center.

CAREER COUNSELING SERVICES

ENC's Career Services assist college students and alumni/ae in evaluating, developing, and implementing their career goals (choice of major, work and ministry/service opportunities). The following services are available: career counseling, career assessments, Career Resources Library, resume, cover letter and job search information, part-time and full-time job postings, job fairs, internship listings, and alumni/ae networking opportunities. Information on graduate schools and assistance with planning and the application process are available. Career development courses are also offered for credit.

REGISTRATION

Registration for New Students - Freshmen

The Registrar's Office prepares a schedule for all new freshmen based on their area of interest (Major) identified during the admission process. This major can be changed at any time by students prior to Move-In Day by contacting the Registrar's Office at Registrar@enc.edu or 617-745-3878. Prior to creating the final schedule, students have the opportunity to review their schedules and meet with their advisors during the two scheduled VIP events held in May and July. These events are important opportunities to meet with your advisor, the registrar's staff, and admissions

counselors to get acquainted with the college and fine-tune your class schedule. Freshmen, along with returning students, also have an opportunity to make last minute changes during registration day, the day before the first day of classes. Students cannot register for classes more than one week after classes have begun. Students may add or drop a class up to two weeks into the semester. See the academic calendar at the front of the catalog for exact dates and become familiar with these significant academic events.

Registration for Returning Students

Early registration (preregistration) of returning students takes place during April for the following academic year. Registration takes place according to student classification, with juniors registering first, followed by sophomores and freshmen. **Regular registration** for both new and continuing students is on the opening day of each semester. Information on registration procedures will be furnished for each student at the time of registration. No student will be permitted to register for any course, if in the judgment of the instructor in charge, he/she lacks sufficient preparation to undertake the work. No student may take an overload (more than 17 credit hours in any semester or one course in any January or summer term) except upon approval of the Academic Standing Committee.

Registration for Transfer Students

The Registrar's Office provides each transfer student with a transfer evaluation report to show how transferred classes have been evaluated. Transfer students need to review this report carefully prior to meeting with their advisors to create their class schedules on registration day. In some cases, advisors are available to communicate with transfer students via email or by special appointment prior to Registration Day.

Late Registration

All students are expected to be present and to complete registration on registration day. A late fee of \$100 is charged to students who register for classes the first time after registration day. *No student will be allowed to register more than a week late, except upon petition to the Academic Standing Committee and after satisfactory arrangement with the Academic Dean.*

Credit Load

Credit or course load refers to how many credits for which a student is enrolled in a given semester. Course load affects a student's eligibility for financial aid, housing, participation in collegiate sports, and repayment of student loans. January term (J-term) credit may be calculated as part of fall or spring semester, but not both. A typical course load is 15 credits in fall (5 classes) and 15 credits in spring, with students taking two January classes during their four years at ENC. Students may register for up to 17 credit hours without paying additional tuition.

Enrollment Status

Students have an enrollment classification of **full-time** if they are taking 12 or more credits per semester. Students are considered **part-time** if they are taking 11 or fewer credits per semester. A student's enrollment status is **active** when enrolled for a semester, **inactive** when not enrolled. A student's status does not change during J-term or summer due to non-enrollment. A typical course load is 15 credits in fall (5 classes)

and 15 credits in spring, with students taking two January classes during their four years at ENC. Students may register for up to 17 credit hours without paying additional tuition. Enrollment status is reported to the National Student Clearinghouse for determining the repayment of student loans.

Note: Students must be enrolled for 12 credits per semester, not including January term, to be billed at the block tuition rates shown in Tuition and Fees for 2007-2008.

Class Attendance Policy and Absences

Students are expected to attend ALL class sessions. Students are reminded of the importance of regular attendance at class. Generally, it is strongly advised that a student take care to see that his/her absences not exceed the equivalent of 150 minutes of classes in a semester course without penalty. These 150 minutes should be reserved for such things as illnesses, funerals, school related events, etc.

The first absence after these 150 minutes will result in the student's name being reported to his/her academic advisor and the Center for Academic Services (CAS).

The second additional absence will result in the student's name being reported to the Academic Dean. **The third additional absence** will result in the student failing the course unless they withdraw or gain permission from the Academic Dean to reenter the class after a meeting of the student, professor, advisor and Academic Dean.

Extensive absences for whatever reason may lead to the advisability of withdrawal from courses or Academic suspension for the remainder of the semester by the Dean's Office. Students are advised to consult the section of the catalog on withdrawal when they contemplate dropping out of courses or withdrawing from college.

Note: Individual classes may have additional or more stringent attendance policies. Policies stated in the class syllabus must be followed and students are strongly advised to carefully review the attendance policies in each of their classes.

Adding/Dropping Courses

Courses may be officially added or dropped by submitting forms through the Registrar's Office and obtaining the advisor's signature, and if the class has already begun, obtaining the instructor's signature. Notifying an instructor or verbal communication with the Registrar's Office or the student's advisor is not sufficient. All changes may be submitted in writing or electronically. Changes to the student's course schedule will be processed without academic record or fee during the first two weeks of the semester (the add/drop period). After that period, a \$25 fee will be charged for each withdrawal from a course.

Withdrawing from a Course

Students may withdraw from a class through the eighth week of a full-semester course. A W will be recorded on the student's transcript. Unofficial withdrawal (student does not attend and does not submit withdrawal form) will result in a grade of F. Academic standing is based on total credits attempted during the semester, including withdrawn credits. See the academic calendar for last date to withdraw from a class.

Prerequisites

Prerequisites are listed under the departmental course descriptions. A student is responsible for ensuring that he or she has satisfied all prerequisites before registering for a course.

Course Overloads

Each credit hour over 17 credits will be charged per credit. This is considered a course overload. Students must submit an Academic Petition to the Registrar's Office to obtain permission for a course overload. Students who are not in good academic standing are not allowed to register for a course overload.

Waitlists

The Registrar's Office moves students off waitlists into classes as slots open up due either to students dropping the course or by increasing the enrollment limit for a course. The Registrar's Office communicates to students upon enrollment that they have been moved off the waitlist and enrolled in the class. Students who receive electronic notification of enrollment in the course are on the official class roster and will be billed accordingly. Students MUST drop this course if they have decided to take another course.

Student Schedules

Student schedules are emailed to students once registration is complete. Students are expected to check their email regularly throughout the year, but in particular during the registration period as well as during the add/drop period if they have been put on a waitlist. Students are responsible for reviewing their student schedule and communicating changes to the Registrar's Office. Academic petitions related to a student's failure to correct schedule problems during the add/drop period may result in a \$50 petition fee.

Course Incompletes and Extensions

All written work for a given semester is normally due no later than the last day of final examinations for that semester. The instructor has the right to grant an extension up to - but not beyond - the last day of final exams. Students must submit a request for an incomplete if he/she wishes to complete work after this time. The student does so by submitting an Academic Petition to the Registrar's Office for review by the Academic Standing Committee.

Auditing a Course

An audit is the privilege to attend a course for personal enrichment without receiving academic credit. Students who achieve Dean's List standing are allowed to audit one course during the following semester free of charge. Senior citizens over 65 and pastors may audit courses for \$100. Otherwise, a student must pay 1/2 of the regular course charge for an audit. Students who desire to audit a course will be accepted as space permits with preference being given to students enrolled in the course for credit. A student auditing will be exempt from regular class requirements and should not expect individual attention or personal evaluation from the instructor. An audited course will appear on a student's transcript only if the instructor indicates that a student has attended at least fifty percent of the classes. Special admission is required and students must register for an audited course.

Repeating Courses

Students may repeat courses previously passed or failed to improve grades. Only the highest grade earned is used to calculate the grade point average and credit is only awarded once. Substitutes will not be made for courses no longer offered. All grades remain on the transcript. Classes taken as transfer courses may be taken as repeated courses with the higher grade used to calculate the GPA. A student may not re-take a final exam for a class to improve a grade without retaking the class.

Directed Study

A directed study consists of course work done outside the classroom under faculty supervision. Weekly conferences will be held with the instructor. Consequently, a fee for private instruction will be charged in addition to tuition for the course. Generally, directed studies will only be approved if there are irreconcilable class schedule conflicts. The student must submit a petition to the Academic Standing Committee and obtain the permission of the instructor.

Independent Study

An independent study consists of investigation of a problem or topic done largely by the student with initial guidance, occasional consultation, and final evaluation by the faculty member who sponsors the project. Petitions will be considered in cases where a student wishes to pursue a subject of particular interest not already treated extensively in a regular course. The student must submit a petition to the Academic Standing Committee with a syllabus and obtain the permission of the instructor. Generally, students must have a 3.0 cumulative GPA and have a classification of at least a sophomore to be considered.

Grading System

Standing in courses is indicated by letter grades as follows: A indicates distinctly superior work; B indicates meritorious work; C indicates average work; D indicates unsatisfactory work, but passing; F indicates failure. In order to receive credit for a course in which an F has been received at the end of a term, a student must repeat the course. Students cannot enroll in courses for which a failed course is a prerequisite except by approval of the Committee on Academic Standing. Numerical values, or quality points, are assigned to the letter grades according to the following scale for each semester hour for each course involved:

A = 4.0	B+ = 3.3	C+ = 2.3	D = 1.0
A - = 3.7	B = 3.0	C = 2.0	F = 0
	B - = 2.7	C - = 1.7	

- W Withdrawal provided the student maintains a passing grade and withdraws in accordance with the published withdrawal deadline. See the Academic Calendar for dates. No quality points are involved.
- X No final examination. This is a temporary grade and is given on petition to the Committee on Academic Standing, pending permission to make up a missed final examination. No quality points
- NC A first-year freshman student may petition the Committee on Academic Standing to replace an F grade with an NC (no credit). In general, such petitions will only be granted for elective courses. Although an NC indicates non-passing work, it carries no quality point value and thus has no effect on quality point average.

Pass/Fail Grades

Students may elect to take elective courses (courses outside of the required core or their major field) on pass-fail grading. Arrangements for exercising the pass-fail option require notifying the Registrar's Office in writing. Changes from regular grading to pass-fail grading or vice versa may not be made beyond the deadline set forth by the Academic Calendar

- S Satisfactory shall be recorded if the instructor turns in a grade ranging from A to C-.
- U Unsatisfactory shall be recorded for a D or F. Quality point averages shall not be affected under the pass-fail option.

Grade Reports

Final grades are distributed to the student's ENC email address at the conclusion of each semester. At the end of the academic year, a printed copy of all grades earned during the year is mailed to the student's home address.

Grade Grievance Procedure

The grade grievance procedure provides each student with the opportunity to formally appeal the final grade in a course based on a belief that the grade has been awarded arbitrarily or capriciously. This procedure is not intended to handle disputes which may arise about the grading of individual exams or assignments during the semester. When such disputes arise, the student should contact the instructor immediately, rather than wait until the end of the semester. Each Grade Grievance submitted according to this procedure must be an individual action by an individual student. Class action grievances by one student on behalf of several students or an entire class are not permitted. The basic steps are:

- Step I - Instructor and Student (Informal)
- Step II - Division Grade Grievance Committee (Formal)
- Step III - College Grade Grievance Committee (Appeal)

Please contact the Registrar's Office for a detailed description of each step in the process or view the full procedure on the college website.

Student Classification

Classification is based upon the total credit hours earned:

Freshman	0 - 23.9
Sophomore	24 - 56.9
Junior	57 - 93.9
Senior	94 - graduation
Fifth Year Senior	Students who have enough credits to be classified a Senior, but will graduate the following year.

Note: Fifth (5th) year seniors are required to take final exams up until the spring semester of the year of graduation. Questions regarding classification should be referred to the registrar.

Academic Standing - Satisfactory Academic Progress

In order to remain a student at Eastern Nazarene College and continue to receive financial aid, a student must 1) make steady progress in earning credits towards a degree and 2) make satisfactory academic progress, determined by maintaining a

satisfactory cumulative GPA (good academic standing). Students are evaluated at the end of fall and spring semesters for the purpose of determining satisfactory academic progress. A student who fails to meet either one of the criteria outlined below for satisfactory academic progress at the end of each semester faces academic discipline. See the section following the criteria below for an explanation of each type of academic discipline.

1. Steady Progress in Earning Credits Toward a Degree

A student must earn enough cumulative credit hours after each academic year to maintain incremental progress toward completing a degree within the allowable time frame for full-time students.

Degree	Time Frame to Complete
Associate's Degree (AA)	3 Years
Bachelor's Degree (BA/BS)	6 Years

This time frame requires a student to complete a minimum of **67% of the cumulative credit hours attempted each year**. Credit hours attempted include:

- credit hours for all courses appearing on the student's transcript,
- course withdrawals made after the initial add/drop period,
- incomplete courses, repeated courses, pass-fail courses,
- courses with an NC (no credit) grade and remedial course work.

2. Satisfactory Cumulative GPA - Good Academic Standing

Students who maintain a minimum grade point average according to the following table are considered to be in good academic standing. Academic records are reviewed after the fall and spring semesters.

Cumulative Credit Hours Attempted	Minimum Cumulative GPA
0-32.9	1.7
33-48.9	1.8
49-63.9	1.9
64 or more	2.0

Students who fall below the above minimum standards are not in good academic standing and will be placed on academic probation, academic probation without aid, or academic suspension. New students must meet the criteria for satisfactory progress and good standing or will receive an academic warning.

ACADEMIC DISCIPLINE

Academic Warning

Students who earn a **cumulative GPA of less than 1.7 at ENC**, and have **less than 19 attempted credits** will be placed on Academic Warning. The student is put on Academic Warning for the first semester following the unsatisfactory academic performance. Students on Academic Warning will be limited to 13 credits and must earn a minimum GPA of 2.0 for the warning period. Any courses that are completed after Academic Warning status has been determined will not alter that status for the semester. The student will meet with an advisor to determine an appropriate plan for academic success and sign a contract indicating her/his intention to complete that plan. Students failing to meet these requirements will be reviewed by the Academic Standing Committee and may be subject to academic dismissal.

Academic Probation

Students who do not maintain a minimum GPA based on the criteria for good standing are placed on academic probation if they have **attempted fewer than 64 credits** and it is the first time the student has failed to meet the criteria for good standing as defined in the previous section. The student is put on academic probation for the first semester following the unsatisfactory academic performance. In addition, students on academic probation are limited to 13 credits during the probationary period. Only students in good academic standing may officially represent the college (athletics, music, plays, and summer ministry teams).

Students with fewer than 64 attempted credit hours and a cumulative grade point average above 0.7 may be granted a financial aid probationary period of one semester after failing to meet one of the established criteria for the first time only at the time of evaluation. The student may continue to receive financial aid during the probationary period, but must meet both criteria by the end of that semester.

Academic Probation with Financial Aid

Students on Academic Probation as defined above will continue to receive financial aid during the first probationary period only.

Academic Probation without Financial Aid

Students who have earned academic probation without financial aid lose all financial aid awarded during the probationary period. This means a student loses his/her eligibility to receive federal and institutional financial aid because the student is not making satisfactory academic progress to warrant the financial aid. Non-Federal private loans, cash/credit payments including payment plans, and outside scholarships will need to be used to pay the student bill. Academic Probation without Financial Aid is based on the following criteria:

Criteria 1 - Students who have been on academic probation for one semester and have not improved their academic performance to meet minimum GPA requirements based on good academic standing.

Criteria 2 - Students who have attempted 64 or more credit hours and are not meeting the criteria for satisfactory academic progress. This includes student who previously have never been on academic probation.

Academic Suspension

A student may be academically suspended if any one of the following criteria is met:

1. Students who fail to meet the minimum GPA requirements based on the number of credit hours attempted and/or have been on academic probation for two successive semesters are eligible to be placed on academic suspension. This is based on the criteria for good academic standing.
2. Students may be suspended if, after one semester on probation, the cumulative grade point average is not improved, **OR**
3. Students may be suspended if after two successive semesters on probation, the grade point average does not meet minimum standards for good academic standing, **OR**
4. Students may be suspended if at any time after two semesters at ENC, the grade point average falls below a 1.0 average.

Academic Suspension Due to Excessive Absences

At any time during the semester, the Academic Dean may suspend a student for excessive absences from all of his/her classes as defined by the course syllabus. Students on academic suspension are not eligible to apply for readmission until after the lapse of one regular semester. Students are strongly encouraged to work with the college registrar to create an academic plan to work toward their return to ENC. If readmitted, the student will be on academic probation.

Removal from Academic Probation or Probation without Financial Aid:

A student will be taken off academic probation if the student meets the two criteria for satisfactory academic progress and academic standing outlined in the Academic Standing and Discipline sections.

Appealing Suspension: A suspension may be appealed within 14 days from the date on the dismissal notification. Appeals must be submitted in the form of a professional, typed letter to the Academic Standing Committee. The appeal must be submitted to the Registrar's Office, and must include the reasons for the appeal and assessment of academic difficulties. If the suspension appeal is granted, the student will be on academic probation for the following semester.

Readmission after Suspension: Suspended students may apply for readmission after one semester has lapsed by presenting evidence of a commitment to improving academic performance and success. Students need to present an official transcript of courses taken during the suspended semester as evidence of this commitment.

Readmission is not automatic and is contingent upon evidence that the student has gained the ability and motivation to succeed in college. Applications for readmission must be signed by the Registrar's Office, Student Development, Student Accounts and Financial Aid. The readmission form is available in the Admissions Office.

Readmission after 5 Years: Students who are readmitted to ENC after five years will have their credits evaluated by the registrar. Students will be held to the degree requirements of the current catalog year.

LEAVING COLLEGE

Withdrawal from College

A student must file a withdrawal form when withdrawing from the college, which may be obtained in the Office of Student Development. The student must obtain the signatures of the Registrar's Office, Student Accounts, Student Life and Financial Aid. When a student withdraws (or is withdrawn) from school prior to the end of a semester, a prorated amount of the student's institutional scholarships and grants will be withdrawn from the student's account, based upon the refund guidelines. Additionally, Title IV federal and state financial aid will be repaid to the appropriate program(s) as mandated by regulations published by the U.S. Department of Education. Please see the Student Accounts section for additional information.

Leave of Absence

A student must petition the Academic Standing Committee for a leave of absence. Students who are granted a leave of absence are NOT considered to be withdrawn from college. This is a very important distinction since the grace period associated

with the repayment of federal loans (i.e. Stafford and Perkins Loans) will begin to expire from the date of withdrawal.

Leave of Absence

Students who are granted a leave of absence must return on the scheduled date or a withdrawal date will be pre-dated with the last recorded date of class attendance. This will be the recorded date reported to lenders regardless of whether the student subsequently withdraws officially by notifying the school. Room and board refunds will be made on the basis of the number of weeks the student attended. No refunds will be made for a portion of a week.

TRANSFER POLICY

From Other Colleges and Universities:

1. Credits from colleges and universities that are accredited by any of the six regional accrediting associations in the United States may be accepted for transfer.
2. Courses submitted for transfer credit shall receive ENC credit if the course was completed with a grade of C- or better at an accredited degree granting institution and the course is accepted towards graduation at Eastern Nazarene College. Transfer credit hours from nonaccredited institutions will be tentative, pending achievement at ENC. Transfer credit hours from colleges and universities outside the United States require careful evaluation and may be tentative, pending achievement at ENC. Pass/Fail courses will not transfer. The exception is PE Activity courses.
3. There shall be no delineation between traditional courses and distance-learning/online courses as long as the course meets the criteria stated in items 1 and 2.
4. Prior permission must be granted to use a transfer course as a grade replacement.
5. No more than 4 transfer credits shall be accepted during a semester while the student is simultaneously enrolled at ENC. Credits taken at another college are NOT counted toward determining enrollment status (FT or PT) at ENC.
6. For courses counting toward a major program, a minimum of one-half of the required graduation credits for the degree must be satisfied at Eastern Nazarene College.
7. When course work is substantially equivalent to a specific course at Eastern Nazarene College, credit is granted in the ENC course and that requirement is met. The department/division overseeing that program of study shall review and approve all equivalencies.

Pre-Approval of Transfer Courses

Current students wishing to take courses at other accredited colleges or universities for the purpose of receiving transfer credit (as outlined above) toward their degree requirements at Eastern Nazarene College must fill out a Pre-Approval to Transfer Form. Students who fail to follow the process cannot be guaranteed courses will transfer as expected.

To ensure a smooth evaluation process, the student must provide: where the course will be taken, when, the course number, and a description of the course as part of the permission to transfer form, as well as specify what course requirement he/she hopes to fulfill through the requested transfer course.

Courses are evaluated by the major department for courses in the student's major degree or by the Registrar's Office for all electives. The Registrar's Office sends the student a transfer evaluation report once the evaluation is complete.

If the transfer course is approved, a student must request an official transcript be sent from the host college to Eastern Nazarene College in order for the course to be credited toward his/her degree. Students must earn a C- or higher in order to gain credit.

Transfer Credit and GPA

Courses taken at other accredited colleges and universities that are evaluated for transfer credit prior to the student's first course at Eastern Nazarene College are not calculated toward the student's GPA. The student receives credit only. Courses taken at other accredited colleges and universities after a student has completed at least one course at ENC are included in the calculation of the student's GPA.

FINAL EXAMINATION POLICY

A final semester examination and/or a major paper is required in each course. **A student who fails in a course is not allowed to take a second examination until he/she has repeated the course.** Attendance at the scheduled exam time is mandatory. Students who have a serious conflict (serious illness, disability, death in the family, etc.) with the scheduled time must submit a petition to the Committee on Academic Standing. If the reason is related to a disability, the student may petition the director of the Center for Academic Services, with documentation for permission to take a specially-scheduled examination. Permission will not be granted to accommodate travel plans. **Students are advised to study the academic calendar at the front of this catalog and the final examination schedule, which is posted by October 1 and March 1, before making travel arrangements or committing to events or activities that fall within the final exam period.**

Seniors and Final Exams

Students who are graduating in May or August are not required to take a final exam during the spring semester. Students who wish to take the final exam may do so with special permission from the professor and notification to the Registrar's Office. All final exams must be taken at the scheduled final exam date/time. Students seeking to take a final exam at a different time must petition the Academic Standing Committee. Petitions may be picked up at the Registrar's Office. Students who have enough credits to be classified a senior but are not graduating in the current academic year must take final exams.

Academic Petitions

Academic petitions may be filed by students who wish to be **granted special permission or exception to a current academic policy or requirement**, including requests to:

- Take courses at Adult Studies
- Allow a course substitution for degree requirements
- Receive an incomplete or extension to a course incomplete
- Change a final exam schedule
- Make up a missed final exam

- Take a directed study class
- Take an independent study class
- Take a course overload

Petitions must be: 1.) Typed in the form of a professionally written letter, 2.) Submitted three days before the published schedule of Academic Standing Committee meetings, 3.) Completed in full with necessary documentation attached to Petition Form or the form and instructions may be printed from the College website or obtained in the Registrar's Office. Requested supporting documentation must be submitted with the petition or the petition will be tabled until pertinent documents are submitted. Students and advisors need to understand that filing academic petitions should be done only under rare, extenuating circumstances. Academic petitions are reviewed by the Academic Standing Committee. The committee meets on an as needed basis, generally every 2-3 weeks. Results of petitions are communicated to the student, advisor, and any other pertinent parties by the Registrar's Office. See the Registrar's Office for a schedule of meeting dates. Petitions submitted by students may be charged a \$50 processing fee.

ACADEMIC INTEGRITY POLICY

A cornerstone of academia is a commitment to academic integrity. In a scholarly community, the importance of having respect for one's own work and the work of others is essential; building a sense of trust among members of such a community is crucial as individuals create, share, and apply scholarly work. The importance of academic integrity is heightened within a Christian community of scholars in that we are also accountable to God for any behavior of a dishonest nature. In consultation with administrators, faculty and students, Eastern Nazarene College has set forth basic standards of academic integrity.

Basic Standards of Academic Integrity

At Eastern Nazarene College, integrity and honesty are expected and required in all activities associated in any way with academic course work. While it is not prudent or practical to attempt to specify an exhaustive list of unacceptable behavior related to academic integrity, examples of unacceptable behavior include, but are not limited to, the following:

- Cheating (e.g., using any unauthorized materials or devices during an examination, allowing other students to submit your work under their name, changing responses on an exam after it has been graded, etc.).
- Plagiarism, which is presenting the work of others as your own, either directly or by implication (e.g., not giving credit to the original source for any thoughts, ideas, quotations, charts, etc. included in one's own work, etc.).
- Falsifying information (e.g., reporting of undocumented data, fabricating a set of data, fabricating volunteer hours required for a course, etc.).
- Stealing and/or distributing exams which have not been authorized for release or otherwise taking advantage of dishonest behavior for the purpose of gaining an unfair academic advantage.

The basic standards of academic integrity are presented during freshman orientation, included in syllabi, and discussed in individual classes at the beginning of each semester.

Students and faculty should consult the Registrar's Office for the procedures for appealing and reporting academic dishonesty. It can also be found on the college web site at www.enc.edu under the Registrar's Office.

Academic Honors - Dean's List and Honor Roll

Honors are based on all grades earned at Eastern Nazarene College. To qualify for the honor roll or dean's list for a given semester, students must be enrolled for at least 12 credits (not counting satisfactory/unsatisfactory courses and developmental courses) and earn a GPA of at least 3.7 for the dean's list and 3.2 to be named to the honor roll.

Phi Delta

Students are eligible if they obtain two consecutive semesters on the dean's list and maintain a cumulative GPA of 3.7 .

Graduation Honors

Graduation honors are awarded to students who have the following final cumulative grade point averages:

Honor	Minimum Grade Point Average
Summa Cum Laude	3.9
Magna Cum Laude	3.7
Cum Laude	3.5

Phi Delta Lambda National Nazarene Honor Society

Students who are in the top 15% of their graduating class and have completed a minimum of 42 credits at ENC are eligible for nomination to this academic honor society.

GRADUATION

Degree Candidacy

To be considered a candidate for a baccalaureate degree in any specific year, the student must have filed an application for degree candidacy and a degree audit report signed by the student's advisor. The application is due no later than November 1 of the junior year. The report states how all requirements for graduation are to be met, and the student must have had this application approved by the registrar. Any change in the student's approved program may delay his/her graduation. Only candidates for a degree will participate in the formal activities of the senior year. A late fee of \$50 is charged for late submissions during the junior year. Students who submit a degree candidacy form the same academic year as their graduation are charged a \$75 late fee. No student will participate in commencement unless all scholastic and financial requirements have been met. Faculty advisors and the registrar are freely available to assist students in planning their programs, but the ultimate responsibility of meeting all requirements for the degree rests entirely with the individual student.

Staying on Track to Graduate - Degree Audit Reports

Students are responsible for reviewing the catalog and knowing their degree requirements. It is up to students to review their progress after each semester to ensure they are staying on track to graduate. Degree audit reports are available for students to help track their progress and to register for classes. The reports show which courses are

needed to complete a specific major and what courses have been taken. Audit reports are available to students through the Registrar's Office by emailing a request to registrar@enc.edu or may be printed by your advisor.

Graduation Requirements - Participation in Graduation

Students who have satisfied all degree requirements are cleared academically to march in graduation. However, students must also be cleared financially and by the Student Life Office in order to participate. *Financially Cleared:* The Bursar's Office has the authority to put a student on financial hold to not participate in graduation if the student owes money to the college. *Student Life Office:* The office can impose disciplinary action that includes forfeiture of participation in graduation ceremonies.

Petition to Participate in Graduation

Students who are no more than 3 courses short of meeting graduation requirements may participate in the May graduation ceremony, if they provide a plan to complete degree requirements and submit the Petition to Participate in Graduation contract. The student must specify exactly when and where he/she will take the remaining courses. If the student is taking courses somewhere other than ENC, the student must provide course descriptions and a Pre-Approval to Transfer form for evaluation of the course by the Registrar's Office and/or department major. Students may not petition to participate in the Winter commencement.

Transcripts

Upon receipt of a written, signed request, the Registrar's Office will release transcripts to identified parties. All financial obligations to the college must be met before a transcript is issued or else the request will be put on hold. There is a \$5 fee for processing transcripts. They are processed within five business days. There is a \$10 fee for same-day processing of transcripts. The Registrar's Office does not release unofficial transcripts and does not fax transcripts, in order to protect the integrity of the document and students' privacy.

OFF CAMPUS STUDY OPPORTUNITIES

Cross Registration at Other Nazarene Institutions

1. You can cross register at any one of the other Nazarene colleges or universities in the United States and Canada.
2. You must apply to the host college - cross registration is not automatic.
3. Cross registration allows you to take courses without transferring to the other school.
4. You can cross register for a maximum of 18 hours.
5. In cross registration, you register and take care of your financial matters on your own campus, even though you are taking courses at another campus.
6. In cross registration, you will pay the tuition of your home institution and the fees, room and board charges of the host institution.

Please visit the web site at www.enc.edu for more information about cross registration and the process that needs to be followed.

Returning to ENC after Off-Campus Study

Prior to a student's departure from ENC for off-campus study, the student must have

the off-campus study checklist signed. This may be obtained in the Registrar's office. This will facilitate a smooth return to campus.

Council for Christian Colleges & Universities (CCCU) Programs

Eastern Nazarene College is a member of the Council for Christian Colleges & Universities, an international higher education association of over 100 intentionally Christian colleges and universities that was founded in 1976. The CCCU sponsors off campus study opportunities available to ENC students. The programs, listed below, include culture-shaping experiences in the U.S. and culture-crossing programs overseas. Further information can be found on the CCCU web site at www.bestsemester.com.

American Studies Program (ASP): The ASP offers interdisciplinary reflection on public life and vocation, practical marketplace experiences, and community living. Students are invited to develop an appreciation for how the integral character of biblical faith relates to thinking critically about public policy and marketplace issues, and to nurture a desire to take up responsible Christ-centered service in their personal and public vocations.

Contemporary Music Center (CMC): The CMC's mission is to prepare students academically and creatively for potential careers in the music industry through an interdisciplinary study program. Designed as an artists' community, the program seeks to develop artists and music executives with a Christ-centered vision for music content, production, and delivery.

Los Angeles Film Center (LAFSC): LAFSC, located in one of the primary film and television production centers in L.A., utilizes state of the art camera and editing equipment. The program is designed to integrate a Christian worldview with an introductory exploration of the work and workings of mainstream Hollywood entertainment.

Washington Journalism Center: The center is an advanced, experiential semester on Capitol Hill that will cultivate professional news skills and encourage students to think through the implications of being a Christian working in the news media in the nation's capital, a city that is home to the powerful and the powerless.

Australia Studies Center (ASC): Students travel to Australia and New Zealand to experience the people and cultures as well as natural beauty beyond description. The purpose is to prepare students to live the Christian life in a religiously and culturally pluralistic world; to consider the meaning of being salt and light in the culture-shaping arena of the professional performing artist; to encourage them to think through their role as kingdom builders in this world; and to challenge them to grapple with issues of justice for marginalized people.

China Studies Program (CSP): The CSP is an interdisciplinary semester program hosted by Xiamenrsity, a national "key university," located by the sea in subtropical southeastern China. Students view China from the inside to experience its culture and diversity and can see for themselves the world's next great power.

Latin American Studies (LASP): Students are exposed to and encouraged to develop relationships with Latin American experts and ordinary citizens through

homestays, field studies, and lively classroom exchanges. They will discuss how the power and influence of the U.S. touches virtually every sphere of their lives and address the causes of and responses to poverty, racism, sexism, violence, and human rights abuse in their countries.

Middle Eastern Studies Program (MESP): The MESP seeks to prepare students to live the Christian life in a world that is religiously and culturally pluralistic. Students experience intense encounters with different worldviews while the MESP community offers a supportive environment.

Oxford Scholar - Semester Program: Read, learn, live, and broaden your thinking in the “City of Dreaming Spires.” The Scholars’ Semester in Oxford allows you, as a member of Wycliffe Hall and a visiting student of Oxford University, to work with academic tutors to hone your skills and delve into the areas that interest you most in this historic seat of learning.

Oxford Summer Programme (OSP): Wycliffe Hall, established in Oxford in 1877 with a vision for training godly Christian leaders for the church, is today considered one of the premier theological institutions in the world. The programme is designed to enable students to gain a more comprehensive understanding of the relationship between Christianity and culture and to do specialized work under Oxford academics.

Russian Studies Program (RSP): The RSP provides participants the opportunity to be on the edge of discovery as political and economic events daily influence the Russia of tomorrow and her relationship with the West. The program seeks to prepare students to live out their faith in a multinational and culturally diverse world.

Uganda Studies Program (USP): Uganda Christian University (UCU), set on the outskirts of the capital city Kampala, serves as the base of study for students in the USP. Homestays, travel, service learning and daily interaction with Honours College students form the backbone of the USP experience. Courses are taught by the local faculty in the English tutorial tradition. Students will be immersed in a uniquely African education, covering topics such as Christianity and Islam in contemporary Africa, African literature, and East African history.

DEPARTMENTAL CURRICULUM

Biology Department

Division of Natural Sciences

Dr. Matthew Waterman (Chair), Associate Professor

Dr. Aaron Domina, Assistant Professor

Jonathan Twining, Assistant Professor

DEPARTMENT OBJECTIVES

1. To provide an opportunity for the student to become familiar with the principal phenomena of life and to foster the continuous development of understanding and proficiency in the biological sciences.
2. To provide training in molecular, cellular, organismal, ecological, and environmental Biology and to assist the student in the application of the knowledge acquired in collateral preparation in Chemistry, Mathematics, and Physics.
3. To encourage an understanding and appreciation of inquiry and its practice as the “process” underlying the logic of Biology and its ancillary sciences; to help the student learn some of the major methods and skills involved, including evaluation and relevance.
4. To provide training and technical background for the student having Biology prerequisites for professional preparation.
5. To prepare the student for graduate study in science, the health professions, and/or careers in Biology, including teaching, technology, public service, and research.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Biology, Biochemistry, Forensic Science (see Forensic Science)*

Bachelor of Arts: *Biology (BA only recommended for double majors)*

Minor: *Biology*

Preparatory/Pre-Graduate Studies: *Students may also major in Biology and choose elective courses that will prepare them for future study. The recommended sequences of courses include Pre-Medicine; Pre-Nursing, Pre-Physical Therapy; Pre-Occupational Therapy and Pre-Pharmacy. Each of these programs may be pursued in combination with a variety of majors - typically as part of a Biology, Chemistry, or Health Science (BS) degree. The requirements for these areas of preparation are listed under Preparatory Programs/Pre-Graduate Studies.*

GENERAL DEGREE REQUIREMENTS

- Fulfill all General Education requirements
- Fulfill all department major requirements
- Earn minimum of 123 graduation credits
- Pass department comprehensive exam
- Meet minimum cumulative GPA of 2.0

GENERAL EDUCATION REQUIREMENTS

See Page 13 for course options.

- Communication skills, generally taken freshman year, 9 credits
- Physical Education skills, 2 credits
- Biblical Literature and Christian Tradition, 6 credits
- Social Sciences (BS degree 3 credits, BA degree 6 credits)
- Intercultural Literacy requirement (BS degree 3 credits, BA degree 6 credits) **OR** Language requirement (Check student's Academic Information Report for high school language)
- Cultural Perspectives requirements, 18 credits

Biology Core, minimum grade C-, 19 credits

BI103/BI103L Introduction to Cell Biology w/Lab	4
BI104/BI104L Introduction to Ecology and Diversity w/Lab	4
BI105/BI105L Introduction to Plants and Animals w/Lab	4
BI390 Junior Seminar	2
BI490 Senior Seminar	2
BI499 Senior Research	3

Biology Focus Area Requirements and Options

Each degree requires a varying number of credits for each area. Students choose courses from the lists below to fulfill the credit requirements.

Focus Area I: Cell and Molecular (choose 1 course and 1 lab) minimum grade C-

BI212 Genetics	3
BI213 Genetics Lab	3
BI220 Forensic Science AND	3
BI220L Forensic Science Lab	2
BI231 Analytical Methods AND	3
BI231L Analytical Methods Lab	2
BI310 Bioinformatics AND	3
BI310L Bioinformatics Lab	2
BI393 Cell Biology AND	3
BI394 Cell Biology and Immunology Lab	3
BI395 Immunology	3
BI431 Current Topics in Biology	3
BI491 Biochemistry Lab AND	3
BI492 Biochemistry I	3
BI492L Biochemistry Lab	3
BI493 Biochemistry II	3

Focus Area II: Field and Ecology (choose 1 course with lab) minimum grade C-

BI221 Invertebrate Zoology AND	3
BI221L Invertebrate Zoology Lab	2
BI275 Freshwater Biology	3
BI280 Marine Biology	3
BI285L Aquatic Biology Lab	3
BI343 Field Problems In Ecology and Anthropology AND	3

BI343L Field Problems Ecology and Anthropology Lab	2
BI431 Current Topics in Biology	3
BI431L Current Topics in Biology Lab	3
BI480 Conservation Biology AND	3
BI480L Conservation Biology Lab	3
EV201 Environmental Science AND	3
EV201L Environmental Science Lab	1
EV331 Topics in Environmental Science	3
EV331L Topics in Environmental Science Lab	3

Focus Area III: Organismal, must take course with lab, minimum grade C-

BI203 Muscoskeletal Anatomy and Physiology	3
BI203L Muscoskeletal Anatomy and Physiology Lab	2
BI204 Systematic Anatomy and Physiology	3
BI204L Systematic Anatomy and Physiology Lab	2
BI260 General Botany	3
BI260L General Botany Lab	2
BI352 Microbiology	3
BI352L Microbiology Lab	2
BI370 Comparative Anatomy and Embryology	3
BI370L Comparative Anatomy and Embryology Lab	2
BI431 Current Topics in Biology	3
BI431L Current Topics in Biology Lab	3
BI451 Physiology	3
BI451L Physiology Lab	2

BIOLOGY (BS) REQUIREMENTS

The Bachelor of Science is the appropriate degree for those students desiring to pursue graduate study in Biology or preparation in the health professions. Students are required to:

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12
- Fulfill all Biology Core requirements, 19 credits - see above
- Biology or Environmental Science, additional electives 200 Above - at least one course 400 level with lab, 9 credits

Biology Focus Area Electives, minimum one class with lab from each area

See lists above

Focus Area I: Cell and Molecular and Lab

Focus Area II: Field and Ecology

Focus Area III: Organismal

Cognates (all required) minimum grade C-

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4
CH321/CH321L Organic Chemistry I w/Lab	6
CH322/CH322L Organic Chemistry II w/Lab	5
MA151 Calculus I	4

PY201/PY201L General Physics I w/Lab	5
PY202/PY202L General Physics II w/Lab	5

Choose Math or Chemistry Cognate

MA118 Introduction to Statistics OR	3
CH231/CH231L Analytical Chemistry w/Lab	5

BIOCHEMISTRY (BS) REQUIREMENTS

The Bachelor of Science in Biochemistry is appropriate for students interested in graduate studies in Biochemistry or preparation for the health professions, especially medicine.

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12

Biology Requirements (all required) minimum grade C-, 11 credits

BI103/BI103L Introduction to Cell Biology and Genetics w/Lab	4
BI105/BI105L Introduction to Plants and Animals w/Lab	4
BI499/CH499 Independent Study/Research	varies

Chemistry Requirements (all required) minimum grade C-, 41 credits

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4
CH231/CH231L Analytical Chemistry w/Lab	5
CH321/CH321L Organic Chemistry I w/Lab	6
CH322/CH322L Organic Chemistry II w/Lab	5
CH390 Junior Seminar	2
CH490 Senior Seminar	2
CH491 Biochemistry Lab	3
CH492 Biochemistry I	3
CH493 Biochemistry II	3

Biochemistry Elective Credits, minimum grade C-, 10 credits

Any BI course numbered 200 or above
Any CH course numbered 200 or above

Cognates (all required) 18 credits

MA151 Calculus I	4
MA152 Calculus II	4
PY201/PY201L General Physics I w/Lab	5
PY202/PY202L General Physics II w/Lab	5

BIOLOGY (BA) REQUIREMENTS

The Bachelor of Arts is appropriate for the student preparing for a career in the allied health sciences, secondary education, laboratory technician or similar field.

- Fulfill all General Degree requirements - see above

Biology Requirements, minimum grade C-

BI103 Introduction to Cell Biology and Genetics	3
BI103L Introduction to Cell Biology and Genetics Lab	1
BI104 Introduction to Ecology and Diversity	3
BI104L Introduction to Ecology and Diversity Lab	1

BI105 Introduction to Plants and Animals	3
BI105L Introduction to Plants and Animals Lab	1
BI390 Junior Seminar In Biology	2
BI490 Senior Seminar In Biology	2
BI499 Independent Study/Research	varies

Chemistry (choose sequence 1 or sequence 2) minimum grade C-

Chemistry Sequence 1 - required credits 8

CH101 Introduction to Chemistry	3
CH101L Introduction to Chemistry Lab	1
CH102 Chemistry of Life	3
CH102L Chemistry of Life Lab	1

Chemistry Sequence 2 - 8 credits required

CH103 General Chemistry I	3
CH103L General Chemistry I Lab	1
CH104 General Chemistry II	3
CH104L General Chemistry II Lab	1

Biology Focus Area Electives (choose one in each area with the lab)

- Focus Area I (see page 68)
- Focus Area II (see pages 68-69)
- Focus Area III (see page 69)

Biology Electives - required credits 8, minimum grade C-

- Choose one Biology course 200 level or above
- Choose one Biology course 300 or above, with lab

Cognate Requirements

- MA118 Introduction to Statistics

Internship Requirement, minimum grade S

- Choose BI388/488 Internship

BIOLOGY MINOR, minimum 15 credits

BI103/103L Intro to Cell Biology and Genetics w/Lab	4
BI104/104L Intro to Ecology and Diversity w/Lab	4
BI105/105L Plants and Animals w/Lab	4
plus any Biology elective 200 level or above with the lab	

BIOLOGY COURSE DESCRIPTIONS

BI101 Principles of Biology (3 cr) Introduces the study of life with a particular emphasis on human biology including: molecular processes, cell theory, structure and functions of organ systems, human genetics, biology of disease, and human interaction with the living world. *Co-requisite: BI101L.*

BI101L Principles of Biology Lab (1 cr) Lab for BI101.

BI103 Introduction to Cell Biology and Genetics (3 cr) Covers principles of cell biology and genetics. Emphasizes topics such as prokaryotic and eukaryotic cell structure and function, respiration and fermentation, photosynthesis, mitosis and meiosis, patterns of inheritance, DNA synthesis and repair, transpiration and translation, and control of prokaryotic and eukaryotic gene expression. *Prerequisites: Math SAT ≥ 500 (Math ACT*

≥19) AND high school Algebra II ≥ C- AND high school Biology ≥ C- OR MA111 College Algebra ≥ C- AND BI101 Principles of Biology ≥ C- OR permission of Biology Department chair. Co-requisite: BI103L.

BI103L Introduction to Cell Biology and Genetics Lab (1 cr) Lab for BI103.

BI104 Introduction to Ecology and Diversity (3 cr) Covers principles of ecology and evolution. Emphasizes topics such as the phylogenetic diversity of life, basic evolutionary patterns and processes, biodiversity and conservation, population ecology, species and community interactions, animal behavior, and ecosystems. *Prerequisites:* Math SAT ≥ 500 (Math ACT ≥ 19) AND high school Algebra II ≥ C- AND high school Biology ≥ C- OR MA111 College Algebra ≥ C- AND BI101 Principles of Biology ≥ C- OR permission of Biology Department chair. Co-requisite: BI104L.

BI104L Introduction to Ecology and Diversity Lab (1 cr) Lab for BI104.

BI105 Introduction to Plants and Animals (3 cr) Covers principles of organismal biology. Emphasizes topics such as plant form and function, plant nutrition, plant reproduction and defense systems, animal form and function, gas exchange and circulation, sensory systems and movement, chemical signals and immune response, and reproduction. *Prerequisites:* Math SAT ≥ 500 (Math ACT ≥ 19) AND high school Algebra II ≥ C- AND high school biology ≥ C- OR MA111 College Algebra ≥ C- AND BI101 Principles of Biology ≥ C- OR permission of Biology Department chair. Co-requisite: BI105L.

BI105L Introduction to Plants and Animals Lab (1 cr) Lab for BI105.

BI110/CH110 Introduction to Nutrition for Non-Majors (3 cr) Introduces the science of nutrition; designed for the non-science major. Topics considered in the classroom and the laboratory include: making healthy food choices, using nutrition standards and guidelines, the chemical composition of food, how food is digested and absorbed, vitamins and minerals, weight control, eating disorders, fitness, world hunger, food safety, and nutrition throughout the life cycle. Objectives include: 1) to introduce the chemical basis of nutrition, how food is digested, absorbed, metabolized, and excreted; 2) to apply theoretical knowledge to changing life circumstances due to aging, disease, or the social environment; and 3) to give a broad overview of current issues in nutrition to help students develop an awareness of nutritional issues and problems. Co-requisite: BI110L.

BI110L/CH110L Introduction to Nutrition Lab for Non-Majors (1 cr) Lab for BI110.

BI203 Musculoskeletal Anatomy and Physiology (3 cr) A system approach to the gross anatomy and physiology of the skeletal, muscular, and nervous systems of the human body. *Prerequisite:* BI101 or BI105. Co-requisite: BI203L.

BI203L Musculoskeletal Anatomy and Physiology Lab (2 cr) Lab for BI203.

BI204 Systematic Anatomy and Physiology (3 cr) Studies the gross structure and homeostatic mechanisms of the human cardiovascular, endocrine, immune, digestive, urinary, reproductive, and respiratory systems. *Prerequisites:* BI101 or BI105. Co-requisite: BI204L.

BI204L Systematic Anatomy and Physiology Lab (2 cr) Lab for BI204.

BI210 Earth Science (3 cr) Studies the materials and processes that interact at the earth's surface to produce the various geomorphologic structures. Includes discussion of physical and historical geology, meteorology, oceanography, and astronomy. Supplements lecture and theory by laboratory and fieldwork. Does not meet requirements for a major in Biology. Co-requisite: BI210L. Offered alternate years.

BI210L Earth Science Lab (2 cr) Lab for BI210.

BI212 Genetics (3 cr) Studies the principles of inheritance, structure, and function of

hereditary informational molecules, the dynamic frequency of these genes in the population, and the application of genetic principles to biological problems. Laboratory and lecture material is selected from plant, animal (including human), and microbial studies. *Prerequisites: BI103, and CH102 or CH103.*

BI213 Genetics Lab (3 cr) A laboratory course with project based experiments. Multiple genetic models will be used, such as *D. melanogaster*, *C. elegans*, *S. cerevisiae* and *E. coli*. *Pre/Co-requisite: BI212.*

BI220/FS220 Forensic Science (3 cr) Introduces the forensic sciences, which includes topics such as forensic photography, firearms and toll mark identification, examination of questioned documents, hair and fiber analysis, serology, instrumental analysis, forensic pathology, and forensic anthropology. *Prerequisites: BI101 or BI105, and CH102 or CH103. Co-requisite: BI/FS220L.*

BI220L/FS220L Forensic Science Lab (2 cr) Lab for BI220/FS220.

BI221 Invertebrate Zoology (3 cr) Comparative studies of the anatomy, physiology, ecology, and phylogenic relationships of representative invertebrates, with emphasis on ecology, pathology and economic importance to humans. Examines phyla as diverse as the heterotrophic protists to the invertebrate chordates. *Prerequisite: BI104. Co-requisite: BI221L. Offered alternate years.*

BI221L Invertebrate Zoology (2 cr) Lab for BI221.

BI230 Oceanography (3 cr) Studies the chemical and physical relationships, emphasizing their effects on the biota of the oceans. *Prerequisite: BI104. Offered alternate years.*

BI231/CH231 Analytical Methods (3 cr) Studies the theoretical foundation and skills necessary for the solution of problems encountered in the area of quantitative chemical analysis, including classical and modern methods. Gives emphasis to experimental design, statistics, evaluation and presentation of data, sampling, equilibrium dynamics of analytically important reactions, volumetric techniques, absorption and emission spectroscopy methods, electrochemical methods, and analytical and biological separations. *Prerequisite: CH104. Co-requisite: BI231L. Cross-Listed as CH231. Offered in January term.*

BI241 Nutrition For Majors (3 cr) Introduces the theoretical chemical basis of nutrition, how food is digested, absorbed, utilized, and excreted, with a brief overview of differing nutritional states according to age categories and disease states; prepares the student to recognize nutritionally-related disorders in the clinical setting. *Prerequisites: CH104 and BI105. Offered alternate years.*

BI250 Marine Biology and Oceanography Lab (3 cr) Studies various marine ecosystems accessible in the New England area. *Pre/Co-requisite: BI230 or BI280.*

BI260 General Botany (3 cr) Gives Biology major an overview of the kingdoms Monera, photosynthetic Protista, Fungi, and Plantae, with strongest emphasis on the plants. Besides the phylogenic survey of these kingdoms, the course covers the molecular basis of photosynthesis and respiration, the morphology of the various divisions, and their economic significance. *Prerequisites: BI105 and CH101 or CH103. Co-requisite: BI260L. Offered alternate years.*

BI260L General Botany Lab (2 cr) Lab for BI260.

BI275 Freshwater Biology (3 cr) A comprehensive examination of the biology and ecology of watersheds, lakes, ponds, streams, vernal pools, and wetlands.

BI280 Marine Biology (3 cr) Introduces marine ecology, stressing a biotic-biotic relationship. The immediate goal is familiarization with marine biology along the New England coast. Open to biology teachers and advanced majors. *Prerequisite: BI104. Offered alternate years.*

BI285L Aquatic Biology Lab (3 cr) Engages students in field and laboratory methods for the observation, collection, identification, and analysis of New England's freshwater, estuarine, and marine populations and communities. Meets lab requirements for both BI275 Freshwater Biology and BI280 Marine Biology.

BI298 CO-OP (0 cr) Inquire for options.

BI310 Bioinformatics (3 cr) Introduces bioinformatics: the combined field of biology, information science, and technology. Focuses on the analysis of proteins, genes, and genomes. *Prerequisite: BI103 (BI212 recommended but not required). Co-requisite: BI310L.*

BI310L Bioinformatics Lab (2 cr) Lab for BI310. Includes hands-on use of computer applications to study and compare proteins, genes, and genomes.

BI343/BI343L Field Problems in Ecology (5 cr) Studies a specialized ecological area or problem. May be selected from a wide range of marine or terrestrial ecological zones. *Prerequisites: BI104 and CH103. Co-requisite: BI343L. Options offered are Field Problems in Ecology, Trip Natural History Scotland, Field Problems in Ecology and Lab, Trip Natural History Belize.*

BI350/CH350 Advanced Chemistry Lab (3 cr) The first of a project oriented, two-semester laboratory program that integrates various methods and techniques. Includes basic electronics, electrochemistry, various forms of spectroscopy and chromatography, advanced synthetic techniques, and other topics. *Prerequisite: CH322. Cross-listed with CH350.*

BI351/CH351 Advanced Chemistry Lab (3 cr) The second of a project oriented, two-semester laboratory program that integrates various methods and techniques. Includes writing a research proposal based on a comprehensive literature search and experimental design for the senior project, which is completed in the senior research course. *Prerequisite: CH322. Cross-listed with CH351.*

BI352 Microbiology (3 cr) Includes a historical survey, the pure culture methods of study, and the general morphology and physiology of bacteria and other microorganisms. Develops skills in solving for unknown microbes in conjunction with Bergey's Manual of Determinative Bacteriology. *Prerequisites: BI103 or BI105 and CH101 or CH103. Co-requisite: BI352L.*

BI352L Microbiology Lab Microbiology Lab (2 cr) Lab for BI352

BI370 Comparative Anatomy and Embryology (3 cr) Comparative study of the development and adult gross anatomy of representative vertebrates. Initial lectures are concerned with early vertebrate morphogenesis, followed by a correlation of the vertebrates with taxonomy, chronology, homology, and paleontology. *Prerequisite: BI105. Co-requisite: BI370L. Offered alternate years.*

BI370L Comparative Anatomy and Embryology Lab (2 cr) Lab for BI370.

BI390 Junior Seminar in Biology (2 cr) Teaches critical analysis of primary journal articles and seminars. Other topics include career planning and social and ethical problems in Biology. *Prerequisites: BI103, BI104, BI105 and Junior standing.*

BI393 Cell Biology (3 cr) Studies the molecular basis of cell structure and function, including a discussion of the current techniques used in the field. *Prerequisite: BI103.*

BI394 Cell Biology and Immunology Lab (3 cr) Emphasizes the practical application of a variety of biotechnological techniques, such as western blot, cell culture, immunoelectrophoresis, and in situ hybridization. *Pre/Co-requisite: BI393 or BI395.*

BI395 Immunology (3 cr) Provides the Biology major with a working knowledge of the immune system, including production of immunoglobulins, B and T cell interactions, and macrophage functions. Uses current research literature extensively. *Prerequisite: BI103. Offered alternate years.*

BI431/BI431L Current Topics in Biology (6 cr) Studies current topics of interest to the faculty and students. *Prerequisite: Permission of instructor. Offered alternate years.*

BI451/BI451L Physiology and Lab (5 cr) Studies the universal principles involved in functional processes of cells and multi-cellular organisms. Basic phenomena such as cell organization, conversions of energy and matter in the cell, excitation, transport, membrane function, and contraction receive attention. Discusses major physiological systems of higher organisms. *Prerequisites: BI105 and CH102 or CH321, and BI270 recommended. Co-requisite: BI451L. Offered alternate years.*

BI480 Conservation Biology (3 cr) Emphasizes the application of ecological principles to the conservation of biodiversity. Examines the major threats to biodiversity, including human exploitation of species, habitat loss, invasive species, pollution, and global climate change, as well as the methods used to monitor and resolve these concerns. Employs case studies as a tool for discussing current issues in conservation biology.

BI480L Conservation Biology Lab (3 cr) Introduces students to the use of Geographic Information Systems (GIS) for resolving conservation problems, as well as the statistical models used for population analysis. Students take field trips to learn from those who are engaged in conservation biology at a practical level. Lab for BI480.

BI488 Internship: Biology (cr var) Internship opportunities in biology arranged by the Biology Department.

BI490 Senior Seminar in Biology (2 cr) Teaches critical analysis of primary journal articles and seminars. Requires an extensive research project and presentation before the Division of Natural Sciences and Mathematics. Other topics include career planning and social and ethical problems in modern biology. Required of all majors. *Prerequisites: BI390 and Senior standing.*

BI491/CH491 Biochemistry Lab (3 cr) Covers biochemical methods such as column chromatography, enzyme kinetics, peptide mapping, western blotting, and recombinant DNA technology. *Pre/Co-requisite: BI492 or BI493. Cross-listed with CH491.*

BI492/CH492 Biochemistry and Lab (3 cr) Introduces general principles of biochemistry with special emphasis on cellular anabolic and catabolic pathways. Particular attention is given to proteins, lipids, and carbohydrates and their role in living systems. *Prerequisite: BI103. Pre/Co-requisite: CH322. Cross-listed as CH492.*

BI493/CH493 Biochemistry II (3 cr) Studies nucleic acids and DNA in depth. Focuses on the structure and function of DNA at the biochemical and genetic level. Topics also include control of prokaryotic and eukaryotic gene expression. *Prerequisite: BI103. Pre/Co-requisite: CH322. Cross-listed as CH493.*

BI499 Independent Study/Research (cr var) Includes individual work under staff supervision for well-qualified upperclassmen. A written report with an oral summary and review before two or more faculty members is required. Total credit hours for two semesters should not exceed the maximum allowed for fulfilling degree requirements. *Prerequisite: An outline of the proposed work, consent of the staff member who is to supervise, and approval by the department chair.*

Business Department

Division of Social Sciences

Michael Holt (Chair), Assistant Professor

Jan Weisen, Assistant Professor

William Driscoll, Assistant Professor

Joseph Goulart, Lecturer

DEPARTMENT OBJECTIVES

1. To produce students who, through a balance of liberal arts and a professional business curriculum, are aware of and conversant with major contemporary issues and who are capable of moving throughout society with a sense of confidence and competence.
2. To develop competencies in the practice of Management, Marketing, Accounting, and Finance, to prepare students either for selected career opportunities or for graduate school.
3. To emphasize and promote Christian ethics as pertains to business and economic activities, with the goal of integrating faith and learning throughout the Business program of the college.
4. To provide experience in the effective integration and application of written and oral communication skills in the professional development of students; to develop skills in analysis and concept building; and to acquaint students with methods of study and research, along with an appreciation for the application of other academic disciplines to both the personal and professional experience, present and future.
5. To engender and nourish within students an awareness of their potential for contribution to society through the exercise of leadership.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Business; Business Management - Tracks in General Management, Global Management and Entrepreneurship; Accounting/Finance - Tracks in Accounting and Finance; Marketing - Tracks in General Marketing, Global Marketing and Marketing Communication.*

Bachelor of Arts: *Business (BA only recommended for double majors).*

Cross-department degrees may be earned in the following majors and degrees: *BS degrees in Business/Communication Arts (See Communication Arts Department); BS in Sports Management (See Movement Arts Department); BS in Business/Chemistry (See Chemistry Department); and BS in Music/Business (See Music Department).*

Double Major Note: *Double majors are not allowed within the Business Department due to the amount of course overlap.*

Minors: *Business - BA110 and additional 12 credits in Business courses (courses with a BA course number).*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education requirements - see p. 12
- Earn minimum of 123 graduation credits
- Pass department comprehensive exam
- Meet minimum cumulative GPA of 2.0

GENERAL EDUCATION REQUIREMENTS - 54 CREDITS REQUIRED

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 7 credits

Required Math: MA118 Introduction to Statistics, minimum grade C-, 3 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

BUSINESS (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill electives (Business or other), 39 credits
- **Business Core** — required for all B.S. degrees, minimum grade C-, 30 credits

BA110 Introduction to Business	3
BA212 Principles of Management	3
BA221 Principles of Accounting I	3
BA222 Principles of Accounting II	3
BA231 Principles of Economics I Micro	3
BA232 Principles Economics II Macro	3
BA252 Principles of Marketing	3
BA312 Financial Management	3
BA315 Management Informational System	3
BA411 Business Law	3
BA431 Strategic Management	3

BUSINESS MANAGEMENT - GENERAL TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see p. 78
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements - see Business (BS) degree, 30 credits
- Fulfill Electives (Business or other), 21 credits

Business Management Core, all required, minimum grade C-, 9 credits

BA311 Organizational Behavior	3
BA335 Operations Management	3
BA426 Human Resource Management	3

General Management Track Requirements (choose three) minimum grade C-, 9 credits

BA324 Entrepreneurship and Business Plan Development	3
BA357 Small Business Management	3
BA362 Global Management	3
BA450 Global Marketing	3
BA488 Internship: Business	3

BUSINESS MANAGEMENT - GLOBAL BUSINESS (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see p. 78
- Fulfill all General Education requirements - see p. 12
- Fulfill all Business Core requirements for BS degree - see above
- Fulfill all Business Management Core requirements - see above
- Fulfill Electives (Business or other), 21 credits

Global Business Track requirements (all required) minimum grade C-, 9 credits

BA362 Global Management	3
BA450 Global Marketing	3
BA488 Internship: Business	3

BUSINESS MANAGEMENT - ENTREPRENEURSHIP (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see p. 78
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements - see Business BS degree, 30 credits
- Fulfill all Business Management Core requirements - see above, 9 credits
- Fulfill Electives (Business or other), 21 credits

Entrepreneurship Track requirements (all required) minimum grade C-, 9 credits

BA324 Entrepreneurship and Business Plan Development	3
BA357 Small Business Management	3
BA488 Internship: Business	3

ACCOUNTING/FINANCE - ACCOUNTING TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements for BS degree - see above, 30 credits
- Fulfill Electives (Business or other), 18 credits

Accounting/Finance Core (all required) minimum grade C-, 9 credits

BA331 Intermediate Accounting I	3
BA332 Intermediate Accounting II	3
BA336 Advanced Managerial Finance	3

Accounting Track, all required, minimum grade C-, 12 credits

BA340 Managerial Accounting	3
BA360 Accounting Information Systems	3
BA445 Auditing	3
BA419 Federal Tax I OR	
BA470 Federal Tax II	3

ACCOUNTING/FINANCE - FINANCE TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements for BS degree - see above, 30 credits
- Fulfill all Accounting/Finance Core requirements - see above, 9 credits
- Fulfill Electives (Business or other), 21 credits

Finance Track Requirements (all required) minimum grade C-, 9 credits

BA341 Money and Banking	3
BA460 Investments	3
BA471 Financial Modeling	3

MARKETING - GENERAL MARKETING TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements - see above
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements for BS Degree - see p. 78, 30 credits
- Fulfill Electives (Business or other), 30 credits

Marketing Core requirements (all required) minimum grade C-, 9 credits

BA320 Consumer Behavior	3
BA330 Sales Management	3
BA358 Marketing Research	3

MARKETING - GLOBAL MARKETING TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements for BS degree - see p. 78, 30 credits
- Fulfill all Marketing Core Requirements - see p, 80, 9 credits
- Fulfill Electives (Business or other), 21 credits

Global Marketing Track Requirements (all required) minimum grade C-, 9 credits

BA362 Global Management	3
BA450 Global Marketing	3
BA488 Internship: Business	3

MARKETING - MARKETING COMMUNICATIONS TRACK (BS) REQUIREMENTS

- Fulfill all General Degree requirements
- Fulfill all General Education requirements - see p. 12, 54 credits
- Fulfill all Business Core requirements for BS degree - see p. 80, 30 credits
- Fulfill all Marketing Core requirements - see above, 9 credits
- Fulfill Electives (Business or other), 21 credits

Marketing Communications Track (all required) minimum grade C-, 9 credits

BA342 E-Business Marketing	3
BA361 Integrated Marketing Communications	3
BA488 Intern Business: Business	3

BUSINESS (BA) REQUIREMENTS (FOR DOUBLE MAJORS)

- Fulfill all General Degree requirements
- Fulfill all General Education requirements - see p. 12, 54 credits

Business Core requirements for BA students, minimum grade C-, 30 credits

BA110 Introduction to Business	3
BA212 Principles of Management	3
BA221 Principles of Accounting I	3

BA222 Principles of Accounting II	3
BA231 Principles Economics I - Microeconomics	3
BA232 Principles of Economics II - Macroeconomics	3
BA252 Principles of Marketing	3
BA312 Financial Management	3
BA411 Business Law	3
BA431 Strategic Management	3

BUSINESS COURSE DESCRIPTIONS

BA110 Introduction to Business (3 cr) Students receive an introductory overview of business activities, such as gaining an appreciation of business organizations, the economy, the capitalistic system, the social responsiveness of business, and decision-making. In addition, students will have the opportunity to evaluate many business careers. *Offered annually.*

BA186 Freshmen Business Co-Op (1-3 cr) An opportunity to explore careers in a variety of business settings, arranged by the Praxis Office with local businesses.

BA212 Principles of Management (3 cr) An introduction to the developments and operations of organization, fundamentals of management theory, models of human resource development, and development of management styles and techniques, planning, organizing, staffing, directing and controlling. *Prerequisite BA110 or permission of instructor. Offered annually.*

BA221 Principles of Accounting I (3 cr) Introduces the accounting cycle: analyzing and recording transactions, posting to ledgers, preparation of worksheets and financial statements. Also includes calculations for inventory valuation, depreciation of fixed assets, interest on notes, and payroll issues. Primary emphasis is on merchandising and service organizations. *Offered annually.*

BA222 Principles of Accounting II (3 cr) A continuation of BA221. Principles related to accounting for partnerships and corporations addressing relevant calculations and the recording of transactions related to long-term liabilities, stocks, bonds, and income taxation. Also includes topics related to accounting for manufacturing organizations. *Prerequisite: BA221. Offered annually.*

BA231 Principles of Economics I - Microeconomics (3 cr) Provides an introduction to the theoretical and analytical tools of economics, including but not limited to theory of demand, cost, price competition, market structures, and allocation of factors of production. *Offered annually.*

BA232 Principles of Economics II - Macroeconomics (3 cr) Provides background for understanding modern economic and business activity. The study of national income and its measurement, determination of price levels, output, employment, money and credit, expenditures, and economic stability, government fiscal and monetary policies are included. May be taken before BA231. *Offered annually.*

BA240 Accounting for Nonfinancial Managers (3 cr) This course gives students a broad view of accounting's role in satisfying society's needs for information and its function in business, government, and the nonprofit sector. Students gain an understanding of the multifaceted nature of the accounting profession including its history, ethics, public responsibilities, and international dimensions. Students learn from a user-oriented perspective about the accounting cycle, the nature of financial statements and the process for preparing them, and the use of accounting information as a basis for decision-making. *Offered varying years.*

BA252 Principles of Marketing (3 cr) Introduces the field and practices of marketing. Planning, pricing, promotion, and distribution strategies are viewed from economic and social foundations. *Prerequisite: Sophomore standing or permission of the instructor. Offered annually.*

BA288/388/488 Internship: Business (cr var) Varying levels of internship opportunities for sophomores, juniors and seniors. Course number is based on level of responsibility of the internship. May be repeated for credit.

BA311 Organizational Behavior (3 cr) Studies the behavior of individuals and groups in organizational settings. Emphasis is given to topics including personality and individual differences, perception and attribution, attitudes, motivation, job design, performance and rewards, teamwork and group processes, leadership, power and politics, and decision-making. *Prerequisite: BA212. Offered annually.*

BA312 Financial Management (3 cr) Introduces the financing of business enterprise. Financial planning and control, analysis of alternative sources and uses of capital debt and equity, and cost of capital will be explored. *Prerequisites: BA212, BA222. Offered annually.*

BA314 Business Ethics (3 cr) Provides an understanding of ethical problems in business. Examines the conceptual and practical implications of ethics for business conduct. *Offered varying years.*

BA315 Management Information Systems (3 cr) Provides an overview of information systems - planning, organizing, leading, and applying information technology advancements. This course has a managerial perspective that describes how IS supports business goals and functions, defines what information resources are available to the manager, and demonstrates how the manager is involved in the information development process. *Offered annually.*

BA320 Consumer Behavior (3 cr) Enables the student to develop an awareness of various aspects of consumer motivation and behavior and provides an understanding of the influences of business and environment and ways that each affect consumer purchase decisions. *Prerequisite: BA252. Offered varying years.*

BA324 Entrepreneurship and Business Plan Development (3 cr) Focuses on the development of a business plan that identifies a market need, evaluates the financial viability of the venture, and organizes the resources to launch the business. Specific emphasis will be given to sources of funding for entrepreneurial ventures and the appropriate legal forms of a business to accompany chosen financing strategies. *Prerequisite: BA357. Offered alternate years.*

BA330 Sales Management (3 cr) Deals with the totality of the sales process. This includes prospecting, relationship building, treating clients in an ethical and respectful manner, closing the sale, and servicing after the sale. The important area of management of a sales force is also presented. *Prerequisite: BA252. Offered alternate years.*

BA331 Intermediate Accounting I (3 cr) Involves the intensive study of financial accounting standards, both in theory and practice, as they relate to the preparation and analysis of financial statements. Accounting problems and their impact on the financial statements are addressed in regard to current assets, fixed assets, intangible assets, liabilities, and other selected topics. *Prerequisite: BA222. Offered annually.*

BA332 Intermediate Accounting II (3 cr) A continuation of Intermediate Accounting I. Accounting problems and their impact on the financial statements are addressed in regard to liabilities, investments, stockholders' equity, leases, pensions, tax allocation and other selected topics. *Prerequisite: BA331. Offered annually.*

BA335 Operations Management (3 cr) Studies issues and activities that relate to the creation of goods and services through the transformation of inputs to outputs. Topics

studied include design of goods and services, process strategy, location strategies, layout strategies, project management, managing quality, supply-chain management, inventory management, and production planning. *Prerequisite: MA118. Offered alternate years.*

BA336 Advanced Managerial Finance (3 cr) Studies specific financial cases and the need for ethics in finance within a system of well-established laws and industry regulation. Areas covered include cost of capital, capital structure, capital budgeting, dividend policy, financial analysis and forecasting, sales and lending practices, socially responsible investing, insider trading, hostile takeovers, and the ethics of bankruptcy. *Prerequisites: BA222, BA312. Offered alternate years.*

BA340 Managerial Accounting (3 cr) Focuses on the information needs of management. The identification, measurement, accumulation, analysis, preparation, interpretation, and communication of information assist all levels of management in fulfilling organization goals. The process of gathering and analyzing this information and presenting it in a format useful to internal management is emphasized in this course. *Prerequisite: BA222. Offered annually.*

BA341 Money and Banking (3 cr) Examines the monetary and banking system of the United States with emphasis on the Federal Reserve System and monetary policy. *Prerequisites: BA231, BA232. Offered annually.*

BA342 E-Business Marketing (3 cr) Teaches students how to integrate the Internet into marketing and business communication functions. The objective is to increase students' understanding of the complexity of marketing goods and services on the Internet. *Offered alternate years.*

BA353 Electronic Commerce (3 cr) Introduces students to the concepts of electronic commerce, the Internet and the World Wide Web. Particular emphasis will be placed on value chains, web-based tools for e-commerce and security threats. *Offered alternate years.*

BA357 Small Business Management (3 cr) Covers principles and techniques of creating and maintaining a small business enterprise and the role of the entrepreneur. Reviews accounting, personnel, marketing, management, business controls, franchising, and regulations governing small business. *Prerequisite: Junior standing or permission of instructor. Offered alternate years.*

BA358 Marketing Research (3 cr) Focuses on research methodology and application of research to solving marketing problems. *Prerequisites: BA252, MA118. Offered alternate years.*

BA360 Accounting Information Systems (3 cr) Develops a framework for the analysis and design of accounting information systems. Based on this framework, the objective is then to show the student how to use accounting information systems that satisfy the transaction processing reporting, decision making, and internal control requirements. *Prerequisites: BA221, BA222. Offered alternate years.*

BA361 Integrated Marketing Communications (3 cr) Analyzes the numerous methods used to communicate with customers. Organizations in private and public sectors understand that the ability to communicate effectively and efficiently with their targeted audiences is critical to the long-term success of the organization. Topics such as public relations, selling, advertising, and promotion will be explored. Students will complete the design and implementation of an integrated communication plan. *Prerequisite: BA252. Offered alternate years.*

BA362 Global Management (3 cr) Focuses on the impact of global operations on the structure and organization. Major discussion topics are the challenges that managers face in establishing global operations, respecting and incorporating a variety of global cultures into the corporate culture, and responding in a competitively effective way in

what is an increasingly competitive global arena. *Prerequisite: BA212 or consent of the instructor. Offered alternate years.*

BA365 Business Marketing (3 cr) Teaches students how to integrate the Internet into marketing and business communication functions. The objective is to increase students' understanding of the complexity of marketing goods and services on the Internet. *Prerequisite: BA252. Offered varying years.*

BA411 Business Law (3 cr) Covers law of business regulation, contracts, and legal controls imposed in the business-society relationship. Includes study of basic contract law, Uniform Commercial Code, and appropriate legal concepts as related to business activities. *Prerequisite: Senior standing or permission of instructor. Offered annually.*

BA419 Federal Tax I (3 cr) Addresses tax administration; income, deductions, and tax credits; treatment of gains and losses; income taxation of individuals, estate and gift taxation, and trusts. The primary focus of this course is on the fundamental issues related to the income taxation of individuals. *Offered alternate years.*

BA426 Human Resource Management (3 cr) Studies the applied approach to human resource management and administration. The study will stress policy, current practices, future trends, and legal requirements. Specific activities covered will include recruiting, selection, training, developing, compensating, evaluating, and disciplining. Also emphasized will be changing demographics in the workforce, multiculturalism, ethics in human resources management, and other current issues. *Prerequisite: BA311 or permission of the instructor. Offered annually.*

BA431 Strategic Management (3 cr) Integrates previous courses through the study of problems in policy formulation and implementation. The case study approach is utilized, as are discussions regarding current topics with emphasis on strategic planning. *Prerequisites: BA231, BA232, BA252, BA311, and BA312. Offered annually.*

BA441 Business Field Work Placement I (variable cr) Supervised experience and training in a selected business firm. These experiences will demonstrate the practical and professional application to real-world situations of the principles learned in the classroom. *Prerequisites: Senior standing, Business core preceding senior year complete, permission of department chair. Offered as requested.*

BA445 Auditing (3 cr) Discusses the standards and procedures of auditing accounting information and statements, internal control, verification of balance sheets and operating accounts as well as the professional and ethical responsibilities of the auditor. *Prerequisite: BA222. Offered alternate years.*

BA450 Global Marketing (3 cr) The importance of thinking globally and understanding the cultural, political, and economic differences that affect consumer behavior and the marketing and distribution of products and services are explored through readings, case studies, and projects. *Prerequisite: BA252 or consent of the instructor. Offered alternate years.*

BA460 Investments (3 cr) Examines the organization and function of securities markets, valuation of securities, relationship of risk to required rates of return, and portfolio construction. This is achieved by focusing on concepts and strategies applicable to individual investors and by using the tools employed by professional portfolio managers. *Prerequisite: BA312. Offered alternate years.*

BA470 Federal Tax II (3 cr) Examines internal revenue code and treasury regulations with respect to taxation of organizations. Also includes coverage of tax research, planning, and compliance. *Prerequisite: BA222. Offered alternate years.*

BA471 Financial Modeling (3 cr) Examines the different financial analysis tools used by CEOs and CFOs as they make strategic financial decisions for organizations. Computerized software packages will be used to perform the analysis. *Prerequisite: BA312. Offered alternate years.*

BA478 Seminar in Leadership (3 cr) A laboratory experience providing opportunity for self-development and synthesis of the major themes explored during prior courses, including social responsibility, ethics, integration of faith with practice, personal development, group process, organization and leadership. *Offered varying years.*
Prerequisite: Senior standing or permission of instructor.

BA493/PS493 Seminar in Personal Financial Management (3 cr) Introduces managing personal finances. Topics include investing and retirement planning, career planning, money management and budgeting, taxes, consumer credit, and purchasing strategies (home, auto, insurance). *Cross-listed as PS493. Offered annually.*

BA499 Business Seminars (3 cr) Covers a variety of business topics in a seminar format including such topics as economics for social workers and international business.

Career Planning

Bradford Thorne, Assistant Professor

William Boozang, Instructor

CC101 Freshman Seminar (3 cr) An introduction to the Eastern Nazarene College experience through a discussion of the following: the nature and purpose of the liberal arts education, Christian worldview, personal development, values, and academic and social adjustment. This course may be taken for graduation credit.

CC210 Career Planning and Decision Making (3 cr) Designed to assist the student undecided on a major field of study or preliminary career area. Emphasis is on the development of a rational style of decision-making and application to career and educational issues. Topics include: interest testing, self-assessment, goal development, educational and job market information, resume development, interview skills, and job search strategies.

CC402 Issues in Career and Personal Development (3 cr) A seminar course designed to address issues related to the transition from the undergraduate experience to the world of work and graduate studies. Topics include: resume development and job search skills, interviewing techniques, career and job market trends, graduate school preparation, goal development, relationships, finances, and lifestyle issues related to the integration of faith and career development.

Chemistry Department

Division of Natural Sciences

Dr. Lowell Hall, Professor

Dr. Timothy Wooster, Associate Professor

Dr. Joseph Williams, Assistant Professor

Sberyl Burt, Instructor

DEPARTMENT OBJECTIVES

1. To provide an appreciation for and acquaintance with the chemist's description of matter.
2. To provide understanding of the development of chemistry as a branch of science.
3. To illustrate the structure and operation of scientific thought, the relationship between observation and theory, and the development of models and their role in interpreting natural phenomena.
4. To provide the requisite technical materials for students requiring chemistry for their pre-professional preparation and to demonstrate for these students the relationship of chemistry to their chosen fields of study.

5. To provide training and experience in the experimental techniques, theoretical outlooks, and literature of the fields of analytical, inorganic, organic, and physical chemistry in order to prepare the student for graduate study or for professional employment as a chemist.
6. To encourage development as professional chemists by journal reading, seminars, discussions of professional ethics and ACS Student Affiliate membership.
7. To assist in the understanding of what the study of chemistry reveals about God's creation.

DEGREE MAJORS AND TRACKS OFFERED

Bachelor of Science: *Chemistry, Biochemistry (see Biology Department), Forensic Science (See Forensic Science)*

Bachelor of Arts: *Chemistry and Business/Chemistry*

Minor: *Chemistry*

Preparatory/Pre-Graduate Studies: *Students may also major in Biology and prepare themselves for future study by choosing elective courses that will prepare them for future study. The recommended sequences of courses include Pre-Medical, Pre-Nursing, Pre-Physical Therapy, Pre-Occupational Therapy and Pre-Pharmacy, Pre-Pharmacy/Dual Degree Program. Each of these programs may be pursued in combination with a variety of majors - typically as part of a Biology, Chemistry, and Health Science (BS) degree. The requirements for these areas of preparation are listed under Preparatory Programs/Pre-Graduate Studies.*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

GENERAL EDUCATION REQUIREMENTS

See Page 13 for course options.

- Communication Skills, 9 credits
- Physical Education Skills, 2 credits
- Biblical Literature and Christian Tradition, 6 credits
- Social Science (BS 3 credits, BA 6 credits)
- Intercultural Literacy Requirement (BS 3 credits, BA 6 credits) **OR** Language Requirement (Check student's Academic Information Report for high school language.)
- General Education Cultural Perspectives Requirements, 18 credits

CHEMISTRY (BS) CORE REQUIREMENTS - MINIMUM GRADE C-

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4
CH231/CH231L Quantitative Analysis w/Lab	5
CH321/CH321L Organic Chemistry I w/Lab	6
CH322/CH322L Organic Chemistry II w/Lab	5

CH350 Advanced Chemistry I Lab	3
CH351 Advanced Chemistry II Lab	3
CH401 Physical Chemistry I	4
CH431 Instrumental Analysis	3
CH490 Seminar in Chemistry	2

Chemistry Elective List for All Degrees

CH402 Physical Chemistry	3
CH431 Instrumental Analysis	3
CH452 Advanced Inorganic Chemistry	3
CH499 Research in Chemistry	varies
CH/BI491 Biochemistry I Lab	3
CH/BI492L Biochemistry II Lab	3
CH/BI492 Biochemistry I	3
CH/BI493 Biochemistry II	3
BI212 Genetics	3
BI393 Cell Biology	3
BI395 Immunology	3
BI310/BI310L Bioinformatics w/Lab	4
PY301/PY301L Modern Physics I w/Lab	4
PY312 Applied Mechanics I w/Lab	4
PY322 Electricity and Magnetism w/Lab	4
MA152 Calculus II	4
MA201 Linear Algebra	3
MA211 Calculus III	3

CHEMISTRY (BS) REQUIREMENTS

The Bachelor of Science is the recommended program for those students planning on professional careers in chemistry, and includes preparation for graduate programs in chemistry. Those students planning a career in medical technology may substitute for their senior year's work one year at an accredited school of medical technology, finally receiving the Bachelor of Science degree from ENC. Below are the requirements for the BS in Chemistry degree.

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see p. 12
- Fulfill Chemistry Core Requirements - see above

Biology Requirement, minimum grade C-, 4 credits

BI103/BI103L Introduction to Cell Biology and Genetics and Lab	4
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Chemistry Elective

Refer to Chemistry elective list above, minimum grade C-, 16 credits

Cognate Requirements, all required, 18 credits

MA151 Calculus I (fulfills General Education Math Requirement)	4
MA152 Calculus II	4
PY201/PY201L General Physics I w/Lab	5
(fulfills General Education Lab Science requirement)	
PY202/PY202L General Physics II w/Lab	5

CHEMISTRY (BA) REQUIREMENTS

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see above
- Fulfill Elective Credits (Chemistry or other), 18 credits

Chemistry (BA) Core Requirements (all required) minimum grade C-, 40 credits

CH103/CH103L General Chemistry I and Lab	4
CH104/CH104L General Chemistry II and Lab	4
CH231/CH231L Quantitative Analysis and Lab	5
CH321/CH321L Organic Chemistry I and Lab	6
CH322/CH322L Organic Chemistry II and Lab	5
CH350 Advanced Chemistry I Lab	3
CH401/CH401L Physical Chemistry I and Lab	4
Ch431 Instrumental Analysis	3
CH490 Seminar in Chemistry	2

Chemistry Elective (choose one) minimum grade C-, 3 credits

See Chemistry elective list above.

Biology Elective (choose one), 3 credits

See Biology course descriptions in the Biology section.

Cognate Requirements (all required) 18 credits

MA151 Calculus I	4
MA152 Calculus II	4
PY201/PY201L General Physics I and Lab	5
PY202/PY202L General Physics II and Lab	5

CHEMISTRY - CHEMISTRY/BUSINESS (BA) REQUIREMENTS

The Bachelor of Arts in Chemistry-Business is appropriate for students interested in careers in pharmaceutical sales, chemical-industrial management, or chemical/pharmaceutical advertising.

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see p. 12
- Fulfill Electives (Chemistry or other), 17 credits

Chemistry Core Requirements (all required) minimum grade C-, 27 credits

CH103/CH103L General Chemistry I and Lab	4
CH104/CH104L General Chemistry II and Lab	4
CH231/CH231L Quantitative Analysis and Lab	5
CH321/CH321L Organic Chemistry I and Lab	6
CH322/CH322L Organic Chemistry II and Lab	5
CH431 Instrumental Analysis	3

Business Requirement (all required) minimum grade C-, 18 credits

BA110 Introduction to Business	3
BA212 Principles of Management	3
BA232 Principles of Economics II Macro	3
BA240 Accounting for Nonfinancial Managers	3
BA252 Principles of Marketing	3
BA311 Organizational Behavior	3

Business Elective (choose one) minimum grade C-, 3 credits

BA312 Financial Management	3
BA353 Electronic Commerce	3
BA411 Business Law	3
BA426 Human Resource Management	3

Cognate Requirement, 5 credits

PY202/PY202L General Physics II and Lab	5
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CHEMISTRY MINOR, 19 CREDITS

Requirements for the Chemistry minor, 19 credits

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4
CH231/CH231L Analytical Chemistry w/Lab	5
CH321/CH321L Organic Chemistry I w/Lab	6

CHEMISTRY COURSE DESCRIPTIONS

CH101 Introduction to Chemistry (3 cr) The first of a two-semester sequence designed for students who do not plan to take courses in chemistry beyond CH102 (i.e., those interested in nursing, teaching below the secondary level, and fulfilling a liberal arts requirement in the laboratory sciences). The first semester focuses on the basic principles of chemistry, which are most appropriate for study of organic and biological chemistry including atomic theory, chemical bonding, molecular structure, solutions, acid-base systems, oxidation-reduction and nuclear chemistry. Many examples from medical technology are included. *Prerequisite: High school algebra or MA099. Co-requisite: CH101L.*

CH101L Introduction to Chemistry Lab (1 cr) Laboratory: Weekly sessions illustrating principles from lectures and development of basic laboratory skills. Lab for CH101.

CH102 Chemistry of Life (3 cr) Furthers development of chemical principles with emphasis on organic and biological systems. For example, this course covers a study of the structure and chemistry of the principle classes of organic compounds as well as carbohydrates, lipids, proteins, and nucleic acids and the study of enzymes and the metabolism of carbohydrates, lipids, and nitrogen compounds. *Co-requisite: CH102L.*

CH102L Chemistry of Life Lab (1 cr) Laboratory: Investigation of organic, chemical, and biological systems with further development of laboratory skills. Lab for CH102.

CH103 General Chemistry I and Lab (3 cr) The first of a two-semester sequence that covers the principles of chemistry for those who intend to take further work in chemistry and related fields such as medicine, biology, pharmacy, physics, engineering and teaching. Topics include atomic structure, chemical composition, stoichiometry, thermochemistry, molecular structure, solids, liquids and gases, solution properties and reaction classes. *Prerequisites: Math SAT \geq 500 (Math ACT \geq 19) AND High school algebra II \geq C- AND High school chemistry \geq C- OR MA111 College Algebra \geq C- AND CH101 Introduction to Chemistry \geq C- OR Permission of Chemistry Department chair. Co-requisite: CH103L.*

CH103L General Chemistry I Lab (1 cr) Laboratory experiences that illustrate principles of thermo chemistry, gas laws, molecular structure, elementary organic synthesis and qualitative analysis. Emphasizes laboratory techniques and safety considerations. Lab for CH103.

CH104 General Chemistry II (3 cr) Studies the equilibrium theory, including acid/base chemistry, rates of chemical reaction, chemical thermodynamics, oxidation-reduction, nuclear chemistry, and organic biochemistry. *Prerequisite: CH103. Co-requisite: CH104L.*

CH104L General Chemistry II Lab (1 cr) Laboratory: An integrated approach to the investigation of acid-base chemistry using titration, pH meter techniques and spectrophotometry; the second half of the semester is devoted to an independent project for each student, including both oral and written presentation of results. Lab for CH104.

CH110 Introduction to Nutrition (Non-Majors) (3 cr) Introduces the science of nutrition designed for the non-science major. Topics considered in class and lab are making healthy food choices, using nutrition standards and guidelines, the chemical composition of food, how food is digested and absorbed, vitamins and minerals, weight control, eating disorders, fitness, world hunger, food safety, and nutrition throughout the life cycle. Objectives include: 1) introduction to the chemical basis of nutrition and how food is digested, absorbed, metabolized, and excreted; 2) application of theoretical knowledge to changing life circumstances due to aging, disease, or the social environment; and 3) broad overview of current issues in nutrition to help students develop an awareness of nutrition issues and problems. *Co-requisite: CH110L.*

CH110L Introduction to Nutrition Lab (Non-Majors) (1 cr) Lab for CH110.

CH231 Analytical Chemistry (3 cr) Studies the theoretical foundation and skills necessary for the solution of problems encountered in the area of quantitative chemical analysis, including classical and modern methods. Emphasizes experimental design, statistics, the evaluation and presentation of data, sampling, equilibrium dynamics of analytically important reactions, volumetric techniques, absorption and emission spectroscopy methods, electrochemical methods, and analytical and biological separations. *Prerequisite: CH104. Co-requisite: CH231L. Cross-listed as BI231.*

CH231L Analytical Chemistry Lab (2 cr) The laboratory includes investigation of methods and techniques in volumetric analysis, Chromatography, UV-Vis and AA spectrophotometer, Voltammetry, and sampling techniques. Includes representative chemical samples from environmental air, soil, and water systems as well as biological samples. Introduces computer methods of data analysis and plotting. Emphasizes the development of analytical skills, proper laboratory record keeping, and professional outlook on laboratory work. Lab for CH231.

CH241 Nutrition (For Majors) (3 cr) Introduces the chemical basis of nutrition and how food is digested, absorbed, utilized, and excreted. Includes a brief overview of differing nutritional states according to age categories and disease states and prepares the student to recognize nutritionally related disorders in the clinical setting. *Prerequisites: CH101 or CH102, BI103. Cross-listed as BI241.*

CH321 Organic Chemistry I (4 cr) The first of a two-semester sequence which is a detailed study of the properties, reactions, bonding, structural theory, stereochemistry and reaction of mechanisms of organic compounds. *Prerequisite: CH104. Co-requisite: CH321L.*

CH321L Organic Chemistry I Lab (2 cr) Representative general techniques in organic chemistry synthesis, involves typical function groups and transformations. Micro scale techniques are used along with gas phase chromatography and infrared red spectroscopy. Lab for CH321.

CH322 Organic Chemistry II (3 cr) Continues to study the functional groups with extension to more complex groups, including several classes of poly-functional compounds and natural products. *Prerequisite: CH321. Co-requisite: CH322L.*

CH322L Organic Chemistry II Lab (2 cr) Development of organic synthetic techniques for more complex synthetic problems; development of methods of qualitative analysis using spectroscopic techniques, including nuclear magnetic resonance, infrared, and UV-visible as well as polarimetry and gas chromatography. Lab for CH322.

CH350 Advanced Chemistry Lab I (3 cr) The first of a project oriented, two-semester laboratory program that integrates various methods and techniques. Includes basic electronics, electrochemistry, various forms of spectroscopy and chromatography, advanced synthetic techniques, and other topics. *Prerequisite: CH322. Cross-listed as BI350.*

CH351 Advanced Chemistry Lab II (3 cr) The second of a project oriented, two-semester laboratory program that integrates various methods and techniques. This term includes writing a research proposal based on a comprehensive literature search and experimental design for the senior project, which is completed in the senior research course. *Prerequisite: CH322. Cross-listed as BI351.*

CH390 Junior Seminar (2 cr) Seminar in Chemistry. *Prerequisite: Junior standing.*

CH401 Physical Chemistry I (4 cr) The first of a two-semester sequence that covers an in-depth treatment of chemical thermodynamics including the development of the thermodynamic laws, application to chemical equilibrium, phase equilibria, and electrochemical phenomena. Introduces statistical thermodynamics. Emphasizes strategies for problem solving. Includes an extensive use of campus computing facilities, such as mainframe and microcomputers for data analysis and graphics. *Prerequisites: CH231, PY202, and MA152.*

CH401L Physical Chemistry I Lab (2 cr) Lab for CH401.

CH402 Physical Chemistry II (3 cr) Examines quantum mechanical principles as they relate to and support concepts of molecular structure and reactivity, including atomic and molecular structure and spectroscopy. Students use computer programs to compute quantum chemical aspects of molecule. Covers development of chemical kinetics and reaction mechanisms. *Prerequisites: CH231, PH202, and MA211.*

CH402L Physical Chemistry II Lab (2 cr) Lab for CH402.

CH431 Instrumental Analysis (3 cr) Studies modern instrumentation used in the investigation of chemical and biological systems. Discusses the theory, design, and application of various instrumental methods of analysis, including electro analytical, spectrophotometer, chromatographic, thermal, and surface analytical technique. Covers basic electronics and the relationship between signal and noise. *Prerequisite: CH231.*

CH431L Instrumental Analysis Lab (3 cr) Lab for CH431.

CH452 Advanced Inorganic Chemistry Selected topics in inorganic chemistry with special emphasis on chemical structure and bonding and use of thermodynamic relationships. Investigates classes of inorganic compounds, including molecular, ionic, coordination and organometallic compounds. *Prerequisite: CH401. Offered in alternate years.*

CH452L Advanced Inorganic Chemistry Lab (3 cr) Lab for CH452.

CH490 Seminar in Chemistry (2 cr) Teaches critical analysis of primary journal articles and seminars. Topics include career planning and social and ethical problems in chemistry.

CH491/BI491 Biochemistry Lab (3 cr) A project based laboratory course covering biochemical methods such as column chromatography, enzyme kinetics, peptide mapping, western blotting, and recombinant DNA technology. *Pre/Co-requisite: CH492 or CH493. Cross-listed as BI491.*

CH492/BI491 Biochemistry I (3 cr) Introduces general principles of biochemistry with special emphasis on chemical structure and bonding and the use of thermodynamic relationships. Investigates classes of inorganic compounds, including molecular, ionic, coordination, and organometallic compounds. *Pre/Co-requisite: CH322. Cross-listed as: BI492. Offered in alternate years.*

CH492L/BI492 Biochemistry Lab (2 cr) Lab for CH492.

CH493/BI493 Biochemistry II (3 cr) Studies nucleic acids and DNA in depth and focuses on the structure and function of DNA at the biochemical and genetic level. Topics also include control of prokaryotic and eukaryotic gene expression. *Prerequisite: BI103. Pre/Co-requisite: CH322. Cross-listed as BI493.*

CH499 Research in Chemistry (3 cr) Directed investigation of an individual research problem. The student, in consultation with a faculty member, must develop a complete outline of the project including background literature, necessary supplies and equipment, and a sequence of the actual work. The project includes both a written and an oral report. Research at other locations under appropriate supervision may be arranged.

Communication Arts Department

Division of Arts and Letters

Soterios C. Zoulas (Chair), Associate Professor

Michael W. Ballard, Associate Professor

Eunice Ferreira, Assistant Professor

John G. Tierney, Instructor

DEPARTMENT OBJECTIVES

1. To enable students to think, write, speak and listen critically, clearly and effectively for professional and interpersonal purposes.
2. To afford a wide variety of artistic and intellectual performance opportunities aimed at nurturing creative expression, artistic poise and aesthetic appreciation.
3. To develop students' ability to analyze and effectively use the communication process at all levels.
4. To acquaint students with the vast scope and influence of all communication media in society.
5. To provide practical experience in the effective application of communication skills in the production and use of various media.
6. To equip students for graduate study and/or occupations in theatre, public relations, advertising, journalism, broadcasting, teaching and business.
7. To increase students' awareness, understanding and appreciation of aesthetic values and foster a cultural atmosphere on campus.

DEGREES, MAJORS, AND TRACKS OFFERED

Bachelor of Arts: *Communication Arts - Journalism; Communication Arts - Public Relations and Advertising; Communication Arts - Radio and Television; Communication Arts - Theatre Arts*

Interdisciplinary Majors: *Bachelor of Science in Business Communications*

Minors: *Visual Arts, Journalism, Public Relations and Advertising, Radio and Television, Theatre Arts, General Communication Arts*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn a minimum 123 Graduation Credits
- Pass Senior Project/Oral Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

- Communication Skills, 9 credits
- Physical Education Skills, 2 credits
- Biblical Literature and Christian Tradition, 6 credits
- Lab Science and Math or Science, 7 credits
- Social Science, 6 credits
- Intercultural Requirement, 6 credits **OR**
- Language Requirement (Check student's Academic Information Report for high school language.)
- Cultural Perspectives Requirements, 18 credits

Communication Arts Core (all required) minimum grade C-, 9 credits

- CO201 Theater and Culture 3
- CO205 Media, Religion and Popular Culture 3
- CO313 Theories and Processes of Mass Communication 3

COMMUNICATION ARTS - JOURNALISM TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Communication Arts Core Requirements - see above, 9 credits

Journalism Core (all required) minimum grade C-, 24 credits

- CO211 Introduction to Mass Communications 3
- CO215 Writing for the News Media 3
- CO305 Communication Law and Ethics 3
- CO315 Feature Writing and Beat Reporting 3
- CO320 Digital Design **OR**
- CO340 Graphic Design 3
- CO370 Advanced Public Speaking **OR**
- CO410 Persuasion and Argumentation 3
- EN211 Linguistics 3
- CO488 Internship 3

COMMUNICATION ARTS - PUBLIC RELATIONS AND ADVERTISING TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Communication Arts Core Requirements - see above, 9 credits

Public Relations Track Requirements (all required) minimum grade C-, 27 credits

- CO211 Introduction to Mass Communications 3
- CO215 Writing for the News Media 3
- CO305 Communication Law 3
- CO325 Promotional Writing 3
- CO330 Public Relations 3

CO331 Advertising	3
CO320 Graphic Design OR	
CO340 Digital Design	3
CO370 Advanced Public Speaking OR	
CO410 Persuasion and Argumentation	3
CO488 Internship	3

COMMUNICATION ARTS - RADIO AND TELEVISION TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12 , 54 credits
- Fulfill all Communication Arts Core Requirements - see p. 93, 9 credits

Radio and Television Requirements (all required) minimum grade C-, 26 credits

CO211 Introduction to Mass Communications	3
CO260 TV Production	4
CO305 Communication Law	3
CO311 Advanced Writing for Electronic Media	3
CO322 History of Broadcasting	3
CO323 Contemporary Issues in Broadcasting and Cable	3
CO352 Advanced TV Production	4
CO488 Internship	3

COMMUNICATION ARTS - THEATRE ARTS TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Communication Arts Core Requirements - see p. 93, 9 credits

Theatre Core Requirements (all required) minimum grade C-, 12 credits

CO251 Acting I	3
CO252 Acting II	3
CO336 World Drama I	3
CO337 World Drama II	3
CO430 Directing I	3

Theatre Arts: Voice Elective Requirement (choose one) minimum grade C-, 3 credits

CO212 Voice and Articulation	3
CO312 Oral Interpretation	3
CO370 Advanced Public Speaking	3

Theatre Arts Tech Design Elective (choose one) minimum grade C-, 3 credits

CO271 Technical Theatre Practices	3
CO272 Technical Theatre Design	3

Theatre Elective (choose one) minimum grade C-, 3 credits

CO199A Creative Drama	3
CO199B Theatre: Behind the Scenes	3
CO253 Acting for the Camera	3
CO362 Writing for Stage and Screen	3

CO399 Travel Seminar	3
CO411 History of American Musical Theatre	3
CO431 Directing II	3
CO494 Theatre in Education	3
CO495 Seminar in Communication Arts	3

COMMUNICATION ARTS - BUSINESS (BS) REQUIREMENTS

- Fulfill all General Degree Requirements - see p, 94
- Fulfill all General Education Requirements - see p. 12, 54 credits
Social Science: Must take CO220 Interpersonal Communication
- Fulfill Electives (Communication Arts or other), 28 credits

Business/Communication Arts Core - 9 credits

CO211 Introduction to Mass Communications	3
CO330 Public Relations	3
CO331 Advertising	3

Communication Arts (choose one) minimum grade C-, 3 credits

CO305 Communication Law and Ethics	3
CO313 Theory and Processes of Mass Communication	3

Communication Arts Elective (choose one) minimum grade C-, 3 credits

CO251 Acting I	3
CO260 TV Production	4
CO280 Introduction to Photography	3
CO320 Digital Design	3
CO340 Graphic Design	3

Writing Elective (choose one) minimum grade C-, 3 credits

CO215 Writing for the News Media	3
CO311 Advanced Writing for Electronic Media	3
CO325 Promotional Writing	3

Public Speaking Elective (choose one) minimum grade C-, 3 credits

CO212 Voice and Articulation	3
CO370 Advanced Public Speaking	3
CO410 Persuasion/Argument	3

Business Requirements (all required) minimum grade C-, 15 credits

BA110 Introduction to Business	3
BA252 Principles of Marketing	3
BA320 Consumer Behavior	3
BA358 Marketing Research	3
BA361 Integrated Marketing Communication	3

Business Elective (choose one) minimum grade C-, 3 credits

BA212 Principles of Management	3
BA311 Organizational Behavior	3
BA450 Global Marketing	3

Internship (choose one) minimum grade C-, 3 credits

BA488 Intern Business	3
CO488 Internship/Praxis	3

COMMUNICATION ARTS MINOR

15 credits in courses with CO prefix

VISUAL ARTS MINOR REQUIREMENTS

Visual Arts Minor Core (all required) minimum grade C-, 6 credits:

AR200 Introduction to Drawing	3
AR203 Introduction to Art History	3

Art Elective (choose 1) minimum grade C-, 3 credits

AR201 Introduction to Painting	3
AR202 Introduction to Sculpture	3

Design Elective (choose 1) minimum grade C-, 3 credits

AR320 Digital Design	3
CO340 Graphic Design	3

Photography Elective (choose 1) minimum grade C-, 3 credits

CO280 Introduction to Photography	3
AR281 Digital Photography	3

JOURNALISM MINOR REQUIREMENTS

Journalism Minor Core (all required) minimum grade C-, 14 credits:

CO215 Writing for News Media	3
CO305 Communication Law	3
CO315 Feature Writing and Beat Reporting	3
CO497 Communication Arts Workshops (must take 2)	varies
EN211 Introduction to Applied Linguistics	3

Design Elective (choose 1) minimum grade C-, 3 credits

CO320 Digital Design	
CO340 Graphic Design	

PUBLIC RELATIONS AND ADVERTISING MINOR REQUIREMENTS

Public Relations and Advertising Minor Core (all required) minimum grade C-, 12 credits:

CO211 Introduction to Mass Communication	3
CO325 Promotional Writing	3
CO330 Public Relations	3
CO331 Advertising	3

Public Relations/Advertising Elective (choose 1) minimum grade C-, 3 credits

CO305 Communications Law	3
CO313 Theory and Process of Mass Communicatin	3

RADIO AND TELEVISION MINOR REQUIREMENTS

Television and Radio Minor Core (all required) minimum grade C-, 12 credits:

CO322 History of Broadcasting	3
CO323 Contemporary Issues in Broadcasting/Cable	3

Broadcasting Elective (choose 1) minimum grade C-, 3 credits

CO305 Communications Law	3
CO313 Theory and Process of Mass Communicatin	3

Television/Radio Elective (choose 1) minimum grade C-, 3 credits

CO212 Voice and Articulation	3
CO215 Writing for News Media	3

THEATRE ARTS MINOR REQUIREMENTS

Theatre Requirement for Non-Communication Arts Majors (all required) minimum grade C-, 12 credits:

Theatre Arts Minor Core, 6 credits

CO336 World Drama I	3
CO337 World Drama II	3

Technical Theatre Course (choose 1) minimum grade C-, 3 credits

CO271 Technical Theatre Practices	3
CO272 Technical Theatre Design	3
CO295 Lighting Design	3

Theatre Arts Elective (choose 1) minimum grade C-, 3 credits

CO251 Acting I OR	3
CO430 Directing I	3

Theatre Requirement for Non-Communication Arts Majors, minimum grade C-, 3 credits

CO201 Theatre and Culture	3
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Theatre Elective for Communication Arts Majors (choose 1) minimum grade C-, 3 credits

CO199/CO299 Contemporary Practice in Comm. Arts	3
CO252 Acting II	3
CO253 Acting for the Camera	3
CO362 Writing for Stage and Screen	3
CO399 Travel Seminar	3
CO411 History of American Musical Theatre	3
CO431 Directing II	3
CO490 Theatre Practicum	3
CO494 Theatre in Education	3
CO495 Seminar in Comm. Arts	3

COMMUNICATION ARTS COURSE DESCRIPTIONS

AR200 Introduction to Drawing (3 cr) See website for course description. *Offered annually.*

AR201 Introduction to Painting (3 cr) Introduces basic oil painting concepts of color, value, intensity, color theory, mixing, and the preparation of the canvas. Explores still life and reproduction of a masterwork. Off-campus course, transportation provided. *Offered alternate years.*

AR202 Introduction to Sculpture (3 cr) Explores basic concepts of design with three-dimensional materials. Uses mass, space, movement, textures, line, plane, volume, color and scale to create three-dimensional work. Off-campus course, transportation provided. *Offered alternate years.*

AR203 Introduction to Art History (3 cr) A survey of the history of Western Art, with a focus on the visual as a language for communicating ideas and values. Covers fine arts genres (drawing, painting, sculpture and architecture) as well as artisanal products like pottery, utensils, jewelry, furniture, coins and other metal objects. Will explore technologies for mass producing images, such as wood cut, engraving, lithographs, print, and explore the impact of the technologies for reproducing art in the post-Renaissance rise of the print-based culture which is the foundation for our own society. Will work chronologically from the art of the Mediterranean world through major artistic periods through the rise of modernism. Four world-class art museums will be the classroom.

CO110 Fundamentals of Speech (3cr) Introduces the basic building blocks of speech writing and effective delivery which are required in every field of study and career. Meets General Education Speech Requirement. Not open to Communication Arts majors for General Education credit. *Offered every fall and spring.*

CO188/288/388/488 Intern Communication Arts (variable credit) Professional internship experience in any of the related fields of Communication Arts - radio, television, public relations, advertising, theatre, etc. A formal internship application procedure and preparatory course work for the required job skills must be completed with the department. Internships include Journalism Center Internship and Comm. Arts Internship. May be repeated for experience in varying areas. *Prerequisite: Permission of instructor. Offered as requested.*

CO198/CO298 Drama as Ministry (3 cr) Combines theory and practice by introducing a variety of dramatic experiences and expressions which can be vehicles for accomplishing the five basic ministry functions of the local church: worship, Christian education, fellowship, service and outreach. *Offered in January term.*

CO199A Creative Drama (3 cr) Designed as introductory course for first and second year students exploring communication arts as a major. Actively investigates the relationships among dramatic play, theatre, education and human development. Performance techniques include improvisation, role-play, puppetry, movement, masks, storytelling, and theatre games. No prior actor training is required. Drama techniques can be applied in a variety of majors including business, social work, religion, psychology, education and communications. *Offered in January term.*

CO201 Theatre and Culture (3 cr) Provides a foundation for exploring theatre in communication and community. Examines the collaborative process of play production including the roles of playwrights, directors, actors, and designers. Includes play readings of various literary genres, critical analysis and response to theatrical performances, theatre as a reflection of culture, and an introduction to performance studies. An essential component is a practical experience in an area of a current ENC production. *Offered annually.*

CO205 Media, Religion, and Popular Culture (3 cr) Primarily introduces the concepts and methods of studying popular culture and the media to apply them to the presence and operation of religion in American culture. Compares and contrasts postmodernism with the American Judeo-Christian tradition with an emphasis on the Wesleyan tradition and Evangelicalism. Also examines the influence and relationship of American popular culture and religious belief in other parts of the world. *Offered annually.*

CO211 Introduction to Mass Communications (3 cr) Overviews and describes the mass communication industries, introducing all areas of professional work in radio, television, journalism and other mass communications, and illuminating the importance of communication in society. *Offered annually.*

CO212 Voice and Articulation (3 cr) Studies voice mechanisms for quality speech production. A variety of majors including broadcasting, acting, education, religion and

business benefit from the exploration of how to increase vocal range, develop or minimize dialects, improve breath support and control vocal production problems. Emphasis is on self-analysis and development. *Offered in alternate years.*

CO215 Writing for the News Media (3 cr) Introduces approaches to the fundamental aspects of print and broadcast journalism, focusing on the processes involved in print media. *Prerequisites: EN103 and EN104. Offered in alternate years.*

CO220 Interpersonal Communication (3 cr) An experience-based introduction to interpersonal communication. Covers theories of perception, self-concept, assertion, needs, beliefs, attitudes and values, listening, language, nonverbal communication, relationships, roles and trust, interpersonal tension management, and conflict resolution. Students have the opportunity to put theories to work with the skills of applying them to human interaction through group activities and individual projects. Students also have the opportunity to consider Christian, Biblical, and spiritual perspectives. Fulfills social science requirement. *Offered varying years.*

CO230 History of American Film (3 cr) Studies the development of cinema in the United States and offers a broad overview of American filmmaking. Topics include genre, the relationship of film to art, politics, religion and society, and the treatment of ethnic groups and women by Hollywood.

CO251 Acting I: Introduction to Acting (3 cr) Explores various methods of character development such as voice, movement, concentration and awareness to find emotional truth. Emphasizes the development of individual and ensemble performance through both improvised and scripted scenes with a focus on contemporary styles and plays. Students from all majors will develop confidence, and poise and sharpen their interpersonal communication skills. *No prerequisite. Offered in alternate years.*

CO252 Acting II Scene Study and Styles (3 cr) Builds up on basic vocal and physical skills, character development, and textual analysis through extensive scene study and workshop performances. A variety of actor training techniques is introduced with emphasis on performance styles needed to work with classical or contemporary texts. *Prerequisites: CO251 or permission of instructor. Offered in alternate years.*

CO253 Acting for the Camera (3 cr) See website for course description.

CO260 Television Production (4 cr) Applies television theory to program production and utilizes technology (i.e. studio, ENG, EFP, etc.). *Prerequisite: Permission of instructor. Offered in alternate years.*

CO271 Technical Theatre Practice (3 cr) Explores the tools, methods and materials used behind the scenes in theatrical production. Emphasizes theatre safety, set construction, and stage management. Students design individual projects and gain invaluable hands-on experience working on an ENC production. Production lab hours are required. *Offered alternate years.*

CO272 Technical Theatre Design (3 cr) Studies the collaborative process of creating visual representation for a production. Examines the theories and principles used to design scenery, costumes, lighting, and makeup for the stage. Students will design individual projects and gain invaluable hands-on experience working on an ENC production. Production lab hours are required. *Offered alternate years.*

CO280 Introduction to Photography (3 cr) Introduces basic black and white 35mm photography. Teaches practical hands-on application and critical analyses of exposure, developing, printing and displaying photographs. Emphasizes darkroom techniques. A darkroom lab fee is applied.

CO281/AR281 Digital Photography (3 cr) An introduction to digital photography as an art form. Investigations into photographic processes include camera techniques, lighting, color imaging, photographic composition and visual design. Digital

photographic software applications, monochrome prints and digital color image manipulation will be explored as relates to photographic media and traditions. Photography as a commercial medium will also be investigated.

CO291 Video Practicum (1-3 cr) Directed experiences in entry-level TV production. *Prerequisite: Permission of instructor.*

CO297 Intercultural Performance (3 cr) Introduces theories of culture and performance by exploring dramatic literature and theatrical practices of Africa, India, China and Japan. Examines cultural influences of international and American playwrights. Related areas of study include politics, religion, gender, identity, society, and aesthetics. *Offered in alternate years.*

CO305 Communication Law and Ethics (3 cr) Examines the major principles and trends in communication law. Focuses on free speech as pertains to the first amendment to the US Constitution, copyright laws, broadcast regulations, commercial speech, free press/fair trail, and prior restraint. Looks at the ethical considerations of the communication industry with a special emphasis on Christian ethics and the media.

CO311 Advanced Writing for Electronic Media (3 cr) Focuses on writing for the electronic media: radio feature writing, ENG/EFP script writing and documentary video writing. *Prerequisites: EN103, EN104, CO215, CO260 or permission of instructor. Offered alternate years.*

CO312 Oral Interpretation (3 cr) Fosters an appreciation of literature and develops creative skills in public speaking and performance. Analyzes various literary forms (poetry, novels, plays, the Bible, songs, letters, diaries, etc) as texts for performances. Class exercises introduce vocal, physical and other performances techniques to effectively communicate a point of view. Explores oral traditions and other non-literary sources and events as performance material. *Prerequisite: CO110 or CO120. Offered in alternate years.*

CO313 Theories and Processes of Communication (3 cr) Study the theories and processes of human communication. Emphasis on interpersonal, group and public communications, mass communication and intercultural communication. *Prerequisite: CO211 or permission of the instructor.*

CO315 Feature Writing and Beat Reporting (3 cr) Focuses on feature writing and beat reporting, emphasizing the reporter's multiple roles in developing contacts and sources, developing trend stories in science, religion, education, and other beat reporting. *Prerequisites: EN103, EN104, and CO215 or permission of instructor. Offered in alternate years.*

CO320/AR320 Digital Design (3 cr) Designed to introduce students to the basics of web design. The course will cover the history of the Internet and the World Wide Web; how the WWW works; web page design and layout; web site organization; working with graphics and graphics tools; hypertext markup language; cascading style sheets; Flash and Dreamweaver. The course is meant to be a hands-on experience where students will be introduced to material in lectures, readings, laboratory exercises, class discussions, projects and tests.

CO322 History of Broadcasting (3 cr) Examines the origin, development and impact of radio and television from the 1920s to the present and the development of religious and public broadcasting. *Prerequisite: CO211.*

CO323 Contemporary Issues in Broadcasting, the Internet, and Cable (3 cr) Examines the current controversies and constant changes in the electronic media business. Special emphasis on the growth of media conglomerates, decision making of the Federal Communications Commission, merging of the Internet and television, and the growth of wireless communications.

CO325 Promotional Writing (3 cr) Focuses on writing for public relations and advertising, with a strong emphasis on the format, techniques, and elements essential for clear, concise promotional writing. In-class writing exercises, homework assignments and a final project/portfolio will provide students with practical experience in writing news releases, op-eds, web copy, advertising copy and more.

CO330 Public Relations (3 cr) Introduces the field of public relations: its theoretical origins, scope, and principles. Discusses researching problems, setting objectives, identifying audiences, designing messages, choosing communication channels, and evaluating results for all types of organizations. The format is a combination of lecture and small discussion, case analysis, and guest lectures. *Prerequisite: CO211 or permission of instructor.*

CO331 Advertising (3 cr) Studies the history, nature, function, and social and economic aspects of advertising: ethical responsibilities, psychological appeals, marketing, media research, product analysis, creative strategies, and agency operation. Examines the influence of advertising on American culture. Students prepare comprehensive advertising plans, including marketing strategy and advertising campaigns. *Prerequisite: CO211 or permission of instructor.*

CO336 World Drama I: Origins to 17th Century (3 cr) Survey of dramatic literature and theatrical history as a reflection of cultural and societal issues of politics, ethnicity, gender, religion and identity. Students examine theories on the origins of theatre and analyze a wide variety of plays with special emphasis given to historical and cultural issues influencing the rise and fall of new dramatic forms and practices. Major periods and countries include classical Greece and Rome, medieval religious drama of Europe, classical theatre of Japan, Sanskrit drama of India, Chinese drama, commedia dell'arte of the Italian Renaissance, Spanish Golden Age, and Elizabethan and Jacobean drama. Issues of translation and intercultural performance are examined. The study of plays in the original language is highly encouraged. Theatre attendance supplements the course. *Prerequisites: CO201 or permission of the instructor. Offered in alternate years, Fulfills intercultural literacy requirement.*

CO337 World Drama II: 17th Century to Present (3 cr) Survey of dramatic literature and theatrical history as a reflection of cultural and societal issues of politics, ethnicity, gender and religion with special emphasis on diaspora, postcolonial and intercultural theory. Examines plays and performance with special emphasis given to historical and cultural issues influencing the rise and fall of new dramatic forms and practices in Africa, Asia, Europe and the Americas. Major periods include French neoclassicism, English Restoration, romanticism and the beginnings of modern theatre. The course will also analyze cross-cultural influences affecting African American, Asian American and Hispanic American playwrights. Issues of translation and intercultural performance are examined. The study of plays in the original language is highly encouraged. Theatre attendance will supplement the course. May be taken before World Drama I. *Prerequisites: CO201 or permission of instructor. Offered alternate years. Fulfills intercultural literacy requirement.*

CO340 Graphic Design (3 cr) Examines the basics of graphic design and layout, with an emphasis on practical skills in manual design techniques and desktop publishing.

CO352 Advanced Television Production (4 cr) Applies television theory to remote program production and utilization of electronic news gathering and field production technologies. *Prerequisite: CO324 or permission of instructor. Offered in alternate years.*

CO362 Writing for Stage and Screen (3 cr) A seminar approach to the study and practical application of techniques, styles and conventions of writing for stage and screen. Writing exercises, workshops, play, and readings provide students

opportunities to create, share, and receive feedback. *Prerequisite: EN103 and EN104. Offered in alternate years.*

CO370 Advanced Public Speaking (3 cr) This course builds upon a basic understanding of the communication process and delivery skills. The course emphasizes audience analysis, adaptation of materials to various organizational patterns, analytical evaluations of speeches and the role of public speaking in American society. A wide range of practical assignments will afford students the opportunity to develop as poised and effective speakers. *Prerequisite: CO110 or CO120.*

CO399 Travel Seminar (3 cr) A travel seminar in theatre. London, New York City. *Prerequisite: Permission of instructor. Offered in January term.*

CO410 Persuasion and Argumentation (3 cr) An advanced course designed to deepen the understanding and sharpen the skills of effective argumentation and debate. Practical application of persuasive speaking and writing techniques is emphasized.

CO411 History of American Musical Theatre (3 cr) The development of this popular entertainment is studied as a reflection of American popular culture. This musical form finds its antecedents in minstrel shows and vaudeville. It developed into the integrated book musical and recent innovations in contemporary musicals. Students examine the history of musicals on stage, television and film with special emphasis on understanding performance and production components and cultural influences. Performance is not required. *Offered in alternate years.*

CO430 Directing I: Introduction to Directing (3 cr) Storytelling is the central role of a director. Provides students with basic theories, aesthetic principles and techniques of directing that can be applied to both stage and screen. Student directors learn how to effectively tell a story by communicating with a production team, actors and the audience. The course culminates with a final directing project created through the process of textual analysis, concept development, casting, and application of aesthetic principles, as well as the use of various rehearsal techniques and presentation of a scene to an audience. Students attend area plays and gain practical experience in an ENC production. *Prerequisite: CO201, CO252, or permission of instructor. Offered in alternate years.*

CO431 Directing II: History, Theory and Styles (3 cr) Building upon experiences in Directing I, students further explore directing theories and are encouraged to develop their own personal directing style. Emphasizes the historical role of the director and leading innovators in directing for the stage. Students consider the stylistic demands of playwrights such as Sophocles, Shakespeare and Stoppard. Exercises and projects highlight approaches to actor coaching and the staging of plays in a variety of settings including arena stage and nontraditional spaces. Students attend area plays and gain practical experience in an ENC production. Culminates with the public performance of student directed scenes or one acts. *Prerequisite: CO430. Offered in alternate years.*

CO490 Theatre Practicum (1 cr) A variety of theatre practicums are offered to allow students to earn credit for the rehearsal and performance of a role (stage or technical) in an ENC production. The practicum may be repeated and is available to all majors. *Prerequisite: Consent of director.*

CO494 Theatre in Education (3 cr) An overview of materials and methods available for teaching drama, and for its use as a teaching strategy in other academic fields or in youth groups. Practical application of techniques and approaches will be stressed in the development of workshops, lesson plans and units, and a final educational production. *Prerequisites: CP240 and permission of instructor. Offered varying years.*

CO495 Seminar in Communication Arts (3 cr) An advanced course often offered in January and designed to deal extensively with a specialized area of the

Communication Arts. Content varies, so the course may be elected more than once.
Prerequisite: Permission of instructor.

CO497 Communication Arts Workshops (1 cr) Workshops offered include Journalism Workshop, Theatre Workshop, Journalism Workshop II: Working and Writing, Radio Production, Sports Reporting and *Campus Camera*.

CO498 Advanced Media Workshop (3 cr) This intensive hands-on course focuses on the technical and esthetic aspects of single-camera film style video production. Students are given the opportunity to work on a major project as they explore the skills necessary to write, produce, direct and edit a documentary or dramatic work. *Offered in January term.*

CO488 Praxis (3 cr) Professional internship experience in any of the related fields of Communication Arts - radio, television, public relations, advertising, theatre, etc. A formal internship application procedure and preparatory course work for the required job skills must be completed with the department. May be repeated for experience in varying areas. *Prerequisite: Permission of instructor.*

CO499 Senior Design Project (2 cr) Will be offered as a directed study. It will no longer be offered as an internship.

Computer Science Department

Division of Natural Sciences

Dr. Randy Fish, Professor

Dr. LeRoy Hammerstrom, Professor

Dr. Stephen Lovett (Chair), Associate Professor

Dr. Fen Wang, Assistant Professor

DEPARTMENT OBJECTIVES

1. To provide the student with an appreciation of the scope and content of Computer Science and Information Systems.
2. To promote the development of the student's ability to analyze, define, and formulate solutions to complex problems.
3. To provide the student with experience in evaluating what general types of problems are amenable to computer solutions and the various tools necessary for solving such problems.
4. To develop proficiency in designing, writing, implementing, and documenting problems in high level languages.
5. To develop student's quantitative and qualitative analytical skills.
6. To provide an understanding of basic computer hardware and software design and operation.
7. To promote the development of the student's interpersonal, communication, and team skills.
8. To prepare the student for either a profession or graduate study in Computer Science or Information Systems.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Computer Science*

Bachelor of Arts: *Computer Science, Management Information Systems*

Minor: *Computer Science*

Double Major Notes: Please consult the Department Chair for policies on double majoring across the Computer Science Dept. and Engineering Dept.

General Degree Requirements for All Majors in Department

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

General Education Cultural Perspectives Requirements, 18 credits

COMPUTER SCIENCE (BS) REQUIREMENTS

This degree is designed to prepare the student for professional work or graduate study in Computer Science. Those wishing to do graduate work in Computer Science are encouraged to take those courses emphasizing the mathematical and theoretical foundations of the discipline.

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Lab Science and Math, 8 credits
 - Required Lab Science: PY201 General Physics I w/Lab, 5 credits
 - Required Math: MA171 Introduction Discrete Math, 3 credits
- Fulfill All Computer Science Requirements - listed below, 54 credits
- Fulfill Electives (Computer Science or other) 13 credits

Computer Science Core, minimum grade C-, 22 credits

CS131 Computer Programming I	3
CS132 Computer Programming II	3
CS220 Advanced Microcomputer Interfacing	3
CS220L Advanced Microcomputer Interfacing Lab	1
CS221 Data Structures	3
CS225 Design and Analysis of Algorithms	3
CS322 Database Systems	3
CS331 Operating Systems	3

Computer Science Elective at 200 Level (choose one) minimum grade, 3 credits

Computer Science Electives at 300 Level (choose three) minimum grade C-, 9 credits

Computer Science Electives at 400 Level (choose two) minimum grade C-, 6 credits

Cognate Requirements, 15 credits

MA151 Calculus I	4
MA152 Calculus II	4

MA201 Linear Algebra	4
MA252 Probability and Statistics	3

COMPUTER SCIENCE (BA) REQUIREMENTS

This degree is designed for those planning on professional careers such as technical writing or business data processing.

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
Choose Lab Science - 4 credits
Required Math: MA118 Introduction to Statistics, 3 credits
- Fulfill all Computer Science Core - see Computer Science (BS) Degree, 22 credits
- Fulfill Electives (Computer Science or other), 35 credits
- Computer Science Elective at 200 Level (choose one) minimum grade C-, 3 credits
- Computer Science Electives at 300 Level (choose two) minimum grade C-, 6 credits
- Cognate Requirement, 3 credits
MA171 Introduction to Discrete Math, 3 credits

MANAGEMENT INFORMATION SYSTEMS (BA) REQUIREMENTS

This degree is designed to prepare the student for professional work in developing information systems, and the analysis, administration, and management of information systems departments.

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12
- Lab Science, 4 credits
- Required Math: MA118 Introduction to Statistics, 3 credits
- Elective Credits (Computer Science or other), 36 credits

MIS Requirements all required, minimum grade C-, 24 credits

BA212 Principles of Management	3
BA221 Principles of Accounting I	3
BA231 Principles of Economics I	3
BA252 Principles of Marketing	3
CS110 Principles of Information Systems	3
CS131 Computer Programming I	3
CS320 Analysis and Design of Information Systems	3
CS322 Database Systems	3

COMPUTER SCIENCE TRACK OR BUSINESS TRACK (CHOOSE ONE TRACK)

Computer Science Track (choose two) minimum grade C-, 6 credits

CS132 Computer Programming II	3
CS221 Data Structures	3
CS241 Information Systems: Theory and Practice	3
CS310 Telecommunications and Networks	3

Business Track, minimum grade C-, 6 credits

Choose two courses: BA200 or above (excluding BA315)

Cognate, minimum grade C-, 3 credits

EN314 Writing for Professions	3
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COMPUTER SCIENCE MINOR REQUIREMENTS

- Fulfill all Requirements listed below, minimum grade C-, 15 credits
- | | |
|--|---|
| CS131 Computer Programming I | 3 |
| CS132 Computer Programming II | 3 |
| CS220 Advanced Microcomputer Interfacing | 3 |
| CS221 Data Structures | 3 |
| CS225 Design and Analysis of Algorithms | 3 |

COMPUTER SCIENCE COURSE DESCRIPTIONS

CS110 Principles of Information Systems (3 cr) Introduces system theory, quality, decision-making and the organizational role of information systems. Stresses information technology including computing and telecommunications. Also introduces concepts of organization and information system growth and re-engineering. *Prerequisites: Proficiency with personal productivity software, Microsoft Office, email, spreadsheets, the Internet, and general computer use. Offered annually.*

CS131 Computer Programming I (3 cr) Introduces problem solving methods and algorithm development. Emphasizes structured programming and general programming techniques. Topics include input/output, arithmetic, conditional testing, looping, one- and two-dimensional arrays, strings, and simple search/sort methods. Students complete several programming assignments. *Prerequisite: High school algebra. Offered fall.*

CS132 Computer Programming II (3 cr) Continues from Computer Programming I, covering multidimensional arrays, user-defined data types, record data structure, sequential and binary files, sets, pointers, functions, programs with multiple files and the standard library. Introduces data structures including linked lists. Students complete several programming assignments using advanced C topics. *Prerequisite: CS131. Offered spring.*

CS220/EG351 Advanced Microcomputer Interfacing (3 cr) Introduces the field of microcomputers. Topics include microcomputer organization and architecture, machine and assembly language programming, interrupts, serial interfacing, D/A and A/D interfacing. Laboratory required. *Cross-listed with Engineering. Prerequisite: MA171 or EG323. Offered fall.*

CS220L/EG351L Advanced Microcomputer Interfacing Lab (1 cr) Lab for CS220. *Offered fall.*

CS221 Data Structures (3 cr) Analyses design and implementation of algorithms of the manipulation of data structures. Topics include single and multiple linked lists, stacks, queues, multi-dimensioned and sparse arrays, binary and general trees, AVL height balancing, graphs, networks, and shortest path and minimum spanning tree algorithms. Students complete several programming assignments. *Prerequisite: CS132. Co requisite: MA171. Offered fall.*

CS225 Design and Analysis of Algorithms (3 cr) Introduces the analysis of the run-time behavior of algorithms and how design considerations affect algorithm performance. Topics include the analysis of greedy algorithms, divide and conquer techniques, and dynamic programming. *Prerequisites: MA171 and CS221. Offered spring.*

CS241 Information Systems: Theory and Practice (3 cr) Students will be exposed to the theory of the information systems discipline and to standard IS management applications. Implementation of these theories to the success of organizations and to the roles of management, users, and IS professionals are presented *Prerequisites: CS110 and CS131.*

CS299/399 Topics in Computer Science and Information Systems (3 cr) Includes topics from current computer science and information systems literature, including current research in simulation, modeling, data warehousing, knowledge management, graphics and artificial intelligence. *Prerequisite: CS132. Offered varying years.*

CS310 Data Telecommunications and Networks (3 cr) An in-depth experience of telecommunications fundamentals, including voice-video-data from LAN, MAN, and WAN including switched network systems. Studies data communication and telecommunication models and standards, concepts, and standard organizations and practices installation, configuration, systems integration and management of technologies. *Prerequisite: CS221 or CS241. Offered alternate years.*

CS320 Analysis and Design of Information Systems (3 cr) Covers basic techniques used in the analysis, design and implementation of computer-based information systems. Provides an understanding of the systems study, feasibility assessment, project planning, and systems design. *Prerequisites: CS110, CS131, and Junior standing. Offered alternate years.*

CS321 Principles of Programming Languages (3 cr) Studies the fundamental concepts and concerns related to the design of the high-level programming languages. Specific topics include syntax and semantics; variables and expressions; data types; scope, extent and binding; procedures and functions; concurrency; and functional and object oriented languages. *Offered varying years.*

CS322 Database Systems (3 cr) An introduction to the concepts and methods employed in the design and implementation of database management systems. The relation, network, and hierarchical models are covered, as well as the entity-relationship. Data definition and manipulation languages including relational algebra, relational calculus, and SQL are presented as well as issues related to concurrent access and recovery. Students will complete a database project. *Prerequisite: CS221 or CS320. Offered alternate years.*

CS331 Operating Systems (3 cr) An overview of operating system concepts. Topics include layered architecture, CPU scheduling, memory management, device management, file systems and process management. Design of specific operating systems such as UNIX will be considered. Students will complete projects designing or modifying parts of an existing operating system. *Prerequisite: CS221. Offered alternate years.*

CS411 Senior Project (3 cr) Culmination of course work in Computer Science. Each student will complete a single major project. Project work will consist of writing requirements specification, program development, and testing. Project demonstrations and formal presentations to faculty and peers are required. *Prerequisite: Senior standing. Offered varying years.*

CS433 Theoretical Computer Science (3 cr) A study of the fundamental issues of computer science. Topics include formal language theory, computability theory, and complexity theory. These topics introduce the student to primitive recursive functions, Turing machines, regular and context free languages, polynomial time computability, and finite automata. *Prerequisites: MA171 and either Sophomore standing or instructor's permission. Offered varying years.*

CS440 Decision Support and Intelligent Systems (3 cr) Decision support systems couple the intellectual resources of individuals with the capabilities of the computer to improve the quality of decisions. Topics to be explored include decision theory, data warehousing, mining, modeling, development of decision systems, knowledge-based systems, artificial intelligence and expert systems, and neural computing. The implementation of these systems will be covered. Students will complete a major semester project. *Prerequisites: CS221, CS322, Junior or Senior standing. Offered alternate years.*

CS450 Project Management and Practice (3 cr) Advanced Computer Science or Information Systems majors operating as a high-performance team will engage in and complete the design and implementation of a significant information system. Project management, management of the IS function and systems integration will be components of the project experience. *Prerequisites: CS221 and CS322. Offered alternate years.*

CS495 Field Placement (3 cr) Placement in actual work settings related to computer science. Student carries out job duties under the supervision of the employer and a faculty advisor *Prerequisite: Department permission. Offered as requested.*

CS499 Independent Study/Research (cr var) Opportunity for students to pursue study in an area of interest.

Criminal Justice

Division of Social Sciences

Dr. Janet Lanham (Chair), Professor

Janese Free, Instructor

Christian Eastman

Dan Flaberty

Sean Coleman

DEPARTMENT OBJECTIVES

1. To provide the student with an understanding of crime, deviance, and their effect on society and individuals.
2. To provide the student with an understanding of the causes and consequences of crime for perpetrators, victims and society.
3. To help students apply theoretical perspectives to crime and criminal behaviors.
4. To examine and analyze the criminal justice system, including law enforcement, the court process and corrections.
5. To exercise basic skills of data collection and data analysis to better understand crime and appropriate societal responses.
6. To provide a model of Christian values and ethics as applied to an understanding of crime, criminology and deviance.

DEGREES, MAJORS AND MINORS OFFERED

Bachelor of Arts: *Criminal Justice*; **Double Majors:** *Criminal Justice and Psychology - Social Relations Track, Criminal Justice and Sociology Major*

Minor: *Criminal Justice*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 7 credits

Required Math: PS251 Statistics: Social Science, 3 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

Criminal Justice Core Requirements (all required) minimum grade C-, 30 credits

CJ180 Introduction to Criminal Justice	3
CJ251 Criminology	3
CJ261 Social Deviance	3
CJ272 Family Violence	3
CJ311 Law Enforcement and Policing	3
CJ322 Criminal Law and Constitutional Principles	3
CJ341 Corrections and Alternatives	3
CJ402 Ethics in Criminal Justice	3
SO110 Introduction to Sociology	3
SO351 Methods of Social Research	3

CRIMINAL JUSTICE (BA) REQUIREMENTS

Fulfill all General Degree Requirements - see above

Fulfill all General Education Requirements - see p. 12, 54 credits

Fulfill all Criminal Justice Core Requirements - see above, 30 credits

Elective Credits (Criminal Justice or other), 36 credits

Additional Requirement, minimum grade C-, 3 credits

SO401 Sociological Theory

CRIMINAL JUSTICE AND PSYCHOLOGY - SOCIAL RELATIONS TRACK (BA) REQUIREMENTS

Note: This is a double major.

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
Required Math: PS251 Introduction to Statistics for Social Sciences 3
Required Social Science: PS110 Introduction to Psychology 3
Required Social Science: PS240 Lifespan Development 3
- Fulfill all Criminal Justice Core Requirements - see above, 27 credits
- Elective Credits (criminal justice or other), 18 credits

Psychology - Social Relations Requirements (all required) minimum grade C-, 18 credits

PS313 Social Psychology	3
PS331 Theories of Personality	3
PS351 Methods of Social Research	3
PS352 Junior Psychology Seminar	1.5
PS372 Abnormal Psychology	3
PS430 Field Experience	3
PS453 Senior Psychology Seminar	1.5

Additional Criminal Justice Requirement, minimum grade C-, 3 credits

SO401 Sociological Theory 3

Psychology Elective, minimum grade C-, 3 credits

Choose one PS course - see descriptions under Psychology Department 3

CRIMINAL JUSTICE AND SOCIOLOGY MAJOR (BA) REQUIREMENTS

Note: This is a double major.

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Social Science **Recommended** Courses:
 - PS110 Introduction to Psychology 3 credits
 - PS240 Lifespan Development, 3 credits
- Intercultural Literacy **Recommended** Courses:
 - SO212 Human Diversity, 3 credits
 - IN299 Special Topics in Intercultural Studies, 3 credits
- Elective Credits (Criminal Justice or other), 24 credits

Sociology Core Requirements (all required) minimum grade C-, 15 credits

SO110 Introduction to Sociology 3
SO311 Social Problems 3
SO313 Social Psychology 3
SO351 Methods of Social Research 3
SO401 Sociological Theory 3

Criminal Justice Requirements (all required) minimum grade C-, 24 credits

CJ180 Introduction to Criminal Justice 3
CJ251 Criminology 3
CJ261 Social Deviance 3
CJ272 Family Violence 3
CJ311 Law Enforce and Policing 3
CJ322 Criminal Law and Constitutional Principles 3
CJ341 Corrections and Alternatives 3
CJ402 Ethics in Criminal Justice 3

Sociology Electives (choose three) minimum grade C-, 9 credits

SO242 Sociology of Religion 3
SO288/SO388/SO488 Internship in Sociology 3
SO312 Marriage and Family Relations 3
SO314 Group Psychology 3
SO315 Urban Experience 3
SO320 Seminar in Globalization 3
SO341 Urban Sociology 3
SO392 Special Topics in Sociology 3
SO430 Field Experience 3
SO451 Quantitative Research and Data Analysis 3
SO490 Independent Study varies

CRIMINAL JUSTICE COURSE DESCRIPTIONS

CJ180 Introduction to Criminal Justice (3 cr) Provides an introduction to the various elements of the criminal justice system in the United States (e.g., courts, corrections, police, probation, parole), and addresses some of the critical issues that will shape the system in the years to come. *Offered annually.*

CJ251 Criminology (3 cr) A social scientific study of crime and criminal behavior in society, including an examination of the historical and modern theories of crime, an in-depth look at specific crimes, and an analysis of the methods and research to cope with these problems. *Prerequisite: CJ180. Offered annually.*

CJ261 Social Deviance (3 cr) Examines the structures and processes underlying social deviance, various theoretical perspectives, and current research. Some major topics are: social definitions of deviance, social reaction to deviant behavior, and deviant behaviors and subcultures. *Offered alternate years.*

SW272/CJ272 Family Violence (3 cr) Explores the social, legal, and medical perspectives of intimate partner violence. Examines various aspects of intimate partner violence, with a focus on theoretical perspectives, as well as specific types of abuse such as child abuse, spousal abuse, and elder abuse. The objective is to broaden knowledge of family violence, understand some of the causes, discuss types of forms of abuse, gain insight on the dynamics between perpetrators and victims, and analyze social, legal, and medical responses to this social problem. *Offered yearly.*

CJ275 Juvenile Delinquency and Justice (3 cr) Introduces students to the history, causes, current trends, theoretical perspectives, and interventions regarding juvenile delinquency and at-risk youth. Additionally, specific influential factors (i.e. family history, education, substance abuse) will be discussed, as well as current philosophies to respond to juvenile delinquents varying from preventative education to juvenile incarceration. *Prerequisite: CJ180. Offered varying years.*

CJ311 Law Enforcement and Policing (3 cr) Covers the importance of knowing the law, patrol procedures, search and seizure, discretion when to arrest, dealing with diverse populations, motor vehicle stops, deadly force, coping with the rigors of the job and internal department strife. *Prerequisite: CJ180. Offered varying years.*

CJ322 Criminal Law and Constitutional Principles (3 cr) Examines the constitutional underpinnings of the criminal law. Studies the nature of constitutional rights and protections afforded to persons subject to the criminal justice system and the limits of governmental powers to investigate and prosecute. Case studies are used to highlight various constitutional issues and to enable students to identify and analyze constitutional problems. *Prerequisite: CJ180 and permission of instructor. Offered varying years.*

CJ341 Corrections and Alternatives (3 cr) Explores the history and operation of prisons and jails in the United States and other countries. Covers the management and operation of corrections facilities from the perspective of employees and incarcerated persons, as well as ideas dealing with innovative correction techniques and the future of corrections in the United States. *Prerequisite: CJ180. Offered varying years.*

CJ402 Ethics in Criminal Justice (3 cr) Enables students to comprehend the ethical principles that apply to the Criminal Justice field. Focuses on the development of the ethical decision making model which provides students with a methodology of analyzing and resolving ethical issues. Given a specific factual situation of case study, students learn to apply the methodology (alone or in a small group) to produce an ethically sound decision. *Prerequisite: CJ180. and CJ251. Offerd varying years. Junior or Senior level students only; others with permission of instructor.*

Education Department

Division of Teacher Education

Dr. Lorne Ranstrom (Division Chair), Associate Professor

Norene Fiacco (Department Chair), Associate Professor

Dr. Beverly Cawthorne, Associate Professor

Dr. Albert Cawthorne, Associate Professor

Dr. Linda Scott, Associate Professor

DIVISION OBJECTIVES

1. To provide professional study of a kind and quality necessary for licensure and graduate work in various fields by developing a defensible, systematic view of education based upon sound principles.
2. To develop, by example as well as precept, a professional responsibility which will manifest itself in continual educational growth, deep sensitivity to the needs of others, and true respect for each individual.
3. To enhance the reputation of the college through professional relationships with local schools and through teacher graduates who are exemplary professionally and spiritually.
4. To develop and demonstrate a high level of teaching competency in the classroom.
5. To support the integration of the liberal arts emphasis with professional studies.
6. To challenge and guide students to bring all of their professional training and service into a total commitment to Christ, leading to a fully integrated life exemplifying holiness.
7. To assist in professional development by providing opportunities for advanced learning.

DEGREE AND LICENSURE PROGRAMS OFFERED

Bachelor of Arts: *Early Childhood Education, Elementary Education, Middle School Education, Music Education, Secondary Education, Teacher of Students with Moderate Disabilities (TSMD)*

Bachelor of Science: *Physical Education*

Associate of Arts: *Early Childhood Education, Childcare Licensing for Pre-School*

PROGRAM REQUIREMENTS

Students interested in pursuing a teaching career must gain licensure from the state where they will be employed. Each state's licensure requirements differ, but graduates of Eastern Nazarene College who have completed the undergraduate or graduate teacher education program are eligible to be licensed in over 30 states and Washington, DC, because ENC is an approved member of the Interstate Certification Compact.

The Teacher Education Program at Eastern Nazarene College exceeds the licensure requirements of the Commonwealth of Massachusetts. ENC's education program is designed with these requirements in mind, incorporating the newest methods of teacher preparation which are gaining increasing support throughout the United States. All students seeking licensure by the Commonwealth of Massachusetts must have an undergraduate liberal arts/science major. Students not having an undergraduate liberal arts/science major must complete the necessary work to achieve equivalency.

Students who are employed as teachers in Massachusetts must continue teacher training. Requirements for advanced licensure in other states may differ. Education licensure programs described in the 2007-2008 catalog may be subject to revision based on any Massachusetts Department of Education directives.

Liberal Arts Major - Early Childhood, Elementary Education, Teacher of Students with Moderate Disabilities (TSMD)

Students who seek general licensure in Early Childhood and Elementary Education, and/or Teacher of Students with Moderate Disabilities (Pre K-8 and 5-12) must successfully complete the Liberal Arts major outlined in each set of degree requirements. Students choose an area of expertise (History, English, Math, Science) as part of the Liberal Arts major.

Second Major - Subject Area Licensure - Middle School and Secondary Education

The following majors qualify for students who wish to gain subject area licensure for the middle school (5-8) and secondary (8-12) levels: Biology, Chemistry, English, History, Mathematics, Physics, and General Science (5-8 only).

Music Education, All Levels

Please refer to degree requirements and course descriptions under the Music Department.

Physical Education, Pre K-8, 5-12

Please refer to degree requirements and course descriptions under the Movement Arts Department.

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Admission into Teacher Education program for those seeking to teach
- Complete General Education Requirements
- Earn a minimum 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.5
- Senior exit portfolio and oral interview for students seeking initial licensure

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Required: PE222 First Aid and CPR, .5 credit

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Social Science, 6 credits

BA231 Microeconomics or BA232 Macroeconomics, 3 credits

PS240 Lifespan Development, 3 credits

Intercultural Requirements, choose one of the following, minimum grade C-, 6 credits

IN210 Peoples and Cultures of the World, 3 credits

IN299 Special Topics in Intercultural Studies, 3 credits

SO212 Human Diversity, 3 credits

Linguistics Requirement

EN211 Introduction to Applied Linguistics, 3 credits

General Education Cultural Perspectives Requirements, 18 credits

Education Core Requirements (all required) minimum grade C-, 18 credits

ED210 Philosophical and Sociological Foundations of Education	3
ED243 Educational Technology	3
ED310 Educational Psychology	3
ED320 Classroom Management	3
SN311 Human Exceptionalities	3
SN420 Psychological and Educational Assessment of the SN Child	3

Liberal Arts Requirement

(additional lab science and math/science courses) minimum grade C-, 7 credits

Lab Science (choose one) minimum credits	4
choose any BI, CH, PY or HS course with a lab above 100	
Math above 100 (choose one) minimum credits	3
choose any MA course above the 100 level	

Liberal Arts Requirement (all required) minimum grade C-, 15 credits

GO210 American Political Institutions	3
GO220 World Political Geography	3
HI205 American Experience	3

Liberal Arts American Literature Course Requirement (choose one)

minimum grade C-, 3 credits

EN221 American Literature I	3
EN222 American Literature II	3

Liberal Arts Subject (five in one area for educators) minimum grade C-, 15 credits. Choose one area:

Note: Courses taken to fulfill General Education requirements may count toward the 15 required credits.

- Math (Choose four MA courses 109 or above.) Note: If you take 2 sciences to fulfill additional math/science (see above), you will need five math classes here. See Math course descriptions.
- History (Choose four HI courses 200 level or above.) Required: HI205, 3 credits
See History course descriptions.
- English
Choose three EN courses 200 level or above. Required: EN211 Linguistics and EN221 or EN222. See English course descriptions.
- Science Emphasis, minimum 12 credits
Choose any three BI, CH, PY or HS course above 100 with a lab.

EARLY CHILDHOOD EDUCATION INITIAL LICENSE PRE-K TO GRADE 2 (BA) REQUIREMENTS

In order for a student to obtain teacher licensure in Early Childhood Education, the student must successfully complete the following requirements:

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12
- Fulfill all Liberal Arts Degree Requirements - see above
- Fulfill all Education Core Requirements - see p. 14

Early Childhood Initial (all required) minimum grade C-, 9 credits

EC325 Early Childhood Curriculum and Methods I	3
EC330 Early Childhood Curriculum and Methods II	3
RE441 Teaching Reading and Children's Literature	3

Early Childhood Practicum (initial) minimum grade C-, 14 credits

EC499 Practicum: Preschool/Kindergarten (100 hrs) minimum 6 credits	
EC499 Practicum: Grades 1-2 (200 hrs) minimum 6 credits	
ED499z Student Teacher Seminar, 2 credits	

ELEMENTARY EDUCATION INITIAL LICENSE GRADES 1-6 (BA) REQUIREMENTS

In order for a student to obtain teacher licensure in Elementary Education, the student must successfully complete the following requirements:

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12
- PE Requirement: PE252 Personal Health and Wellness
- Fulfill all Liberal Arts Degree Requirements - see above
- Fulfill all Education Core Requirements - see p. 114

Elementary Education Initial (all required) minimum grade C-, 9 credits

EL325 Elementary Curriculum and Methods I	3
EL330 Elementary Curriculum and Methods II	3
RE441 Teaching Reading and Children's Literature	3

Elementary Education Practicum Initial, minimum grade C-, 14 credits

EL499 Practicum: Elementary Education	12
ED499z Student Teaching Seminar	2

MIDDLE SCHOOL INITIAL LICENSE (BA) REQUIREMENTS

In order for a student to obtain teacher licensure in Middle School Education, the student must successfully complete the following requirements:

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - previous section with following changes: Required Social Science PS240 Lifespan Development and PS343 Adolescent Development
- Fulfill all Education Core Requirements - see p. 12
- Fulfill all requirements in second subject area major - see department major for requirements

Middle School Initial (all required) minimum grade C-, 6 credits

MS420 Curriculum and Methods in Middle School Education	3
RE462 Reading in the Content Area	3

Middle School Practicum (all required) minimum grade C-, 14 credits

MS499 Middle School Subject Area Practicum	12
ED499z Student Teaching Seminar	2

SECONDARY EDUCATION INITIAL LICENSE (BA) REQUIREMENTS

In order for a student to obtain teacher licensure in Secondary Education, the student must successfully complete the following requirements:

- Fulfill all General Education Requirements - previous section with following changes: Required Social Science PS240 Lifespan Development and choose any PS, CJ, SO course from the approved list under General Education curriculum., p. 115
- Fulfill all Education Core Requirements - see p. 114
- Fulfill all requirements in second subject area major - see department major for requirements

Secondary Education Courses (all required) minimum grade C-, 6 credits

RE462 Reading in the Content Area	3
SE420 General Curriculum and Methods of Secondary Education	3

Secondary Education Practicum (all required) minimum grade C-, 14 credits

ED499 Student Teaching Seminar	12
SE499z Practicum Secondary Education	2

TEACHER OF STUDENTS WITH MODERATE DISABILITIES (TSM D) (INITIAL LICENSE) PRE K-8/GRADES 5-12 (BA) REQUIREMENTS

In order for a student to obtain teacher licensure in Secondary Special Needs, the student must successfully complete the following requirements:

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12
- Fulfill all Education Core Requirements - see p. 114
- Fulfill all Liberal Arts Degree Requirements

TSM D Pre K/GR12 Education Courses (all required) minimum grade C-, 9 credits

RE441 Teaching of Children's Literature	3
SN325 Special Needs Curriculum and Methods I	3
SN330 Curriculum and Methods Elementary Special Needs II OR	3
SN335 Curriculum and Methods Secondary Special Needs II	3

Special Needs Practicum, minimum grade, C-, 14 Credits

ED499z Student Teaching Seminar	12
SN499 Practicum Special Education	2

ASSOCIATE DEGREE IN EARLY CHILDHOOD EDUCATION

First Year Required General Education Courses, 25 credits

BL110 Biblical History and Literature	3
CO110 Fundamentals of Speech	3
CP210 Western Heritage	3
EN103 Critical Writing	3
EN104 Rhetoric	3
IN210 Peoples and Cultures of the World	3
PE001 Physical Education Activity	.5

PE222 First Aid and CPR	.5
PS110 Introduction to Psychology	3
PS240 Lifespan Development	3
Cultural Perspective option (choose one) 3 credits	
CP230 Arts and Music	3
CP240 World Literature	3
CP295 Philosophical Quest	3
Required Education Courses, minimum grade C, 18 credits	
EC325 Early Childhood Curriculum and Methods I	3
EC330 Early Childhood Curriculum and Methods II	3
ED210 Philosophical and Sociological Foundations of Education	3
ED243 Educational Technology	3
ED310 Educational Psychology	3
RE441 Teaching Reading and Children's Literature	3
Practicum, minimum grade C-, 12 credits	
EC399 Preschool/Kindergarten Associate Degree practicum	12

ADMISSION TO TEACHER EDUCATION PROGRAM

Students planning to teach should formally apply for admission to the Teacher Education Program no later than the spring semester of their sophomore year. Admission to the program is necessary if the student is to proceed in the professional sequence of upper division education courses. A student must maintain good standing (2.5 QPA) in the Teacher Education Program in order to continue in the teacher preparation program.

Applications are acted upon by the Teacher Education Faculty Committee, which is composed of faculty in the Division of Teacher Education. Careful consideration is given to the student's professional interest, personality, emotional stability, character, scholarship, competence in communication, and physical health. The following requirements must be met prior to admission:

1. A quality point average of 2.5 or better.
2. Satisfactory recommendations from faculty and members of the committee.
3. Satisfactory completion of ED210 Foundations of Education, PS240 Lifespan Development, and ED310 Educational Psychology. (Exceptions apply to Music Education and Physical Education majors.)
4. Pass the Massachusetts Communication and Literacy Skills Exam (earn a score of P on each component) **OR** pass PRAXIS I with a score of at least 172 on each component of the exam **OR** pass the PRAXIS I computer based exam with a score of at least 172 on each component of the exam. Students meet with their advisors to determine which exam is appropriate for them to take.
5. Application to and completion of the testing requirement (see #4) to be admitted to the Teacher Education Program. Information is available in the Education Office.
6. Approval of teacher education faculty.

Note: Admission to the Teacher Education Program is only part of a continuous process of selection and retention of the future teacher.

ADMISSION TO STUDENT TEACHING PRACTICUM

Application for the student teaching practicum must be made through the Education Office three months in advance of the desired time for student teaching. Only seniors who have completed the professional sequence satisfactorily and have maintained good standing in the Teacher Education Program will be considered for student teaching. Applications are acted on by the teacher education faculty.

Prerequisites for admission to student teaching are as follows:

1. Admission to and in good standing (2.5 QPA) in the Teacher Education Program.
2. Presentation of the growth portfolio during the junior year.
3. Completion of the professional sequence.
4. Satisfactory completion of the required courses for each selected major in teacher education.
5. Successful completion of the following MTEL tests: Communication and Literary Skills, Content exam and the Foundations of Reading exam, where appropriate, before being placed in the Practicum.
 - a. This requirement is for students who want to teach in Massachusetts. For those seeking to move out of Massachusetts, PRAXIS I is still the option for admittance to the Teacher Education Program.
 - b. This policy begins with the freshman class of 2004-2005.
 - c. For those taking the Content component of MTEL, it must be done during the semester before entering the student teaching practicum.
 - d. The Foundations of Reading component of MTEL, where appropriate, must also be taken the semester before entering the student teaching practicum.
6. Approval of teacher education faculty regarding professional aptitude.
7. Endorsement of major departments.

Additional course work may be required, depending on the needs of the individual student.

Students meet with advisors to determine the appropriate required student teaching experience. Student teaching cannot be provided to those who have not followed an established program for the preparation of teachers. Students will observe teachers and pupils at work. The actual participation in teacher activities with conferences and reports is emphasized. This practice teaching is done under supervision in public schools in Quincy, on the South Shore, and in the greater Boston area.

A weekly seminar is required for all those who are registered for their first student teaching practicum. This seminar will address the issues that arise out of the practicum experience. Resource persons will be used to address specific topics. All students seeking licensure in Massachusetts are required to pass a two-part state exam consisting of a Communication and Literacy Skills Test and a subject area test. A student is required to take and pass the Communication and Literacy Skills Exam as a requirement for admission to the ENC Teacher Education Program. The subject area exam is a test on the content area in which a student desires to teach. It must be taken the semester before the student teaching experience. The students in Early Childhood, Elementary, and/or Teacher of Students with Moderate Disabilities licensure programs must also take the Foundations of Reading component of the MTEL.

TEACHER PLACEMENT

The Counseling and Career Services Center is maintained by the college to assist graduates in securing positions for which they are best suited and qualified. Seniors in teacher licensure programs should file credentials with the Education Office during their student teaching experience. Credentials are established for each applicant from recommendations of the college faculty and the supervising teacher and principal. Credentials are provided to prospective employers on request.

The Counseling and Career Services Center and the Division of Teacher Education post notices of teacher position vacancies and make the information available to qualified candidates. This service is available to registered alumni/ae.

CAMPUS KINDER HAUS

The Campus Kinder Haus is an early childhood center operated by Eastern Nazarene College. It enrolls children from age two years nine months through age six years. The center serves families in the Quincy area and the college community. College students work in the program as active participants in connection with course work in Life Span Development, Christian Education, and Early Childhood Education.

For the college student, the school presents a rich opportunity to experience the complexities and rewards of work with young children. For the young child, the center presents a child-centered, developmentally appropriate program designed to promote physical, social, and intellectual growth. The teachers, students and college faculty seek to work closely with parents of the children and welcome parent participation, as partners, in the educational process.

MASSACHUSETTS TEST FOR EDUCATOR LICENSURE Annual Institution Report • Program Year 2004-2005 Eastern Nazarene College

Test Field/Category	Institution			Statewide
	Number Tested	Number Passed	Pass Rate	Pass Rate
Basic Skills				
Comm Lit Reading	39	37	95%	100%
Comm Lit Writing	37	33	89%	99%
Aggregate	39	35	90%	99%
Academic Content Areas				
013 Biology	2	-	-	100%
002 Early Childhood	6	-	-	97%
007 English	7	-	-	99%
090 Found. Of Reading	14	11	79	98%
003 General Curriculum	8	-	-	99%
010 General Science	1	-	-	100%
006 History	3	-	-	99%
009 Mathematics	1	-	-	98%
016 Music	1	-	-	100%
022 Physical Education	2	-	-	99%
Aggregate	44	40	91%	98%

Other Content Areas:

019 Business	2	-	-	100%
Aggregate	2			100%
Teaching Special Populations				
025 Moderate Disabilities	2	-	-	100%
Summary Totals Pass Rate	39	33	85	97%

EDUCATION COURSE DESCRIPTIONS

EC325 Early Childhood Curriculum and Methodology I (3 cr) An overview of philosophy, approaches to teaching young children, technology, special needs, classroom management and practical materials designed for the developmental curriculum in the following areas: sensory experiences, language arts and the humanities (including social studies and the expressive arts). There are 25 pre-practicum clock hours to complete for this course. *Prerequisite: Junior or Senior in good standing in Teacher Education Program.*

EC330 Early Childhood Curriculum and Methodology II (3 cr) Examines effective methods of curriculum implementation, considering cultural and special needs, combined with developmental learning and ways to prepare a supportive physical environment. This course will feature the following areas of curriculum: the natural sciences (including science, health and mathematics), motor development and parent and community involvement. The student will design an integrated curriculum unit and resource kit. There are 25 pre-practicum clock hours to complete for this course. *Prerequisite: Junior or Senior and in good standing in Teacher Education Program.*

EC399 Preschool-Kindergarten Associate Degree Practicum (6 cr) Observing, assisting, and teaching within a preschool setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all early childhood Associate Degree majors for licensure (Office for Children). The classroom will include regular students as well as special needs students.

EC499k Preschool/Kindergarten Practicums (6 cr each) Observing, assisting, and teaching within a preschool setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all early childhood majors for licensure. The classroom will include regular students as well as special needs students. *Prerequisites: ED210, ED310, RE441, SN420, SN311, ED243, EC325, EC330, a cumulative GPA of 2.5, approval of Teacher Education Faculty Committee., pass all appropriate MTEL tests.*

EC499e Grades 1-2 Practicum (6 cr) Observing, assisting, and teaching within a first through second grade setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all early childhood majors for licensure. The classroom will include regular students as well as special needs students. *Prerequisites: ED210, ED310, RE441, SN311, SN420, ED243, EC325, EC330, a cumulative GPA of 2.5, approval of teacher education faculty, pass all appropriate MTEL tests.*

ED210 Philosophy and Social Foundations of Education (3 cr) An introductory course offering insights into historical, sociological, psychological, philosophical and methodological foundations at all levels of education. Opportunity is provided for students to explore the field of education and to provide guidance to those choosing teaching as a vocation.

ED243 Educational Technology (3 cr) Includes an overview of the applications of the technology in the classroom. Students will review, evaluate, and produce educational software including videos, slide presentations, transparencies and photo essays for use in small group, class, and individual instruction. Emphasis will be placed on integrating

instructional software, including compact disks, word processing, and multimedia computer programs into the curriculum. There is also a study of innovative programs using technology, such as distance learning and telecommunications, in the classroom. There are 25 pre-practicum hours to complete for this course. *Prerequisites: ED210 and ED310.*

ED310 Education Psychology and Measurement (3 cr) A review of human development in a psychological context, followed by a concentration on learning theories and evaluation strategies. The aim is to help each student to arrive at a consistent systematic position in applying psychology to the educational setting. There are 25 pre-practicum clock hours to complete this course. *Prerequisites: ED210 and PS240.*

ED320 Classroom Management (3 cr) Directed toward approaches that the teacher should be knowledgeable about and able to use in a classroom setting. A major emphasis will be directed toward behavior modification and other methods which should be appropriate in a self-contained and regular education classroom and instructional settings. Emphasis will be placed on the inclusion of all students within the classroom to enhance individual self. *Prerequisites: SN311, Junior or Senior in good standing in Teacher Education Program.*

ED462 Reading in Content Area (3 cr) Designed to develop skills that will enable the teacher to facilitate the student's reading of content area material. Significant research will be reviewed and projects developed to provide the future teacher with practical applications of the findings. Attention will be given to all areas of the curriculum to be correlated with reading instruction. This course is required for middle school and secondary education. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior in good standing in Teacher Education Program. Cross-listed as RE462.*

ED495 Independent Research in Education (cr var) Individual research under the guidance of faculty on special interests, concerns, problems, remediations, or questions. Assigned and suggested readings will be required; field experience(s) may be required; frequent conferences will be conducted. *Prerequisite: Permission of instructor.*

ED499z Practicum Seminar: Student Teaching Seminar (2 cr) Two-credit seminar for student teachers who have not had any previous teaching experience. It is designed as a supportive component of the student teaching experience. The following is a list of possible topics to be covered: licensure application process, credential files, discipline, classroom management, interviewing, and relationships with cooperating teachers. The structure of the course also allows for student generated topics for discussion. This course begins one month after the start of the practicum. This course must be taken to be considered a program completer. *Prerequisite: Passing score on the content exam of the Massachusetts Test for Educator Licensure (MTEL).*

EL325 Elementary Curriculum and Methods I (3 cr) Develops competency in instructing language arts and the humanities (including social studies and expressive arts); general teaching-learning strategies; basic elements in curriculum design; classroom management; mainstreaming; and their application to elementary school children, including those with special needs. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior in good standing in Teacher Education Program.*

EL330 Elementary Curriculum and Methods II (3 cr) Develops competency in instructing in the natural sciences (including mathematics, science and health); general teaching-learning strategies; basic elements in curriculum design; classroom management; mainstreaming and their application to elementary school children including those with special needs. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior in good standing in Teacher Education Program.*

EL499 Practicum in Elementary Education (12 cr) Observing, assisting, and teaching within an elementary school setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all elementary education majors for licensure. The classroom will include regular students as well as special needs students. *Prerequisites: ED210, ED310, RE441, SN311, SN420, ED243, EL325, EL330, a cumulative GPA of 2.5, approval of teacher education faculty, pass all appropriate MTEL tests.*

MS420 Curriculum and Methods of Middle School Education (3 cr) Emphasizes various plans and methods for the motivation and direction of learning in the middle school content areas. Opportunity is given to study and apply the particular major content to the classroom. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior in good standing in the Teacher Education Program.*

MS499 Middle School Subject Area Practicum (12 cr) Observing, assisting, and teaching within a middle school setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all middle school education majors for licensure. The classroom will include regular students as well as special needs students. *Prerequisites: ED210, ED310, SN311, SN420, PS343, ED243, RE462, MS420, a cumulative GPA of 2.5, approval of teacher education faculty, pass all appropriate MTEL tests.*

RE441 The Teaching of Reading and Children's Literature (3 cr) The teaching of the modern methods and techniques of reading in all the elementary school grades, with emphasis on readiness and the developmental stages of reading, as well as a focus on classroom strategies. The use of literature in the reading program, adaptation for the special student, assessment, readiness, and developmental stages of reading are some of the topics covered in the class. There are 25 pre-practicum hours to complete for this course. This course is required for early childhood, elementary education, and Teachers of Students with Moderate Disabilities. *Prerequisite: Senior in good standing in the Teacher Education Program.*

RE462 Reading in the Content Area (3 cr) Designed to develop skills that will enable the teacher to facilitate the student's reading of content area material. Significant research will be reviewed and projects developed to provide the future teacher with practical applications of the findings. Attention will be given to all areas of the curriculum to be correlated with reading instruction. This course is required for middle school and secondary education. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior and in good standing in Teacher Education Program. Cross-listed with ED462.*

SE420 General Curriculum and Methods of Secondary Education (3 cr) Emphasizes various plans and methods for the motivation and direction of learning in the secondary school. Opportunity is given to study and apply the particular major content to the classroom. There are 25 pre-practicum hours to complete for this course. *Prerequisite: Junior or Senior in good standing in Teacher Education Program.*

SE499 Practicum in Secondary Education (12 cr) Observing, assisting and teaching within a secondary school setting under the direction of a supervising practitioner and supervised by a college supervisor. This practicum is required of all secondary education majors for licensure. The classroom will include regular students as well as special needs students. *Prerequisites: ED210, ED310, SN311, ED243, RE462, SE420, SN420, a cumulative GPA of 2.5, approval of teacher education faculty, pass all appropriate MTEL tests.*

SN311 Human Exceptionalities (3 cr) An introductory course in special needs, which is designed to provide a basis for further study in the area. Students will develop competencies in the following: (1) psychological characteristics of children with special

needs, (2) behavioral characteristics of children with special needs, (3) techniques used to diagnose and remediate special needs, and (4) current special needs legislation (state and national). There are 25 pre-practicum hours to complete for this course.

Prerequisites: ED210, ED310, Junior standing.

SN325 Special Education Curriculum and Methods I (3 cr) This course will focus on various methodologies in teaching all types of special needs students. The content for language arts, the humanities, social studies, and the arts are explored, with an emphasis on matching the teaching style of the teacher to the learning styles of the student. An emphasis on both corrective and functional techniques will be included, as well as the development of appropriate materials. There are 25 pre-practicum hours to complete for the course. *Prerequisites: SN311 and Junior or Senior in good standing in Teacher Education Program.*

SN330 Curriculum and Methods Elementary Special Needs II (3 cr) This course will focus on various methodologies in teaching all types of special needs students in the natural sciences (including mathematics, science and health) in the elementary setting. Emphasis will include remediation techniques that can be varied to meet differing teaming styles using a variety of teaching styles. Techniques of evaluation, teaching and instructional materials with diverse populations will be included. There are 25 pre-Practicum hours to complete for the course. *Prerequisites: SN311 and Junior or Senior in good standing in Teacher Education Program.*

SN335 Curriculum and Methods Secondary Special Needs II (3 cr) This course will focus on various methodologies in teaching all types of special needs students in the natural sciences (including mathematics, science and health) in the secondary setting. Emphasis will include techniques that can be varied to meet differing learning styles and application of knowledge to real life situations in becoming a positive functioning member of society. Techniques of evaluation, teaching and instructional materials with diverse populations will be included. There are 25 pre-Practicum hours to complete the course. *Prerequisites: SN311 and Junior or Senior in good standing in Teacher Education Program.*

SN420 Psychological and Educational Assessment (3 cr) Traditional psychological and educational assessment techniques examined. Special attention will be given to practical assessment tactics versus theoretical treatment and how this assessment applies to children with special needs. Opportunity will be given to students to practice administration of selected test batteries. *Prerequisites: SN311 and Junior or Senior in good standing in Teacher Education Program.*

SN499e Practicum Teacher of Students with Moderate Disabilities (Pre K-8) (12 cr) The student will spend at least 12 weeks (300 clock hours) in an inclusive general education setting or 75 hours in an inclusive general education setting and 225 hours in a separate or substantially separate setting for students with moderate disabilities. Local school districts cooperate by providing experiences in resource rooms and other special facilities. The student is expected to demonstrate competence as a teacher of students identified as having moderate disabilities. Supervision will be provided by the supervising practitioner, the college supervisor, and school district administrators. *Prerequisites: ED210, ED310, SN311, ED243, ED320, SN325, SN335, RE441, SN420, a cumulative GPA of 2.5, and approval of teacher education faculty, pass all appropriate MTEL tests.*

SN499s Practicum Teacher of Students with Moderate Disabilities (5-12) (12 cr) The student will spend at least 12 weeks (300 clock hours) in an inclusive general education setting or 150 hours in an inclusive general education setting and 150 hours in a separate or substantially separate setting for students with moderate disabilities. Local school districts cooperate by providing experiences in resource rooms and other special facilities. The student is expected to demonstrate competence as a teacher of

students identified as having moderate special needs. Supervision will be provided by the supervising practitioner, the college supervisor, and school district administrators. *Prerequisites: ED210, ED310, SN311, ED243, ED320, SN325, SN330 or SN335, RE441, SN420, a cumulative GPA of 2.5, approval of teacher education faculty, pass all appropriate MTEL tests.*

Engineering Department

Division of Natural Sciences

Dr. Randy Fish, Professor

Paul Nyce, Assistant Professor (Chair)

DEPARTMENT OBJECTIVES

1. To enable the student to see engineering in its proper perspective relative to all endeavors of mankind.
2. To enable the student to develop an understanding of the physical laws and mathematical techniques that are basic to the broad fields of modern engineering.
3. To give the student a strong background with a focus on engineering design and problem solving.
4. To prepare the student adequately in engineering for any position demanding a baccalaureate degree in this area.
5. To develop the enthusiasm and the requisite techniques demanded for the continued study of engineering on the graduate level.
6. To give the student a strong engineering background within the framework of a Christian liberal arts setting.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Electrical Engineering; Computer Engineering; General Engineering*

Bachelor of Arts: *Engineering Studies*

Minor: *Engineering - 15 credits in courses beginning with EG*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 56 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 9 credits

Required: PY201/PY201L General Physics I and Lab, 5 credits

Required: MA151 Calculus I, 4 credits

Social Science, 3 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high

school language.)

Cultural Perspectives Requirements, 18 credits

COMPUTER ENGINEERING (BS) REQUIREMENTS

- Fulfill all General Degree Requirements - see below
- Fulfill all General Education Requirements - see p. 12

Computer Engineering Core (all required) minimum grade C-, 33 credits

CS131 Computer Programming I	3
CS132 Computer Programming II	3
CS221 Data Structures	3
CS225 Design and Analysis of Algorithms	3
EG161 Introduction to Robotics w/Lab	4
EG232/EG232L Digital Logic w/Lab	4
EG272 Circuit Theory	3
EG321 Electronics	3
EG351/EG351L Microcomputer Interfacing w/Lab	4
EG451 Senior Design Project	3

Engineering or Computer Science above 300 level (choose one) minimum grade C-, 3 credits

- Choose any CS/EG 300 or 400 level course - see course descriptions under Computer Science Department or below

Computer Science Elective (choose one) minimum grade C-, 3 credits

CS322 Database Systems	3
CS331 Operating Systems	3

Cognate Requirements (all required) 14 credits

MA152 Calculus II	4
MA171 Introduction to Discrete Math	3
MA252 Probability and Statistics	3
PY202/PY202L General Physics II w/Lab	4

ELECTRICAL ENGINEERING (BS) REQUIREMENTS

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements (choose only one Social Science Course, 3 credits, and only one Intercultural Literacy Course, 3 credits) - see above

Analog Sequence (all required) minimum grade C-, 16 credits

EG272 Circuit Theory	3
EG321 Electronics	3
EG332L Applied Electric Circuits	3
EG401 Signals and Systems	3
PY322/PY322L Electricity and Magnetism w/Lab	4

Digital Sequence (all required) minimum grade C-, 12 credits

EG232/EG232L Digital Logic w/Lab	4
EG351/EG351L Microcomputer Interfacing w/Lab	4
EG412 Applied Digital Signals Processing	4

Systems/General Engineering Sequence (all required) minimum grade C-, 12 credits

EG161 Introduction to Robotics w/Lab	4
EG451 Senior Design Project	3
PY312/PY312L Applied Mechanics w/Lab	4

Programming Sequence (all required) minimum grade C-, 9 credits

CS131 Computer Programming I	3
CS132 Computer Programming II	3
EG452 Applied Programming	3

Cognates (all required) minimum grade C-, 23 credits

MA152 Calculus II	4
MA211 Calculus III	3
MA212 Differential Equations	3
PY202/PY202L General Physics II w/Lab	4
PY301/PY301L Modern Physics I w/Lab	4
PY322/PY322L Electricity and Magnetism I w/Lab	4

Math/Science Elective (choose one) 3 credits

Any Biology course level 300 or 400	3
Any Chemistry course level 300 or 400	3
Any Math course level 300 or 400	3
PY333 Modern Physics II	4
PY412 Statistical Thermodynamics	3
PY471 Intermediate Mechanics	3
PY472 Electromagnetic Theory	3

ENGINEERING STUDIES (BA) REQUIREMENTS

- Fulfill all General Degree Requirements - see below
- Fulfill all General Education Requirements (choose two Social Science courses, 6 credits, and two Intercultural Literacy courses, 6 credits) - see p. 12

Required Lab Science and Math, minimum grade C-

MA151 Calculus I	3
PY201/PY201L General Physics I w/Lab	5

Engineering Studies Core Requirements, minimum grade C-

CS131 Computer Programming I	3
EG161 Introduction to Robotics w/Lab	4
EG272 Circuit Theory	3
EG232/EG232L Digital Logic w/Lab	4
EG451 Senior Design Project	3

Engineering Elective (choose two) required credits 6, minimum grade C-

CS132 Computer Programming II	3
EG321 Electronics	3
EG351/EG351L Microcomputer Interfacing w/Lab	4

GENERAL ENGINEERING

The General Engineering degree is intended for those specializing in an engineering track requiring courses not offered at ENC. The specific engineering/mathematics/

physics courses, taken both at ENC and at a cooperating college, must be approved by the department in accordance with curriculum guidelines. In addition to these courses within the major, all General Engineering students must complete the Liberal Arts Core requirements, with the exceptions of one (instead of two) Social Science options and one (instead of two) Intercultural Literacy options.

ENGINEERING MINOR

- Students may choose 15 credits in Engineering. Engineering courses begin with EG. Students must complete all courses with a C- or higher.

ENGINEERING COURSE DESCRIPTIONS

EG161 Introduction to Robotics (3 cr) Introduces the field of engineering. The student designs and builds a computer-controlled robot. Topics include technical drawing using CAD, instrumentation, digital logic, machining skills, computer interfacing, and computer programming. Laboratory required.

EG161L Introduction to Robotics Lab (1 cr) Laboratory experience in the construction and programming of small robots. *Co-requisite: EG161.*

EG232/232L Digital Logic (3 cr) Introduction to hardware building blocks used in digital computers. This course covers basic gates, Boolean algebra, multiplexors, and arithmetic functions, combinatorial and sequential circuit synthesis, as well as flip-flops, counters, busses and registers. Different design techniques will be covered.

EG272 Circuit Theory (3 cr) Introduces electrical circuits including voltage, current relationships of circuit elements, energy concepts, Kirchhoff's circuit laws, mesh and nodal analysis, and equivalent sources. Also covers elementary transient circuit behavior and fundamentals of single-phase AC circuits. Laboratory required. *Co-requisite: PY202.*

EG321 Electronics (3 cr) Covers principles of diode and transistor circuits, device models and physics, equivalent circuits, graphical and analytical means of analysis, biasing, stabilization, amplifiers, frequency response, FETs, and operational amplifiers. *Prerequisites: EG272 and MA152.*

EG325 Introduction to Engineering Design (3 cr) An introduction to techniques in engineering design through work on a series of small projects drawn from various engineering disciplines. The course will include introduction to Schematic Capture software as well as circuit board fabrication and test. *Prerequisites: EG272 and EG321.*

EG332 Applied Electronic Circuits (3 cr) Please see the web site for a description. *Offered as needed.*

EG332L Applied Electronics Circuits (3 cr) Studies the practical elements of the analog electronics theory covered in EG272 and EG321. Includes use of analog instruments, and the fabrication and debug of practical transistor and OpAmp circuits. Reviews the theory of OpAmp circuits and necessary content concerning BJT transistors. *Prerequisite: EG272. Co-requisite: EG321.*

EG351/CS220 Microcomputer Interfacing (3 cr) Introduces the field of microcomputers. Topics include microcomputer organization and architecture, machine and assembly language programming, interrupts, serial interfacing, D/A and A/D interfacing. *Prerequisite: MA171. Cross-listed with CS220 Computer Science.*

EG351L/CS220L Microcomputer Interfacing Lab (1 cr) Laboratory experience in assembly, level programming, and debugging, as well as fabrication of microcomputer interfacing circuitry. Projects include human/computer interfacing, A/D conversion and serial communication. *Co-requisite: EG351/CS220.*

EG401 Signals and Systems (3 cr) Covers frequency domain analysis of signals and systems, filtering, sampling, and modulation, Laplace transforms, Z transforms, pole-zero plots, linear feedback systems, convolutions, linearity, time-invariance, causality, and stability of systems. *Prerequisites: MA212 and EG272.*

EG412 Applied Digital Signals Processing (4 cr) This course covers the analysis and processing of discrete-time signals. Topics include digitization of analog signals, sampling theory, the Z transform, digital filter design using both FIR and IIR, as well as spectral analysis using both the DFT and FFT. Extensive use is made of MatLab for practical implementation of the theory covered in lectures. *Prerequisite: EG401*

EG451 Senior Design Project (3 cr) A practical design course for seniors in engineering based on an assigned project. Students design and construct a project using a systems approach that involves all aspects of engineering. A departmental talk and typewritten report on the project is required. *Prerequisite: Senior standing or 20 credit hours of engineering sequence.*

EG452 Applied Programming (3 cr) Applies the basic programming skills acquired in CS131 and CS132 within the context of multi-week or semester long projects, such as the implementation of an automated speech recognition system. *Prerequisite: CS132.*

EG499 Independent Study (2 cr) Student may undertake a study in an area of interest with approval from department chair.

English Department

Division of Arts and Letters

Dr. Karen Henck (Chair), Assistant Professor

Dr. Marianna Krejci-Papa (Division Chair), Assistant Professor

Amy Carleton, Assistant Professor

Deborah Saitta-Ringger, Assistant Professor

DEPARTMENT OBJECTIVES

1. To enable students to think, write, and speak critically, clearly, and effectively.
2. To enable students to read with appreciation and discrimination.
3. To provide a broad acquaintance with the master works of literature as a basis for further reading.
4. To contribute to the total educational process of the student by considering the aesthetic, social, historical, philosophical, and religious values and levels of meaning in literature, and by correlating literature with other disciplines.
5. To acquaint students with methods of and critical approaches to literary study and research by a series of courses organized in a variety of ways: survey, genre, author, and theme.
6. To provide a basis for graduate study in English.
7. To provide preparation for teachers of English in elementary and secondary schools.
8. To prepare students for careers involving strong writing skills.
9. To broaden sympathy for the human experience by acquaintance with the literature of nations and cultures other than English and American.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Arts: *English - Literature Track and Writing Studies Track*

Minor: *English*

General Degree Requirements for All Majors in Department

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Oral Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements 54 total credits

See Page 13 for course options. All students are required to fulfill the following General Education requirements:

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

ENGLISH - LITERATURE TRACK (BA) REQUIREMENTS

Students in this major and track are prepared for careers in teaching, writing, editing/publishing, pre-law, graduate school, counseling programs, and business.

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Electives (English or other), 39 credits

English Core Requirements, minimum grade C-, 9 credits

EN201 Approaches to Literature 3

EN211 Introduction to Applied Linguistics 3

EN491-A Senior Thesis: Literary Criticism 3

Survey (choose one) minimum grade C-, 3 credits

EN221 American Literature I 3

EN222 American Literature II 3

EN223 British Literature I 3

EN224 British Literature II 3

EN225 British Literature III 3

Writing Course (choose one) minimum grade C-, 3 credits

EN215 Writing for the News Media 3

EN295 Media Adaptations of Literature 3

EN311 Advanced Writing 3

EN312 Creative Writing 3

EN314 Writing for the Professions 3

EN315 Feature Writing and Beat Reporting 3

EN362 Writing for Stage and Screen 3

EN411 Writing Children's Literature 3

EN414 Poetry Writing 3

EN416 Writing for Popular Markets 3

EN394 International Short- Short Story	3
EN495 Theory to Practice: Teaching Composition	3
EN498 Internship Public Relations	3

Period Literature Requirements (choose five, one from each period), 15 credits

British Literature: Pre-1700, (choose one) minimum grade C-, 3 credits

EN297 Milton	3
EN299 Seminar in Literature	3
EN332 Shakespeare	3
EN396 Seminar in European Renaissance	3
EN399 Seminar in Literature	3
EN412 Seminar: Medieval Literature	3
EN490 Major Authors in England	3

British Literature: 1790-1900 (choose one) minimum grade C-, 3 credits

EN223 British Literature I	3
EN224 British Literature II	3
EN296 Mystery Fiction and Film	3
EN299 Seminar in Literature	3
EN397 Seminar in Reading Autobiography	3
EN415 Seminar in Women's Literature	3
EN422 British Novels	3
EN475 Seminar in Women's Literature	3
EN490 Major Authors in England	3

British Literature: 1900 - Present (choose one) minimum grade C-, 3 credits

EN225 British Literature III	3
EN260 C.S. Lewis	3
EN299 Seminar in Literature	3
EN345 Social Dreaming: Seminar in Utopian Fiction	3
EN422 British Novels	3
EN399 Seminar in Literature	3

American Literature: Pre-1850 (choose one) minimum grade C-, 3 credits

EN221 American Literature I	3
EN299 Seminar in Literature	3
EN398 African-American Literature	3

American Literature: Post-1850 (choose one) minimum grade C-, 3 credits

EN222 American Literature II	
EN299 Seminar in Literature	3
EN298 Adolescent Literature New England Authors	3
EN398 African-American Literature	3
EN399 Seminar in Literature	3
EN421 American Novel	3
EN471 Seminar in American Poetry	3

ENGLISH - WRITING STUDIES TRACK (BA) REQUIREMENTS

Students in this major and track are prepared for careers in teaching, writing,

editing/publishing, pre-law, graduate school, counseling programs, and business.

- Fulfill all General Degree Requirements - see p. 131
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Electives (English or other), 39 credits

English Writing Studies Core, minimum grade C-, 9 credits

EN201 Approaches to Literature	3
EN211 Introduction to Applied Linguistics	3
EN491-B Senior Thesis: Writing	3

Creative Writing Elective (choose one) minimum grade C-, 3 credits

EN312 Creative Writing	3
EN317 Writing Autobiography	3
EN362 Writing for Stage and Screen	3
EN411 Writing Children's Literature	3
EN414 Poetry Writing	3

Journalism Elective (choose one) minimum grade C-, 3 credits

EN215 Writing for the News Media	3
EN315 Feature Writing and Beat Reporting	3

Professional Writing (choose one) minimum grade C-, 3 credits

EN295 Media Adaptation of Literature	3
EN311 Advanced Writing	3
EN314 Writing for the Professions	3
EN362 Writing for Stage and Screen	3
EN416 Writing for Popular Markets	3

Writing from Main Area of Interest (choose one) minimum grade C-, 3 credits

EN215/CO215 Writing for the News Media	3
EN310 Creative Writing	3
EN311 Advanced Writing	3
EN312 Creative Writing	3
EN313 Advanced Technical Writing	3
EN314 Writing for the Professions	3
EN315/CO315 Feature Writing and Beat Reporting	3
EN317 Writing Autobiography	3
EN362 Writing for Stage and Screen	3
EN394 International Short, Short Story	3
EN411 Writing Children's Literature	3
EN413 Advanced Technical Writing	3
EN414 Poetry Writing	3
EN416 Writing for Popular Markets	3

American Literature Elective (choose one) minimum grade C-, 3 credits

EN221 American Literature I	3
EN222 American Literature II	3
EN398 African-American Literature	3
EN421 American Novels	3
EN471 Seminar in American Poetry	3

British Literature Elective (choose one) minimum grade C-, 3 credits

EN223 British Literature I	3
EN224 British Literature II	3
EN225 British Literature III	3
EN260 C.S. Lewis	3
EN332 Shakespeare	3
EN397 Seminar in Reading Autobiography	3
EN422 British Novels	3
EN475 Seminar in Women's Literature	3

Theory to Practice Elective (choose one) minimum grade C-, 3 credits

EN488 Internship	3
EN494 Editing and Publishing	3
EN495 Theory to Practice	3
EN496 Internship Theory/Practice	3
EN497 Theory to Practice: Teaching Literature	3
EN498 Internship Public Relations	3
EN499 Seminar in Literature	3

ENGLISH MINOR

Student may choose 15 credits in courses with an EN prefix. Students must successfully complete courses with a C- or higher. *Note: Does not include EN103 and EN104.*

ENGLISH COURSE DESCRIPTIONS

CP240 World Literature (3 cr) Develops a true appreciation for Western world literature through an understanding of the great ideas that make up our common heritage of thought and feeling and the forms in which they have been expressed. *Prerequisites: Sophomore standing, EN103, EN104 and CP210 (at least concurrently).*

EN098 Writing for College (3 cr) Emphasizes the development of effective writing and thinking abilities through mastery of the skills recognized to be essential for academic discourse. A prerequisite to EN103 Critical Writing for students whose entrance tests indicate a need. This is a developmental class – credits do not count toward graduation.

EN099 Reading for College (3 cr) Emphasizes reading comprehension, vocabulary, and critical thinking skills. Develops the tools required to successfully master the demands of college work. This is a developmental class – credits do not count toward graduation.

EN103 Critical Writing (3 cr) Emphasizes critical thinking, summary, analysis, and synthesis of source material in the writing of student essays on cross-disciplinary topics. Several short documented essays and a research paper of 2500 words with proper documentation are required. The research process is an integral part of this course. *Prerequisite: EN098 Writing for College is required for students whose entrance tests indicate a weakness in this area.*

EN104 Rhetoric (3 cr) Examines classical rhetoric and its influence on the writing and presentation of an argument. Emphasizes how ideas and evidence are developed through written argumentation and oral debate. A final research paper is required. Can be taken as honors class, and students in the honors section critically evaluate argumentative strategies in challenging readings and develop creative ways of writing an effective argument in a series of papers culminating in a research paper. *Prerequisite: EN103 or equivalent.*

EN188 Internship: English (3 cr) Available internships include Journalism Center Internship, English Internship, Writing for the Web, and Professional Documentation.

EN201 Approaches to Literature (3 cr) Introduces students majoring in English to tools for reading, interpreting, and writing about selected works of literature with primary focus on the genres of poetry, short story, and the novel. *Prerequisites: EN103, EN104, CP240, or equivalent.*

EN211 Introduction to Applied Linguistics (3 cr) Concerns teaching the English language and includes a study of the history of the English language, semantics, syntax, phonetics, phonology, morphology, dialects, grammar (traditional, structural, transformational), and usage. Requires a final comparative linguistics project. *Prerequisites: EN103 and EN104.*

EN215/CO215 Writing for News Media (3 cr) Introduces the fundamental aspects of broadcast and print journalism, focusing on the processes involved in producing the print media. *Prerequisites: EN103 and EN104. Cross-listed as CO215. Offered in alternate years.*

EN221, EN222 American Literature I and II (3 cr each) American Literature I covers significant writers and their works up to 1850. The second course, American Literature II, covers 1850 to the present. Lectures, readings, review, and discussion are the modes of instruction. *Prerequisite: CP240. Offered in alternate years.*

EN223, EN224, EN225 British Literature I, II, and III (3 cr each) Surveys literature of the British Isles from Beowulf to Swift and Johnson (British Literature I), major writers of the nineteenth century (British Literature II), and major writers of the twentieth century (British Literature III). *Prerequisite: CP240. Offered in alternate years.*

EN240 English Travel Seminar (3 cr) Designed to allow students to study literary and writing topics in conjunction with travel. Travel destinations and topics will vary. Counts as an elective within the English major.

EN260 C.S. Lewis (3 cr) Introduces the fiction and apologetics of C.S. Lewis and engages an understanding of the interrelationship between his theology and the works of his imagination.

EN288 Internship: English (3 cr) Available internships include Journalism Center Internship, English Internship, Writing for the Web, and Professional Documentation.

EN295 Media Adaptations of Literature (3 cr) Studies the way stories travel from one literary genre to the next, and from literary genres to other forms of entertainment, primarily films, but also ballets, musicals, operas, comics, cartoons, advertisements, and popular songs. Examines the ways canonical literature informs and inspires popular culture. Studies formats of writing for the screen and how to read, analyze, and write them. Offers understanding of how stories in any medium help us reflect on ourselves, our world, and our spiritual journeys.

EN296 Mystery Fiction and Film (3 cr) Introduces students to the mystery fiction genre in prose and film traditions and considers each work within the literary and historical contexts which influenced its development.

EN297 Milton (3 cr) A survey of the prose and poetry authored by the seventeenth-century writer John Milton. Participants will investigate the main problems and contemporary theories informing criticism of his work. Fulfills the Brit Lit pre-1790 requirement. *Prerequisite: CP240.*

EN298 Adolescent Literature: New England Authors (3 cr) Designed for both the literature major and the secondary education classroom teacher, this class provides an overview of the New England contributions to adolescent literature. Authors vary but may include Louisa May Alcott, Robert Cormier, and Twain. Satisfies the American Literature Post-1850 requirement. *Prerequisite: CP240.*

EN311 Advanced Writing (3 cr) Combines a workshop format with a directed study format with the instructor. Students contract with the instructor for personalized assignments, texts, and mode(s) of writing. *Prerequisites: EN103 and EN104.*

EN312 Creative Writing (3 cr) Focuses on the techniques of writing fiction and poetry. Individualized apprentice training is offered in a workshop milieu. *Prerequisites: EN103 and EN104.*

EN314 Writing for the Professions (3 cr) Designed as an individualized and relevant professional writing experience pertaining to the technical field or professional interest of the student. This workshop/course culminates with activities that result in producing a researched report and a portfolio. *Prerequisites: EN103, EN104.*

EN315/CO315 Feature Writing and Beat Reporting (3 cr) This course serves students in all tracks of the Communication Arts and English majors, although it is especially designed for the needs of journalism and writing track students. Students receive background in the understanding of beat reporting, the management of beat coverage, and the research, construction, and development of feature stories. *Prerequisites: EN103, EN104. Cross-listed as CO315.*

EN317 Writing Autobiography (3 cr) Develops students' skills in life writing in conjunction with a study of how other published autobiographers structure and shape their text. *Prerequisites: EN103 and EN104.*

EN332 Shakespeare (3 cr) Surveys Shakespeare's dramas, including histories, comedies, tragedies, and romances. Covers major plays as well as some lesser-known works. Investigates the main problems and contemporary theories of interpretation of Shakespeare. Satisfies British Literature pre-1700 requirement. *Prerequisite: CP240. Offered in alternate years.*

EN345 Social Dreaming: Seminar in Utopian and Dystopian Fiction (3 cr) After first becoming familiar with the history of utopian literature, students explore the concept of utopia and its opposite as represented in fiction from the nineteenth and twentieth centuries. The course gives particular attention to the social philosophies that inform particular utopian and dystopian images. It also considers the debt each vision owes to the structure and shape of the society that imagined it. Authors studied include Plato, Thomas More, Edward Bellamy, George Orwell, and Margaret Atwood. Fulfills requirement for British Literature 20th Century. *Prerequisite: CP240.*

EN362/CO362 Writing for Stage and Screen (3 cr) Studies practical application of techniques, styles, and conventions of writing for stage and screen. *Prerequisites: EN103 and EN104. Offered in alternate years.*

EN388 Internship: English (3 cr) Available internships include Journalism Center Internship, English Internship, Writing for the Web, and Professional Documentation.

EN394 International Short-Short Story (3 cr) Students in this course focus on the form and development of particular short stories. Topics include ancient and medieval story structures such as the fable and the fabliaux, as well as a review of the more contemporary examples of flash or 55 fiction. Some creative writing may also be required. Counts as an elective within the English major.

EN396 Seminar in European Renaissance (3 cr) This course provides a discussion-based approach to major authors and works of the European Renaissance. Roughly chronological, it focuses on how these authors and works show the spirit of the age as a pivot point between the medieval and modern worlds. Discussions will be interdisciplinary, but also address the impact of a particular work on British literary tradition. Fulfills the requirement for British Literature, pre-1790. *Prerequisite: CP240.*

EN397 Seminar in Reading Autobiography (3 cr) This course explores a variety of autobiographical forms of writing, including the confession, the memoir, journal and diary entries, and the literary autobiography. While including texts from America and Europe, this course has its greatest emphasis on literature written in English from the British Isles of the nineteenth and twentieth centuries. It may satisfy the requirement for either British Literature Pre-1900 or British Literature 20th Century. *Prerequisite: CP240.*

EN398 African-American Literature (3 cr) This course focuses on the reading of prose, fiction, poetry, and drama produced by African-American writers, with the aim of increased understanding of the styles and attitudes of these writers within the particular culture and historical moment which produced them. It satisfies either the American Literature post-1850 requirement in the English major or one of the general education intercultural literacy requirements. *Prerequisite: CP240.*

EN411 Writing Children's Literature (3 cr) This course focuses on the reading and writing of literature for children. It exposes students to a range of possible styles of literature for children and provides them with the opportunity to apply such techniques to their own story-telling projects. *Prerequisite: EN103, EN104.*

EN412 Seminar: Medieval Literature (3 cr) Students in this course approach the literature of the Middle Ages through the careful study of three foundational authors and texts, including Chaucer's *Canterbury Tales* and the sources for this work. Fulfills the requirement for British Literature, Pre-1790. *Prerequisite: CP240.*

EN414 Poetry Writing (3 cr) Intended primarily for students serious about developing themselves as poets, this course requires students to analyze the poetry of published poets and classmates while striving to cultivate their individual poetic voices. *Prerequisites: EN103, EN104.*

EN416 Writing for Popular Market (3 cr) Covers the areas of non-fiction writing that freelance writers may encounter throughout their careers: science, the environment and energy, medicine and health, the women's market, etc. *Prerequisites: EN103 and EN104.*

EN420 Great Novels (3 cr) Students in this course read and analyze the tradition of the novel genre as written in English and as translated into English from other novel traditions of the East and West. Authors may include Twain, Austen, Cervantes, Dostoevsky, Marquez, Naipaul, and Endo. Counts as English elective. *Prerequisite: CP240.*

EN421 American Novels (3 cr) Offered in alternate years with British novels, this course traces the significant developments of novels in American literature from its beginnings to the present. Fulfills the requirement for American Literature, Post-1850. *Prerequisite: CP240.*

EN422 British Novels (3 cr) In this course, students study the significant developments in the novel tradition in British literature. Among others, authors may include Defoe, Austen, Dickens, the Brontës, George Eliot, and Virginia Woolf. Fulfills the requirement for either British Literature 1790-1900 or British Literature 20th Century. *Prerequisite: CP240.*

EN471 Seminar in Modern American Poetry (3 cr) This course focuses on two aspects of modern American poetry important to the overall critique of modernism: responses to loss and liberation. Students will consider both texts and their cultural contexts and attempt to plot the course of high and low modernism collectively. Fulfills the requirement for American Literature, Post-1850. *Prerequisite: CP240.*

EN474 Classic Roman Literature (3 cr) Taught annually as a travel course to Rome, this course studies selected classical Roman authors while also exposing students to Italian culture and geography. *Prerequisite: CP240.*

EN475 Seminar in Women's Literature (3 cr) This course introduces students to the work of female writers of Great Britain from the 19th and 20th centuries and considers the work of these writers in relation to the history, culture, politics and literary movements of their times. It also considers these women writers in relation to each other in order to understand the contributions each made to the development of a female public voice. Fulfills either the requirement for British Literature, 1790-1900, or British Literature, 20th Century. *Prerequisite: CP240.*

EN488 Internship: English (3 cr) Available internships include Journalism Center Internship, English Internship, Writing for the Web, and Professional Documentation.

EN489 Independent Study (cr var) Option for independent study in a topic of interest. *Prerequisite: Junior standing. Offered as needed.*

EN490 Major Authors in England (3 cr) Designed as a travel course in which the students experience the culture, history, and geography of Britain and enrich their understanding of a major British literary figure. *Prerequisite: CP240.*

EN491A Senior Thesis: Literary Criticism (3 cr) Surveys critical theories correlating and supplementing the work done in previous courses. Includes reading of literary journals and introduces scholarly research techniques. In addition, students propose, develop, and revise scholarly and senior theses. *Required for majors in the literature track. Prerequisite: Senior standing.*

EN491B Senior Thesis: Creative Writing (3 cr) Students study approaches to and processes of creative writing and develop culminating creative writing project in a workshop setting designed to provide essential feedback and support of the creative writer. *Required for majors in the creative writing studies track. Prerequisite: Senior standing.*

EN495 Theory to Practice: Teaching Composition (3 cr) Students observe and practice the critical strategies for the teaching of writing to college freshman. Gives opportunities for participants to assist in presenting material, guiding the writing process, and learning how to evaluate writing skills. *Prerequisites: Permission of the department chair and strong standing in previous writing classes.*

EN496 Internship (cr var) Students arrange for EN496 credit through the college's Praxis office. Possibilities include interning as an editor or writer for a college or off-campus publication, as well as work in public relations or journalism. Student work includes documenting the internship for the department. *Prerequisites: CP240, EN103, and EN104.*

EN497 Theory to Practice: Teaching Literature (3 cr) Students observe and assist in the teaching of sophomore level literature courses. Students also work with small group and individual tutorials. *Prerequisite: Permission of the department chair.*

Environmental Science

Division of Natural Sciences

Dr. Matthew Waterman, Associate Professor

Dr. J. Philip McLaren, Professor

Jonathan Twining, Assistant Professor

DEPARTMENT OBJECTIVES

1. To provide an opportunity for the student to become familiar with the principal phenomena of life and to foster the continuous development of understanding and proficiency in the biological sciences.
2. To provide training in molecular, cellular, organismal, ecological, and environmental Biology and to assist the student in the application of the knowledge acquired in collateral preparation in Chemistry, Mathematics, and Physics.
3. To encourage an understanding and appreciation of inquiry and its practice as the process underlying the logic of Biology and its ancillary sciences; to help the student learn some of the major methods and skills involved, including evaluation and relevance.
4. To provide training and technical background for the students having Biology prerequisites for professional preparation.
5. To prepare the student for graduate study in science: the health professions,

and/or careers in Biology, including teaching, technology, public service, and research.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Environmental Science*

Minor: *Environmental Science*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see p. 12 for specific course options
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

ENVIRONMENTAL SCIENCE (BS) REQUIREMENTS

General Education Core Requirements

BL110 Biblical History and Literature	3
EN103 Critical Writing	3
EN104 Rhetoric	3
TH300 Christian Tradition	3

General Education Core Speech Requirement 3 credits

CO110 Fundamentals of Speech	3
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General Education Physical Education Activities, required credits 2

PE001 or PE002, PE222

Social Science Requirement, 3 credits

See options below when choosing cognates. (*)

Intercultural Literacy (choose one course) 3 credits

See options below when choosing cognates. (**)

Math Requirement

MA118 Introduction to Statistics	3
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General Education Cultural Perspectives (all required)

CP210 Western Heritage	3
CP230 Arts and Music	3
CP240 World Literature	3
CP295 Philosophical Quest	3
CP320 EMES	3
CP410 Living Issues	3

Environmental Science Core (all required)

BI104 Introduction to Ecology and Diversity	3
BI104L Introduction to Ecology and Diversity Lab	1
BI105 Introduction to Plants and Animals	3
BI105L Introduction to Plants and Animals Lab	1
BI343 Field Problems in Ecology	3
BI343L Field Problems in Ecology Lab	2
BI480 Conservation Biology	3
BI480L Conservation Biology Lab	3

CH103 General Chemistry I	3
CH103L General Chemistry I Lab	1
CH104 General Chemistry II	3
CH104L General Chemistry II Lab	1
EV201 Environmental Science	3
EV201L Environmental Science Lab	1
EV310 Environmental Ethics and Policy	3
EV331 Topics in Environmental Science	3
EV331L Topics in Environmental Science	3
EV490 Senior Seminar	2
EV499 Research in Environmental Science	3

Environmental Science Cognate (choose four) required credits 12

BA212 Principles of Management	3
BA231 Principles of Economics I Micro*	3
BA232 Principles of Economics II Macro*	3
CS110 Principles of Information Systems	3
GO210 American Political Institutions*	3
GO220 World Political Geography*	3
IN210 Peoples and Cultures of the World**	3
PY210 General Physics	4
PY201L General Physics Lab	1
PY202 General Physics II	4
PY202L General Physics II Lab	1
SO311 Social Problems*	3

**Fulfills social science requirement.*

***Fulfills intercultural literacy requirement.*

Environmental Science Electives, required credits 18, minimum grade C-

BI103 Introduction to Cell Biology and Genetics	3
BI103L Introduction to Cell Biology and Genetics Lab	1
BI212 Genetics	3
BI213 Genetics Lab	3
BI275 Freshwater Biology	3
BI280 Marine Biology	3
BI285 Aquatic Biology Lab	3
BI352 Microbiology	3
BI352L Microbiology Lab	2
CH102 Chemistry of Life	3
CH102L Chemistry of Life Lab	1
CH231 Analytical Chemistry	3
CH231L Analytical Chemistry Lab	2
CH321 Organic Chemistry I	4
CH321L Organic Chemistry I Lab	2
CH322 Organic Chemistry II	3
CH322L Organic Chemistry II Lab	2
CH431 Instrumental Analysis	3

Environmental Internship, required credits 0, minimum grade S

EV388/EV488 Internships in Environmental Science

ENVIRONMENTAL SCIENCE COURSE DESCRIPTIONS

EV201 Environmental Science (3 cr) This introductory course covers principles of environmental science, the study of how humans interact with the creation. The course includes topics such as human population growth, extinction and loss of biodiversity, air and water pollution, global climate change, food and water security, waste management, energy and water conservation, and sustainable development. Emphasis will be placed on understanding our Christian response to these concerns as caretakers of the earth. *Prerequisite: BI104. Co-requisite: EV201L.*

EV201L Environmental Science Lab (1 cr) This laboratory will engage the students in experimentation to understand such environmental issues such as Geographic Information Systems (GIS), acid precipitation, alternative energy sources, composting and landfill design, groundwater contamination and remediation, land conservation, and cleanup of oil spills. *Prerequisite: BI104L. Co-requisite: EV201.*

EV310 Environmental Ethics and Policy (3 cr) A discussion course that introduces the student to the variety of ethical approaches taken with regard to environmental issues, including creation care, stewardship, biocentrism, ecocentrism, ecofeminism, the land ethic, and deep ecology. Students will also look at environmental policies that arise out of these various approaches to environmental ethics. *Prerequisite: Junior standing or permission of the instructor.*

EV331/EV331L Topics in Environmental Science (6 cr) Discussion of one or more current topics related to the fields of ecology and environmental science. Possible topics might include global climate change, forest ecology, water resources and sustainable development. *Prerequisite: Permission of the instructor.*

EV388/EV488 Internships in Environmental Science

EV390 Junior Seminar in Environmental Science (2 cr) Teaches critical analysis of primary journal articles and seminars. Other topics include career planning and social and ethical problems in Environmental Science.

EV490 Senior Seminar in Environmental Science (2 cr) Teaches critical analysis of primary journal articles and seminars. Requires an extensive research project and presentation before the Division of Natural Sciences and Mathematics. Other topics include career planning and social and ethical problems in environmental science. Required of all majors. *Prerequisite: Senior standing.*

EV499 Independent Study/Research (cr var) Includes individual work under staff supervision for well-qualified upperclassmen. A written report with an oral summary and review before two or more faculty members is required. Total credit hours for two semesters should not exceed the maximum allowed for fulfilling degree requirements. *Prerequisite: An outline of the proposed work, consent of the supervising staff member, and approval by the department chair.*

Forensic Science

Division of Natural Sciences

DEGREES OFFERED

Bachelor of Science: *Forensic Science*

Minor: *Forensic Science*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see p. 12 for specific course options
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

FORENSIC SCIENCE (BS) DEGREE REQUIREMENTS

The Bachelor of Science in Forensic Science is appropriate for the student interested in criminalistics, laboratory technician or graduate study in the field of health professions.

General Education Core Requirements

BL110 Biblical History and Literature	3
EN103 Critical Writing	3
EN104 Rhetoric	3
TH300 Christian Tradition	3

General Education Core Speech Options, 3 credits

CO110 Fundamentals of Speech	3
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General Education Physical Education Activities, 2 credits

PE001 or PE002 Physical Education Activity for non-majors	.5-1 each
PE222 First Aid and CPR for non-majors	.5

Social Science Requirement, 3 credits

PS372 Abnormal Psychology	3
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Math Requirement, minimum grade C-, 4 credits

MA151 Calculus I	4
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Intercultural Literacy - choose one course, 3 credits

OR Language Requirement (Check student's Academic Information Report for high school language.)

Math Requirement

MA118 Introduction to Statistics	3
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General Education - Cultural Perspectives (all required)

CP210 Western Heritage	3
CP230 Arts and Music	3
CP240 World Literature	3
CP295 Philosophical Quest	3
CP320 EMES	3
CP410 Living Issues	3

FORENSIC SCIENCE CORE REQUIREMENTS, MINIMUM GRADE C-

BI103/BI103L Introduction to Cell Biology and Genetics w/Lab	4
BI105/BI105L Introduction to Plants and Animals w/Lab	4
BI390 Junior Seminar	2
BI490 Senior Seminar	2
BI492 Biochemistry I	3
CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4
CH231/CH231L Analytical Chemistry w/Lab	5
CH321/CH321L Organic Chemistry I w/Lab	6
CH322/CH322L Organic Chemistry II w/Lab	5
FS220/FS220L Forensic Science w/Lab	5

Criminal Justice requirement, 6 credits

CJ180 Introduction to Criminal Justice	3
CJ251 Criminology	3

Physics Requirement, 10 credits

PY201/PY201L General Physics I w/Lab	5
PY202/PY201L General Physics II w/Lab	5

Forensic Science Electives (choose any BI or CH course 200 level or above) minimum grade C-, 6 credits

General Science

Division of Natural Sciences

DEGREES OFFERED

Bachelor of Science: *General Science*

Bachelor of Arts: *General Science*

DIVISIONAL OBJECTIVES

1. To better understand the physical environment, including our role in it and responsibility to it, as God's stewards.
2. To develop appreciation for and enjoyment of the world and the universe.
3. To develop appreciation for the historical development of the natural sciences and to recognize the impact of the sciences on our worldview.
4. To develop a greater appreciation for the importance of skills in accurate observation, logical reasoning, and precise expression and to develop an objective attitude in scientific endeavors.
5. To increase understanding of the professional roles of scientists and mathematicians and to learn how they pursue knowledge.
6. To appreciate the complementary natures of mathematics and the natural sciences.
7. To foster an attitude of humility in the pursuit of science, recognizing that the scientific pursuits are part of the greater search for truth.
8. To develop techniques and specific skills in problem solving appropriate to each discipline.
9. To be able to communicate subject matter of the discipline to peers.

10. To prepare adequately for graduate study.
11. To obtain sufficient training for employment in biology, chemistry, computer science, mathematics, physics, engineering, and the fields related to the programs of the Division of Natural Sciences.

DEGREE REQUIREMENTS

The major in General Science is designed to meet the needs of students interested in technical writing, teaching at the elementary, middle school, or secondary level, entering careers that require a college degree but do not specify a subject area, or pursuing graduate programs that require a degree but do not specify a subject area (like law or business). It consists of a broad exposure to the sciences with some depth in one area.

Two degree programs are offered in General Science, the Bachelor of Science and Bachelor of Arts. By the nature of these two degree programs, the student should be aware that careful advising is necessary. In consultation with their advisor, students should choose the program most suited for their professional goals. In certain cases, it may be possible for a student to customize a program in General Science to meet specific career objectives. The basic requirement for such customized programs is that the BA or BS degree contain a level of breadth and depth that meets or exceeds that of the prescribed programs below.

The General Science program exposes students to a cross section of the fine equipment that supports the science program at ENC, from the fully networked computers to the well equipped laboratories in physics, chemistry, and biology.

GENERAL SCIENCE (BS) REQUIREMENTS

A total of 44 credit hours, in addition to the Liberal Arts Core Curriculum, is required for graduation. The laboratory science and math requirements in the Liberal Arts Core are waived for General Science majors. There is a comprehensive exam that must be taken in the senior year.

BI103/BI104 General Biology I and II

CH101/CH102 Introduction to General and Biological Chemistry I and II **OR**

CH103/CH104 General Chemistry I and II (recommended for some career objectives)

Two courses, MA118 or above: Introduction to Statistics, Pre-Calculus Math, Calculus I and Calculus II (also recommended for certain career objectives)

PY201-2 General Physics I and II

BI, CH, PY, GS499 or MA299 Independent Research/Project

Students must choose at least two courses above the introductory level in one department for a concentration in that discipline.

GENERAL SCIENCE (BA) REQUIREMENTS

A total of 32 credit hours, in addition to the Liberal Arts Core Curriculum, is required for graduation. There is a comprehensive exam that must be taken in the senior year.

BI101 Principles of Biology **OR**

BI103/BI104 General Biology I and II (requires 36 credit hours total)

BI210 Earth Science

BI241 Nutrition

CH101/CH102 Introduction to General and Biological Chemistry I and II **OR**
 CH103/CH104 General Chemistry I and II
 MA101, MA118, MA122 or MA151
 Introduction to Math (highly recommended for education majors) **OR**
 Introduction to Statistics or Pre-Calculus Math or Calculus I
 PY101 Astronomy
 BI, CH, PY, GS499 or MA299 Independent Research/Project

COURSE DESCRIPTION

GS420 Issues in Science and Religion (3 cr) Examines the conversation between science and religion from historical, philosophical, and contemporary perspectives. Topics in this course are approached in an exploratory and intellectually humble way. Effort will be made to identify, understand, and appreciate a diversity of viewpoints on science and religion. *Prerequisites: CP320 and six courses in the science division or permission of instructors.*

Other course descriptions are listed under appropriate departments.

General Studies

William Boozang, Instructor

DEGREE OFFERED

Associate of Arts: General Studies

GENERAL STUDIES (AA)

The Associate of Arts in General Studies requires the completion of 62 credit hours. All students must complete the following courses:

Liberal Arts Core Curriculum Requirements, 16 credits

EN103 Critical Writing	3
CO110 Fundamentals of Speech	3
BL110 Biblical History and Literature	3
EN104 Rhetoric	3
PE Physical Education requirement	1
CP210 Western Heritage	3

Cultural Perspectives - choose one course, 3 credits

CP230 Arts and Music	3
CP240 World Literature	3
CP295 Philosophical Quest	3

Social Science - choose one course, 3 credits

(Any in Psychology, Sociology, Criminal Justice, Business)

Math or Computer Science - choose one course, 3 credits

Laboratory Science course (lecture and/or lab)- choose one course, 4 credits

Arts and Letters - choose one course, 3 credits 3

(Any in Communication Arts, English, Music)

CC101 Freshman Seminar is recommended.

Course descriptions are listed under appropriate departments.

Government

Department of Social Sciences

Dr. James Cameron, Professor

Carla Lovett, Associate Professor

Sean Coleman, Adjunct Professor

GOVERNMENT MINOR

A student may minor in Government by taking GO210 plus four additional Government courses for a total of five courses (15 credit hours).

COURSE DESCRIPTIONS

GO210 American Political Institutions (3 cr) Analysis of the political institutions in the United States with the emphasis on function rather than structure. A careful examination of the prerequisites for, and benefits to be received from, our system of government, is the focus of this course.

GO220 World Political Geography (3 cr) A survey of the geographical regions of the world with emphasis upon the political, economic, and cultural aspects of geography.

GO320 Comparative Government (3 cr) Compares modern European political systems in Great Britain, France, The German Federal Republic, and Russia with that of the United States. An effort will be made to place politics and government institutions in their appropriate ideological, social, historical, international and economic settings.
Prerequisite: GO210.

GO371/HI371 The Conservative Imagination (3 cr) Explores the conservative imagination in political thought and culture with special focus on the various types of conservatism that emerged during the 20th century. *Prerequisite: GO210 or instructor's permission. Offered alternate years.*

GO372/HI372 The Liberal Imagination (3 cr) Explores the liberal imagination in political thought and culture with special focus on the various types of conservatism that emerged during the 20th century. *Prerequisite: GO210 or instructor's permission. Offered alternate years.*

GO452 Seminar in Law and Society (3 cr) Upper division seminar designed to introduce students to the public policy concerns and philosophical concepts which shape the law as it operates in American society. Students will acquire the basic tools with which to analyze contemporary legal events in their proper historical and cultural contexts. This course pays particular attention to the role of judicial review in the legal process and to the unique relationship between public morality and the American legal system.
Prerequisites: GO210 and permission of the instructor.

GO455 Seminar in Christianity and the Law (3 cr) A study of the rich relationship that exists between the Christian faith and the law. Special attention will be paid to Christian perspectives in various schools of legal thought (e.g., liberalism, legal realism, critical legal studies, feminism, and law and economics).

GO490 Independent Study (3 cr) A program of independent study; students with satisfactory academic records are encouraged to propose a program to the faculty.
Prerequisites: GO210 and permission of the instructor.

GO495 Internship/Praxis in Government (3 cr) Supervised observation and practice in government and/or political work, culminating in a paper that reflects and integrates the knowledge gained from involvement in an approved internship. *Prerequisites: GO210 and permission of the instructor.*

GO499 Special Topics in Government (3 cr) Applies to special courses in government or political science that are offered by members of the department or visiting scholars during the January term. *Prerequisite: GO210.*

Health Science

Division of Natural Sciences

Dr. Matthew Waterman (Chair), Associate Professor

Dr. Aaron Domina, Assistant Professor

Jonathan Twining, Assistant Professor

DEPARTMENTAL OBJECTIVES

1. To better the physical environment, including our role in it and responsibility to it, as God's stewards.
2. To develop appreciation for and enjoyment of the universe and the world.
3. To develop appreciation for the historical development of the natural sciences and to recognize the impact of the sciences on our worldview.
4. To develop a greater appreciation for the importance of skills in accurate observation, logical reasoning, precise expression, and an objective attitude in scientific endeavors.
5. To increase understanding of the professional roles of scientists and mathematicians and to learn how they pursue knowledge.
6. To appreciate the complementary natures of mathematics and the natural sciences.
7. To foster an attitude of humility in the pursuit of science, recognizing that the scientific pursuits are part of the greater search for truth.
8. To develop techniques and specific skills in problem solving appropriate to each discipline.
9. To be able to communicate subject matter of the discipline to peers.
10. To prepare adequately for graduate study.

DEGREE MAJORS AND TRACKS OFFERED

Bachelor of Science: *Health Science*

Bachelor of Arts: *Health Science*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Social Science, 3 credits for BS degree, 6 credit for BA degree

Intercultural Literacy Requirement, 3 credits for BS degree, 6 credit for BA degree

Language Requirement (Check student's Academic Information Report for high school language)

General Education Cultural Perspectives Requirements, 18 credits

HEALTH SCIENCE (BS) REQUIREMENTS, 60 CREDITS

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12

Health Science Core (all required) minimum grade C-, 20 credits

BI103/BI103L Introduction to Cell Biology and Genetics w/Lab	4
BI104/BI104L Introduction to Ecology and Diversity w/Lab	4
BI105/BI105L Introduction to Plants and Animals w/Lab	4
HS390 Junior Seminar	2
HS490 Senior Seminar (BS only)	2
HS499 Independent Research (BS only)	varies

Health Science Cognate, 10 credits

PY201/PY201L General Physics I w/Lab	5
PY202/PY202L General Physics II w/Lab	5

Chemistry Sequence (choose sequence 1 or 2) minimum grade C-, 8 credits

Chemistry Sequence 1

CH101/CH101L Introduction to Chemistry w/Lab	4
CH102/CH102L Introduction to Organic and Biochemistry w/Lab	4

Chemistry Sequence 2

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4

Biology/Chemistry electives (choose BI or CH courses 200 level or above; choose at least one course above 300 w/Lab) minimum grade C-, 16 credits

Math Requirements, 7 credits

MA118 Introduction to Statistics	3
MA151 Calculus I, minimum grade C-	4

HEALTH SCIENCE (BA) REQUIREMENTS - 33 CREDITS

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12
- Fulfill all Health Science Core Requirements - see above (except HS490 and 499)
- Fulfill Chemistry Sequence - see above, 8 credits

Biology/Chemistry electives (choose BI or CH courses 200 level or above), minimum grade C-, 12 credits

Math Requirement

Choose one math - MA101 or higher, 3 credits

HEALTH SCIENCE COURSE DESCRIPTIONS

HS390 Junior Seminar in Health Science (2 cr) Teaches critical analysis of primary journal articles and seminars. Other topics include career planning and social and ethical problems in biology. *Prerequisites: BI103, BI104, BI105 and Junior standing.*

HS490 Senior Seminar in Health Science (2 cr) Teaches critical analysis of primary journal articles and seminars. An extensive research project and presentation before the Division of Natural Sciences and Mathematics is required. Other topics include career planning and social and ethical problems in modern biology. Required of all majors. *Prerequisites: BI390 and Senior standing.*

HS499 Research in Health Science (cr var) Directed investigation of an individual research problem pertaining to a particular health field. The student, in consultation with the Health Science director, develops an outline of the project including a realistic timetable for completion of the project. The project may be carried out during either semester, or during the summer, with approval of the director. The project may be completed at other locations (i.e., a physical therapy clinic) under appropriate supervision. A formal written report must be turned in by the final day of classes for the course credit.

History Department

Division of Social Sciences

Dr. Donald A. Yerxa (Chair), Professor

Dr. James R. Cameron, Professor

Carla Lovett, Assistant Professor

Dr. Randall Stephens, Associate Professor

DEPARTMENTAL OBJECTIVES

1. To impart knowledge of the past by exposing students to the people, movements, and ideas that have made a major impact on the development of the West and the world.
2. To give students a breadth of background and depth of perception that will illuminate the liberal arts.
3. To expose students to the important schools of historical interpretation and to teach them to read and interpret history for themselves, thereby encouraging discussion and critical thinking about the past and the contemporary world.
4. To provide the essential skills and content to prepare students to teach history in secondary schools, to pursue studies in graduate or professional schools, or to enter a variety of careers.
5. To foster tolerance, understanding, and appreciation for the views of others and to encourage students to move beyond narrow provincialisms.
6. To encourage students to explore issues related to a Christian philosophy of history.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Arts: *History Education; History*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn a minimum 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.5 (3.0 for Honors Program)

General Education Requirements - 54 total credits

See Page 13 for course options, minimum grade D

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Social Science, 6 credits

Required: GO210 American Political Institutions, 3 credits
 Intercultural Requirements, 6 credits **OR**
 Language Requirement (Check student's Academic Information Report for high school language.)
 Cultural Perspectives Requirements, 18 credits

History Core (all required) minimum grade C, 6 credits

HI310 Critical Readings in History	3
HI493 Department Thesis	3

HISTORY EDUCATION (BA) REQUIREMENTS

- Fulfill General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill History Core Requirements - see above, 12 credits

American History Sequence (choose 2) minimum grade C, 6 credits

HI223 Colonial and Revolutionary America	3
HI224 Forging of a New Nation	3
HI225 History of the US: 1865-1919	3
HI226 History of the US: 1920-Present	3

European History Sequence (choose one) minimum grade C, 6 credits

HI227 Ancient Mediterranean World	3
HI228 Medieval Europe	3
HI229 Early Europe: 1500-1815	3
HI230 Modern Europe: 1815-Present	3

Non-Western History Sequence (choose one) minimum grade C, 6 credits

HI350 Topics in Non-Western History	3
HI360 Contours of World History	3

History Seminar (choose one) minimum grade C, 6 credits

H410 Seminar in American History	3
HI420 Seminar in European History	3

Upper Level (choose two) minimum grade C, 6 credits

HI311 Military History	3
HI337 History of Science & Christianity	3
HI339 History of International Relations, 1914-1945	3
HI340 History of International Relations, 1945-present	3
HI341 Holocaust	3
HI342 Modern France	3
HI343 Modern Germany	3
HI344 Industrial Revolution	3
HI345 American Exceptionalism	3
HI346 American in the Vietnam War Era	3
HI347 History/Culture of the American South	3
HI371/GO371 The Conservative Imagination	3
HI399 Special Topics in History	3
HI410 Seminar in American History	3
HI420 Seminar in European History	3

HI498 History of the Civil Rights Movement	3
HI499 Special Topics in History	3
HISTORY (BA) REQUIREMENTS	
<ul style="list-style-type: none"> • Fulfill all General Degree Requirements - see above • Fulfill General Education Requirements - see p. 12, 54 credits • Proficiency in a foreign language • At least one travel course 	
History Core (all required) minimum grade C+, 7 credits	
HI310 Critical Readings in History	3
HI494 Department Thesis	4
American History Sequence (choose three) minimum grade B, 9 credits	
HI223 Colonial and Revolutionary America	3
HI224 Forging of a New Nation	3
HI225 History of theUS: 1865-1919	3
HI226 History of theUS: 1920-Present	3
European History Sequence (choose three) minimum grade B, 9 credits	
HI227 Ancient Medieval World	3
HI228 Medieval Europe	3
HI229 Early Europe 1500-Present	3
HI230 Modern Europe 1815-Present	3
Non-Western History Requirement (choose one) minimum grade C, 3 credits	
HI350 Topics in Non-Western History	3
HI360 Contours of World History	3
Seminar in History Requirement (choose one) minimum grade B, 3 credits	
H410 Seminar in American History	3
HI420 Seminar in European History	3
Travel Course, minimum grade B, one credit	3
Upper Level Electives (choose three, one of which must be either 410 or 420) minimum grade B, 15 credits	
HI311 Military History	3
HI337 History of Science & Christianity	3
HI339 History of International Relations, 1914-1945	3
HI340 History of Internation Relations, 1945-present	3
HI341 Holocaust	3
HI342 Modern France	3
HI343 Modern Germany	3
HI344 Industrial Revolution	3
HI345 American Exceptionalism	3
HI346 American in the Vietnam War Era	3
HI347 History/Culture of the American South	3
HI371/GO371 The Conservative Imagination	3
HI399 Special Topics in History	3
HI410 Seminar, American History	3
HI420 Seminar, European History	3

HI498 History of the Civil Rights Movement	3
HI499 Special Topics in History	3

Independent Study

A student who wishes to work on a project with a faculty member may ask that instructor to supervise an Independent Study (HI 496). A detailed plan of study, drawn up by the instructor and the student, is required. Ordinarily faculty members do not supervise Independent Studies on topics covered in regularly scheduled classes.

Foreign Language

History Education majors are encouraged (and History students are required) to develop competence in one or more foreign languages and to use this competence in their historical reading and research. Knowledge of a foreign language is particularly important for students planning graduate work.

HISTORY MINOR

The minor in history at ENC consists of five courses. At least two courses must be at the 300 or 400 level, and at least two courses must be in the chosen track of historical study.

HISTORY COURSE DESCRIPTIONS

CP210 Western Heritage (3 cr) Summarizes the development of humanity in the Western world and emphasizes problems of unity, continuity, and change in history. *Prerequisites: Sophomore standing, EN103, and EN104 at least concurrently. Offered annually.*

MU180 History of Rock and Roll (3 cr) An overall history of popular music in America, with an emphasis on mainstream popular music since 1954. Traces the stylistic development of popular music and acquires interpretive strategies including methods of aural analysis. Relates the simultaneous independence and interdependence of black and white musical cultures in America. Develops an understanding of popular songs and texts in a historical perspective. May not be used as a History Education or History elective. *Prerequisite: music reading or performance skills.*

HI205 The American Experience (3 cr) A one-semester survey course designed to provide the student with a broad overview of the American experience. It is especially recommended for students preparing for a career in education. Major topics covered include early America and Americans (beginnings to 1650), settlements, colonies, and the emergence of American identity (1600-1763), the American Revolution creating a new nation (1750-1815), expansion, reform, and economic growth (1815-1861), the Civil War and Reconstruction (1861-1877), the advent of modern America (1877-1914), the United States and two World Wars (1914-1945), and the contemporary United States (1945-Present). This course may not be applied to the two-course US History requirement for History majors, although it may be used as a History elective.

HI212 Travel Seminar in History (3 cr) Off campus travel experience sponsored by the Department of History and varying in length from a few days to an entire semester. *Offered varying years.*

HI223 Colonial and Revolutionary America (3 cr) The first of four period courses in American history. A survey of America during the colonial and revolutionary periods. Major topics include: early European encounters with North America, growth of English settlements, Native American civilizations, life in provincial America, American colonies in the British Empire, and the War for American Independence. The New England experience and major historiographical interpretations will be emphasized. *Offered alternate years.*

HI224 Forging of a New Nation (3 cr) The second of four period courses in American history. A survey of the United States from its inception as an independent nation through the crisis of the Civil War. Major topics include: the Constitution and the New Republic, Jeffersonian and Jacksonian democracy, American society and culture, westward expansion, slavery, sectionalism, reform, and war. Major historiographical interpretations will be emphasized. *Offered alternate years.*

HI225 History of the US: 1865-1919 (3 cr) The third of four period courses in American history. This is a survey of the United States from 1865 to 1918. Major topics include Reconstruction, industrial expansion, urbanization, immigration, intellectual and cultural trends, Progressivism, Imperialism, and World War I. Major historiographical interpretations will be emphasized.

HI226 History of the US: 1920 to Present (3 cr) The last of four period courses in American history. This is a survey of the United States from the 1920s to the present. Major topics include: the new postwar era, the Great Depression and the New Deal, World War II and the Cold War, and American society and culture in flux. Major historiographical interpretations will be emphasized.

HI227 Ancient Mediterranean World (3 cr) Studies the social and cultural developments, economic and political ideas and institutions of the ancient Mediterranean world including: the political, socioeconomic, artistic, and religious history of ancient Mesopotamia and Egypt; the successes and failures of Ancient Greece and Athenian democracy; and the origin, development, expansion, and achievements of the Roman Republic and Empire. *Offered alternate years.*

HI228 Medieval Europe (3 cr) Examines the social, cultural, religious, and economic development of medieval Europe from the origins of Christianity to the beginnings of the Protestant Reformation. Particular attention is paid to the varying relations between church and state, the birth of urban culture and economy, institutional and popular religious movements, and the early formation of nation states. *Offered alternate years.*

HI229 Early Europe: 1500-1815 (3 cr) Social, cultural, religious, economic, and political developments in Europe from the Renaissance to the Fall of Napoleon. Special emphasis is given to the Protestant and Catholic Reformations, the evolution of monarchical power, the rise of European overseas empires, the scientific revolution, the Enlightenment, the French Revolution, and the rise and fall of Napoleon Bonaparte. *Prerequisite: CP210.*

HI230 Modern Europe: 1815-Present (3 cr) Overview of European history since the fall of Napoleon: international developments in the age of Metternich, the rise of industrial society, the evolution of national states in Germany and Italy, the Bismarckian system, the age of imperialism, World War I, the rise of Bolshevism, fascism, and Nazism, World War II, the origins and development of the Cold War, the formation of the European Community, and the breakup of the Soviet Empire. *Offered alternate years.*

HI250 Peoples and Cultures of the Middle East (3 cr) The Middle East always was, and continues to be, an area of tremendous strategic, political and cultural importance. In this course we will investigate the historical roots of present-day events: the Islamic empire, the Ottoman and European domination, the establishment of a Jewish state, the discovery of oil, etc. We will also address many of the ethnic, cultural, religious, and political questions of the contemporary Middle East. Special emphasis will be put on understanding the people and cultures of the region, the practice of Islam, the Middle East peace process, and the significance of the region in world affairs. This sophomore level honors course fulfills ENC's intercultural literacy requirement and requires permission of the instructor. *Prerequisite/Corequisite: Western Heritage, offered fall.*

HI299 Special Topics in History (cr var) Applies to special courses in History offered at the advanced sophomore level. *Prerequisites: Sophomore, permission of instructor.*

HI310 Critical Readings in History (3 cr) A required course in historical criticism and methods, students will explore the nature of historical inquiry and practice along with questions of historical epistemology and the relationship of the Christian faith to history. *Prerequisite: 9 credits of history course work.*

HI311 Military History (3 cr) A survey of world military history from Antiquity to the present, with emphasis on strategy, geography, culture, and the philosophy of war. *Prerequisite: CP210.*

HI320/SO320 Seminar in Globalization (3 cr)

HI337 History of Science and Christianity (3 cr) Explores the interaction of two of history's most powerful forces - science and Christianity - from the Middle Ages to the present.

HI339 History of International Relations 1914-1945 (3 cr) Examines the political, economic, and military relations between the major countries of the world from the beginning of the First World War through the end of World War II. *Prerequisite: CP210. Offered varying years.*

HI340 History of International Relations 1945-Present (3 cr) The causes and consequences of the Soviet-American Cold War from its origins in Europe to its extension to Asia, Africa, and Latin America. The rise of the multi-polar international system, the emergence of the nonaligned blocs, and inter- and intra-alliance conflicts. *Offered varying years.*

HI341 Holocaust (3 cr) An intensive survey of the history of the Holocaust, beginning with the growth of anti-Semitism in Europe at the end of the nineteenth century and ending with the legacy of the Holocaust today. Individual topics will include Jewish life in Europe before the Holocaust, the Nazi rise to power, implementation of the Final Solution, the response of collaborators and rescuers, the role of the Church, questions of responsibility, and the problems of survivor memory. This course does not fulfill an intercultural literacy requirement. *Offered varying years.*

HI342 Modern France (3 cr) Social, political, economic, and cultural trends are explored in France from the French Revolution, through the political revolts and cultural revolutions of the nineteenth century, to the rise and fall of France as a great world power in the twentieth century. *Offered varying years.*

HI346 America in the Vietnam War Era (3 cr) An examination and assessment of America's longest war and how involvement in the conflict in Southeast Asia profoundly affected American history. *Offered varying years.*

HI347 History and Culture of the American South since 1865 (3 cr) A comprehensive and critical view of the American South. The South will be studied as a distinct geographic location that shaped American politics and culture. In addition, the course will chart the South's history as an idea that altered how Americans perceived race, conservative politics, gender and sexuality, religion, and economics. A major theme of the course will be the southernization of American society. Students will become familiar with interpretive historical literature on the South and will examine representations of Dixie in popular music, film, collective memory, literature, and political culture. This course fulfills an intercultural literacy requirement. *Offered varying years.*

HI350 Topics in Non-Western History (3 cr) Applies to courses taught on a rotating basis that explore various aspects of and themes in non-Western history, including Asian, African, and topical courses. *Prerequisites: CP210 and approval by the department.*

HI360 Contours of World History (3 cr) An upper division course designed to place a West-centered reading of history into larger world historical contexts. Special emphasis given to the interplay between geography/climate and culture in historical development. Offered in alternate years. Prerequisite: CP210

HI371/GO371 The Conservative Imagination (3 cr) Explores the conservative imagination in political thought and culture with special focus on the various types of conservatism that emerged during the 20th century. *Prerequisite: GO210 or instructor's permission. Offered alternate years.*

HI372/GO372 The Liberal Imagination (3 cr) Explores the liberal imagination in political thought and culture with special focus on the various types of conservatism that emerged during the 20th century. *Prerequisite: GO210 or instructor's permission. Offered alternate years.*

HI399 Special Topics in History (cr var) Applies to special courses in History offered at the junior level. *Prerequisites: Junior standing and permission of instructor.*

HI410 Seminar in American History (3 cr) A senior-level seminar focusing on major interpretations and trends in American historiography. *Offered annually.*

HI420 Seminar in European History (3 cr) A senior-level seminar focusing on trends and topics in European historiography. Options include religion and society, Seminar in European History, or modern France. *Offered annually.*

HI430 Seminar, Christian Faith and Historical Inquiry (3 cr) A senior-level seminar focusing on the impact of Christian faith and thought on historical inquiry. Offered varying years. Prerequisite: HI310 or permission of the instructor.

HI493 Department Thesis (3-4 cr) A seminar devoted to the research and writing of a significant historical thesis based heavily on primary source materials. Students defend and make a public presentation of their theses at the end of the course. *Offered annually.*

HI496 Independent Study (var) Students with satisfactory academic records are encouraged to propose to the department a program of independent study for 3 credit hours. January term lends itself particularly well to this opportunity, but courses are considered for any term for work either on or off campus. *Offered varying years.*

HI498 History of the Civil Rights Movement (3 cr) Explores the history of the African-American freedom struggle from the 1890s to the late 20th century. This course will grapple with the basic inequalities and legal restrictions faced by people of color in the U.S. over a hundred year period. It will also cover the major attempts of whites and blacks to overcome institutional and social race prejudice. Students will study the rise of the NAACP, the formation of the liberal coalition, massive white resistance, the post-1950s civil rights movement, and the lives of a number of men and women who campaigned for and against racial justice.

HI499 Special Topics in History (3 cr) Applies to special courses in History offered at the senior level. *Prerequisites: Senior standing, permission of instructor.*

Interdisciplinary Studies

INTERDISCIPLINARY STUDIES COURSE DESCRIPTIONS

IS199 Contemporary Questions (3 cr) Using traditional philosophy as a framework, this course will address a series of open-ended and interdisciplinary questions. The course will draw heavily on recent research in science and religion, and introduce students to the nature of interdisciplinary investigation. The questions to be considered include: Do we have free will? Are aesthetic judgments objective? Are there many universes? Is belief in God rational? The issues will be explored in a nondogmatic way, emphasizing

intellectual rigor rather than particular conclusions. Class discussions will identify, understand, and appreciate diversity of perspectives. Note: This class may be used as a substitute for CP295. Instructor permission required. Freshman honors course.

IS200 Great Ideas in the Social Studies (3 cr) An overview of major concepts in the social studies. The following topics will be covered in the course: 1) Geography: physical spaces of the earth, places and regions of the world, effects of geography, and human alterations of environments; 2) Economics: fundamental economic concepts, economic reasoning, and today's economy.

IS295/495 Interdisciplinary Studies/Honors (3 cr) An interdisciplinary seminar in which students explore topics of current relevance to the integration of faith and learning. Topics vary from year to year and are selected in conjunction with the roster of invited speakers coming to campus. Students will explore the ideas of major thinkers and interact with them during their visit to campus. The course will be taught in a seminar format with strong expectations placed upon students for quality independent work to be presented in class. Heavy writing assignments are required.

International Studies

Division of Social Sciences

PROGRAM OFFERED

Minor: *International Studies*

PROGRAM OBJECTIVES

1. To provide purposeful, structured, and focused opportunities for the study and engagement of human reality in a global dimension, both within and outside of the classroom.
2. To provide a framework for the study of the underlying similarities as well as the breadth of diversity of human cultures.
3. To appreciate the use and importance of language as the central means by which every society expresses its cultural values and ideas.
4. To understand how one's own major or career plans fit into the increasingly important international context.
5. To personally experience a culture which is different from one's own.

PROGRAM DESCRIPTION

The International Studies Program is a carefully crafted sequence of course work and experiential components. This program provides students an awareness of the various ways in which human experience worldwide is defined and shaped by factors that supersede one's own national and cultural boundaries. As such, it rests upon a strong introduction to the study of human society and its various forms throughout the world. An essential element in the understanding of human cultures is a structured approach to language study. As such, a modern language is an essential requirement of the program. Along with these components, students will have the opportunity to focus on an in-depth study of a specific culture and to explore some of the major issues confronting our global community. To enhance the student's curriculum, the program additionally provides opportunity for focus on the international dimensions of the student's major and/or for gaining invaluable experience in serving in another culture. In the course of the program, the student is required to have a study-abroad experience.

INTERNATIONAL STUDIES MINOR

The International Studies program is designed to complement a student's chosen major. It consists of a minimum of 15 to 20 credit hours (depending on one's language level). To satisfy the language requirement, a student must take two courses in modern language at the elementary level. However, a student who already has competency at the elementary level (e.g., having taken language in high school) may instead choose to do an intermediate level language course (4 credit hours) which would satisfy the program's language requirement. Students who have an advanced level proficiency and/or are bilingual may waive the language requirement, but must take an additional International Studies course to fulfill the requirements for the minor. An essential part of the International Studies Program is that the student has a structured international experience (e.g., taking at least one of the courses in an international setting).

Each student choosing to minor in the International Studies program must file a plan of study with the program advisor as soon as possible to ensure proper sequencing and availability of courses. Each student who successfully completes the International Studies minor will satisfy the intercultural literacy requirement for graduation.

The International Studies Program requirements include the following:

IN210 Peoples and Cultures of the World	3
IN299 Special Topics in Intercultural Studies OR	3
IN220 International Studies Travel Seminar	3
IN395 International Studies Major-Specific OR	3
IN399 International Studies Issues	3
FL241 Cross-Cultural Learning Service	varies
Elementary Modern Language I or II OR	3
Intermediate Modern Language I or II	3

COURSE DESCRIPTIONS

IN210 Peoples and Cultures of the World (3 cr) Takes an anthropological approach to the study of human culture and its various forms around the world. The major features of culture are presented, including subsistence patterns, organizing devices, patterns for transmission of culture, economics, religion, political organization, social control, and culture change. The methods of anthropological research and theoretical orientations are also examined. Examples of cultural variation, including traditional as well as modern societies, are discussed.

IN220 International Studies Travel Seminar (3 cr) Provides the opportunity for the student to travel to another country to study and explore various aspects of that culture. Several topics and issues pertaining to that culture are examined. *Prerequisite: IN210 or permission of instructor.*

IN299 Special Topics in Intercultural Studies (3 cr) Provides in-depth study of a specific culture or society. This course affords the student an opportunity to focus on unique historical and contemporary social problems and issues, similarities and differences between cultures, and the common stereotypes and stigmas. *Prerequisite: IN210 or permission of instructor.*

IN395 International Studies Major-Specific (3 cr) Designated by a department as an important area of knowledge and/or skills in that department's major that helps prepare its students within an international context. *Prerequisite: IN210 or permission of instructor.*

IN399 International Studies Issues (3 cr) A special issues course that focuses on specific issues that confront our global community. Topics will vary from course to course.
Prerequisite: IN210 or permission of instructor.

Liberal Arts

Cross Divisional Program

DEGREES OFFERED

Bachelor of Arts: Liberal Arts. *Students must pick a major field to focus and choose 5 courses in the chosen area of study.*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

General Education Cultural Perspectives Requirements, 18 credits

LIBERAL ARTS (BA) REQUIREMENTS

Liberal Arts Core Requirement (all required) minimum grade C-, 12 credits

BA231 Principles of Economics I Micro	3
GO210 American Political Institutions	3
GO220 World Political Geography	3
HI205 American Experience	3

American Literature Course (choose one) minimum grade C-, 3 credits

EN221 American Literature I 3

EN222 American Literature II 3

Additional Lab Science (choose one) minimum grade C-, 4 credits

Choose one from the lists of BI, CH, PY, or HS courses - see course descriptions under those departments.

Additional Math (choose one course, 100 level or above) minimum grade C-, 3 credits

Choose five courses in major field of study, 200 level or above, minimum grade C-, 15 credits

Major Field may be any Science discipline, Communication Arts, English, History, Math, any Social Science, or Religion.

Mathematics Department

Division of Natural Sciences

Dr. LeRoy Hammerstrom, Professor

Dr. Stephen Lovett (Chair), Associate Professor

Paul Nyce, Assistant Professor

DEPARTMENT OBJECTIVES

1. To develop an appreciation of the ingenuity and power of the human intellect in the creation and development of Mathematics.
2. To teach Mathematics for its cultural value.
3. To teach Mathematics as a tool useful in other fields.
4. To give Mathematics majors adequate knowledge and skill in Mathematics for positions in industry, teaching in public schools, or graduate study.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science, Bachelor of Arts: *Mathematics*

Minor: *Mathematics*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements, 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 7 credits

Required Math: CS131 Computer Program I, 3 credits

Social Science, 6 credits

Intercultural Requirements, 6 credits

General Education Cultural Perspectives Requirements, 18 credits

MATHEMATICS (BS) DEGREE REQUIREMENTS

- Fulfill all General Education Requirements - see above, 54 credits
- Elective Credits (Math or other) 39 credits
- Must earn a B- average in the Mathematics Core
- Must pass two courses at or above the 300-level and two more courses at the 40-level.

Mathematics Core (all required) minimum grade B-, 15 credits

MA151 Calculus I 4

MA152 Calculus II 4

MA201 Linear Algebra 4

MA211 Calculus III 3

Math BS Electives, minimum grade B-, 18 credits (2 must be at 300 level)

MA122 Trigonometry 3

MA171 Introduction to Discrete Math	3
MA212 Differential Equations	3
MA252 Probability and Statistics	3
MA281 Topics in Geometry	3
MA299 Topics in Math	varies
MA499 Topics in Math	varies

Math BS Required 400-level courses

MA411 Real variables	3
MA421 Modern Algebra I	4

MATHEMATICS (BA) DEGREE REQUIREMENTS

- Fulfill all General Education Requirements - see above, 54 credits

Mathematics Core (all required) minimum grade C-, 15 credits

MA151 Calculus I	4
MA152 Calculus II	4
MA201 Linear Algebra	4
MA211 Calculus III	3

Math Elective 300+ Level (choose one) minimum grade C-, 3 credits

MA331 Topics in Modern Algebra	4
MA399 Topics in Math	varies
MA411 Real Variables	3
MA421 Modern Algebra I	4
MA499 Topics in Math	varies

Additional Math Electives, minimum grade C-, 12 credits

MA122 Trigonometry	3
MA171 Introduction to Discrete Math	3
MA212 Differential Equations	3
MA252 Probability and Statistics	3
MA281 Topics in Geometry	3
MA299 Topics in Math	varies
MA331 Topics in Modern Algebra	4
MA399 Topics in Math	varies
MA411 Real Variables	3
MA421 Modern Algebra I	4
MA499 Topics in Math	varies

MATHEMATICS MINOR

- Required classes: MA151, MA152, MA201 and MA211

MATH COURSE DESCRIPTIONS

MA098 Fundamentals of Mathematics (3 cr) Offers a review of basic mathematical operations concentrating on fractions, decimals and percents. Emphasizes pre-algebra topics such as variable expressions, introduction to equations, and translating sentences into equations and covers application of these principles. This course does not count toward graduation credits. *Offered fall and spring.*

MA099 Math for College (3 cr) A conceptual approach to the math assumed as a prerequisite for college math and science courses. Stresses mastery of basic algebra skills with stress on equation solving, fractions, and application problems. This course does not count toward graduation credits. *Offered fall and spring.*

MA101 Math Explorations (3 cr) Introduces the structure and scope of mathematics. Discusses a variety of topics in mathematics to acquaint the student with what a mathematician is and does and exposes the student to different branches and tools of mathematics. *Prerequisite: MA099 or equivalent. Offered annually.*

MA109 Finite Mathematics (3 cr) A problem-solving and mathematical literacy course that helps students understand the power and usefulness of mathematics in various settings. Topics usually include functions, linear equations, linear systems, linear programming, sets, elementary probability, statistics, and financial mathematics. *Prerequisite: MA099 or equivalent. Offered fall and spring.*

MA111 College Algebra (3 cr) Studies basic college algebra, including solving equations and inequalities, solving systems of equations and inequalities, and working with linear, quadratic, and polynomial functions. *Prerequisite: MA099 or two years of high school college preparatory mathematics. Offered fall.*

MA118 Introduction to Statistics (3 cr) An introduction to the basic methods of statistical inference, with applications to a variety of disciplines. Topics studied will include hypothesis testing (z and t tests), confidence intervals, regression and correlation, and chi-square tests of independence. The use of statistical computer packages will be expected of all students. Note: Not for credit if credit is received for a higher level statistics course. *Prerequisite: MA111 or equivalent. Offered annually.*

MA122 Trigonometry (3 cr) Studies the trigonometric and inverse trigonometric functions, including the application of trigonometry to triangles, and the application of algebra to trigonometry, such as solving equations and verifying identities. Also includes a beginning look at vectors and polar coordinates. *Prerequisite: MA111 or equivalent. Offered spring.*

MA151 Calculus I (4 cr) Studies calculus of one variable covering limits, differential calculus, integral calculus, applications, and the Fundamental Theorem of Calculus. The use of a computer algebra system is expected of all students. *Prerequisite: MA122 or three years of college preparatory mathematics including trigonometry. Offered fall.*

MA152 Calculus II (4 cr) Second course in calculus of one variable; transcendental functions, techniques of integration, improper integrals, polar coordinates, infinite series, and Taylor series. The use of a computer algebra system is expected of all students. *Prerequisite: MA151. Offered spring.*

MA171 Introduction to Discrete Mathematics (3 cr) Covers propositional and predicate calculus, techniques of proof including direct, indirect and inductive, sets, functions, combinatorics, relations, recurrence equations, graphs and trees. *Prerequisites: MA122 and either sophomore standing or permission of the instructor. Offered fall.*

MA201 Linear Algebra (4 cr) Examines sets, systems of linear equations, matrices, vector spaces, subspaces, linear operators and their representations, eigenvalues and eigenvectors, and inner product spaces. *Prerequisite: MA152 or MA171. Offered spring.*

MA211 Calculus III (3 cr) Covers cylindrical and spherical coordinate systems, vectors in Euclidean space, multidimensional functions, partial differentiation, multiple integration, and line integrals. *Prerequisite: MA152. Offered fall.*

MA212 Differential Equations (3 cr) Covers techniques and theory of ordinary differential equations, first order techniques, linear differential equations, series solutions, systems of differential equations, and Laplace Transforms. *Prerequisite: MA211, MA201 or permission of the department. Offered spring.*

MA252 Probability and Statistics (3 cr) A calculus-based introduction to probability and statistics. Topics studied will include basic probability, random variables, probability distribution and density functions, hypothesis testing, confidence intervals, regression and correlation, and chi-square tests of independence. Students will study both the application and the underlying mathematical structure for these topics.

Prerequisite: MA152. Offered alternate years.

MA281 Topics in Geometry (3 cr) Includes topics from among classic plane geometry, non-Euclidean geometry, transformation geometry, and projective geometry. Applies linear perspective in art, symmetries of wallpaper design, cartography, and others of student interest. The format is participatory, with a final paper or project expected.

Prerequisite: Permission of the instructor. Offered varying years.

MA299/399/499 Topics in Math (cr var) Study of a topic in mathematics of mutual interest to students and instructor. Topics in the recent past have included discrete dynamical systems, cryptography, real variables, numerical methods and optimization.

Prerequisite: Permission of the instructor. Offered varying years.

MA331 Topics in Modern Algebra (4 cr) Introduces algebraic systems, number theory, isomorphism, homomorphism, groups and rings. Note: Not for credit if credit is received for MA421. *Prerequisite: MA201 or permission of the instructor. Offered alternate years.*

MA411 Real Analysis (3 cr) Provides the theoretical underpinnings of calculus and the advanced study of functions. Emphasis is on the precise definitions and rigorous proof. Topics may include the real numbers and completeness, continuity and differentiability, the Riemann integral, the fundamental theorem of calculus, inverse function and implicit function theorems, and limits and convergence. *Prerequisite: MA171 and MA211.*

MA421 Modern Algebra I (4 cr) Introduces algebraic systems, number systems, number theory, isomorphism, homomorphism, groups, and rings. A final project is to be completed and presented. Note: Not for credit if credit is received for MA331.

Prerequisites: MA201 and permission of the instructor. Offered alternate years.

Modern Language

Division of Arts and Letters

Alex Linardi, Instructor

COURSE DESCRIPTIONS

SP101, SP102 Elementary Spanish I and II (3 cr each) An introduction to the major features of Spanish structure and to the vocabulary and idioms of everyday conversation. Emphasis is placed on communication skills.

For descriptions of courses in Greek and Hebrew, please see Religion.

Movement Arts Department

Division of Social Sciences

Dr. Nancy Detwiler (Chair), Professor

Stephen Hamilton, Instructor

DEPARTMENT OBJECTIVES

1. To help students understand the role of human movement within the liberal arts.
2. To provide professional study based upon a liberal arts background for students seeking certification to teach in Physical Education classes Pre K-8, 5-12.

3. To provide the students with knowledge of:
 - a. Normal physical development, including anatomy and physiology.
 - b. Techniques involved in human movement, including individual, group, and team activities and sports; games and recreation; gymnastics and expressive movement.
 - c. Red Cross first aid and safety, including CPR.
4. To enable students to identify characteristics and special needs of children with physical disabilities and to design and implement effective programs adaptive to individual needs.
5. To provide an understanding of the relationship between human movement and other fields of knowledge.
6. To provide a background appropriate to do graduate work.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Movement Arts; Physical Education; Sports Management*

GENERAL DEGREE REQUIREMENTS FOR ALL MOVEMENT ARTS AND PHYSICAL EDUCATION MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements

See Page 13 for course options.

Communication Skills, 9 credits

Biblical Literature and Christian Tradition, 6 credits

Science/Math Requirement, minimum grade C-, 7 credits

Required Lab Science: BI203/BI203L Musculoskeletal Anatomy and Physiology w/Lab

BI204/BI203L System Anatomy and Physiology w/Lab

Social Science, 6 credits

Required Social Science: PS240 Lifespan Development, minimum grade C-, 3 credits

Intercultural Literacy Requirements, minimum grade C-, 6 credits

IN210 Peoples and Cultures of the World, 3 credits **OR**

IN299 Special Topics in Intercultural Studies, 3 credits

Cultural Perspectives Requirements, 18 credits

MOVEMENT ARTS (BS) REQUIREMENTS

- Fulfill all General Degree Requirements - see below
- Fulfill all General Education Requirements - see p. 12, 54 credits

Movement Arts Core Requirements (all required) minimum grade C-, 21 credits

PE110 Foundation of Movement	3
PE208 Gymnastics Theory and Skill	1
PE219 Rhythm Movement Theory and Skill	1
PE220 Principles of Motor Learning	3

PE222 First Aid and CPR	1
PE316 Kinesiology	3
PE317 Physiology of Exercise	3
PE318 Movement Exceptional Students	3
PE440 Organization and Administration Principles	3
Sport Skill Elective Courses (choose four) minimum grade C-, 4 credits	
PE001 PE Activity	.5
PE201 Archery Theory and Skill	1
PE203 Tennis Theory and Skill	1
PE204 Badminton Theory and Skill	1
PE208 Gymnastics Theory and Skill	1
PE209 Swimming Theory and Skill	1
PE210 Racquetball Theory and Skill	1
PE211 Track and Field Theory and Skill	1
PE214 Golf Theory and Skill	1
PE216 Sailing Theory and Skill	1
PE217 Cross Country Theory and Skill	1
PE218 Motor Fitness Theory and Skill	1
PE219 Rhythm Movement Theory and Skill	1
Sport Skill: Team (choose 2) minimum grade C-, 2 credits	
PE202 Basketball Theory and Skill	1
PE205 Soccer Theory and Skill	1
PE207 Volleyball Theory and Skill	1
PE212 Baseball Theory and Skill	1
PE213 Softball Theory and Skill	1
PE215 Field Hockey Theory and Skill	1
Theory Electives (choose two) minimum grade C-, 6 credits	
PE252 Personal Health and Wellness	2
PE254 Introduction to Athletic Training	3
PE350 Psychology of Coaching	3
PE351 Field Work Coaching	3
PE352 Officiating a Sport	1
PE367 Leisure Activity	3
Cognate Requirements (choose one) 4 credits	
BI101/BI101L Principles of Biology w/Lab	4
BI103/BI103L General Biology I w/Lab	4

PHYSICAL EDUCATION (INITIAL LICENSE) DEGREE REQUIREMENTS

Students interested in pursuing a teaching career in addition to the Liberal Arts and Movement Arts must successfully:

- Fulfill all General Degree Requirements - see below
- Fulfill Movement Arts Requirements - see department list
- Fulfill all General Education Requirements - see p. 12, 54 credits

Education Major Core, minimum grade C-, 12 credits

ED243 Educational Technology	3
ED310 Education Psychology	3
IN299 Special Topics in Intercultural Studies OR IN210 Peoples and Cultures	3
PS240 Lifespan Development	3

Physical Education Core (all required) minimum grade C-, 15 credits

PE221 Measurement and Evaluation in Physical Education	3
PE311 Curriculum and Methods of Physical Education (Pre K-8)	3
PE312 Curriculum and Methods of Physical Education (5-12)	3
PE499 Practicum in Physical Education	6

SPORTS MANAGEMENT (BS) REQUIREMENTS

The purpose of the Sports Management concentration is to provide students with knowledge of conceptual, interpersonal, and technical skill, along with the necessary experiences for successful leadership in the sports industry.

- Fulfill all General Degree Requirements - see below
- Fulfill all General Education Requirements - see above, 54 credits

Sports Management Core (all required) minimum grade C-, 37 credits

PE110 Foundation of Movement	3
PE220 Principles of Motor Learning	3
PE221 Measurement and Evaluation in Physical Education	3
PE222 First Aid and CPR	1
PE318 Movement Exceptional Students	3
PE350 Psychology of Coaching	3
PE353 Sociology of Sport	3
PE440 Organization and Administration	3
PE445 Internship in Sports Management	6
PE498 Practicum in Sports Management	3
Skills: 4/2 Combo-Individual, Team Sport Skill	6

Sports Management Business (all required) minimum grade C-, 24 credits

BA110 Introduction to Business	3
BA212 Principles of Management	3
BA232 Principles of Economics II Macro	3
BA240 Accounting for Nonfinancial Managers	3
BA252 Principles of Marketing	3
BA311 Organizational Behavior	3
BA361 Integrated Marketing Communications	3
BA411 Business Law	3

MOVEMENT ARTS COURSE DESCRIPTIONS**PE001/PE002 Physical Education Activity: Non-Major Physical Education Activity**

Courses (.5-1 credit each) Instructs in various areas such as weight training, badminton, archery, volleyball, basketball, softball, tennis, and games classes. Credit is also given for participation in any varsity sport that does not exceed two credit hours. Other options under this course are scuba, volleyball, tennis, basketball, speedball, soccer, weight training (men, women, or coed classes available), badminton, games, varsity physical education, team sports, and softball.

PE110 Foundation of Movement (3 cr) Studies the development of man, education, and man and movement. Emphasizes the philosophical and historical foundations of education, as well as the current and future trends in physical education.

PE201 Archery Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE204 Badminton Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE211 Track and Field Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE212 Baseball Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE214 Golf Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE217 Cross Country Theory and Skills (1 cr) Varsity credit in junior year.

PE218 Motor Fitness Theory and Skills: Movement Arts Majors only (1 cr) Concentrates on teaching the development of fundamental skills, techniques, and progressions. Provides an in-depth study of fundamental strategy and systems of play.

PE220 Principles of Motor Learning (3 cr) Introduces the principles and theories of learning and their application to the performance of motor skills, including an introduction to and practice in the method of movement education. *Prerequisites: BI203, BI204, and PE110.*

PE221 Measurement and Evaluation in Physical Education (3 cr) Presents various measurement techniques utilized in the evaluation of human movement. Places emphasis on statistical interpretation, including measures of central tendency and measures of variance.

PE222 First Aid and CPR (.5 cr – non-majors; 1 cr - majors) Provides opportunity to become Red Cross Certified in (1) First Aid care and prevention of school related injuries, and (2) CPR for babies, children and adults. Occurs in a modified lecture format, supplemented by audiovisual teaching methods. Assessment is based on written examinations and skill performance.

PE252 Personal Health and Wellness (3 cr) An introduction to concepts and application of lifetime personal health and wellness. Topics include components of cardiovascular disease and risk factors, nutrition, weight management, relaxation techniques, sexually transmitted diseases, and substance abuse. The course includes practical application of certain topics through activities and portfolio assessment. The focus is upon individualization of activities so as to address particular needs and circumstances.

PE254 Introduction to Sports Medicine (3 cr) Designed to introduce the student to the profession of athletic training and to define the roles and responsibilities of the athletic trainer as a healthcare provider. Particular emphasis is placed upon the prevention of injuries to athletes by focusing on conditioning, equipment fitting, preseason screening, and environmental risk factors. This course will familiarize the student with common mechanisms of injury, as well as help in the development of appropriate first aid and emergency care techniques for acute athletic injuries. Laboratory: Weekly sessions of clinical experience required for development of skills. *Prerequisite: BI101 or BI103.*

PE311 Curriculum and Methods of Physical Education (Pre K-8) (3 cr) Survey of the organization and conduct of physical education, primarily for elementary school. Consideration is given to games, relays, story play, gymnastics, rhythms, and other suitable activities. This course includes participation and demonstration of physical education multicultural needs. Pre-practicum includes substantial field-based training with video analysis of teaching. *Prerequisites: PE110, PE220, PE221.*

PE312 Curriculum and Methods of Physical Education (5-12) (3 cr) Innovation in program planning and teaching procedures. Emphasis is on developing curriculum for a multicultural society. Lesson planning and evaluation is included. Pre-practicum includes substantial field-based training with video analysis of teaching. *Prerequisites: PE110, PE220, PE221.*

PE316 Kinesiology (3 cr) Studies human movement from the view of the physical sciences founded in the mechanics of anatomy and physiology. *Prerequisites: BI203, BI204.*

PE317 Physiology of Exercise (3 cr) Description and explanation of the acute and chronic physiological responses that accompany single and repeated bouts of physical exercise. *Prerequisites: BI203, BI204, PE316.*

PE318 Movement Exceptional Students (3 cr) Considers the characteristics and development of children with special needs. Develops competencies to diagnose and address the physical and psychological special needs of children. Emphasizes special needs legislation. Discusses a practical approach to teaching special needs within a multicultural setting. *Prerequisites: BI203, BI204.*

PE350 Psychology of Coaching (3 cr) Applies psychological principles to the understanding and coaching of sport. Emphasizes the emotional and attitudinal aspects of athletic performance and their impact on the performer. *Offered in alternate years.*

PE353 Sociology of Sport (3 cr) Acquaints students with the parameters that influence sport. Raises a number of issues regarding the nature and value of sports in our society. Topics cover violence in sports, sports and the media, the black athlete, women in sports, and the influence of behavior issues.

PE440 Organization and Administration Principles (3 cr) A study of the aims and objectives of Movement Arts as it relates to those of general education. This course focuses on the principles dealing with finance, facilities, management and design, scheduling and purchasing. It stresses legal issues and personnel management.

PE445 Internship in Sports Management (6 cr) This experience, for a minimum of 200 hours, is designed to provide the student with a unique experience in a sport environment of his or her interest. The student is assigned to an agency that will allow the student experience in program planning, management instruction, or marketing. *Prerequisites: Senior standing and approval of advisor.*

PE498 Practicum in Sports Management (3 cr) A hands-on 100-hour minimum experiential learning opportunity that includes working under direct supervision as an administrative assistant with a sport or fitness program, assisting in Lahue Center, or working in ENC athletics. *Prerequisite: Approval of advisor and department chair.*

PE499e Practicum: Grades Pre K-8 (6 cr) Observes, assists, and teaches physical education within an elementary school setting under the direction of a cooperating practitioner and supervised by a college supervisor. This practicum is required of all elementary physical education majors. The classroom includes regular students as well as special needs students. Six weeks. *Prerequisites: In addition to the Movement Arts major, PE221, PE311, PE312, ED243, ED310, ED311, PS240, IN299, a cumulative GPA of 2.5, and approval of Teacher Education faculty. Options offered are Pract: PE N-9, Pract: Phys Ed K-8*

PE499s Practicum: Grades 5-12 (6 cr) Observes, assists, and teaches physical education within a secondary school setting under the direction of a cooperating practitioner and supervised by a college supervisor. This practicum is required of all secondary physical education majors. The classroom includes regular students as well as special needs students. Six weeks. *Prerequisites: In addition to the Movement Arts major, PE221, PE311, PE312, ED310, ED243, ED311, PS240, IN299, a cumulative GPA of 2.5, and approval of teacher education faculty. Options offered are Pract: PE 5-12.*

Music Department

Division of Arts and Letters

Lambert Brandes (Chair), Professor

Dr. K. Brady Millican, Professor

Dr. Timothy Shetler, Associate Professor

Dr. Delvyn Case, Assistant Professor

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Arts: *General Music Performance; General Music Performance - Music Theory Track; General Music Performance - Music History Track; Contemporary Music and Recording - Business or Artist Track; Music Education; Vocal Performance; Instrumental Performance; Music Composition*

Interdisciplinary Majors: *(BA Degrees) Music and Communication Arts; Music Ministry (Music and Religion); Music and Computer Science; Music and Business*

DEPARTMENT OBJECTIVES

1. To provide the training required for each student to realize the maximum development of his or her musical talent.
2. To provide the education and experience required to prepare each student for competent service as a performing musician or music educator.
3. To provide the education and experience required for a student to pursue further study at the graduate level in his or her selected area of music.
4. To enable each student to develop an aesthetic appreciation and understanding of music as an art of expression and communication.
5. To enable each student to realize the value of music to the health and well-being of the individual and to world cultures.
6. To foster the perspective that, as a musician, it is our responsibility to develop the musical gift God has given us, to use that gift for the betterment of others, and as a means of spreading His message of beauty, love and truth.
7. To foster the perspective that the responsible development and use of the gift we have been given is a worthy part of our service to God.

CURRICULUM DESCRIPTION

The Music Department of Eastern Nazarene College has a well-established reputation, known for its outstanding music faculty, educational experience, and superior preparation of its students in music performance and education. The Music Department offers a curriculum which allows its students to pursue a basic General Music Performance major. This requires the completion of only 36 credit hours. All of the courses required for this major also serve as the core required for any of the more specialized

majors such as Music Education, Vocal or Instrumental Performance, Music Composition, and Contemporary Music and Recording. The General Music Performance major is also the core for any one of the four interdisciplinary majors offered by the department: Music and Communication Arts, Music Ministries, Music and Computer Science, or Music and Business.

Incoming students who have decided to focus primarily on music are able to begin with one of the more specialized music majors such as Music Education or Vocal Performance. Incoming students who wish to focus on music and another field as well, may begin with the General Music Performance major. After one or two years of study, a student may choose to apply all the credits already earned for the General Music Performance major to one of the more specialized Music majors. The student is also free to complete the General Music Performance major and a second major in a related field such as Communication Arts, Youth Ministries, Business, or Computer Science

DEPARTMENT POLICIES

All students, including those who are not Music majors, are welcome to take private lessons in voice, piano, an instrument, applied composition or audio recording. All students are also welcome to join the Choral Union, A Cappella Choir (audition required), Chamber Singers (audition required), Gospel Choir, Symphonic Winds, Guitar Ensemble, Percussion Ensemble, and Jazz Ensemble. Incoming students who can read both treble and bass clefs fluently are advised to begin with Music Theory I. If they cannot, they are advised to begin with Music Fundamentals. A thorough review of all essential elements of music fundamentals is presented during the first four weeks of the Music Theory I course. This review is followed by an exam based on the material presented. The grade earned on that exam determines whether a student is then advised to continue in Music Theory I or to continue with a course in Music Fundamentals.

Students not majoring in Music may apply a maximum of four credit hours in applied music and/or a music ensemble as course hours required for general electives.

Music minors may apply a maximum of eight credit hours in applied music and four ensemble credit hours to the total degree program. Achieving more credit hours of applied study and participation in ensembles are encouraged for all students.

Students are not permitted to study with a teacher who is not part of the faculty at the college. Two unexcused absences from applied private study will result in the student being dropped from the course with a failing grade. All music students are required to attend 80% of the musical programs produced by the Music Department.

Throughout the time of study at the college, all Music majors are required to attend the weekly departmental Music Performance Seminar. This is a performance practice seminar where Music majors perform materials being worked on in their applied lessons.

ENSEMBLE REQUIREMENTS

Choral Union Requirement

Throughout the time of study at the college, **Music majors** are required to enroll in the Choral Union. Students need to consult their individual majors to check the number of ensemble credits required.

Other Ensembles

All degree programs require enrollment in a second ensemble such as Voice Class/ Ensemble, A Cappella Choir, Chamber Singers, Symphonic Winds, Jazz Ensemble or Quincy Symphony Orchestra. Only ensembles run or approved by the Music Department may be used to fulfill ensemble requirements.

Instrumental Performance

Instrumental Performance majors are required to enroll in the Symphonic Wind Ensemble. Students whose primary applied area is a stringed instrument may earn ensemble credit for participation in the Quincy Symphony Orchestra or a similar ensemble approved by the Music Department.

Organists/Music Directors - Ensemble Credit

A student employed as music director or organist/choirmaster may earn .5 to 1 hour of ensemble credit per semester if approved by the Music Department. **This credit may not be used as a substitute for Choral Union credit.**

GENERAL MUSIC REQUIREMENTS

Piano for Music Education Majors

All Music Education majors whose applied area is not piano are required to take one hour credit of piano per semester throughout their time of study as a Music major.

Jury Performances

All Music Education, Instrumental Performance, Vocal Performance and Composition majors are required to perform for a jury at the close of each semester. As a part of that jury, the progress in sight singing skill of Music Education majors is tracked with a sight singing exam.

Ear Training for Music Education Majors

At the close of the sophomore year, the music faculty will determine that a Music Education major has attained the level of ear training skill required for a music educator. If continued development is necessary, the student will be required to continue with private applied ear training until the required level is achieved.

Junior/Senior Recital

Students preparing a junior or senior recital are required to submit a printed preview of their recital at the conclusion of the semester prior to the planned date of performance. Approval of the recital by the faculty must be granted before the recital can be presented.

Comprehensive Exam

All majors are required to pass a senior comprehensive exam in music theory and in music history. This exam is not required for General Music Performance majors.

Music Education majors are also required to pass an oral comprehensive exam in ear training, conducting and keyboard performance.

Applied Music

All students majoring in Music are required to take two hours of applied study per semester during the first year and a minimum of one hour for each of the following semesters. For the Church Music majors, Vocal or Instrumental Performance majors, and Music Education majors, two hours of applied study are required each semester.

MUSIC MAJORS

The term “Music Majors” refers to all students whose major is one offered by the Music Department. It does not refer to a specific major or degree program.

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam (not required of General Music Performance Majors)
- Meet minimum Cumulative GPA of 2.0

General Education Requirements, 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Required Lab Science: MU251 Acoustics of Music, 3 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student’s Academic Information Report for high school language.)

General Education Cultural Perspectives Requirements, 18 credits

GENERAL MUSIC PERFORMANCE (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see above, 54 credits
- Choral Union Requirement, 2 credits
- Comprehensive Exam not required

Music Performance Core Requirements (all required) minimum grade C-, 12 credits

MU261 Music Theory I	3
MU262 Music Theory II	3
MU281 Music History Analysis I	3
MU282 Music History Analysis II	3

Ear Training (all required) minimum grade C-, 4 credits

MU105 Ear Training I	1
MU106 Ear Training II	1

Applied Music (all required) minimum grade C-, 10 credits

MU141 Applied Music	1
MU142 Applied Music	1
MU201 Applied Music	2
MU202 Applied Music	2
MU401 Applied Music	2
MU402 Applied Instrument	2

Ensemble (all required) minimum grade C-, 5 credits	
MU203 Ensemble (May be repeated for credit.)	.5
MU203 Choral Union	.5
Piano Proficiency (all required) minimum grade C-, 2 credits	
MU103 Piano Class for Music Majors	1
MU104 Piano Class II	1
GENERAL MUSIC PERFORMANCE - MUSIC HISTORY TRACK (BA) DEGREE REQUIREMENTS	
<ul style="list-style-type: none"> • Fulfill all General Degree Requirements - see p. 168 • Fulfill all General Education Requirements - see p. 12, 54 credits • Fulfill all General Music Performance Requirements 	
Music History Track (all required) minimum grade C-, 15 credits	
MU361 Music Theory III	3
MU362 Music Theory IV	3
MU381 Form and Analysis I	3
MU381 Form and Analysis II	3
MU481 20th Century Music	3
GENERAL MUSIC PERFORMANCE - MUSIC THEORY (BA) DEGREE REQUIREMENTS	
<ul style="list-style-type: none"> • Fulfill all General Degree Requirements - see p. 168 • Fulfill all General Education Requirements - see p. 12, 54 credits • Fulfill all General Music Performance Requirements 	
Music Theory Track (all required) minimum grade C-, 14 credits	
MU361 Music Theory III	3
MU362 Music Theory IV	3
MU205 Ear Training III	1
MU206 Ear Training IV	1
MU381 Music History Analysis III	3
MU481 20th Century Music	3
GENERAL MUSIC PERFORMANCE - RECORDING TRACK (BA) DEGREE REQUIREMENTS	
<ul style="list-style-type: none"> • Fulfill all General Degree Requirements - see p. 168 • Fulfill all General Education Requirements - see p. 12, 54 credits • Fulfill all General Music Performance Requirements 	
Recording Track (all required) minimum grade C-	
MU180 History of Rock and Roll	3
MU191 Song Writing	3
Choose one of the following sets of courses:	
Course Set 1	
MU 272 Recording Technology I	3
MU 273 Recording Technology II	3
Course Set 2	
ZZ499 Contemporary Music Center - Business or Executive Track	16

VOCAL PERFORMANCE, PIANO PERFORMANCE, INSTRUMENTAL PERFORMANCE AND MUSIC COMPOSITION MAJORS

These more specialized majors require concentrated study in an applied area such as voice or a specific instrument, and the **performance of both a junior and senior recital** in the applied area of study. These majors are designed to **develop professional level performance skills** in preparation for a career in performance or music composition or for graduate study in the applied area. **The track of these majors includes the name of the specific applied area of focus: Vocal Performance, Piano Performance, Trumpet Performance, Saxophone Performance, Music Composition, etc.**

**MUSIC PERFORMANCE - VOCAL AND INSTRUMENTAL PERFORMANCE (BA)
DEGREE REQUIREMENTS**

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Perform Junior and Senior recital
- Fulfill all General Music Performance Requirements

Additional Ear Training, minimum grade C-, 4 credits

MU205 Ear Training I	2
MU206 Ear Training II	2

Additional Applied Music, minimum grade C-, 6 credits

MU201/202/401/402 Applied Music	1
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**Additional Ensembles, minimum grade C-, 3 credits (Instrumental Majors),
4 credits (Vocal Performance Majors)**

MU203 Ensemble	.5
MU203 Choral Union	.5

**Additional Music Theory and History (all required), minimum grade C-, 12
credits**

MU361 Music Theory III	3
MU362 Music Theory IV	3
MU381 Form and Analysis I	3
MU481 20th Century Music	3

MUSIC COMPOSITION DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all General Music Performance Requirements/Recording Track
- Junior Recital
- Senior Composition Project

Composition Requirements (all required) minimum grade C-

MU205 Ear Training III	2
MU206 Ear Training IV	2
MU310 Choral Conducting OR	3
MU311 Instrumental Conducting	3
MU312 Orchestration	3

MU361 Music Theory III	3
MU362 Music Theory IV	3
MU381 Form and Analysis I	3
MU382 Form and Analysis II	3
MU481 20th Century Music	3
MU141/402 Applied Piano	additional 4
MU141/402 Applied Composition	additional 4

CONTEMPORARY MUSIC AND RECORDING - BUSINESS EXECUTIVE AND ARTIST TRACKS (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12, 54 credit
- Fulfill all General Music Performance Requirements

Contemporary Music/Recording Requirements (all required) minimum grade C-, 26 credits

MU205 Ear Training III	2
MU206 Ear Training IV	2
MU361 Music Theory III	3
MU362 Music Theory IV	3

Ensemble (all required) minimum grade C-, 5 credits

MU203 Ensemble (May be repeated for credit.)	.5
MU203 Choral Union	.5

Choose Business Track or Artist Track, minimum grade C-, 16 credits

- ZZ499 Contemporary Music and Recording-Business
- ZZ499 Contemporary Music and Recording-Artist

CONTEMPORARY MUSIC BUSINESS (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. , 54 credit
- Fulfill all General Music Performance Requirements/Recording Track
- Choral Union, 3 credits

Contemporary Music/Recording Requirements

ZZ499 Contemporary Music and Recording - Business	16
MU201/202 Applied Recording	4b

MUSIC - BUSINESS(BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12 , 54 credits
- Fulfill all General Music Performance Requirements
- Choral Union, 3 credits

Business Requirements, minimum grade C-, 24 credits

BA110 Introduction to Business	3
BA212 Principles of Management	3
BA221 Principles of Accounting I	3
BA232 Principles of Economics II Macro	3
BA240 Accounting for Nonfinancial Managers	3

BA252 Principles of Marketing	3
BA331 Organizational Behavior	3
BA361 Integrated Marketing Communications	3
MUSIC - RELIGION (BA) DEGREE REQUIREMENTS	
<ul style="list-style-type: none"> • Fulfill all General Degree Requirements - see p. 12 • Fulfill all General Education Requirements - see p. 12 , 54 credits • Fulfill all General Music Performance Requirements • Choral Union, 3 credits 	
Additional Ear Training, minimum grade C-, 4 credits	
MU205 Ear Training	2
MU306 Ear Training II	2
Additional Applied Music, minimum grade C-, 10 credits	
MU201/202/401/402	1
Additional Ensembles, minimum grade C-, 10 credits	
MU203 Ensemble	.5
Piano Class (if required), minimum grade C	
MU103 Piano Class Music Major	1
MU104 Piano Class II	1
General Music Performance - Ensembles (all required), minimum grade C-, 5 credits	
MU101 Voice Class/Ensemble	1
MU203 Ensemble	1
Required: 3 credits of Choral Union	
Religion Requirements, minimum grade C-, 18 credits	
New Testament Elective (choose 1), 3 credits	
BL323 Synoptic Gospels	3
BL327 Pauline Epistles	3
BL410 Daniel/Revelation	3
BL415 Luke/Acts	3
BL431 Johannine Literature	3
Old Testament Elective (choose 1), 3 credits	
BL310 Pentateuch	3
BL315 Psalms and Wisdom Literature	3
BL318 Old Testament Historical Books	3
BL410 Daniel./Revelation	3
Theology Elective (choose 1), 3 credits	
TH443 Revelation of God and Sinful Humanity	3
TH444 Salvation and Sanctification and Life in the Spirit	3
Music Ministry (all required), 9 credits	
CE222 Philosophy/Methods of Youth Ministry	3
CE401 Issues in Youth Ministry	3
TH450 Christian Worship	3

**Music Ministry Practicum (9 Church/3 Praxis credits),
minimum grade C-, 12 credits**

MU485 Music Ministry Practicum	9
MU495 Music Ministry Practicum	3

MUSIC - COMMUNICATION (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all General Music Performance Requirements
- Choral Union, 3 credits

Communication Arts Requirements - minimum grade C-, 24 credits

CO198 Drama as Ministry - 3 credits or approved substitute by CA Department	
CO201 Theater and Culture - 3 credits	
CO251 Acting I - 3 credits	
CO252 Acting II	3
CO272 Tech Theatre Design	3
CO330 Public Relations	3
CO331 Advertising	3
CO411 History of American Musical Theatre	3

MUSIC - COMPUTER SCIENCE DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all General Music Performance Requirements
- Choral Union, 3 credits

Computer Science Requirements - minimum grade C-, 24 credits

CS110 Principles of Information Systems	3
CS131 Computer Programming I	3
CS132 Computer Programming II	3
C320 Information Systems: Analysis/Design	3
CS322 Database Systems	3
BA212 Principles of Management	3
BA240 Accounting for Non-Financial Managers	3
BA252 Principles of Marketing	3

MUSIC EDUCATION (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see p. 168
- Fulfill all General Education Requirements - see p. 12 with exceptions noted below, 54 credits

General Education Physical Education Activities, 2 credits

Must take PE222 First Aid/CPR

**General Education Intercultural Literacy for Educators, minimum grade C-,
6 credits**

Intercultural Options (choose 1) minimum credits 3	
HI232 African-American History	3
IN210 Peoples and Cultures of the World	3

IN222 Intercultural Literacy Requirement	3
SO212 Human Diversity	3
Required	
EN211 Introduction to Applied Linguistics	3
General Education Social Science for Educators, minimum grade C-	
PS110 Introduction to Psychology	3
PS240 Lifespan Development	3
Fulfill all General Music Performance Requirements - see Music Performance above, 13 credits	
Additions to the Performance Core (all required) minimum grade C-, 5 credits	
MU105 Ear Training I	1
MU106 Ear Training II	1
MU251 Acoustics of Music	3
Applied Music - MU201 and MU402, minimum grade C-, 6 credits	
MU201 Applied Music	2
MU402 Applied Instrument	2
Ear Training, minimum grade C-, 2 credits	
MU205 Ear Training III	1
MU206 Ear Training IV	1
Education Core Requirements, minimum grade C-, 14 credits	
ED210 Philosophy and Social Foundations of Education	3
ED310 Educational Psychology	3
ED499 Student Teaching Seminar	5
SN311 Human Exceptionalities	3
Music Education Core Requirements, minimum grade C-, 27 credits	
MU213 Percussion Methods	1
MU214 Brass Methods	1
MU216 Woodwind Methods	1
MU221 String Methods	1
MU290 Midi Applications In Music Education	2
MU312 Orchestration	3
MU321 Curriculum and Methods of Music (Grades 5-12)	3
MU371 Curriculum and Methods of Music (Pre K-9)	3
MU499 Practicum in Music Education	6
MU499 Practicum in Music Education	6

MUSIC COURSE DESCRIPTIONS

CP230 Arts and Music (3 cr) Integrates presentation of the histories of art and music with emphasis on aesthetics, as well as practical approaches to viewing art and listening to music. *Prerequisites: Sophomore standing, EN103, EN104, and CP210. Offered fall and spring.*

MU101 Voice Class/Ensemble (1 cr) A survey for music majors, other than those taking private voice lessons, covering the following areas: correct breathing, voice production, materials for teaching (especially in the classroom), and pronunciation techniques in English, Italian, French, and German. *Offered fall and spring.*

MU103 Piano Class for Music Majors (1 cr) Studies scales, arpeggios, and cadences, applied to the harmonization of folk melodies. Covers graded classroom material in preparation for public school teaching. Also covers score reading, transposition, accompanying, and piano repertoire. Must be repeated until passing of proficiency exam. *Offered fall.*

MU104 Piano Class II (1 cr) Studies scales, arpeggios, and cadences, applied to the harmonization of folk melodies. Covers graded classroom material in preparation for public school teaching. Also covers score reading, transposition, accompanying, and piano repertoire. Must be repeated until passing of proficiency exam. *Offered spring.*

MU105 Ear Training I (1 cr) Designed to develop the aural skills required by the professional musician. Includes sight singing and/or dictation of scales, intervals, diatonic and chromatic melodies, triads, seventh chords, harmonic progressions, and two to four part music. Computer software and programmed recordings are available to aid students in individual practice sections. *Offered fall.*

MU106 Ear Training II (1 cr) Designed to develop the aural skills required by the professional musician. Includes sight singing and/or dictation of scales, intervals, diatonic and chromatic melodies, triads, seventh chords, harmonic progressions, and two to four part music. Computer software and programmed recordings are available to aid students in individual practice sections. *Offered spring.*

MU141 Applied Music (1 cr) Private lessons in voice, piano, another instrument or music composition for non-music majors; a secondary applied study for music majors; or one half-hour lesson per week. *Offered fall and spring.*

MU142 Applied Music (1 cr) Private lessons in voice, piano, another instrument or music composition for non-music majors; a secondary applied study for music majors; or one half-hour lesson per week. *Offered fall and spring.*

MU180 History of Rock and Roll, Popular Music in the USA (3 cr) An overall history of popular music in America, with an emphasis on mainstream popular music since 1954. Traces the stylistic development of popular music and acquires interpretive strategies including methods of aural analysis. Relates the simultaneous independence and interdependence of black and white musical cultures in America. Develops an understanding of popular songs and texts in a historical perspective. *Prerequisites: music reading or performance skills; no prerequisite course. Offered annually.*

MU191 Introduction to Songwriting I (3 cr) Introduces the techniques, thought processes, and critical/interpretive skills used in the art of music composition. Develops the ability to use basic aesthetic principles in applied composition. Provides coaching in the composition and performance of a variety of short pieces and a substantial final project. Music composition in any style, including popular, jazz and classical, is encouraged and accepted. Requires music reading skills and performance ability on an instrument in any single style (popular, jazz or classical). Vocalists must be proficient on another instrument. *Offered fall.*

MU192 Introduction to Songwriting II (3 cr) Expands creative techniques and skills of composition, thought processes, and critical/interpretive skills introduced in MU191. Develops the ability to apply basic aesthetic principles in applied composition. Music composition in any style, including popular, jazz and classical, is encouraged and accepted. *Prerequisite: MU191. Offered spring.*

MU201 Applied Music (2 cr) Private lessons in voice, piano, another instrument, or music composition for lower division music majors and non-majors. *Offered fall and spring.*

MU202 Applied Music (2 cr) Private lessons in voice, piano, another instrument, or music composition for lower division music majors and non-majors. *Offered fall and spring.*

MU203 Ensemble (1 cr) Options include A Cappella Choir, Choral Union, Chamber Singers, Gospel Choir, Symphonic Winds, Jazz Band, Quincy Symphony Orchestra, Guitar Ensemble, Percussion Ensemble, and Handbell Choir. *Offered fall and spring.*

MU205 Ear Training III (1 cr) Designed to develop the aural skills required by the professional musician. Includes sight singing and/or dictation of scales, intervals, diatonic and chromatic melodies, triads, seventh chords, harmonic progressions, and two to four part music. Computer software and programmed recordings are available to aid students in individual practice sections. *Offered fall.*

MU206 Ear Training IV (1 cr) Designed to develop the aural skills required by the professional musician. Includes sight singing and/or dictation of scales, intervals, diatonic and chromatic melodies, triads, seventh chords, harmonic progressions, and two to four part music. Computer software and programmed recordings are available to aid students in individual practice sections. *Offered spring.*

MU211 Fundamentals of Music I (2 cr) Studies notation: staves, clefs, pitch, duration and time signatures. Covers design and construction of scales: major and minor modes and key signatures, as well as interval construction and identification. *Offered fall.*

MU212 Fundamentals of Music II (2 cr) Studies the construction and identification of triads and inversions, construction and identification of seventh chords and inversions, and principles of spacing and doubling in four part harmonization. Covers an introduction to voice leading for progressions of diatonic triads in root position. *Prerequisite: MU211. Offered spring.*

MU213 Percussion Methods (1 cr) Options include timpani, bass drum, snare drum, cymbals, etc. Covers methods and materials for school music. *Offered in fall in odd numbered years.*

MU214 Brass Methods (1 cr) Options include trumpet, French horn, trombone, baritone, and tuba. Covers methods and materials for school music. *Offered in spring in odd numbered years.*

MU216 Woodwind Methods (1 cr) Options include flute, oboe, clarinet, saxophone, and bassoon. Covers methods and materials for school music. *Offered in fall in even numbered years.*

MU217 String Methods (1 cr) *Offered in spring in even numbered years.*

MU231 Diction for Singers (2 cr) Studies phonetics applied to English, Italian, French, German and Latin vocal literature with use of the International Phonetic Alphabet (IPA). *Offered as needed.*

MU251 Acoustics of Music (3 cr) Studies the science of the physical basis of music, sound waves and their characteristics, vibratory sources of sound, harmony and scales, tuning and temperament, hearing, electronic recording, reproducing and synthesizing of sound. *Prerequisite: MU211 or equivalent previously or concurrently. Offered spring.*

MU261 Music Theory I (3 cr) Reviews fundamentals; basic harmonic theory and analysis of tonal music; and diatonic triads in major and minor keys, spacing, doubling, voice leading and root position progressions. *Prerequisite: MU212 or placement examination. Offered fall.*

MU262 Music Theory II (3 cr) Studies theory, analysis and SATB harmonization; first and second inversions, cadences, non-chord tones, dominant and diatonic seventh chords. *Prerequisite: MU261. Offered spring.*

MU272 Recording Technology I (3 cr) Covers basic audio recording and production techniques, focusing on hardware, software, microphone placement, mixing, signal flow, processing, editing, mix-down, and mastering commonly used programs such as Sound Forge, Pro Tools, and Finale. *Prerequisite: MU212 or placement examination. Offered spring.*

MU273 Recording Technology II (3 cr) Covers basic audio recording and production techniques, focusing on hardware, software, microphone placement, mixing, signal flow, processing, editing, mix-down, and mastering commonly used programs such as Sound Forge, Pro Tools, and Finale. *Prerequisite: MU212 or placement examination. Offered fall.*

MU281 Music History Analysis I (3 cr) Surveys and analyzes the development of Western music, from the early Christian era to the present. Covers the integration of this music with that of other cultures. *Prerequisite: MU212. Offered fall.*

MU282 Music History Analysis II (3 cr) Surveys and analyses the development of Western music, from the early Christian era to the present. Covers the integration of this music with that of other cultures. *Prerequisite: MU281. Offered spring.*

MU290 Midi Applications in Music Education

MU310 Choral Conducting (3 cr) Studies basic techniques in conducting, analysis and score reading, and choral literature. *Offered fall.*

MU311 Instrumental Conducting (3 cr) Continues development of conducting techniques learned in MU310 Choral Conducting. Also includes analysis and score reading and instrumental literature. *Offered spring.*

MU312 Orchestration (3 cr) Studies the instruments in the orchestra, use in various combinations, clefs transposition study, score study, and the orchestration of various piano pieces (Baroque, Classical and Romantic) for instrumental combinations. Covers arranging for school ensembles, and includes the production of scores with the use of Finale. *Prerequisite: MU362. Offered spring.*

MU321 Curriculum and Methods of Music (Grades 5-12) (3 cr) Covers objectives, philosophies, methods and materials of teaching choral and instrumental music. Provides demonstration lessons, related field-based activities in nearby schools. Gives attention to teaching general music and music theory and the use of media in middle school and high school levels. *Prerequisites: ED210 and ED310. Offered as needed.*

MU361 Music Theory III (3 cr) Studies theory, analysis, harmonization and composition, along with secondary chord functions, diatonic and common tone modulation via secondary dominants, sequences, binary and ternary song forms. *Prerequisite: MU262. Offered every fall.*

MU362 Music Theory IV (3 cr) Studies theory, analysis, harmonization and composition, along with mode mixture, Neapolitan chord, augmented sixth chords, chromatic modulation, altered chords, and late nineteenth century practices. *Prerequisite: MU361. Offered spring.*

MU371 Curriculum and Methods of Music (K-9) (3 cr) Objectives, philosophies, methods and materials of teaching music in elementary schools. Provides demonstration lessons and related field-based activities in nearby schools. *Prerequisites: ED210, ED310. Offered as needed.*

MU372 Music Recording Techniques III Covers advanced audio recording and production techniques, focusing on hardware, software, microphone placement, mixing, signal flow, processing, editing, mix-down, and mastering commonly used programs such as Sound Forge, Pro Tools, and Finale. *Prerequisite: MU212 or placement examination. Offered fall.*

MU373 Music Recording Techniques IV Covers advanced audio recording and production techniques, focusing on hardware, software, microphone placement, mixing, signal flow, processing, editing, mix-down, and mastering commonly used programs such as Sound Forge, Pro Tools, and Finale. *Prerequisite: MU212 or placement examination. Offered spring.*

MU381 Form and Analysis (3 cr) Examines the detail of musical forms drawn from the Baroque, Classical, and Romantic repertoire. *Prerequisites: MU281 and MU282. Offered fall.*

MU382 Form and Analysis II (3 cr) Examines the detail of musical forms drawn from the Baroque, Classical, and Romantic repertoire. *Prerequisites: MU281 and MU282. Offered spring.*

MU401 Applied Music (2 cr) Private lessons in voice, piano, another instrument, or music composition for upper division music majors. Provides a forty minute lesson per week. *Prerequisites: MU282, MU362, Solfeggio proficiency, and permission of music faculty. Offered fall and spring.*

MU402 Applied Instrument (2 cr) Private lessons in voice, piano, another instrument, or music composition for upper division music majors. Provides a forty minute lesson per week. *Prerequisites: MU282, MU362, Solfeggio proficiency, and permission of music faculty. Offered fall and spring.*

MU481 Twentieth Century Music (3 cr) Studies styles and trends in European and American music since 1900 and analysis of representative compositions. Brief compositions are written in various styles. *Prerequisite: MU282. Offered fall.*

MU490 Chamber Singers Tour (3 cr) Options include European, Central American, or Chamber Singers Tours. *Offered varying January terms.*

MU491 Vocal Literature (3 cr) *Offered as needed.*

MU493 Piano Literature (3 cr) *Offered as needed.*

MU498 Music Ministry Practicum (12 cr) *Offered as needed.*

MU499 Practicum in Music Education (6 cr) Options include Practicum: Music Pre K-8 or Practicum: Music 5-12. *Offered as needed.*

Physics Department

Division of Natural Sciences

Dr. John Free (Division Chair), Professor

Paul Nyce (Chair), Assistant Professor

DEPARTMENT OBJECTIVES

1. To acquaint the student with certain precepts of the physical world ranging from the microcosm to the macrocosm and to show the way in which phenomena so widely separated can be tied together by a very few basic concepts.
2. To acquaint the student with the methodology of science showing both its inductive and deductive nature and to show the range of applicability of this method.
3. To acquaint the student with the effectiveness of the methods of precise measurement and mathematical analysis in a field in which such methods are preeminently successful.
4. To enable the student to see science in its proper perspective relative to all endeavors of humankind.
5. To prepare the student adequately in the basic areas of Physics for any position demanding a baccalaureate degree with a major in these fields.
6. To develop the enthusiasm and the requisite techniques demanded for the continued study of Physics on the graduate level.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Physics*

Bachelor of Arts: *Physics*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

GENERAL EDUCATION REQUIREMENTS

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, minimum grade C-, 9 credits

Required: PY201/PY201L General Physics I and Lab, 5 credits

Required: MA151 Calculus I, 4 credits

Social Science, BS 3 credits, BA 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

Physics Core Requirements for BA and BS (all required) minimum grade C-, 22 credits

PY201/PY201L General Physics I w/Lab	5
PY202/PY202L General Physics II w/Lab	5
PY301/PY301L Modern Physics I w/Lab	4
PY312/PY312L Applied Mechanics w/Lab	4
PY322/PY322L Electricity and Magnetism w/Lab	4

PHYSICS (BS) REQUIREMENTS

- Fulfill all General Degree Requirements - see above
- Fulfill all General Education Requirements - see p. 12
- Fulfill all Physics Core Requirements - see above, 22 credits

Physics (BS) Additional Requirements, 15 credits, minimum grade C-

PY333 Quantum Mechanics	3
PY412 Statistical Thermodynamics	3
PY471 Intermediate Mechanics	3
PY472 Electromagnetic Theory	3
PY499 Senior Research in Physics	3

Math Requirements for Physics (BS/BA), minimum grade C-, 18 credits

MA151 Calculus I	4
MA152 Calculus II	4
MA201 Linear Algebra	4
MA211 Calculus III	3
MA212 Differential Equations	3

Chemistry Requirements for Physics (BS/BA), minimum grade C-, 8 credits

CH103/CH103L General Chemistry I w/Lab	4
CH104/CH104L General Chemistry II w/Lab	4

PHYSICS (BA) REQUIREMENTS

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Physics Core Requirements - see above, 2 credits
- Elective Credits (Physics or other) - 21 credits

PHYSICS COURSE DESCRIPTIONS

PY101/PY101L Astronomy and Lab (4 cr) Surveys the science of astronomy. Introduces the study of the universe at all levels, starting with the earth and destiny of the known physical universe. Cosmology receives special emphasis and a brief treatment of the relevant theological issues is included. Laboratory required.

PY102 Physical Science (3 cr) A survey of selected topics within the domain of Physical Science. Topics covered include physics (primarily mechanics, waves, electricity, and magnetism), inorganic chemistry (atomic, nuclear, and chemical bonding), earth science (rocks, minerals, and geological processes), and astronomy (cosmology, stellar evolution, and relativity). Designed especially for education majors. Laboratory required. *Prerequisite: high school or college algebra.*

PY102L Physical Science Lab (1 cr) Laboratory explorations of selected topics covered in PY102. Emphasis is on experiments that can be readily duplicated in middle to high school physical science courses, as well as the application of scientific methodology. *Co-requisite: PY102.*

PY201 General Physics I and Lab (4 cr) Studies basic physics for students of science and/or mathematics and for those preparing for engineering, medicine, or subsequent course work in Physics. Covers Newtonian mechanics, mechanical waves, and thermodynamics. Laboratory required. *Prerequisite: MA151 or concurrent enrollment.*

PY201L General Physics I Lab (1 cr) Laboratory explorations of the topics covered in PY201. Emphasizes experimental methodology and reporting. *Co-requisite: PY201.*

PY202 General Physics II with Lab (4 cr) Studies basic physics for students of science and mathematics and for those preparing for engineering, medicine, or subsequent course work in Physics. Covers electricity and magnetism, optical phenomena, and an introduction to topics in modern (post-1900) physics. Laboratory required. *Prerequisites: MA152 or concurrent enrollment and PY201.*

PY202L General Physics II Lab (1 cr) Laboratory explorations of the topics covered in PY202. Emphasizes experimental methodology and reporting. *Co-requisite: PY202.*

PY301 Modern Physics I (3 cr) Introduces the physics of the twentieth century. Analyzes the crisis that developed in classical physics and gave rise to the revolutionary changes in the early twentieth century. Develops relativity and quantum theory with applications to atomic systems. Laboratory required. *Prerequisites: PY202, MA212 or concurrent enrollment.*

PY301L Modern Physics Lab (1 cr) Laboratory explorations of topics covered in PY301. Emphasizes experimental methodology and reporting.

PY312 Applied Mechanics (3 cr) Applies the principles of statics and dynamics begun in General Physics. Newton's Laws are applied in a wide variety of contexts. Laboratory required. *Prerequisites: PY202, MA152.*

PY312L Applied Mechanics Lab (1 cr) Laboratory explorations of the topics covered in PY312. Emphasizes experimental methodology and reporting. *Co-requisite: PY312.*

PY322 Electricity and Magnetism (3 cr) Develops electro- and magnetostatics by the use of vector methods. Studies circuit analysis employing Kirchhoff's Laws. Gauss' law, Faraday's law of induction, and Ampere's law are all treated in integral and differential forms. Studies electromagnetic properties of matter. Laboratory required. *Prerequisites: PY202, MA212 or concurrent enrollment.*

PY322L Electricity and Magnetism Lab (1 cr) Laboratory explorations of the topics covered in PY322. Emphasizes experimental methodology and reporting. *Co-requisite: PY322.*

PY325 Introduction to Research (3 cr) Introduces research techniques by working on small projects, such as vacuum techniques, computer interfacing, and optics. The student has the opportunity to get involved in one of the departmental research projects.

PY333 Quantum Mechanics (3 cr) Applies introductory quantum mechanics to molecular binding, properties of solids, and nuclear physics. Offered on a variable schedule. *Prerequisites: PY301, MA212.*

PY412 Statistical Thermodynamics (3 cr) Studies and applies thermodynamics. Devotes main topics to kinetic theory of gases and statistical mechanics. Laboratory required. *Prerequisites: PY301 or CH402 and MA212. Offered in alternate years.*

PY471 Intermediate Mechanics (3 cr) Derives Lagrange's and Hamilton's equations in order to treat dynamical systems more generally. Special emphasis is on those aspects of classical mechanics which are prerequisites of quantum mechanics. *Prerequisites: PY312, MA212. Offered in alternate years.*

PY472 Electromagnetic Theory (3 cr) Derives and applies Maxwell's equations. Solves boundary-value problems. Studies electromagnetic waves with applications to the laws of optics. *Prerequisites: PY312, PY322, MA212. Offered in alternate years.*

PY499 Senior Research in Physics (3 cr) Requires participation in a research project related to faculty research interest. Introduces current literature and research in experimental physics. A written report and oral summary before two or more faculty members is required. *Prerequisites: six courses in Physics and permission of instructor.*

Preparatory Courses of Study

Preparatory courses of study are recommended courses based on a student's vocational goals and desires for continued study on the graduate level. They do not represent individual majors, but courses of study to prepare students for further study in medicine, law, physical therapy, occupational therapy, or pharmacy. Preparatory programs may be taken in conjunction with any major and represent recommended sets of courses, not majors or minors. Students who desire to continue their educational pursuits in the following areas should consider the recommended course sequences outlined below.

PRE-LAW

Dr. Donald Yerxa, Director

The Pre-Law Program at Eastern Nazarene College emphasizes a strong liberal arts perspective and stresses academic skills that will challenge students in the quest for new knowledge and professional growth. ENC has an outstanding record of placing graduates in prestigious law schools. Students interested in a career in law need to know that the American Bar Association and the Law School Admission Council frown

upon undergraduate majors in the law.

At the undergraduate level, selection of a particular program of study is less important than the acquisition of skills for clear thinking and reasoning. Students heading for law schools are advised to select any major that challenges them academically and forces them to think. Programs at ENC that have successfully placed students in law schools are: History, English, Social Work, Psychology, and Business, but almost any major, if pursued with diligence, would prepare a student for law school.

Pre-Law Minor

Students with a serious interest in law (those intending to enter law school or those seeking to enhance their liberal arts education with a deeper understanding of the law) are encouraged to take a minor in Pre-Law. The Pre-Law minor consists of the following five courses (15 credits). GO452 and GO455 have GO210 as a prerequisite. While not part of the minor, students are encouraged to take accounting courses as electives.

PH331 Critical Thinking and Logic

C0410 Persuasion and Argumentation

BA411 Business Law

GO452 Seminar in Law and Society

GO455 Seminar in Christianity and the Law

Descriptions of these courses appear in their respective departmental listings.

PRE-MEDICINE

Dr. Matthew Waterman, Advisor

Since medical schools differ in the details of their requirements, students should inquire as early as possible about the requirements of the schools of their choice so that their programs can be planned accurately. The Health Professions Committee has been established to advise and counsel the student and is especially helpful in the actual process of applying to medical school. The student must be approved by the committee in order to use its services.

Pre-Medicine Required Classes, minimum grade B

BI103/103L Introduction to Cell Biology and Genetics w/Lab

BI104/104L Introduction to Ecology and Diversity w/Lab

BI105/105L Introduction to Plants and Animals w/Lab

CH103/103L General Chemistry I w/Lab

CH104/104L General Chemistry II w/Lab

CH321/321L Organic Chemistry I w/Lab

CH322/322L Organic Chemistry II w/Lab

MA151 Calculus I

PY201/201L General Physics I w/Lab

PY202/202L General Physics II w/Lab

Recommended Courses, minimum grade B

CH491 Biochemistry Lab

CH492 Biochemistry I

MA152 Calculus II

PRE-NURSING

BI103/BI103L Introduction to Cell Biology and Genetics w/Lab
BI104/104L Introduction to Ecology and Diversity w/Lab
BI105/105L Introduction to Plants and Animals w/Lab
BI203 Musculoskeletal Anatomy and Physiology
BI204 Systematic Anatomy and Physiology
BI352 Microbiology
CH101/CH101L Introduction to Chemistry w/Lab
CH102 Chemistry of Life
MA118 Introduction to Statistics
PE222 First Aid and CPR
PS110 Introduction to Psychology
PS240 Lifespan Development
PS372 Abnormal Psychology

PRE-PHYSICAL THERAPY

BI203/BI204 Musculoskeletal Anatomy and Physiology; Systematic Anatomy and Physiology
PE316 Kinesiology
PE317 Physiology of Exercise
One additional Biology elective above BI200
PS110 Introduction to Psychology
PS240 Lifespan Development
PS372 Abnormal Psychology
Some physical therapy programs also require a course in business management.

PRE-OCCUPATIONAL THERAPY

Students pursuing Occupational Therapy will need all of the courses for physical therapy, as well as PS331 Theories of Personality.

PRE-PHARMACY PROGRAM

The pre-pharmacy experience at ENC prepares you to enter into many pharmacy programs across the country as well as graduate school in pharmacology and medicinal chemistry. With the sophistication and number of today's medicines, it is even more important that pharmacists be intelligent, talented, and dedicated people. The necessary education can be obtained with the combination of ENC and your choice of pharmacy schools. Sound course work in the sciences and personal development, which leads to high ethical standards and a deep dedication to helping people, are stressed at ENC. In pharmacy school, all the necessary specific training in pharmacy is provided by experienced professionals. As a pre-pharmacy student at ENC, you will always have the opportunity to switch to another field of study in the sciences without sacrificing completed college course work. ENC is located near the Massachusetts College of Pharmacy with campuses in Boston, MA, Worcester, MA, and Manchester, NH. ENC is also located near the Northeastern University Bouvé College of Health Sciences School of Pharmacy in Boston, MA.

Pre-Pharmacy Transfer Program

All course work required for entrance into pharmacy school is completed in this sequence. A student enrolled in this program of study would generally apply for transfer into pharmacy school at the completion of these required courses, which generally takes 2 to 3 years depending on the student's high school preparation. On transferring from ENC, the student would be an alumnus/a of ENC; however, the student would not receive an academic degree from Eastern Nazarene College. Typically, for successful transfer, the student needs to have a minimum 3.0 GPA and satisfactory scores on the Pharmacy College Admission Test (PCAT).

Required Courses

BI103/BI103L Introduction to Cellular Biology and Genetics w/Lab
BI105/BI105L Introduction to Plants and Animals w/Lab
CH103/CH103L General Chemistry I w/Lab
CH104/CH104L General Chemistry II w/Lab
CH321/CH321L Organic Chemistry I w/Lab
CH322/CH322L Organic Chemistry II w/Lab
PY201/PY201L General Physics I w/Lab
PY202/PY202L General Physics II w/Lab
MA151 Calculus I
MA152 Calculus II
MA118 Introduction to Statistics
PS110 Introduction to Psychology
BA231 Principles of Economics I
EN103 Critical Writing
EN104 Rhetoric
CO110 Fundamentals of Speech
BL110 Biblical History and Literature
CP295 The Philosophical Quest

Suggested Electives

CP240 World Literature
CP230 Arts and Music
One of several variable Intercultural Literacy Options
SO110 Introduction to Sociology
IN210 Peoples and Cultures of the World **OR**
IN299 Special Topics in Intercultural Studies

PROPOSED PRE-PHARMACY DUAL DEGREE PROGRAM

For students with a strong interest in a Christian liberal arts education and a career in pharmacy, ENC offers a sequence where a student may earn a Bachelor of Science degree in Chemistry from Eastern Nazarene College leading to a doctor of pharmacy degree (PharmD) upon transfer to Pharmacy School. The first three years of study for the BS degree in Chemistry are performed at Eastern Nazarene College. Students will receive their degree from ENC after successful completion of the first year of study in the PharmD program. The dual degree program typically requires one year more to complete than a regular entry level six-year PharmD, however, the dual degree offers greater flexibility in career options.

Requirements

- Complete the course of study for a BS major in Chemistry. The specific course work, taken both at ENC and at pharmacy school, must be approved by the Chemistry Department in accordance with curriculum guidelines.
- Complete the Liberal Arts General Education Core requirements, with the exception of one instead of two Social Science options, one instead of two Intercultural Literacy options, and Living Issues.
- Of the minimum 123 credits required for graduation, 106 academic credits must be earned at ENC.
- Grades from the pharmacy school must be submitted to the Eastern Nazarene College registrar prior to graduation.
- Maintain a grade point average of at least 3.00 in science and mathematics courses.
- Maintain a cumulative grade point average of at least 2.80.

Psychology Department

Division of Social Sciences

Dr. Richard Fish, Professor

Dr. Janet Lanham (Chair), Professor

Dr. Nancy Ross, Associate Professor

Dr. Brian Massey, Assistant Professor

DEPARTMENT OBJECTIVES

1. To provide a spiritual and academic atmosphere in which the student is able to reflect upon and integrate Christian principles with the tenets of psychology.
2. To provide the student with a broad background in psychological theory and research methods which will prepare the student for further professional development and graduate training. The department strives to encourage an appreciation for research and a desire to keep abreast of current literature.
3. To provide the student with an understanding of the development and dynamics of human behavior that will strengthen the student liberal arts experience. The department functions in close relationship with the major academic and professional goals of other departments.
4. To provide an opportunity for students to grow in self-understanding, appreciation of diversity, and acceptance of others. Discernment between healthy/unhealthy and nurturing/abusive behavior is fostered. The department provides an atmosphere conducive to such growth and appreciation of the dimensions of human personality and behavior.
5. To enhance the student's oral and written communication skills by incorporating effective listening, constructive interpersonal communication, use of the American Psychological Association (APA) writing style, and other skills conducive to meaningful communication.
6. To provide the student with opportunities for fieldwork experience which will strengthen the student's understanding of theoretical models, research, and the integration of differing viewpoints. Students are encouraged to participate in a variety of community and institutional contexts in their development both as students and concerned members of society.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Science: *Psychology - Clinical and Research*

Bachelor of Arts: *Psychology - Social Relations; Psychology - Child and Adolescent Development*

Double Major: *Sociology/Psychology (see Sociology); Criminal Justice/Philosophy (see Criminal Justice)*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 7 credits

Required Math: PS251 Statistics for Social Sciences, 3 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

PSYCHOLOGY - SOCIAL RELATIONS TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Elective Credits (Psychology or other) 42 credits

Social Relations Major Requirements (all required) minimum grade C-, 24 credits

PS110 Introduction to Psychology	3
PS240 Lifespan Development	3
PS313 Social Psychology	3
PS331 Theories of Personality	3
PS351 Methods of Social Research	3
PS352 Junior Psychology Seminar	1.5
PS372 Abnormal Psychology	3
PS430 Field Experience	3
PS453 Senior Psychology Seminar	1.5

Psychology Electives (choose one) minimum grade C-, 3 credits

PS314 Group Psychology	3
PS315 Urban Experience	3
PS331 Theories of Personality	3
PS342 Child Development	3
PS343 Adolescent Development	3

PS353 Psychology of Learning	4
PS388/PS488 Internship in Psychology	varies
PS392 Counseling Psychology	3
PS432 Physiological Psychology	3
PS434 Cognitive Psychology	3
PS450 Advanced Research Methods	3
PS451 History of Psychology	1.5
PS452 Current Issues in Psychology	1.5
PS472 Psychology of Religion	3
PS492 Psychology of Gender	3
PS499 Research In Psychology	varies

PSYCHOLOGY - CHILD AND ADOLESCENT TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits

Child and Adolescent Major Requirements (all required) minimum grade C-, 21 credits

PS110 Introduction to Psychology	3
PS240 Lifespan Development	3
PS331 Theories of Personality	3
PS351 Methods of Social Research	3
PS352 Junior Psychology Seminar	1.5
PS372 Abnormal Psychology	3
PS430 Field Experience	3
PS453 Senior Psychology Seminar	1.5

Child and/or Adolescent (choose one) minimum grade C-, 3 credits

PS342 Child Development	3
PS343 Adolescent Development	3

Psychology Elective (choose one) minimum grade C-, 3 credits

Any PS course - see list above. May take PS342 or PS343 as other elective.

PSYCHOLOGY - CLINICAL AND RESEARCH TRACK (BS) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Lab science recommend BI101 or BI110
- Elective Credits: BI107/107L Principles of Biology or B110/110L Nutrition for Non-majors (Psychology or other) 30 credits

Clinical Research Major Requirements (all required) minimum grade C-, 36 credits

PS110 Introduction to Psychology	3
PS240 Lifespan Development	3
PS313 Social Psychology	3
PS331 Theories of Personality	3
PS351 Methods of Social Research	3
PS352 Junior Psychology Seminar	1.5

PS353 Psychology of Learning	4
PS372 Abnormal Psychology	3
PS392 Counseling Psychology	3
PS430 Field Experience	3
PS432 Physiological Psychology	3
PS450 Advanced Research Methods	3
PS453 Senior Psychology Seminar	1.5
Additional Clinical and Research Cognate, credits	
SO451 Quantitative Research and Data	3

PSYCHOLOGY COURSE DESCRIPTIONS

PS110 Introduction to Psychology (3 cr) A survey course which discusses the main subfields of psychology as the science of behavior and mental process. Gives attention to history, personalities, and past and current research findings of the field and how they are applied to everyday life. *Offered fall and spring.*

PS240 Lifespan Development (3 cr) Studies human growth and development from a predominantly psychological perspective throughout the life span and research findings and current perspectives on physical, intellectual, personality, and social development from conception to death. *Offered fall and spring.*

PS251 Statistics for the Social Sciences (3 cr) Introduces descriptive and inferential statistics, emphasizing the understanding of and skills in the processes of organizing, calculating and interpreting quantitative information. Also serves as a forum for initiating the process for ongoing psychological research. Fulfills Math requirement for Social Science majors. *Offered fall and spring.*

PS313/SO313 Social Psychology (3 cr) Seeks to understand the nature and causes of individual behavior in social situations, for the purpose of finding ways to improve the quality of life in society. Explores issues such as: social perception and cognition, attitude formation, prejudice and discrimination, interpersonal attraction, altruism, aggression, group behavior, and environmental and organizational psychology. Encourages application to a contemporary issue. *Prerequisite: PS110 or SO110. Cross-listed as SO313. Offered annually.*

PS314/SO314 Group Psychology (3 cr) Studies group theory and reflective experiencing of group dynamics and processes in a class format that emphasizes participation in different kinds of group activities. Topics include group communication, membership, norms, goals, leadership, problem solving and group evolution. Applications are made to a variety of settings, e.g. business, church, therapy, and education. *Cross-listed as SO314. Offered in alternate years.*

PS315/SO315 Urban Experience (3 cr) An interdisciplinary approach to understanding the dynamics and challenges of life and ministry in the city. Readings and lectures from varied theoretical perspectives (theological, psychological, sociological, economic, and political) are combined with exposure to various urban ministry models through site visits and field experience. Includes travel and a special course fee to cover travel expenses. *Prerequisite: Sophomore standing. Cross-listed as SO315. Offered varying years.*

PS331 Theories of Personality (3 cr) Examines personality structure, dynamics and development with emphasis on major theoretical perspectives and methods of research. Attention is given to the comparative analysis of the major theoretical models. *Prerequisites: PS110, PS240, or permission of instructor. Offered annually.*

PS/SW332 Substance Abuse (3 cr) Provides students with an overview of substance abuse from a systems perspective. Explores the major theories of addiction, the physiological and psychological results of substance abuse, commonly used substances and their effects, and the latest treatment developments and research findings. Offered spring.

PS342 Child Development (3 cr) Studies child development from birth up to pre-adolescence. Attention is given to a variety of perspectives - biological, cognitive, emotional and social development. Theories of child development and current research are addressed in order to provide the student with a comprehensive understanding of the nature, challenges and potential in child development. Also considers specific contexts, such as the family, peer relationships, school and community life. *Offered alternate years.*

PS343 Adolescent Development (3 cr) Studies adolescent development from a variety of perspectives – biological, cognitive, emotional and social. Theories of adolescent development and current research are addressed in order to provide the student with a comprehensive understanding of the nature of adolescent development, fundamental changes and contexts as well as challenges and opportunities posed by our current society. Attention is given to the dynamics of family life and the intergenerational interactions. *Offered alternate years.*

PS351/SO351 Methods of Social Research (3 cr) Develops research skills with emphasis on social research as a scientific inquiry and problem-solving tool in explaining human social behavior. Students learn how to formulate problems for research and implement appropriate research methods. *Prerequisite: PS251 or permission of instructor. Cross-listed as SO351. Offered fall and spring.*

PS352 Junior Psychology Seminar (1.5 cr) Guides the psychology major in preparing for the senior comprehensive exam in psychology. A secondary purpose is to provide a resource in career planning for students as they move toward specific post-graduation goals of either seeking psychology-related employment or applying for graduate school in psychology. Both individual and group activities are scheduled in order to facilitate the senior comprehensive preparation and career planning. *Prerequisite: Junior standing. Offered annually.*

PS353 Psychology of Learning (4 cr) An in-depth study of methods and results of psychological research on learning and memory with an emphasis on the basic issues of acquisition and performance in humans and animals. Examines the processes by which people acquire, store and use information. A lab is included. *Prerequisites: PS110, PS240. Offered in alternate years.*

PS372 Abnormal Psychology (3 cr) Studies psychological disorders with emphasis upon historical, etiological, descriptive, diagnostic, therapeutic, and experimental approaches. *Prerequisites: PS110, PS240. Offered annually.*

PS392 Counseling Psychology (3 cr) Introduces basic counseling skills such as active and reflective listening. Exposes current models for counseling intervention. Presents the affective behavioral and cognitive paradigms with discussion of their relative strengths and weaknesses. *Prerequisites: PS110, PS240. Offered alternate years.*

PS430 Field Experience (3 cr) Supervises a practical experience in a vocation closely related to the student's interest and/or future plans in psychology. Readings, written assignments and group meetings assist the student in reflecting on and integrating the knowledge gained from involvement at an approved placement site. *Prerequisite: Attendance at a pre-placement meeting. Recommended for Junior year. Cross-listed as SO430, CJ430. Offered fall and spring. Offered summer with special permission by department head.*

PS432 Physiological Psychology (3 cr) Introduces physiological structures and functions that are of interest to behavioral science. Emphasizes sensory processes, the central nervous system, higher cognitive functioning, and the neuropsychological perspective of behavioral disorders. *Prerequisites: PS110, PS240. Offered in alternate years.*

PS434 Cognitive Psychology (3 cr) Describes and evaluates topics dealing with human learning, thinking, reasoning, concept formation, memory and language. Various theoretical approaches are contrasted in light of established and current research in the field. Special emphasis is placed on the process of moving from research to an understanding of basic cognitive principles within class demonstrations of various research methodologies. *Offered alternate years.*

PS450 Advanced Research Methods (3 cr) Familiarity with basic research methods and statistics is assumed. Exposes students to current research paradigms in psychology, placing special emphasis on the process of empirically testing theory. Both experimental and non-experimental research methods are examined. A major course requirement is the production of an individual research project that will include designing a study, carrying out data collection and analysis, and APA report writing. In addition, students will orally present the results of their study to psychology faculty and peers. *Prerequisites: PS251 and PS351. Offered alternate years.*

PS451 History of Psychology (1.5 cr) Explores the philosophical, physiological, and religious antecedents of modern psychology with a focus on influential historical figures and the development of major theoretical perspectives. Examines the socio-cultural contexts of these personalities and their ideas with an eye to their impact on contemporary psychology. *Prerequisite: Junior standing. Offered varying years.*

PS452 Current Issues in Psychology (1.5 cr) Seminar-style discussion of current literature on selected topics in the field of psychology. Readings are from recent issues of scholarly journals and the topics relate to current events and controversial issues. *Prerequisite: Junior standing. Offered varying years.*

PS453/BA493 Senior Psychology Seminar (1.5 cr) Guides the psychology major in his/her preparations for the comprehensive examination in psychology. Continues facilitating the career planning begun in Junior Psychology Seminar, for post graduation goals of either seeking psychology related employment or applying for graduate school in psychology. *Prerequisite: PS352 Junior Psychology Seminar. Offered annually.*

PS472 Psychology of Religion (3 cr) Examines religious experience, belief, and behavior from a psychological perspective. In a seminar format, students read primary source material to examine the lives and theories of several leaders in the field, research and reflect on selected topics of interest to both psychologists and theologians, and evaluate one's own role as a psychological interpreter of religion. *Prerequisites: PS110 and Sophomore standing. Offered in alternate years.*

PS493 Seminar in Personal Financial Management (3 cr) Introduces managing personal finances. Topics include investing, retirement planning, career planning, money management and budgeting, taxes, consumer credit, and purchasing strategies (home, auto, insurance). *Cross-listed as BA493. Offered alternate years.*

PS499 Research in Psychology (3 cr) Designed for the advanced Psychology major who desires to continue supervised work on a research project. The student in consultation with a Psychology faculty member develops goals for the project including literature review, data collection tools and procedures, data analysis and method of presentation. Can be taken for 1-3 credit hours per semester and up to 6 credit hours. *Prerequisite: Permission of the chair of the Department of Psychology*

Religion, Biblical Studies, Theology, Philosophy, and Youth Ministry

Division of Religion and Philosophy

Dr. William Malas (Chair), Associate Professor

Dr. Mary Lou Shea, Assistant Professor

Jeffrey Barker, Assistant Professor

Philip LaFountain, Assistant Professor

Eric Severson, Assistant Professor

DEPARTMENT OBJECTIVES

1. To foster an atmosphere that encourages the development of a Christian worldview and provides the opportunity to test it against alternative views.
2. To acquaint the student with the history, literature, and theology of the Bible as the Word of God and to give instruction in its proper use.
3. To introduce the student to the richness of the Christian tradition.
4. To delineate the parameters of Wesleyan holiness theology.
5. To achieve an understanding of the great philosophers, the questions they raise, and the answers they propose.
6. To encourage the development of reflective, compassionate, and mature personhood, drawing upon the resources of the Christian witness to God's grace.
7. To cultivate the skills necessary for effective ministry.
8. To lay a foundation for further specialization in seminary or university study.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Arts: *Religion; Biblical Literature; Christian Ministry (Non-Ordination Track); Christian Ministry (Ordination Track); Youth Ministry; Theology/Philosophy*

Interdisciplinary Major: *Urban Ministry (Religion and Sociology) - see Sociology Department for degree requirements.*

Minors: *Biblical Literature; Christian Ministry; Church History; Missions; Biblical Languages; Theology; Philosophy; Religion; Youth Ministry*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below, 48 credits
- Earn minimum Graduation Credits 123
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math or Science, 7 credits

Social Science, 6 credits

Cultural Perspectives Requirements, 18 credits

RELIGION (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits

Old Testament Elective (choose one) minimum grade C-, 3 credits

HE301 Reading Biblical Hebrew	3
BL310 Pentateuch	3
BL318 Old Testament Historical Books	3
BL319 Hebrew Prophets	3
BL410 Daniel/Revelation	3

New Testament Elective (choose one) minimum grade C-, 3 credits

BL323 Synoptic Gospels	3
BL327 Pauline Epistles	3
BL410 Daniel/Revelation	3
BL431 Johannine Literature	3
GK301 Reading Koine Greek	3

Bible Elective (choose one) minimum grade C-, 3 credits

Choose any from the Old Testament or New Testament lists above.

Religion Language Requirement (Fulfills General Education Intercultural Literacy Requirements) (choose two) minimum grade C-, 6 credits

HE201 Introduction to Hebrew I	3
HE202 Introduction to Hebrew II	3
HE301 Reading Biblical Hebrew	
GK101 Elementary New Testament Greek I	3
GK102 Elementary New Testament Greek II	3
GK301 Reading Koine Greek	3
SP101 Elementary Spanish I	3
SP102 Elementary Spanish II	3

Church History Elective (choose one) minimum grade C-, 3 credits

TH430 Early Christianity	3
TH431 Medieval Christianity	3
TH432 Reformation	3
TH433 American Christianity	3
TH446 Life and Thought of John Wesley	3

Theology Elective (choose one) minimum grade C-, 3 credits

TH443 Revealed God and Sinful Humanity	3
TH444 Salvation, Sanctification and Life in the Spirit	3
TH450 Christian Worship	3
TH472 Doctrine of Holiness	3

Wesley or Doctrine of Holiness Elective (choose one) minimum grade C-, 6 credits

- TH446 Life and Thought of John Wesley and additional theology elective
- TH472 Doctrine of Holiness and additional church history elective

Philosophy Electives (choose two) minimum grade C-, 6 credits

History of Philosophy Course (choose one) minimum 3 credits

PH381 Ancient and Medieval Philosophy	3
PH382 Modern and Postmodern Philosophy	3

Philosophy Elective (choose one) minimum 3 credits

GS420 Issues in Science and Religion	3
PH300 World Religions	3
PH331 Critical Thinking and Logic	3
PH381 Ancient and Medieval Philosophy	3
PH382 Modern and Postmodern Philosophy	3
PH385 Christian Ethics	3
PH450 Philosophy of Religion	3
TH495 Senior Seminar (required)	3

THEOLOGY AND PHILOSOPHY (BA) DEGREE REQUIREMENTS

- Fulfill all General Degree Requirements - see previous
- Fulfill all General Education Requirements - see above, 54 credits

Note: General Education Intercultural Literacy - must be a language, 6 credits

Theology Option (choose one) minimum grade C-, 3 credits

TH446 Life and Thought of John Wesley OR
TH472 Doctrine of Holiness

Required Philosophy, minimum grade C-, 3 credits

PH450 Philosophy of Religion

Biblical Studies Elective (choose one) minimum grade C-, 3 credits

BL310 Pentateuch	3
BL318 Old Testament Historical Books	3
BL323 Synoptic Gospels	3
BL327 Pauline Epistles	3
BL410 Daniel/Revelation	3
BL431 Johannine Literature	3
GK301 Reading Koine Greek	3

Philosophy (choose one) minimum grade C-, 3 credits

PH381 Ancient and Medieval Philosophy	3
PH382 Modern and Postmodern Philosophy	3

Theology or Philosophy Electives (choose four) minimum grade C-, 12 credits

PH300/MI300 World Religions	3
PH331 Critical Thinking and Logic	3
PH381 Ancient and Medieval Philosophy	3
PH382 Modern and Postmodern Philosophy	3
PH385 Christian Ethics	3
PH421 History of Ancient Philosophy	3
PH422 History of Modern Philosophy	3
PH450 Philosophy of Religion	3
TH385 Christian Ethics	3
TH399 Topics in Theology	3

TH443 Revealed God and Sinful Humanity	3
TH444 Salvation, Sanctification and Life in the Spirit	3
TH445 Seminar in Theology	3
TH446 Life and Thought of John Wesley	3
TH450 Christian Worship	3
TH472 Doctrine of Holiness	3
TH491 Senior Research Seminar	3
TH499 Independent Research in Theology	3

Theology or Philosophy (choose one from the list above or one Interdisciplinary course from the list below)

GS420 Science and Religion	3
HI481 Philosophy of History	3
PS472 Psychology of Religion	3
SO242 Sociology of Religion	3

Church History Elective (choose one) minimum grade C-, 3 credits

TH430 Early Christianity	3
TH431 Medieval Christianity	3
TH432 Reformation	3
TH433 American Christianity	3

Complete Senior Seminar, minimum grade C-

TH495 Senior Seminar	3
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CHRISTIAN MINISTRY MAJOR

Majors are required to take the Liberal Arts Core (including: TH300 Christian Tradition and CP295 Philosophical Quest). Language studies are required. (Students are strongly encouraged to take Greek or Hebrew, but any language will fulfill this requirement.) Degree requirements include:

Old Testament Elective (choose one) minimum grade C-, 3 credits

HE301 Reading Biblical Hebrew	3
BL310 Pentateuch	3
BL318 Old Testament Historical Books	3
BL319 Hebrew Prophets	3
BL410 Daniel/Revelation	3

New Testament Elective (choose one) minimum grade C-, 3 credits

BL323 Synoptic Gospels	3
BL327 Pauline Epistles	3
BL410 Daniel/Revelation	3
BL431 Johannine Literature	3
GK301 Reading Koine Greek	3

Two additional electives in either Old Testament or New Testament

Three Courses in Philosophy:

Choose between: PH381 Ancient and Medieval Philosophy OR	3
PH382 Modern and Postmodern Philosophy	3
Two electives in Philosophy	

Eight courses in Theology and Church History:

TH450 Christian Worship (required)	3
Four electives in Theology. <i>One elective in Theology or Philosophy may be replaced by a related course in another discipline with approval of the Division Chair. Related courses already approved include: PS472 Psychology of Religion, SO242 Sociology of Religion, HI481 Philosophy of History, and GS420 Issues in Science and Religion.</i>	12
Elective in Church History (see above), minimum grade C-, 3 credits	3
One Additional Elective in Theology or Church History	
Choose between: TH446 Life and Teachings of John Wesley OR	3
TH472 Doctrines of Holiness	3

Four courses in Pastoral Ministry

PM452 The Practice of Christian Ministry (required)	3
PM461 The Making of Sermons (required)	3
Two electives in Pastoral Ministry: Up to one course in Theology and two courses in Pastoral Ministry (three total) may be replaced with courses from other disciplines, including business administration, communication arts, music, psychology, and sociology. All substitutions must be approved by the division chair.	

TH495 Senior Seminar 3

Practicum in Christian Ministry 12

Four 3-hour courses designed to provide students with a specific, supervised, integrative, and significant opportunity to apply theological knowledge in a ministry setting, e.g. the local church.

Note: An ordination track for this major is currently under revision. If you are interested in meeting education requirements for ordination in the Church of the Nazarene, please contact your advisor and the division chair.

YOUTH MINISTRY (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements
Required Social Science: PS343 Adolescent Development, minimum grade C-
Note: Must take a language sequence.
- Fulfill all the requirements for Religion Major - see previous

Additional Bible Elective, minimum grade C-, 3 credits

BL310 Pentateuch	3
BL318 Old Testament Historical Books	3
BL323 Synoptic Gospels	3
BL327 Pauline Epistles	3
BL410 Daniel/Revelation	3
BL431 Johannine Literature	3
GK301 Reading Koine Greek	3
HE301 Reading Biblical Hebrew	3
BL319 Hebrew Prophets	3

Take three additional Theology courses, minimum credits 9

TH385 Christian Ethics	3
TH399 Topics in Theology	3
TH443 Revealed God and Sinful Humanity	3
TH444 Salvation, Sanctification and Life in the Spirit	3
TH445 Seminar in Theology	3
TH450 Christian Worship	3
TH451 Topics Pastoral Ministry	3
TH472 Doctrine of Holiness and Theology	3

Additional Philosophy Elective, minimum grade C-, 9 credits

GS420 Issues in Science and Religion	3
PH300 World Religions	3
PH331 Critical Thinking and Logic	3
PH381 Ancient and Medieval Philosophy	3
PH382 Modern and Postmodern Philosophy	3
PH385 Christian Ethics	3
PH450 Philosophy of Religion	3

Christian Education Electives, minimum grade C-, 6 credits

CE222 Philosophy and of Methods Youth Ministry	3
CE401 Issues in Youth Ministry	3
CE485 Practicum Youth Ministry (recommended)	3

Pastoral Ministry Courses (choose three) minimum grade C-, 9 credits

PM440 Introduction to Pastoral Counseling	3
PM452 Practice of Christian Ministry	3
PM461 Making Sermons	3

RELIGION MINOR

Students in any major may minor in Religion by completing five courses in the Religion department with a BL, TH, or PM prefix numbered 301 or above.

YOUTH MINISTRY MINOR

CE222 Philosophy and Methods of Youth Ministry	3
CE401 Issues of Youth Ministry	3
One elective in Theology	3
BL323 Synoptic Gospels OR BL327 Pauline Epistles	3
PM452 The Practice of Christian Ministry	3
PS341b Adolescent Development	3
CE485 Practicum Youth Ministry	3

BIBLICAL LITERATURE MINOR

Students in any major may minor in Biblical Literature by completing five courses with a BL, GE, or HE prefix numbered 301 or above. One other related course without a BL prefix may be substituted with the approval of the division chair. BL220 is required.

CHRISTIAN MINISTRY MINOR

TH450 Christian Worship	3
One elective in Theology	3
BL323 Synoptic Gospels OR BL327 Pauline Epistles	3
PM452 The Practice of Christian Ministry	3
PM485 Ministerial Practicum	3

MISSIONS MINOR

MI110 Introduction to Missions	3
Four electives in Missions	
IN210 People and Cultures of the World OR	3
SO315 Urban Experience OR	3
SO341 Urban Sociology may replace one elective in Missions	3

BIBLICAL LANGUAGES MINOR

THEOLOGY MINOR

Students in any major may minor in Theology by completing 5 courses with a TH prefix numbered 301 or above. One other related course without a TH prefix may be substituted with the approval of the division chair.

PHILOSOPHY MINOR

PH450 Topics in Philosophy	3
PH381 Ancient and Medieval Philosophy OR	3
PH382 Modern and Postmodern Philosophy	3
Three additional courses with a PH prefix numbered 300 or above. One other related course without a PH prefix may be substituted with the approval of the division chair.	

RELIGION COURSE DESCRIPTIONS

BL110 Biblical History and Literature (3 cr) Surveys the Christian Bible with the following objectives: understanding the central ideas and themes of the Bible; familiarity with its chief persons, places, and events; awareness of the types of Biblical literature; and development of the ability to study the Bible effectively. *Offered fall and spring.*

BL220 (3 cr) Biblical Hermeneutics Offered annually.

BL309 (3 cr)

BL310 Pentateuch (3 cr) A historical, literary, and theological study of Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. *Prerequisites: BL220. Offered alternate years.*

BL318 Old Testament Historical Books (3 cr) An historical, literary, and theological study of the kingdoms of Israel and Judah as presented in the Deuteronomistic History (Joshua, Judges, 1 and 2 Samuel, and 1 and 2 Kings) and the Chronicler's History (1 and 2 Chronicles, Ezra, and Nehemiah). *Prerequisites: BL220. Offered varying years..*

BL319 Hebrew Prophets *Prerequisites: BL220. Offered alternate years.*

BL323 Synoptic Gospels (3 cr) Studies the life and teachings of Jesus as presented in the Synoptic Gospels (Matthew, Mark, and Luke). Gives special attention to their literary relationships and the uniqueness of their respective portrayals of Jesus. *Prerequisites: BL220. Offered alternate years.*

BL327 Pauline Epistles (3 cr) Studies the life and teachings of Paul as presented in the letters attributed to him, with some attention given to the portrayal of Paul in Acts. *Prerequisites: BL220. Offered alternate years.*

BL410 Daniel/Revelation (3 cr) A study of the literary genre known as apocalyptic with special attention given to the canonical books of Daniel and Revelation. *Prerequisites: BL220. Offered varying years.*

BL431 Johannine Literature (3 cr) An investigation of the characteristics, purpose, and central themes of the Gospel and epistles of John. *Prerequisites: BL220. Offered varying years.*

BL490 Seminar in Biblical Studies (3 cr) Advanced study of particular Biblical writings, themes, or issues chosen according to the interests and/or needs of students and professor. This course may be taken more than once in different topics. *Prerequisites: Two courses with prefix BL that are 301 or above. Offered varying years.*

CE222 Philosophy and Methods of Youth Ministry (3 cr) An introduction to the field of Youth Ministry. Topics include: Biblical, theological, psychological, and sociological, and cultural foundations; curriculum and methods; programming; organization; and administration. Observation and participation in several youth activities are required. *Prerequisite: BL110. Offered alternate years.*

CE401 Issues in Youth Ministry (3 cr) A seminar course designed to address current and significant issues in Youth Ministry. Current or previous experience in youth ministry expected. *Prerequisites: CE222. Offered alternate years.*

CE485 Practicum in Youth Ministry (3 cr) A practicum requirement of 1 to 4 credits (75-300 clock hours). Youth Ministry majors are required to complete 4 credit hours with at least half of the time in a local church setting. This requirement may be completed over several semesters. *Prerequisites: Two courses in Christian Education and permission of department. Offered each semester.*

GK101 Elementary New Testament Greek I (3 cr) Introduces Koine Greek grammar as it is used in the Greek New Testament. *Offered alternate years.*

GK102 Elementary New Testament Greek II (3 cr) Introduces Koine Greek grammar as it is used in the Greek New Testament. *Offered alternate years.*

GK301 Reading Koine Greek (3 cr) *Offered alternate years.*

HE201 Elementary Hebrew (3 cr) Introduces Hebrew as it is used in scripture. *Offered alternate years.*

HE202 Hebrew II (3 cr) Continues the study of biblical Hebrew. *Prerequisite: HE201. Offered alternate years.*

HE301 Reading Biblical Hebrew (3 cr)

MI110 Introduction to Missions (3 cr) Introduces various components of the Christian mission, including Biblical, theological, historical, cultural, and biographical, as well as contemporary mission efforts, strategies, and movements. *Offered alternate years.*

MI300/PH300 World Religions (3 cr) Studies the historical understandings and practices of the major belief systems of the world, such as: animism, Buddhism, Confucianism, Hinduism, Islam, Judaism, and secularism, and secondary groups that have developed from them. Gives attention to approaches of the basic problem of humankind as compared to Christianity, with particular attention to the Christian Scriptures and the unique person of Jesus Christ. *Prerequisites: BL110, CP295. Offered alternate years.*

MI310 History of Christian Missions (3 cr)

MI320 Travel Course in Missions (3 cr) Offers those interested in missions an immersion into the cultural, theological, socioeconomic, psychological and practical demands of

ministry, by placing students in a host culture to work with missionaries/indigenous clergy in a variety of settings. Does not fulfill intercultural literacy requirement.

Prerequisite: MI110 and permission of instructor. Offered varying years.

MI420 Issues in Missions (3 cr) An integrative seminar course designed to give upper level missions students opportunity to lead in discussion of contemporary issues in missions, such as the people group movement, development of indigenous leadership, issues of plurality and post modernism. Students relate these understandings to missions practice. *Prerequisites: MI110, MI300 or permission of instructor. Offered alternate years.*

PH331 Critical Thinking and Logic (3cr) Basic principles of logic, deduction and induction. This course includes brief treatment of symbolic logic. *Prerequisite: Sophomore standing. Offered in alternate years.*

PH381 Ancient and Medieval Philosophy (3 cr) Addresses issues in the history of philosophy. Examines the thought of pre-Socratic philosophers and ends with the Christian philosophy of Thomas Aquinas. Also examines key historical figures, such as Socrates, Plato, Aristotle, St. Augustine, and St. Anselm. Also includes the thought of various Eastern and African philosophers. *Prerequisite: CP295. Offered alternate years.*

PH382 Modern and Postmodern Philosophy (3 cr) Addresses issues in the history of philosophy. This course begins by examining the thought of René Descartes and concludes by examining the thought of contemporary philosophers. The thought of modern philosophers, such as John Locke, George Berkeley, David Hume, Thomas Reid, Immanuel Kant, G.W.F. Hegel, and Soren Kierkegaard will be addressed. The thought of postmodern philosophers, such as Martin Heidegger, Ludwig Wittgenstein, Alfred North Whitehead, and Jacques Derrida will also be examined. *Prerequisite: CP295. Offered alternate years.*

PH399 Topics in Philosophy (3 cr)

PH450 Philosophy of Religion (3 cr) Introduces students to pivotal questions regarding God and philosophy. Of primary importance are questions, such as: Does God exist and how can one know this? What are the primary attributes of God? How can one know whether one religion is more valid than another? Why is there evil in our world? What is the relationship between faith and reason? *Prerequisite: CP295, or PH381, or PH382, or permission of instructor. Offered varying years.*

PM372 History and Polity of the Church of the Nazarene (3 cr) A survey of the beginnings of the Church of the Nazarene, its policy, organization, leaders, and growth. Offered alternate years. *Prerequisite: Sophomore standing, CP295*

PM440 Introduction to Pastoral Counseling (3 cr) An examination of the classical and contemporary models for pastoral counsel and their application in contemporary ministry settings. *Prerequisite: PS110, TH441. Recommend: PS420, PS392.*

PM452 The Practice of Christian Ministry (3 cr) An introduction to the basic responsibilities of the pastor. This course will include such topics as church administration, Christian education, and the handling of church finances. Issues pertaining to pastoral ethics in dealing with finances, authority, interpersonal relationships, and pastoral expectations will be discussed. *Prerequisite: TH110 or BL220. Offered alternate years..*

PM461 Making of Sermons (3 cr) A course in the theology of preaching and the construction of sermons designed to inculcate and encourage Biblical preaching, in order to develop strong, informed, and growing churches. *Prerequisites: BL220 and one BL course 301 level or above. Offered alternate years.*

PM485 Ministerial Practicum (3 cr) Offers a specific, supervised, integrating, and significant opportunity to apply theological knowledge to a field experience, i.e., the local church. *Prerequisite: Senior standing. Offered annually.*

SF110 Introduction to Spiritual Formation (3 cr) A survey course designed to introduce students to the history, theology, methodology, and resources of spiritual formation. *Offered alternate years.*

TH110 Introduction to Religious Studies (3 cr)

TH300 Christian Tradition (3 cr) Introduces the Christian tradition according to what the Christian Church has believed, taught, and confessed on the basis of the Word of God. Focuses on the historical and doctrinal. Serves the Apostles' Creed and the Nazarene Articles of Faith as models by surveying the historical and doctrinal foci of the Christian tradition. *Prerequisites: BL110, CP210, CP295, and Junior standing. Offered fall and spring, often in summer.*

TH399 Topics in Theology Selected theological topics dealing with contemporary and/or cross disciplinary issues. This course may be taken more than once on different topics. *Prerequisites: CP295, BL341 or BL343, TH300 or permission of instructor.,*

TH430 Early Christianity (3 cr) Considers Christianity from its inception through the first 4-5 centuries of the Common Era, focusing on such issues as persecution, Constantinian influence, the Desert Fathers, heresy and orthodoxy, Trinity and Christology, and the life and influence of St. Augustine. Employs chronological and theological perspectives. *Prerequisite: TH300. Offered alternate years.*

TH433 American Christianity: Plymouth Colony to the Present (3 cr) Focuses on the development of Christianity in the United States, including such topics as Puritanism, conversion of native populations, the Great Awakening, Unitarianism, the Second Great Awakening, Methodism, the Shakers, Transcendentalism, the rise of black churches, Roman Catholicism, Holiness and Pentecostalism, the fundamentalist-modernist controversy, liberalism and neo-orthodoxy, mainline decline, and disaffiliation. *Prerequisite: TH300. Offered alternate years.*

TH443 Revealed God and Sinful Humanity (3 cr) Topics addressed include the nature and sources of the study of God (theology), the meaning and necessity of revelation, the nature and attributes of God, God as Trinity, God as creator, and the nature of humanity as both free and sinful. Emphasizes a Wesleyan perspective, with additional reflection from other branches of Christianity. *Prerequisites: TH300 and Junior standing. Offered annually.*

TH444 Salvation, Sanctification, and Life in the Spirit (3 cr) Topics addressed include sin and evil, Christ as Savior, the need for salvation, Wesleyan sanctification, the work of the Holy Spirit, the Church, the Sacraments, and the Kingdom of God. Emphasizes a Wesleyan perspective, with additional reflection from other branches of Christianity. *Prerequisites: TH300 and Junior standing. Offered annually.*

TH446 Life and Thought of John Wesley and Theology (3 cr) Examines the historical-theological setting just prior to and during Wesley's time in order to unravel the complex tapestry of sources and events that shaped his thought and practice. Unfolds the richness and legacy of Wesley's place in historic Christianity. Scopes historical and theological, with focus always upon Wesley's assessment of the Christian life. *Prerequisites: TH300, BL220. Junior standing, or permission of instructor. Offered alternate years.*

TH450 Christian Worship (3 cr) An introduction to worship in a Wesleyan context. The course will examine the Biblical, historical, and theological foundations of Christian corporate worship. It will deal with the traditional components of worship, the place of the Church calendar, and the role of hymnody and the sacraments. It will include a section dealing with the history, practice of, and resources for spiritual formation. *Prerequisites: 220. Junior standing or permission of instructor.*

TH472 Doctrine of Holiness and Church History (3 cr) A Biblical, historical, and theological study of holiness. Special attention will be given to the formulation of the doctrine in the Wesleyan tradition, with emphasis on the holiness of God and his provision for the holiness of his people. *Prerequisite: TH300, BL220, Junior standing. Offered in alternate years.*

TH495 Senior Seminar (3 cr) In-depth examination of issues and problems, academic and professional, pertinent to the discipline of religion. Required of all seniors who are majoring in any undergraduate program offered by the Department of Religion. Successful completion of this course fulfills the requirement for a senior exam or project. *Prerequisite: Senior standing.*

Social Work Department

Division of Social Sciences

Stacey Barker (Chair), Associate Professor

Lorraine Graves, Assistant Professor

DEPARTMENT OBJECTIVES

1. Apply critical thinking skills within the context of professional social work practice.
2. Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
3. Practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
4. Understand the forms and mechanisms of oppression and discrimination and apply strategies of advocacy and social change that advance social and economic justice.
5. Understand and interpret the history of the social work profession and its contemporary structures and issues.
6. Apply the knowledge and skills of generalist social work practice with systems of all sizes.
7. Use theoretical frameworks supported by empirical evidence to understand individual development and behavior across the life span and the interactions among individuals and between individuals and families, groups, organizations, and communities.
8. Analyze, formulate, and influence social policies.
9. Evaluate research studies, apply research findings to practice, and evaluate their own practice interventions.
10. Use communication skills differentially across client populations, colleagues, and communities.
11. Use supervision and consultation appropriate to social work practice.
12. Function within the structure of organizations and service delivery systems and seek necessary organizational change.
13. Begin to integrate the knowledge, values, and activities of the profession of social work with a Christian orientation to service (i.e., for those students identifying with the Christian faith).

Accreditation

The Council of Social Work Education accredits the Social Work Program at the baccalaureate level.

Admission as a Social Work Major Candidate

The following criteria are required for admission as a Social Work major candidate:

1. A cumulative grade point average (GPA) of 2.3 at the time of filing the degree candidacy form at the completion of the sophomore year.
2. A minimum cumulative GPA of 2.7 in all courses required for the baccalaureate degree in Social Work.
3. No grade lower than a C- in any course required for the baccalaureate degree in Social Work.

Termination as a Social Work Major Candidate

The academic performance of candidates for a Bachelor of Arts in Social Work will continue to be monitored to ensure that the minimum cumulative GPAs required for admission into the Social Work Program are maintained and that the student is able to complete the degree in accordance with the Recency of Credit for Degree Completion Policy. Students may be terminated from the Social Work Program for both academic and nonacademic reasons; the *National Association of Social Workers Code of Ethics* will be used as a guideline for consideration of nonacademic termination. Please refer to the social work *Student Handbook* or to the *Social Work Department Web Page* for a full explanation for criteria for termination and the related due process procedures.

Recency of Credit for Degree Completion

The time limit for completion of a Bachelor of Arts in Social Work degree is **6 years** from the time of admission into the Social Work Program. Courses taken within a period of 6 years prior to this date of admission may be accepted with proper documentation. The Department of Social Work may consider courses taken more than 6 years prior to this date of admission for acceptance if the student demonstrates an appropriate level of competency. The format for determining a level of competency in a specific area of study is at the discretion of the instructor who is teaching that content area at the time of the request. The student will pay a fee of \$250 for each course in which he or she must demonstrate competency.

Transfer Credit and Practicum Policies

1. Transfer credit hours for courses offered within the Department of Social Work must have been taken at an undergraduate institution that is accredited by the Council on Social Work Education or must be deemed to otherwise be appropriate for transfer by the Department of Social Work.
2. Social work candidates registered for a practicum experience are to be in good standing with the nonacademic requirements of Eastern Nazarene College, which allow students to be in a position of representing the college either on or off campus.
3. No academic credit, either in whole or in part, shall be granted for field practicum experience in a nonaccredited program and/or previous work experience.

DEGREES OFFERED

Bachelor of Arts: *Social Work*

Minor: *Social Work*

GENERAL DEGREE REQUIREMENTS FOR SOCIAL WORK MAJOR

- Fulfill all General Education Requirements - see below
- Earn a minimum 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.3
- Meet minimum Major GPA of 2.7

General Education Requirements - 54 total credits

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, minimum grade C-, 7 credits

Required Lab Science: BI101/BI101L Principles of Biology, 4 credits

Required Math: PS251 Statistics: Social Science, 3 credits

Social Science, minimum grade C-, 6 credits

Required Social Science: GO210 American Political Institutions, 3 credits

Required Social Science: PS110 Introduction to Psychology, 3 credits

Intercultural Requirements, minimum grade C-, 6 credits

Required Intercultural: SO212 Human Diversity, 3 credits **OR** Language Requirement (Check student's Academic Information Report for high school language.)

General Education Cultural Perspectives Requirements, 18 credits

SOCIAL WORK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Admission into the Social Work Program, minimum GPA 2.7 in all courses required for the baccalaureate degree in Social Work; minimum cumulative GPA 2.3; no grade lower than C- in all courses required for the baccalaureate degree in Social Work.
- Elective Credits (Social Work or other), 25 credits

Fulfill Social Work Requirements (all required) minimum grade C-, 35 credits

SW112 Introduction to Social Work	3
SW201 Human Behavior and Social Environment I	3
SW202 Human Behavior and Social Environment II	3
SW324 Generalist Practice with Individuals and Families	3
SW411 Social Policy Analysis	3
SW425 Generalist Practice with Groups	3
SW426 Generalist Practice with Organizations and Communities	3
SW427 Seminar: Field Practicum I AND	6
SW428 Seminar: Field Practicum II AND	2
SW429 Seminar: Field Practicum III OR	6
SW430 Seminar: Field Practicum Block Format (varying credit, up to 14 cr)	

Fulfill Cognate Requirements (all required) minimum grade C-, 9 credits

SW499 Economics for Social Workers	3
SO110 Introduction to Sociology	3
SO351 Methods in Social Research	3

SOCIAL WORK MINOR REQUIREMENTS

A minor in Social Work does not prepare one for professional social work practice.

Social Work Minor Requirements, minimum grade C-, 15 credits

SW112 Introduction to Social Work	3
SW201 Human Behavior and Social Environment I	3
SW202 Human Behavior and Social Environment II	3
SW411 Social Policy Analysis	3

Choose one of following:

SW272 Family Violence	3
SW312 Marriage and Family Relations	3
SW331 Substance Abuse	3
SW332 Child Welfare	3
SW499 Economics for Social Workers	3

SOCIAL WORK COURSE DESCRIPTIONS

SW112 Introduction to Social Work (3 cr) Examines social work as a comprehensive helping profession with particular attention placed on the emergence of social work; the value, knowledge, and skill bases of the profession; practice settings; and the role and tasks of the helping professional. Issues in current practice are identified (e.g., ethnocentrism and racism). *Offered fall.*

SW201 Human Behavior and the Social Environment I (3 cr) Studies how social systems impact and are impacted by a broad context of human behavior in culture and society, communities and organizations, groups, families, and individuals. These systems are viewed as conceptual tools for social work practice. Introduces systems theory and emphasizes the role of social forces as shapers of human behavior. Presents life span phases including infancy, childhood, and adolescence, and young adulthood. Special topics include ethnocentrism and racism. *Prerequisites: PS110, SO110 (at least concurrently). Offered fall.*

SW202 Human Behavior and the Social Environment II (3 cr) Studies how social systems impact and are impacted by a broad context of human behavior in culture and society, communities and organizations, groups, families, and individuals. Presents life span phases of young adulthood, middle adulthood and later adulthood. Special topics include gender roles, sexism, and sexual orientation. *Prerequisites: PS110, SO110 (at least concurrently). Offered spring.*

SW245 Moving Toward Personhood (3 cr) Guides a student's development of his/her own answers to questions about personal identity and relationships with others, using a mixture of small group exercises, role-plays, and self-assessment tools. Skills are taught to promote lifelong learning and introspection about the issues of changes over the life span, balance amid conflicting priorities, authenticity in relationships, and life goals. This course is designed for non-majors. *Offered January term.*

SW272/CJ272 Family Violence (3 cr) Explores the social, legal, and medical perspectives of intimate partner violence. Examines various aspects of intimate partner violence, with a focus on theoretical perspectives, as well as specific types of abuse such as child abuse, spousal abuse, and elder abuse. The objective is to broaden

knowledge of family violence, understand some of the causes, discuss types of forms of abuse, gain insight on the dynamics between perpetrators and victims, and analyze social, legal, and medical responses to this social problem. Offered yearly.

SW312 Marriage and Family Relations (3 cr) Explores contemporary marriage and family relations in our changing society. Utilizing a developmental framework, it focuses on the tasks that individuals, couples, and families must accomplish at different points during the family life cycle and the crises with which they may be challenged. Students are introduced to the kinds of skills and support that assist people as they form and maintain the most important relationships. *Cross-listed as SO312. Offered annually.*

SW324 Generalist Practice with Individuals and Families (3 cr) Part I of the generalist practice sequence emphasizes key practice skills in areas utilized in intervention with individuals and family client systems. *Prerequisites: Admitted into Social Work Program, SW112, SW201, SW202, or equivalents. Offered fall.*

SW331/PS331 Substance Abuse (3 cr) Provides students with an overview of substance abuse from a systems perspective. Explores the major theories of addiction, the physiological and psychological results of substance abuse, commonly used substances and their effects, and the latest treatment developments and research findings. *Offered alternate years.*

SW332 Child Welfare (3 cr) Provides students with an overview of the various social issues and systems that impact the welfare of children from a historical, theoretical, and practice perspective. Explores the various social issues children face and the services that are available to them. Emphasizes various diverse populations in relation to the social issues and systems addressed in the course. *Offered alternate years.*

SW411 Social Policy Analysis (3 cr) Offers an opportunity to develop a set of knowledge, skills, values, and attitudes in the area of social work policy practice. Fosters an understanding of the development, implementation, and assessment of policy in legislation, agencies, and communities. *Prerequisite: GO210 or faculty permission. Offered spring.*

SW425 Generalist Practice with Groups (3 cr) Part II of the generalist practice sequence emphasizes social work through groups, which become the medium of change. Explores the historical roots of working with groups and expands the concept of clients by viewing the group as the client system. Focuses on the development of groups, types of groups social workers are involved in, and both group leadership skills and membership in groups. Gives an opportunity to participate in a group experience. *Prerequisites: Admitted into Social Work Program, SW112, SW201, SW202, or equivalents. Offered January term.*

SW426 Generalist Practice with Organizations and Communities (3 cr) Part III of the generalist practice sequence emphasizes macro practice. Focuses on those skills, which enable the entry-level social worker to effectively deal with the decision-making process regarding organizational and community changes and to be competent in knowing when such intervention is appropriate. Explores the interrelationship between macro practice and those practices on the micro and mezzo levels. *Prerequisites: Admitted into Social Work Program, SW112, SW201, SW202, or equivalents. Offered spring.*

SW427 Seminar: Field Practicum I (6 cr) Provides sixteen hours a week of entry-level social work practice in a prearranged social service agency. Practicum supervisors hold a MSW degree or a baccalaureate degree from an accredited school of social work. The student creates a field practicum portfolio. Seminars are held on relevant topics periodically during the semester. *Prerequisites: Admitted into Social Work Program and screening interview. Offered fall.*

SW428 Seminar: Field Practicum II (2 cr) During this January term course, students continue to enhance their practice skills in their practicum settings. Students continue to work on their field practicum portfolios. In addition, a seminar is held on relevant topics. *Prerequisites: Admitted into Social Work Program, screening interview, and SW427. Offered January term.*

SW429 Seminar: Field Practicum III (6 cr) Builds on the experiences of the first two Field Practicum courses. Undertakes more active advocacy roles for clients, evaluates the intervention efforts, and terminates with the clients. Students complete field practicum portfolios. Seminars are held on relevant topics during the semester. *Prerequisites: Admitted into Social Work Program, screening interview, SW427, SW428. Offered spring.*

SW430 Seminar: Field Practicum Block (varying credits, up to 14) Provides 420 hours or entry-level social work practice in a prearranged social service agency. Practicum supervisors hold a MSW degree or a baccalaureate degree from an accredited school of social work. The student creates, maintains, and completes a field practicum portfolio and builds on experiences as the semester progresses. Seminars are held on relevant topics periodically during the semester. *Prerequisites: Admitted into Social Work program, screening interview. Offered as needed in fall or spring.*

SW490 Independent Study in Social Work (2 cr) Open to qualified juniors and seniors who are candidates for the baccalaureate degree in Social Work and wish to undertake an in-depth study of a practice-related content area. *Offered as requested.*

SW499 Business Seminar: Economics for Social Workers (3 cr) The course helps students apply the study of economics in addressing and resolving the needs of diverse client systems. The focus of this course is on building knowledge, values, and skills that lead to individual and collective economic justice. This course will address such economic topics as capitalism and socialism, globalization, funding, scarcity of resources, income distribution and the underprivileged, the concept of human capital, and institutionalized forms of economic oppression. *Cross-listed with BA499. Offered alternate years in fall.*

Sociology Department

Division of Social Sciences

Dr. Janet Lanham (Chair), Professor

Wayne Griffin, Assistant Professor

Janese Free, Instructor

DEPARTMENT OBJECTIVES

1. To provide the student with an understanding of how society impacts the beliefs and behaviors of people and their social institutions.
2. To obtain an understanding of how the scientific method is applied to the study of human behavior from a social science perspective.
3. To acquire some of the basic skills in collecting and analyzing data.
4. To establish a theoretical framework for evaluating and understanding some of the social institutions, processes, and problems of American society.
5. To examine the interface between Christianity and sociology.

DEGREES, MAJORS AND TRACKS OFFERED

Bachelor of Arts: *Sociology; Sociology - Criminal Justice*

Double Major: *Urban Ministry (Sociology and Religion); Sociology/Psychology; Sociology/Criminal Justice (see Criminal Justice)*

GENERAL DEGREE REQUIREMENTS FOR ALL MAJORS IN DEPARTMENT

- Fulfill all General Education Requirements - see below
- Earn minimum of 123 Graduation Credits
- Pass Department Comprehensive Exam
- Meet minimum Cumulative GPA of 2.0

General Education Requirements - 54 total credits

See Page 13 for course options.

Communication Skills, 9 credits

Physical Education Skills, 2 credits

Biblical Literature and Christian Tradition, 6 credits

Lab Science and Math, 7 credits

Required Math: PS251 Statistics for the Social Sciences, 3 credits

Social Science, 6 credits

Intercultural Literacy Requirement, 6 credits **OR**

Language Requirement (Check student's Academic Information Report for high school language.)

Cultural Perspectives Requirements, 18 credits

Sociology Core Requirements (all required) minimum grade C, 15 credits

SO110 Introduction to Sociology	3
SO212 Human Diversity	3
SO311 Social Problems	3
SO351 Methods of Social Research	3
SO401 Sociological Theory	3

SOCIOLOGY (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Sociology Core Requirements - see above, 15 credits
- Elective Credits (Sociology or other) 45 credits

Social or Group Psychology Elective (choose one) minimum grade C-, 3 credits

SO313 Social Psychology	3
SO314 Group Psychology	3

Sociology Electives (choose two SO courses) minimum grade C-, 6 credits

SOCIOLOGY/PSYCHOLOGY (BA) DOUBLE MAJOR REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
 - Required Math: PS251 Statistics for Social Science, 3 credits
 - Required Social Science: PS110 Introduction to Psychology and PS240 Lifespan Development, 6 credits
 - Required Intercultural Literacy: IN210 Peoples and Cultures of the World and IN299 Special Topics in Intercultural Studies, 6 credits
- Fulfill all Sociology Core Requirements - see above, 15 credits

Psychology Core, minimum grade C-, 15 credits

PS313 Social Psychology	3
PS331 Theories of Personality	3
PS352 Junior Psychology Seminar	1.5
PS372 Abnormal Psychology	3
PS430 Field Experience	3
PS453 Senior Psychology Seminar	1.5

Psychology Electives, minimum grade C-, 6 credits

PS314 Group Psychology	3
PS315 Urban Experience	3
PS392 Counseling Psychology	3
PS432 Physiological Psychology	4
PS451 History of Psychology	1.5
PS452 Current Issues in Psychology	1.5
PS472 Psychology of Religion	3

SOCIOLOGY - CRIMINAL JUSTICE TRACK (BA) REQUIREMENTS

- Fulfill all General Degree Requirements
- Fulfill all General Education Requirements - see p. 12, 54 credits
- Fulfill all Sociology Core Requirements - see above, 15 credits
- Elective Credits (Sociology or other) 39 credits

Criminal Justice Requirements (all required) minimum grade C-, 6 credits

CJ180 Introduction to Criminal Justice	3
CJ251 Criminology	3

Social or Group Psychology Elective (choose one) minimum grade C-, 3 credits

SO313 Social Psychology	3
SO314 Group Psychology	3

Criminal Justice Elective (choose two) minimum grade C-, 6 credits

CJ261 Social Deviance	3
CJ272 Family Violence	3
CJ288 Internship in Criminal Justice	3
CJ311 Law Enforcement and Policing	3
CJ322 Criminal Law and Constitutional Principles	3
CJ341 Corrections and Alternatives	3
CJ388 Internship in Criminal Justice	3
CJ402 Ethics in Criminal Justice	3
CJ488 Internship in Criminal Justice	3
SO315 Urban Experience	3
SO341 Urban Sociology	3

URBAN MINISTRY (BA) DOUBLE MAJOR RELIGION AND SOCIOLOGY DEGREE REQUIREMENTS

Designed for students planning careers in Urban Ministry and/or graduate work in the area of religion and/or sociology. This program helps prepare the student for a career in Urban Ministry, for graduate work at a seminary, or for graduate work in

the field of sociology. This program is most appropriate for those who are interested in becoming urban ministers, missionaries, or sociologists of religion.

- Fulfill all General Education Requirements
 - Required Math: PS251 Statistics for Social Science, 3 credits
 - Required Social Science: PS110 Introduction to Psychology and PS240 Lifespan Development, 6 credits
 - Required Intercultural Literacy: IN210 Peoples and Cultures of the World and IN299 Special Topics in Intercultural Studies, 6 credits
- Fulfill Religion Major - see Religion Department
- Fulfill Sociology Core - see previous
- Additional Sociology Courses:
 - SO242 Sociology of Religion
 - SO341 Urban Sociology **OR** SO315 Urban Experience
- Practicum in Urban Ministry: Four 3-hour courses designed to provide students with a specific, supervised, integrative, and significant opportunity to apply theological knowledge in a ministry setting, e.g., the local church. One of these courses will be taken in conjunction with SO485 Sociology Practicum.

SOCIOLOGY COURSE DESCRIPTIONS

SO110 Introduction to Sociology (3 cr) Studies human behavior that focuses on how society affects the individual and how the individual affects society. Introduces the student to terms, concepts, and scientific methods used in sociological research. Examines a wide variety of subjects (e.g., culture, religion, education, family, deviance, social change).

SO180/CJ180 Introduction to Criminal Justice (3 cr) Provides an introduction to the various elements of the criminal justice system in the United States (e.g., courts, corrections, police, probation, parole), and addresses some of the critical issues that will shape the system in the years to come.

SO212 Human Diversity (3 cr) Studies the various subgroups which make up the American society. Attempts to understand these subgroups in terms of their sociopolitical heritage, lifestyles, social identities, and social circumstances. Examines a wide variety of subgroups such as racial, ethnic, cultural, lifestyles, physical/mental ability, and age populations in the American society. *Offered annually.*

SO242 Sociology of Religion (3 cr) A comparative and analytical study of organized religion as a social institution. Examines conversion, church growth, belief and practices of major American faiths, types of church structure, secularization, function, and conflict of religion in society. *Offered varying years.*

SO251/CJ251 Criminology (3 cr) A social scientific study of crime and criminal behavior in society, including an examination of the historical and modern theories of crime, as well as an analysis of the methods and research to cope with these problems. *Cross-listed as CJ251.*

SO261/CJ261 Social Deviance (3 cr) Examines the structures and processes underlying social deviance. Examines various theoretical perspectives as well as current research. Some major topics are: social definitions of deviance, social reaction to deviant behavior, and deviant subcultures. *Cross-listed as CJ261.*

SO288/SO388 Internship in Criminal Justice (3 cr) Varying levels of internship opportunities. Course number is based on level of responsibility of the internship.

SO311 Social Problems (3 cr) Social problems are defined as consequences of social organization and social functioning which are generally deemed to be undesirable, unintended, and unwanted. Focuses on the theoretical, methodological, and substantive issues in the sociological study of social problems. Studies poverty, inequality, deviant behavior, hunger, and environmental concerns.

SO312/SW312 Marriage and Family Relations (3 cr) Explores contemporary marriage and family relations in our changing society. Utilizes a developmental framework and focuses on the tasks that individuals, couples, and families must accomplish at different points during the family life cycle and the crises with which they may be challenged. Introduces skills and supports that assist people as they form and maintain the most important relationships. *Cross-listed as SW312. Offered annually.*

SO313/PS313 Social Psychology (3 cr) Studies the individual behaving in group interaction. Investigates social behavior involved in prejudice, conformity, aggression, leadership, affiliation, and communication and relates that to contemporary social issues of our society. *Prerequisite: PS110. Cross-listed as PS313.*

SO314/PS314 Group Psychology (3 cr) Forms small group interaction from theoretical and experimental perspectives. Covers group structure and process, with special attention to leadership and roles. Includes an interpersonal group experience each week. *Prerequisite: PS110. Cross-listed as PS314.*

SO315/PS315 Urban Experience (3 cr) An interdisciplinary approach to understanding the dynamics and challenges of life and ministry in the city. Readings and lectures from varied theoretical perspectives (theological, psychological, sociological, economic, and political) are combined with exposure to various urban ministry models through site visits and field experience. Includes travel and a special course fee to cover travel expenses. *Prerequisite: Sophomore standing. Cross-listed as CJ315. Offered in alternate years.*

SO320/HI320 Seminar in Globalization (3 cr) Examines globalization from the perspective of politics, history, sociology, and theology. *Prerequisite: Junior standing. Cross-listed as HI320. Usually offered annually.*

SO341 Urban Sociology (3 cr) Examines the development and trends of cities. Some major themes are: ecology, social processes, patterns of growth and change, group organization, institutions, community planning, and urban redevelopment. Special emphasis is placed on Boston and its surrounding area.

SO351/PS351 Methods of Social Research (3 cr) Develops research skills with emphasis on social research as a scientific inquiry and problem-solving tool in explaining human social behavior. Students learn how to formulate problems for research and implement appropriate research methods. *Prerequisite: PS251 or permission of instructor.*

SO382 Ethnic Studies (3 cr)

SO392 Special Topics in Sociology (3 cr) Topics include: family violence; prison culture; applied sociology; Nazarene history in Cape Verde.

SO401 Sociological Theory (3 cr) Considers the contributions to modern sociological thought by the principal sociologists from 1850 to the present.

SO430 Field Experience (3 cr) Supervised practical experience in a vocation closely related to the student's interest and/or future plans in psychology. Readings, written assignments, and group meetings assist in reflecting on and integrating the knowledge gained from involvement at an approved placement site. *Prerequisite: Attendance at a pre-placement meeting. Recommended for Junior year. Offered in spring semester or by special arrangement in the summer.*

SO451/PS451 Quantitative Research and Data Analysis (3 cr) Introduces the concepts and procedures employed in quantitative research in the social sciences. Explores several data analyses (from univariate to multivariate analyses) with the use of the computer (both mini and micro). Introduces two statistical packages, SAS and Minitabs. *Prerequisite: PS251. Cross-listed as PS451.*

SO485 Sociology Practicum (3 cr) Supervised field experience in a setting appropriate to student's own career goals.

SO490 Independent Study (cr var) Opportunity for students to pursue study in an area of interest.

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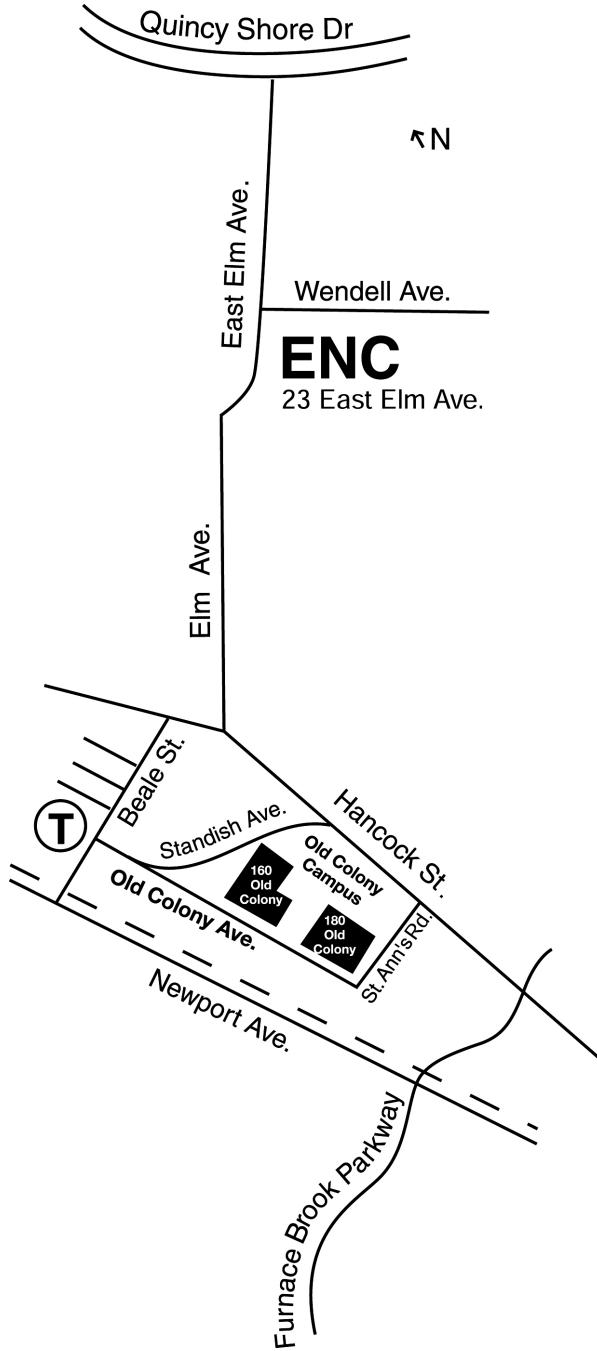
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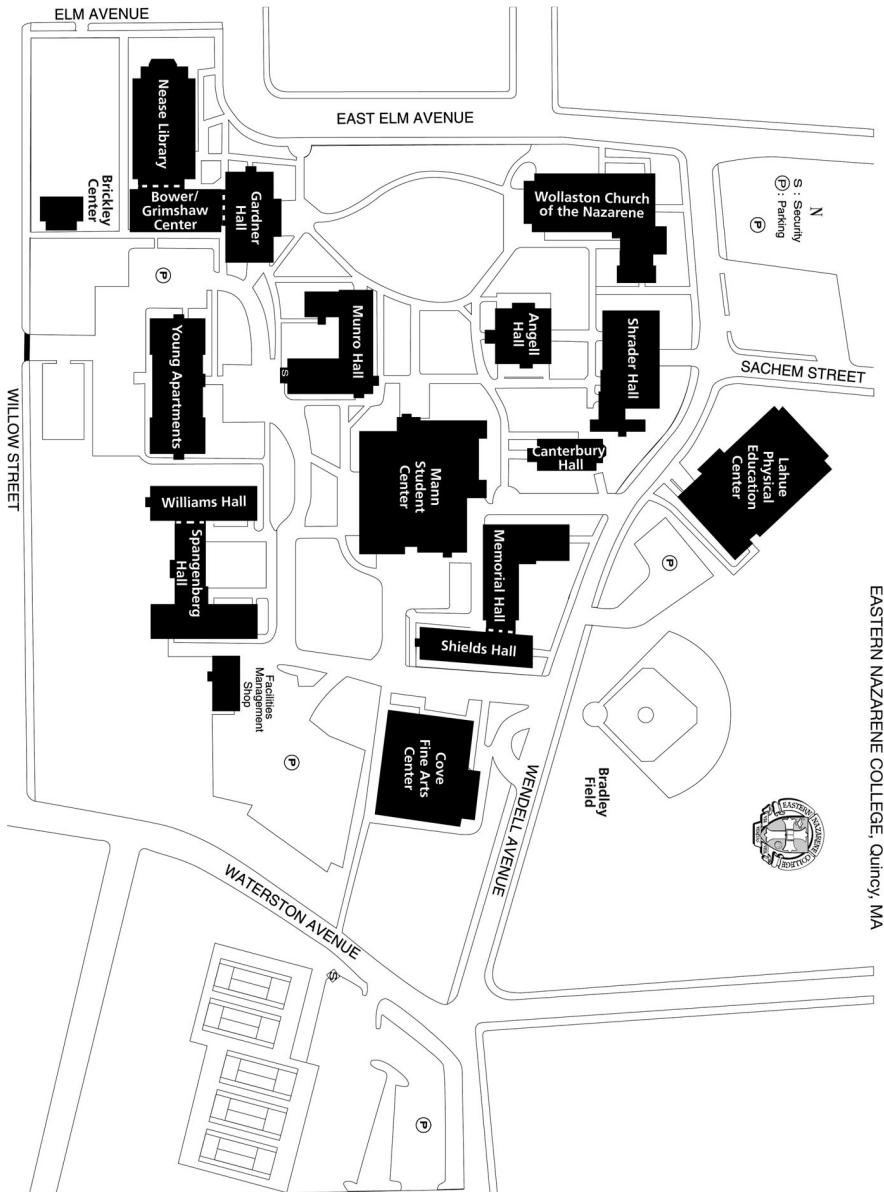
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MAIN CAMPUS



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