ABOUT EXCELSIOR COLLEGE

Excelsior College is a regionally accredited, nonprofit distance learning institution founded in 1971 focused on providing educational opportunity to adult learners. The College contributes to the development of a diverse, educated society by valuing lifelong learning with an emphasis on serving individuals who are historically underrepresented by higher education. Excelsior meets students where they are—academically and geographically—removing obstacles to the educational goals of adult learners through affordable access to quality instruction and the assessment of learning. Our pillars include innovation, flexibility, academic excellence, and integrity.

Excelsior College does not discriminate on the basis of age, color, religion, creed, disability, marital status, veteran status, national origin, race, gender, or sexual orientation in the educational programs and activities which it operates.

Excelsior College is a Title IV-eligible institution offering federal student aid to students who qualify in course-based programs. Stand-alone exam-based options and certificate programs are not eligible.

OUR MISSION

Excelsior College provides educational opportunity to adult learners with an emphasis on those historically underrepresented in higher education. The College meets students where they are—academically and geographically—offering quality instruction and the assessment of learning.

VISION

Excelsior College is a provider of choice for adults seeking access to higher education and academic success, and it is a model for addressing societal and workforce needs.

ACCREDITATION

Excelsior College (and under its former name, Regents College) has been continuously accredited since 1977 by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104, 215-662-5606. Middle States is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation (CHEA).

The associate, bachelor’s, and master’s degree programs in nursing at Excelsior College are accredited by the Accreditation Commission for Education in Nursing (ACEN):

Accreditation Commission for Education in Nursing (ACEN),
3343 Peachtree Road, Suite 850
Atlanta, GA 30326
404-975-5000
www.acenursing.org

The ACEN is a specialized accrediting agency for nursing recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation (CHEA).

The bachelor’s degree programs in electrical engineering technology and nuclear engineering technology are accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org. The bachelor’s degree program in information technology is accredited by the Computing Accreditation Commission of ABET, www.abet.org. ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA).

Excelsior College has received specialized accreditation for its business programs through the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215. The business programs in the following degrees are accredited by the IACBE:

Bachelor of Science in Business with concentrations in: Accounting, Finance, General Business, Logistics Management, Management of Human Resources, and Marketing; and the Master of Business Administration (MBA) with concentrations in: General Track (no concentration), Accounting, Health Care Management, Human Resource Management, and Leadership.

All the College’s academic programs are registered (i.e., approved) by the New York State Education Department.

RECOGNITION

The National League for Nursing (NLN) has designated the Excelsior College School of Nursing as a Center of Excellence in Nursing Education, 2016–2021. This distinction has been awarded in recognition of the College’s sustained achievements in creating environments that promote student learning and professional development and it is the fourth consecutive designation the School has received since the NLN began the program in 2005.


Excelsior College has achieved institutional-level recognition for implementing Quality Matters™ standards for the design of online courses. The College systematically develops and evaluates its online courses based on rigorous, research-based Quality Matters™ standards to ensure learner engagement and provide tools and information for successful learning.
Message from the Dean

Dear Student,

Welcome to Excelsior College! Congratulations on taking the next step in your educational journey. We are excited and honored to work with you as you pursue your educational, career, and professional goals.

The School of Undergraduate Studies is committed to preparing a skilled and credentialed graduate for success in the 21st century economy. The combination of academic rigor, real-world and practical focus, and an interdisciplinary approach will enable you to attain a career in various high-demand industries, including but not limited to, business, engineering technology, information technology, cybersecurity, health science, public service, criminal justice, and more.

Our priority is and always will be our students. Excelsior College prides itself for its more than 40 years of experience in serving adult learners. As an institution that accepts prior coursework, work experience, and industry certifications for college credit, Excelsior provides you with flexible and affordable pathways to achieve your educational and professional goals while balancing personal and professional responsibilities.

In this catalog, you will find detailed descriptions of the degree options available through the School of Undergraduate Studies. We encourage you to review it and contact us if you have any questions.

The School of Undergraduate Studies and all Excelsior College faculty, staff, and academic advisors are committed to your academic and professional success.

Thank you for choosing the Excelsior College School of Undergraduate Studies. We are your partners in this journey and look forward to working with you to help you accomplish your goals. Best wishes for your success.

Sincerely,

Lifang Shih, PhD
Dean, School of Undergraduate Studies
LIMITATIONS

Information in this catalog is current as of January 2019, and is subject to change without advance notice.

CHANGES IN COLLEGE POLICIES, PROCEDURES, AND REQUIREMENTS

The College reserves the right to modify or revise the admission requirements of any program of the College; degree and graduation requirements; examinations, courses, tuition, and fees; and other academic policies, procedures, and requirements. Generally, program modifications and revisions will not apply to currently matriculated students so long as they actively pursue their degree requirements. However, in the event that it is necessary to make program changes for matriculated students, every effort will be made to give notice. It is also the responsibility of students to keep themselves informed of the content of all notices concerning such changes.

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Excelsior College maintains a drug-free workplace and is a drug-free school, as provided by the Federal Drug-Free Schools and Communities Act Amendments of 1989 and the Drug-Free Workplace Act of 1988.

Excelsior College does not discriminate on the basis of age, color, religion, creed, disability, marital status, veteran status, national origin, race, gender, or sexual orientation in the educational programs and activities which it operates. Portions of this publication can be made available in a variety of formats upon request.

Campus Crime Statistics can be found at the following website: ope.ed.gov/security.
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MISSION STATEMENT

The School of Undergraduate Studies enables academic and personal success through lifelong learning. We incorporate prior learning and provide innovative courses, high quality instruction, and exceptional support to adult learners.

VISION STATEMENT

We empower students to forge pathways throughout their education, their careers, and their lives, with experiences that transform.
General Education Goals for All Undergraduate Degree Programs

The College’s five general education goals are:

1. **Communication and Oral Expression**
   Upon completion of their degree programs, graduates are able to express themselves effectively in English, both orally and in writing with clarity, persuasiveness, and coherence using standard conventions of communication.

2. **Mathematics and Scientific Method**
   Upon completion of their degree programs, graduates are able to use scientific reasoning and basic mathematical calculations in problem solving in their daily lives.

3. **Information Literacy**
   Upon completion of their degree programs, graduates are able to evaluate information critically. They will have learned to identify the amount and type of information needed to locate and effectively access information, to evaluate sources of information, and consider legal and ethical implications.

4. **Diversity and Global Understanding**
   Upon completion of their degree programs, graduates will understand the nature of a global society and appreciate the complexities of diversity so they can interact effectively with people from backgrounds and cultures different from their own. They will challenge their own sense of “self” vis-à-vis an understanding of those with different thoughts, beliefs, and traditional behaviors.

5. **Ethics**
   Upon completion of their degree programs, graduates will recognize the importance of ethical behaviors and decision-making.

For more information on general education goals and outcomes, visit excelsior.edu/gened.

Requirements for All Undergraduate Degree Programs

All undergraduate students must meet requirements in the following areas within the arts and sciences:

- **Humanities**
- **Social Sciences and History**
- **Natural Sciences and Mathematics**
- **Written English**
- **Information Literacy**

For specific information about credit hour requirements in these areas for associate degrees and bachelor’s degrees, see page 15 and page 40 of this catalog.
Some degree programs require specific courses within the areas listed above. Your academic advisor will work closely with you to plan how you will meet the requirements of your degree program.

For additional details about meeting general education and distribution requirements, please see information in the Student Policy Handbook.

**Humanities**
The humanities focus on the reflection and interpretation of the human experience. Through the development of knowledge and skills in critical reading, logical thought, and aesthetic appreciation, courses examine the human environment with particular attention to diverse heritage, traditions and cultures.

To meet the humanities distribution requirement, students must successfully complete a specified number of courses or examinations within such disciplines as art, music, literature, foreign language, philosophy, religion, speech, or creative/advanced writing. Courses or examinations used to satisfy the written English requirement and lower-level applied, technical or professional writing courses may not be applied toward the humanities core requirement.

A minimum grade of C is required for courses intended to meet core requirements. A minimum grade of D is required for Excelsior College courses not intended to meet core requirements. A minimum grade of C is required for applicable UExcel® (Excelsior) examinations and courses transferred from other sources.

**Social Sciences and History**
The social sciences and history involve the study of individuals and societies and the processes individuals use to order and understand their world. The social sciences focus on theories that explain verifiable phenomena of individual and group human behavior, using the scientific method. History is the systematic study of people and events in the past.

To meet the social science and history distribution requirement, students must successfully complete a specified number of courses or examinations within such disciplines as anthropology, criminal justice (theory-based, not applied criminal justice), economics, geography, government, history, political science, psychology, and sociology.

A minimum grade of C is required for courses intended to meet core requirements. A minimum grade of D is required for Excelsior College courses not intended to meet core requirements. A minimum grade of C is required for applicable UExcel® (Excelsior) examinations and courses transferred from other sources.

**Natural Sciences and Mathematics**
The natural sciences and mathematics are those branches of science that examine the natural world through scientific methods using quantitative data. There are five major branches of the natural sciences: astronomy, biology, chemistry, earth science, and physics.

To meet the natural sciences distribution requirement, students must successfully complete a specified number of courses or examinations in a science discipline (e.g., biology, chemistry, physics). Courses in applied science will not apply toward the core requirement.

Mathematics is the study of patterns, often relating to quantity, space, and change within a foundation of logic. Core branches of mathematics include, but are not limited to algebra, geometry, analysis (which includes calculus) and applied mathematics (which includes probability and statistics).

To meet the math distribution requirement, students must successfully complete a specified number of courses or examinations in mathematics.
Mathematics courses must include computation or quantitative reasoning. There are some restrictions on courses that can be used to meet the mathematics requirement, such as:

- Arithmetic courses and courses that have been designated as developmental or remedial cannot be used to meet the mathematics requirement.
- No more than three courses of mathematics credit below the level of calculus may be applied to any degree. Representative titles of courses below the level of calculus include College Math, College Algebra, Elementary Functions, Modern Math, Fundamentals of Algebra, Trigonometry, and Precalculus.
- No more than one course or examination may be applied that is:
  - terminal in nature with no prerequisites beyond the level of arithmetic;
  - intended for students outside of science and mathematics;
  - a mathematics appreciation course.

A minimum grade of C is required for courses intended to meet core requirements. A minimum grade of D is required for Excelsior College courses not intended to meet core requirements. A minimum grade of C is required or applicable UExcel (Excelsior) examinations and courses transferred from other sources.

Written English

To meet the written English requirement, students are required to demonstrate competency in expository writing and English.

- Associate degree students are required to complete one expository writing course or examination (minimum 3 credit hours or 4 quarter hours) with a minimum of C grade. This must be completed within the first 13 Excelsior College credits attempted.
- Bachelor’s degree students must complete two expository writing courses or examinations (minimum 6 credit hours or 8 quarter hour credits) with a minimum of C grade.

OR

- One expository writing course or examination (minimum 3 credit hours or four quarter hours) and one applied writing or writing intensive course (minimum three credit hours or four quarter hours). The expository writing course must be completed within the first 13 Excelsior College credits attempted.

The written English requirement may be met in several ways including:

1. College coursework
   
   Expository writing courses such as Excelsior College’s ENG 101 English Composition, ENG 101A Advanced Composition, ENG 102 Composition II, ENG 102A Advanced Composition II, ENG 201 Writing for the Professions

2. Examination
   
   a) UExcel® exam, ENGx111 English Composition exam (fulfills the requirement for associate and bachelor’s degrees)
   
   b) UExcel® exam, ENGx110 College Writing exam (fulfills the requirement for the associate degrees; partially fulfills the requirement for the bachelor’s degrees)
   
   c) Advanced Placement (AP) English Examinations (fulfills the requirement for the associate and bachelor’s degrees)

Excelsior College does not accept the CLEP General Examination in English Composition with Essay toward this requirement.

3. Statement of Equivalency
   
   Submission of an official statement from a regionally accredited institution, from which transfer credit is being accepted, verifying satisfactory completion of the
student’s writing requirement. The statement must reflect whether the institution had a one-course or two-course writing requirement in effect at the time of the student’s matriculation.

4. **Noncollegiate-sponsored instruction**

Successful completion of a noncollegiate-sponsored instructional writing course or program that has been evaluated by either the NYS Board of Regents National College Credit Recommendation Service (formerly National PONSI) or the American Council on Education Center for Adult Learning and Educational Credentials (ACE CREDIT), and contains a recommendation of at least 3 semester-hour credits for the course; this course must contain an actual assessment of the student’s competence in expository writing in English.

A maximum of two semester courses or three quarter courses of credit in English composition/ freshman English courses will apply toward degree requirements. Courses or examinations used to fulfill the written English requirement may not be used to satisfy the humanities requirement.

**Information Literacy**

Students are expected to demonstrate competency in information literacy. The standards, performance indicators, and outcomes for this requirement were selected from the Association of College and Research Libraries (ACRL) Information Literacy Competency Standards for Higher Education. Competency will be assessed through a 1-credit pass/fail course offered online by Excelsior College, **INL 102 Information Literacy**. Excelsior College also offers **CCS 120 EC Success Seminar** and **CCS 112 Success Strategies for Military and Veterans** for 3 credits. Successful completion of the five library assignments embedded in either of these courses with a grade of C or better will satisfy the Information Literacy requirement. Additionally, successful completion of a course taken at a regionally accredited college within the past five years covering comparable content can be reviewed for transferability.

The information-literate student will:

- be able to determine the nature and extent of the information needed.
- access needed information effectively and efficiently.
- evaluate information and its sources critically.
- incorporate selected information into their knowledge base and value system.
- understand many of the economic, legal, and social issues surrounding the use of information.
- access and use information ethically and legally.
Student Policy Handbook
The Excelsior College Student Policy Handbook is your resource for understanding the policies that are important to your academic success. It includes a wide range of information from important federal policies, including your right to privacy, to grading policies and policies and procedures concerning refunds, withdrawals, and other administrative issues.

It is your responsibility to be familiar with these policies. The term "students" includes those currently matriculated at Excelsior College taking examinations and/or courses, non-matriculated students taking examinations and/or courses, non-matriculated students in the application process, individuals using the OneTranscript® service (formerly Credit Bank), formerly matriculated students currently in withdrawn status, and graduates.

You may download the most current copy of the Student Policy Handbook from our website. File the handbook with your other important academic papers along with this catalog for easy reference.

Minimum Academic Average
You must have a cumulative grade point average (GPA) of 2.0 or better to graduate. In addition, a 2.0 GPA or better is also required in the major component of the degree.

Time to Degree Completion
Excelsior’s degree programs are designed to be completed at your own pace. However, a student attending full-time could complete:
- an associate degree in two years;
- a bachelor’s degree in four years; or
- a master’s degree in two years.

Standardized Testing Participation
As an Excelsior College student, you have a responsibility to participate in standardized tests that may be required during the period of your enrollment. These tests may be in addition to regular coursework and are required to gather critical information on achievement of student learning. You are expected to actively participate and make every effort to do your best on these assessments. One example of this type of test is the Proficiency Profile published by the Educational Testing Service. The results from these assessments will not be part of your grade, but are crucial for program improvement and are frequently required by regulators and accreditors. Participation in these assessments contributes toward increasing the value of your degree by providing evidence of student learning to external organizations, employers, and the general public.

Total Credits
You must earn a minimum of 60–67 credits for an associate degree and 120–124 credits for a bachelor’s degree. Credits must satisfy the requirements prescribed for each degree program. Some degrees may require additional credits. See page 15 and page 40 for general information about credit requirements for associate and bachelor’s degrees.
Excelsior College Website

Through the College’s website (excelsior.edu), you have access to a wealth of information to help you succeed as a student. If you haven’t already done so, create a MyExcelsior user account. It will serve as your gateway to a variety of support services and is where you will find up-to-date information about your academic program and receive announcements from the College.

Technology Literacy and Baseline Technology Skills and Resources

Excelsior College defines technology literacy as the ability to identify and responsibly use appropriate technology to communicate, solve problems, access, manage, integrate, evaluate, and create information to improve learning. This will facilitate the ability to acquire new knowledge for lifelong learning in the 21st-century global workplace.

To be successful in online learning, you will need reliable access to a computer with Internet connectivity and be able to use:

- a personal computer,
- software programs to create, edit, store and print documents,
- electronic communication tools, and search and retrieve information from electronic sources to complete assignments and activities,
- the College’s website to access information and resources, and
- the College’s learning management system to access learning resources, participate in course discussions, and complete assignments.

In addition, your computer and operating systems must meet some minimal technical requirements as described in the Excelsior College Computer System Requirements.
ABOUT TEST PREPARATION AND TUTORIAL SERVICES

The College offers UExcel® exams and Excelsior College® Examinations designed to help you advance your academic objectives through independent study. A variety of learning resources, including content guides, guided learning materials, and practice tests, are available directly from Excelsior. These resources are prepared by Excelsior College so you can be assured that they are current and cover the content you are expected to master for the exams. Along with your own desire to learn, these resources are usually all that you need to help you succeed.

Some students may seek additional assistance or may be contacted by tutorial firms and test-preparation companies offering their own products and services. The College is not affiliated with any of these firms and does not endorse the products or services of any of these vendors since we do not review their materials for content or compatibility with UExcel exams and Excelsior College Examinations.

To help you become a well-informed consumer we suggest, before you make any purchase decision regarding study materials provided by organizations other than Excelsior College, that you consider the points outlined on our website.

excelsior.edu/testprep

IMPORTANT

We have been made aware of incidents in which a test-preparation firm has contacted an Excelsior College student requesting access to their Excelsior College® Examinations preparatory materials, including practice exams. Sharing learning resources with a test-preparation firm is a clear violation of the academic honesty code. Students found to have engaged in academic dishonesty at Excelsior College will be subject to disciplinary action.

If you are approached by any individual or third party about sharing any Excelsior College-provided study materials, contact us at PR@excelsior.edu.
ASSOCIATE DEGREES
AT EXCELSIOR COLLEGE

Degree area key

BUS  HS  LA  PS  TECH

For undergraduate- and graduate-level nursing degree programs, refer to the Excelsior College Nursing Catalog.
## Credit Requirements for ASSOCIATE DEGREES

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<td>Natural Sciences</td>
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<td>Mathematics</td>
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<td><strong>Capstone</strong></td>
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<tr>
<td>The Capstone course must be taken at Excelsior College and cannot be transferred in.</td>
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<tr>
<td>Requirements vary by degree. Specific details can be found under each degree listing in this catalog.</td>
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**TOTAL DEGREE CREDITS REQUIRED** 60–67

This chart shows the credits required for overall degree requirements. Refer to a more detailed listing of degree requirements under the specific degree on the proceeding pages.
Credit Requirements Specific to the Associate in Applied Science in ADMINISTRATIVE/MANAGEMENT STUDIES

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<td>Social Sciences/History</td>
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<td>Natural Sciences</td>
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<td>Mathematics</td>
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<td>Electives</td>
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<td>Information Literacy</td>
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<tr>
<td>Capstone</td>
<td>3</td>
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</tbody>
</table>

The Capstone course must be taken at Excelsior College and cannot be transferred in.

**TOTAL DEGREE CREDITS REQUIRED** 60

This chart shows the credits required specifically for the Associate in Applied Science in Administrative/Management Studies degree. Refer to page 19 for more details.
Credit Requirements Specific to the ASSOCIATE IN APPLIED SCIENCE IN TECHNICAL STUDIES

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<td>TECH 230 Technology and Society</td>
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<td>Behavioral Sciences</td>
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</tr>
<tr>
<td>Information Literacy</td>
<td>1</td>
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</tbody>
</table>
| **Capstone**
  The Capstone course must be taken at Excelsior College and cannot be transferred in. | 3            |

**Total Degree Credits Required**

60

This chart shows the credits required specifically for the Associate in Applied Science in Technical Studies degree. Refer to page 23 for more details.
Associate in Applied Science in
ADMINISTRATIVE/ MANAGEMENT STUDIES

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 16 for an overview of general education and distribution requirements for all associate degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

Behavioral Sciences

Business Electives

Computers

BUS 299 Business Strategy (capstone)
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 15. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

For the business student, Excelsior College offers a flexible program at the associate level. The program is designed for students seeking career advancement or looking to continue their studies in one of our bachelor’s degree programs. This degree program comprises learning and professional skill development in the areas of administration and/or management. The associate degree prepares students for high-growth industries, and individuals exploring careers in the following business administration areas will benefit from this degree program: personnel/office administration, recordkeeping, data entry, clerical, secretarial, word processing/typing, reception/front office administration, and customer/guest services. Moreover, individuals exploring careers in the following business management areas will benefit from this degree program: human resources/relations management, file/inventory management, personnel management, facilities/equipment management, and general management.

Graduates of the Associate in Applied Science in Administrative/Management Studies program who are interested in continuing to baccalaureate-level study should contact the business advising team for advice in the preferred program of study. See chart on page 18 for a graphic representation of credit required for this degree program. A description of outcomes and specific degree requirements follows.

Program Outcomes

Upon successful completion of the Excelsior College Associate in Applied Science in Administrative/Management Studies program, the graduate will be able to:

1. Recognize key management concepts, theories, and practices within the field of business.
2. Apply good judgment and business ethical reasoning to problems and scenarios that commonly arise in business organizations.
3. Apply business theories and concepts to selected business problems.
4. Communicate clearly, appropriately, and persuasively to a business audience.
5. Utilize business computer applications and information technologies to organize and interpret business data and information.
6. Apply scientific reasoning and college-level mathematics to real-world business problems.

Degree Requirements

A minimum of 60 credits is required for the Associate in Applied Science in Administrative/Management Studies, distributed as follows:

- 20 credits minimum in the arts and sciences
- 20 credits minimum in the business component
- 20 credits of electives (to include information literacy)

Arts and Sciences Component (20 credits)

Arts and sciences are those areas of study classified as humanities, social sciences/history, and natural sciences/mathematics. The Associate in Applied Science in Administrative/Management Studies requires a minimum of 20 credits in the arts and sciences distributed as follows:

- 6 credits in the humanities, including 3 credits in English Composition to fulfill the College’s written English requirement and 3 credits in ethics;
- 6 credits in social sciences/history, including 3 credits in behavioral sciences;
6 credits in natural sciences/mathematics to include 3 credits in natural sciences and 3 credits in mathematics;
- 2 credits in any arts and sciences area.

Excess credits in arts and sciences or in the business component may be applied toward electives.

Humanities
At least 6 credits must be earned in humanities subjects — 3 of those 6 credits must be earned through completion of an examination or course used to satisfy the written English requirement (see page 7). The remaining 3 credits must be earned in ethics with a minimum grade of C.

Social Sciences/History
At least 6 credits must be earned in social sciences/history of which 3 must be in behavioral sciences.

Social sciences/history subjects include, but are not limited to, anthropology, sociology, government, political science, psychology, geography, history, and economics.

Natural Sciences and Mathematics
At least 6 credits must be earned in natural sciences/mathematics. A minimum of 3 credits in college-level math courses and a minimum of 3 credits in natural sciences may be applied toward degree requirements.

Natural sciences/mathematics subjects include, but are not limited to, anatomy and physiology, microbiology, chemistry, biology, genetics, zoology, physics, precalculus, intermediate algebra, geometry, trigonometry, finite mathematics, astronomy, geology, and oceanography.

Arts and Sciences Electives
A maximum of 2 credits may be applied in this area.

Business Component (20 credits)
The Associate in Applied Science in Administrative/Management Studies requires a minimum of 20 credits in the career component. The business component consists of business credits related to your career field and primarily applies to those with military backgrounds. A maximum of 9 credits in computer courses/exams may be applied and must include a course/exam in computers, such as IT 221 Introduction to Computers. A grade of C or better is required for all applicable credit.

BUS 299 Business Strategy (capstone) is the required capstone course included in the business component.

Electives (20 credits)
The Associate in Applied Science in Administrative/Management Studies allows room for up to 20 credits in electives. Applied to this component is the 1-credit information literacy requirement. See page 8 for more information about this requirement.

Although you may have already fulfilled the minimum credit requirements in the arts and sciences and career component of your degree, you may still need to earn additional credit to fulfill the total 60-credit requirement. To do this, you may apply any of the following:

- arts and sciences credit above the minimum required
- business component credit above the minimum required
- elective credit

Elective credit may be earned in any field of college study, including business and other professional, technical, or career areas, as well as in the arts and sciences. Examples include military science, health, nursing, engineering,
education, computer science, home economics, secretarial science, architecture, drafting, auto mechanics, law, social work, and criminal justice. A maximum of two credits in physical education activity courses may be applied to the degree.
Associate in Applied Science in TECHNICAL STUDIES

60 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 17 for an overview of general education and distribution requirements for all associate degree programs.

DEGREE-SPECIFIC REQUIREMENTS

TECH 230 Technology and Society

CORE COMPONENT

- Introduction to Computing
- Integrated Technology Assessment

TECHNOLOGY COMPONENT

- Computer Technologies
- Electromechanical Technologies
- Electronic/Instrumentation Technologies
- Nuclear Technologies/Power Plant Technologies

Technical Electives

TECH 290 Integrated Technology Assessment (capstone)

The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 17. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Associate in Applied Science in Technical Studies (AAT) program focuses on preparing students to be employed as technicians in technology-related industries such as nuclear, energy, computer, electronics, and electrical. While the Associate in Applied Science in Technical Studies program is designed specifically to meet the needs of students with military backgrounds by recognizing college-level learning that takes place as a result of military training, the program may also be appropriate for non-military students. Specifically, the program has identified four technical concentrations that provide students with a broad professional and technical foundation in the various functional components of technology. The concentrations are a group of related college-level courses within a technical component that combine depth and breadth of study in a recognized math/science-based technology discipline. The goal of the degree program in specific concentrations is to foster the ability of students to apply what they have learned within the degree program to the real-world contexts of a technology-based industry.

The four concentrations are: Computer Technologies, Electromechanical Technologies, Electronic/Instrumentation Technologies, and Nuclear Technologies/Power Plant Technologies.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple, flexible pathways — offering aggregation pathways to degree completion. In this way, the program is customizable and tailored to each student’s need and learning style. Graduates of the Associate in Applied Science in Technical Studies program who are interested in continuing on to baccalaureate-level study should contact the technology advising team for advice on the preferred program of study. Refer to page 25 to review sample concentration area subjects and technical elective subjects.

Program (Student) Outcomes

Upon successful completion of the Excelsior College Associate in Applied Science in Technical Studies program, the graduate will be able to:

1. Demonstrate effective oral and written communication skills.
2. Demonstrate introductory college-level proficiency in one or more of the subject areas in mathematics and/or natural sciences.
3. Demonstrate introductory college-level proficiency in one or more of the social sciences.
4. Demonstrate a comprehension of cultural diversity, human behavior, and the relationship between technology and society.
5. Demonstrate the application of technology in the concentration area.

Degree Requirements

The Associate in Applied Science in Technical Studies requires a minimum of 60 credits, distributed as follows:

» 20 credits minimum in the arts and sciences
» 27 credits minimum in the career component (to include the capstone)
» 13 credits in the free electives component (to include information literacy)

Arts and Sciences Component (20 credits)

Arts and sciences are those areas of study classified as humanities, social sciences/history, and natural sciences/mathematics. The Associate in Applied Science in Technical Studies requires a minimum of 20 credits in the arts and sciences, distributed as follows:
1. Humanities
At least 6 credits must be earned in humanities. Three credits must come from a course that satisfies the written English requirement [ENGx111 English Composition, ENG 101 English Composition] (see page 7). The remaining 3 credits must be in humanities subjects other than writing, which include literature, foreign languages, religion, philosophy, art, ethics, and music.

2. Social Sciences/History
At least 6 credits must be earned in social sciences/history—a minimum of 3 credits in behavioral science and a minimum of 3 credits in technology and society [TECH 230 Technology and Society].

3. Natural Sciences/Mathematics
A least 6 credits must be earned in natural sciences/mathematics—a minimum of 3 credits in college-level math and a minimum of 3 credits in natural sciences. Some sample natural science subjects and courses are biology, chemistry, physics, and geology. Some sample math subjects and courses are intermediate algebra, college algebra, trigonometry, and statistics.

4. Arts and Sciences Electives
The remaining credits needed to satisfy the 20-credit requirement may be earned in any area of the arts and sciences.

Career Component (27 credits)
A minimum of 27 credits are required in the career component. The career component consists of 6 core component credits, 15 concentration area credits, and 6 technical electives credits. Credits applied to the Career Component require a grade of C or better.

Core Component (6 credits)
► Introduction to Computing
[IT 221 Introduction to Computers]
► Integrated Technology Assessment (required capstone course)
[TECH 290 Integrated Technology Assessment]

Technology Component (15 credits)
► Computer Technologies
► Electromechanical Technologies
► Electronic/Instrumentation Technologies
► Nuclear Technologies/Power Plant Technologies

Technical Electives (6 credits)

Free Elective Component (13 credits)
The degree program allows room for up to 13 credits in free electives. Applied to this component is the 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 or refer to our website for more information about information literacy.
Concentrations

**COMPUTER TECHNOLOGIES**

A concentration in computer technologies focuses on training and preparing students to stay up-to-date with the rapidly changing tech environment. The computer technologies concentration is a technical discipline centered on the design, assembly, testing, and maintenance of computer circuitry and peripheral hardware. The concentration also emphasizes the design, development, operation, and troubleshooting of computer, database, and network systems. The computer technologies outcomes are geared toward providing students with a foundational knowledge of computer technologies in a wide variety of subject areas and preparing students for positions including circuit design engineer, hardware technician, software developer, database specialist, or network engineer.

Upon successful completion of the Excelsior College Associate in Applied Science in Technical Studies with a Computer Technologies area of focus, the student will be able to:

1. Use electric circuits, analog and digital electronics, software applications, and operating systems to build, test, operate, and maintain computer systems and networks.
2. Install, update, and configure computer applications software.

**ELECTROMECHANICAL TECHNOLOGIES**

A concentration in electromechanical technologies focuses on training and preparing the students with the knowledge and practical skills in mechanical technology along with electrical and electronic circuits. It is centered on design, assembly, testing, maintenance, and upgrading of electronic and computer-integrated mechanical components and systems, such as automated manufacturing tools and engineering service equipment. The electromechanical technologies outcomes are geared toward providing students with fundamental as well as applied knowledge in automated, servo-mechanical, or electromechanical tools, equipment, and processes. These will prepare the students for positions in operating, repairing, and upgrading unmanned submarines, aircraft, robots, or such automated equipment.

Upon successful completion of the Excelsior College Associate in Applied Science in Technical Studies with an Electromechanical Technologies area of focus, the student will be able to:

1. Use circuit analysis, analog and digital electronics, basic instrumentation, and computers to aid in the characterization, analysis, and troubleshooting of electromechanical systems.
2. Use mechanics, strength of materials, engineering materials, and manufacturing processes to aid in the characterization, analysis, and troubleshooting of electromechanical systems.

*continued on next page*
ELECTRONIC / INSTRUMENTATION TECHNOLOGIES

A concentration in electronic/instrumentation technologies focuses on training and preparing the students with the knowledge and practical skills in electrical/electronic circuits and process instrumentation. It is centered on design, assembly, testing, maintenance, and upgrading of electrical and electronic components and systems used in analytical instruments and measurements, medical technology, communications, and industrial process control. The electronic/instrumentation technologies’ outcomes are geared toward providing students with fundamental as well as applied knowledge in AC, DC, and digital circuits, microprocessors, and programmable controllers. These will prepare the students for positions in operating, repairing, and upgrading process instrumentation tools, equipment, and systems.

Upon successful completion of the Excelsior College Associate in Applied Science in Technical Studies with an Electronic / Instrumentation Technologies area of focus, the student will be able to:

1. Apply the concepts of automatic control, measurements, and sensor selection for the operation and testing of continuous and discrete systems.
2. Use electrical/electronic devices, computers, and instrumentation for the operation and troubleshooting of analog and digital communication systems.

NUCLEAR TECHNOLOGIES / POWER PLANT TECHNOLOGIES

A concentration in nuclear technologies/power plant technologies focuses on preparing students for technician/operator positions in the nuclear industry. The nuclear technologies/power plant technologies concentration is a technical discipline centered on the design, materials, operations, and maintenance associated with radiation shielding, radiation detection instrumentation, and emergency planning for nuclear research and power generation facilities. The nuclear technologies/power plant technologies outcomes are geared toward providing students with a foundational knowledge of nuclear technologies/power plant technologies in support of technician/operator positions at nuclear facilities.

Upon successful completion of the Excelsior College Associate in Applied Science in Technical Studies with a Nuclear Technologies/Power Plant Technologies area of focus, the student will be able to:

1. Apply the applicable regulations and the concepts of control performance, human interface, and quality assurance to the operation and maintenance of nuclear systems.
2. Demonstrate a proficiency in radiation protection procedures and regulations pertaining to the safe operation of nuclear systems.
3. Describe the key procedures in the recording and interpretation of measurements, start-up and shut-down of plant equipment and the maintenance of power plant systems.
4. Identify the key principles in the proper operation, testing, and troubleshooting of boilers, turbines, electric generators, pumps, and other auxiliary.
Associate in Science in
CRIMINAL JUSTICE

60 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 15 for an overview of general education and distribution requirements for all associate degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CJ 101 Introduction to Criminal Justice
CJ 110 Introduction to Law Enforcement
CJ 120 Introduction to Corrections
CJ 256 Criminal Justice Administration
CJ 265 Criminal Procedure & Evidence
CJ 298 Criminal Justice Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 15. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

An Associate in Science in Criminal Justice integrates the theories, history, and legal and ethical issues typically covered in the study of crime and the criminal justice system. It is recommended you also complete coursework outside the criminal justice major in psychology, sociology, and communications to better place your knowledge of the field in its broader social context. Graduates with an associate degree in this field are positioned to join the ranks of many agencies that require only 60 college credits to begin work. It is also a solid foundation upon which you may begin your bachelor’s degree.

The Associate in Science in Criminal Justice requires 18 credits minimum with at least a 2.0 GPA.

Program Outcomes

Students who complete the Associate in Science in Criminal Justice will be able to:

- Describe the various components of the criminal justice system—Legislation, Enforcement, Judicial, and Correctional.
- Explain the major sociological and psychological theories of crime.
- Explain how ethics is used in the decision-making process of the criminal justice system.
- Analyze the various forms of diversity throughout the criminal justice system.
- Describe the various criminal justice career opportunities.

Core Requirements

A. CJ 101 Introduction to Criminal Justice
B. CJ 110 Introduction to Law Enforcement
C. CJ 120 Introduction to Corrections
D. CJ 256 Criminal Justice Administration
E. CJ 265 Criminal Procedure and Evidence
F. CJ 298 Criminal Justice Capstone (Associate Degree), a grade of C or better required
Associate in Science in
HEALTH SCIENCES

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 15 for an overview of general education and distribution requirements for all associate degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

HSC 214 Ethics and the Health Professions

Lifespan Developmental Psychology

Natural Science Supportive of Health Sciences

CORE COMPONENT

- HSC 112 Medical Terminology
- HSC 121 Health Care in the United States
- HSC 124 Professionalism in Health Care

Health Sciences Elective Credit

HSC 292 Associate in Health Sciences (capstone)
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 15. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Associate in Science (AS) in Health Sciences is a **60-credit program** composed of courses in the arts and sciences as well as in the health sciences. The program is designed as an academic gateway for individuals pursuing a career in the health sciences or for those already working in the field who want to build on their existing knowledge and skills to advance their career.

The AS in Health Sciences program lays the foundation for continued education at the baccalaureate level. Through course work in the arts and science and health science components of the curriculum, students engage in learning that fosters information literacy, critical thinking, and effective communication and builds a strong foundation for lifelong learning and career success. Graduates of the program may apply all credits earned toward the Excelsior College Bachelor of Science (BS) in Health Sciences or a total of 50 credits toward the BS in Health Care Management.

Program Outcomes

Upon completion of the program, the graduate will be able to:

1. Demonstrate effective oral and written communication.
2. Demonstrate critical thinking skills for guiding decision-making in various health care scenarios.
3. Describe the structure and function of the health care delivery system in the United States.
4. Explain the various roles and responsibilities of health professionals.
5. Critique current trends and opportunities that improve the provision of health care.

Program Requirements

The Associate in Science in Health Sciences requires a total of 60 credits, including 30 credits in arts and sciences and 30 credits in health sciences.

**Arts and Sciences Component (30 credits)**
The study of the arts and sciences is an essential part of preparation for professional practice in that it contributes both knowledge and an intellectual approach to problem solving. The arts and sciences requirements ensure that the student will develop college-level competence in the areas of the humanities, social sciences/history, and natural sciences/math.

A. **Written English Requirement**
A minimum of 3 credits are required in expository writing, which may be at the freshman level. (See the written English requirement section on page 7 for specific details.)

B. **Humanities**
A minimum of 6 credits must be earned in the humanities. The humanities include subjects such as art, literature, ethics, philosophy, religion, theatre, speech, and foreign languages. Students must complete HSC 214 Ethics and the Health Professions or an equivalent ethics course with a minimum grade of C earned.

C. **Social Sciences/History**
A minimum of 6 credits must be earned in the social sciences/history field. The social sciences include subjects such as geography, economics, cultural anthropology, political science, sociology, and psychology. Three credits must be earned in Lifespan Developmental Psychology, with a minimum grade of C.

D. **Natural Sciences/Mathematics**
A minimum of 6 credits must be earned in natural sciences/mathematics. A minimum of 2 credits is required in natural sciences subjects supportive of health sciences (biology, chemistry, physics, etc.) to meet the general education requirements. This credit must be earned with a grade of C or better. A minimum of 2 credits in mathematics is required.
E. Arts and Sciences Electives
The remaining 8 credits may be distributed among the arts and sciences areas of the humanities, social sciences/history, and natural sciences/mathematics.

Health Sciences Component (30 credits)
The Health Sciences component provides the student with a knowledge base in the health care field, from which to begin or build their career, and is composed of:
- 9 credits in health sciences core courses,
- 18 credits in health sciences electives, and
- 3 credits for the Associate Health Sciences Capstone.

Health Sciences Core (9 credits)
Associate in Health Sciences students must complete the following three courses with a minimum grade of C or better in order to satisfy the core requirement: HSC 112 Medical Terminology (3 credits), HSC 121 Health Care in the United States (3 credits), and HSC 124 Professionalism in Health Care (3 credits).

Health Sciences Electives (18 credits)
Health sciences elective credit includes coursework from fields such as: radiology, dental hygiene, cardiovascular technology, pharmacy technology, nursing, and medical laboratory technology, etc. Arts and sciences credit that is supportive of the health sciences may also be applied to this area. Additionally, health sciences elective credit may be awarded for faculty-approved licenses and certifications. Excelsior College regularly reviews other licenses and certifications in various areas of health care for which health sciences elective credit may be awarded. For more specific information, see the list of approved licenses and certifications on page 257.

Health Sciences Capstone (3 credits)
HSC 292 Associate in Health Sciences Capstone must be completed at Excelsior College with a minimum grade of C. To be eligible for the capstone, students must have all other health sciences requirements complete and be within 9 credits of completing the arts and sciences component, including successful completion of the written English requirement.
Associate in Science in **LIBERAL ARTS**

**GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS**

Refer to chart on page 15 for an overview of general education and distribution requirements for all associate degree programs.

Ethics

**DEGREE-SPECIFIC REQUIREMENTS**

LA 298 Associate Degree Capstone

The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 15. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Associate in Science in Liberal Arts is an entry-level liberal arts program in which up to half of the credits can be applied professional. For students, whose interests and goals include the traditional arts and sciences realms of humanities, social sciences, history, natural sciences, and/or mathematics, or who seek to complete an associate’s degree for job qualification or promotion and intend eventually to go on to the baccalaureate level, the Associate in Liberal Arts degree may be more appropriate than a structured pre-professional degree in a specific discipline. The requirements for the General Education component of any Excelsior College degree fit the plan of the Associate in Science in Liberal Arts, and all credits are transferable to the Bachelor of Science in Liberal Arts. Those seeking more structure to map with their career path can choose to complete an Area of Focus, with 15 credits in a single applied professional or arts and sciences discipline.

Program Outcomes

1. Critical Thinking
   Demonstrate an ability to use appropriate terminology, define concepts, and apply skills across a range of contexts and areas of knowledge to identify and solve problems.

2. Communication
   Interpret various types of written, visual, and/or oral information; organize ideas; and communicate precisely and clearly to express complex thoughts.

3. Diversity
   Identify similarities and contrasts among cultures, times, and environments, demonstrating an understanding of cultural pluralism and knowledge of global issues.

4. Ethics
   Explain ethical issues and conflicts, indicating actions appropriate to the issue and the range of potential consequences.

Degree Requirements

The Associate in Science requires a total of 60 credits, distributed as follows:
- 30 credits minimum in the arts and sciences
- 30 credits minimum in applied professional and/or additional arts and sciences credit

Refer to the chart on page 34 for a graphic representation of the minimum credits necessary along with the credit distribution requirements for this degree program.

Arts and Sciences Component (30 credits)

Arts and sciences are those areas of study classified as humanities, social sciences/history, and natural sciences/mathematics. The Associate in Science requires a minimum of 30 credits in the arts and sciences distributed as follows:

A. Written English Requirement: 3 credits (minimum grade of C required)

B. General Education Requirement:
   18-credit minimum of which 6 credits are required in each of the three distribution areas: humanities, social sciences/history, and natural sciences/mathematics. Within the natural sciences/math distribution, at least 2 credits must be earned in college-level mathematics and 2 credits in the natural sciences. The humanities distribution must include at least 2 credits in ethics with a minimum grade of C, and at least one 3-credit course in a humanities discipline (see page 5 for details).

C. Arts and Sciences Electives: 6 credits

D. Associate Degree Capstone: 3 credits (minimum grade of C required)

Other Requirements (30 credits)

- Information Literacy Requirement: 1 credit
- Applied Professional and/or Additional Arts and Sciences Credits: 29 credits

Optional: Area of Focus

- Optional Area of Focus: 15 credits in a single discipline and a minimum 2.0 GPA required.
BACHELOR’S DEGREES AND DUAL DEGREES AT EXCELSIOR COLLEGE

Degree area key

For undergraduate- and graduate-level nursing degree programs, refer to the Excelsior College Nursing Catalog.
# BACHELOR OF ARTS IN LIBERAL ARTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
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<tr>
<td>Written English Requirement</td>
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<tr>
<td>Humanities</td>
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<tr>
<td>Includes Ethics</td>
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<tr>
<td>Social Sciences/History</td>
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<td>Natural Sciences</td>
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<td>Mathematics</td>
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<td>Additional Arts and Sciences</td>
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<td>Any collegiate-level study</td>
<td>29</td>
</tr>
<tr>
<td>LA 498 Liberal Arts Capstone or LA 498JS Judaic Studies Capstone</td>
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The Capstone course must be taken at Excelsior College and cannot be transferred in.
Program Description

Students in the Bachelor’s in Liberal Arts degrees explore the full breadth of the arts and sciences while demonstrating competency in critical 21st century skills most desired by employers. The degree programs stress intellectual development and multidisciplinary exploration of the critical issues and values inherent in the human experience, equipping students for career advancement or graduate school options. Students who choose to pursue the general liberal arts degrees do not specialize; rather, they select from a vast menu of courses that prompt students to ask questions about themselves, their history, their culture, their values, and their future and to consider whether a liberal education can, perhaps, release us from preconceived notions and unexamined attitudes. The general Liberal Arts degrees are popular with our students because they offer the most flexible approach to degree completion using many different credit sources. They are an excellent choice for students who would like to investigate multiple opportunities while developing the skills and background necessary for a personally, socially, and professionally fulfilling life.

Of a total of 120 degree credits, Bachelor of Arts students must complete 90 credits in the arts and sciences. The remaining credits may be a combination of applied professional and additional arts and sciences. At least 30 of the degree credits must be at the upper level in the Arts and Sciences. Degree depths in two different disciplines are required for either degree, ensuring exposure to a variety of subject areas and allowing students to explore thematic areas of study that connect disciplines in a meaningful way. Students may complete an optional Area of Focus by taking 21 or more credits in a single discipline.

Degree Requirements

Arts and Sciences Component (90 credits)

Required credits are distributed as follows:

A. Written English Requirement (6 credits)
   (minimum grade of C required)

B. General Education Requirement
   27-credit minimum of which 9 credits are required in each of the three distribution areas: humanities, social sciences/history, and natural science/mathematics.
   Of the 27 total general education requirement credits required, 3 credits must satisfy the humanities requirement (your ethics course may complete the humanities requirement), 2 credits must be in college-level mathematics and 2 credits must be in the natural sciences.

C. Capstone Requirement (3 credits)
   This requirement may be satisfied by completion of one of two capstone courses:
   LA 498 or LA 498JS (dedicated for the Judaic Studies students in the BAL/BSL program).
   This requirement must be satisfied at Excelsior College and cannot be transferred in. A grade of C or better is required to pass the capstone requirement. Contact your academic advisor to discuss the appropriate capstone course for your degree.

D. Additional Arts and Science Electives
   54 credits in arts and sciences courses of your choosing.

E. Depth Requirement
   Within your 120 credits, a minimum of 15 credits are required in each of two different arts and sciences disciplines. At least 6 credits in each depth area must be at the upper level. A minimum 2.0 GPA is required.

Other Requirements (30 credits)

Required credits are distributed as follows:

- Information Literacy Requirement: 1 credit
- Applied Professional and/or Additional Arts and Sciences Credits: 29 credits

Optional Area of Focus

A minimum of 21 credits are required in a single arts and sciences discipline, of which 6 must be upper-level. An area of focus may be used to satisfy a depth requirement; a minimum 2.0 GPA is required.
# CREDIT REQUIREMENTS FOR BACHELOR OF SCIENCE DEGREES

<table>
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<th>Requirement</th>
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<td><strong>Additional Arts and Sciences</strong></td>
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<tr>
<td><strong>Capstone</strong></td>
<td>3</td>
</tr>
<tr>
<td>The Capstone course must be taken at Excelsior College and cannot be transferred in.</td>
<td></td>
</tr>
<tr>
<td><strong>Additional collegiate-level study</strong></td>
<td>56–60</td>
</tr>
<tr>
<td>Requirements vary by degree. Specific details can be found under each degree listing in this catalog.</td>
<td></td>
</tr>
</tbody>
</table>

| TOTAL DEGREE CREDITS REQUIRED     | 120–124      |

This chart shows the credits required for overall degree requirements. Refer to a more detailed listing of degree requirements under the specific degree on the proceeding pages.
# CREDIT REQUIREMENTS SPECIFIC TO THE BACHELOR OF PROFESSIONAL STUDIES

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written English Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences/History</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>Professional Component</td>
<td>42</td>
</tr>
<tr>
<td>Elective</td>
<td>44</td>
</tr>
<tr>
<td>Information Literacy</td>
<td>1</td>
</tr>
<tr>
<td>Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Capstone**

The Capstone course must be taken at Excelsior College and cannot be transferred in.

**TOTAL DEGREE CREDITS REQUIRED**

120

This chart shows the credits required specifically for the Bachelor of Professional Studies degrees. Refer to page 42 and page 46 for more details.
BACHELOR OF PROFESSIONAL STUDIES IN
BUSINESS AND MANAGEMENT

GENERIC EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 41 for an overview of general education and distribution requirements for all bachelor’s degree programs.

DEGREE-SPECIFIC REQUIREMENTS
BUS 323 Business Ethics
College Algebra or Statistics
BUS 490 Integrated Business and Management Assessment (capstone)
The Capstone course must be taken at Excelsior College and cannot be transferred in.

PROFESSIONAL COMPONENT
PROFESSIONAL CORE REQUIREMENTS
► BUS 341 Management Concepts and Applications
► BUS 452 Business Leadership
► ACC 211 Financial Accounting or ACC 212 Managerial Accounting
► IT 221 Introduction to Computers
► IT 390 Project Management

BUSINESS AND MANAGEMENT CORE REQUIREMENTS
► BUS 312 Managing Human Resources
► BUS 351 Marketing Concepts and Application
► BUS 350 Principles of Finance
► BUS 311 Organizational Behavior
► BUS 435 International Business

ELECTIVE CREDIT COMPONENT
44 credits in free elective to include credits from the arts and sciences, business, or any approved free elective area.

Concentration Options
Accounting, Finance, General Business, Logistics Management, Management of Human Resources, or Marketing (at least 9 upper level credits)

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 41. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Professional Studies in Business and Management is a flexible career-oriented program developed to serve the needs of students who want to build upon their existing knowledge and earn a bachelor’s degree within their career field.

The structure and flexibility of the Bachelor of Professional Studies (BPS) in Business and Management makes it an excellent educational next step for graduates of Excelsior College associate in applied science programs in business and technology. As with other bachelor’s programs, credit is awarded for Excelsior College courses and examinations, courses taken at accredited institutions other than Excelsior, approved proficiency exams, approved military training, and programs and courses approved for credit by the American Council on Education (ACE) or the New York State Board of Regents National College Credit Recommendation Service (formerly known as National PONSI).

The Excelsior College BPS degree is an attractive option for students who seek to apply credit for military and other training toward a bachelor’s degree. Additionally, the BPS degree is an attractive option for military spouses and for veterans and DOD civilians who have completed government-sponsored training that has been evaluated for college credit by ACE.

Of the total 120 credits for the Bachelor of Professional Studies in Business and Management, 30 must be earned at the upper level, 9 in the arts and sciences, 15 in the professional component and 6 in electives.

The outcomes and specific degree requirements for the Bachelor of Professional Studies in Business and Management follow.

Program Outcomes

Upon successful completion of the Excelsior College Bachelor of Professional Studies in Business and Management program, the graduate will be able to:

1. Apply basic accounting concepts and principles to the analysis and interpretation of corporate financial statements.
2. Explain how modern marketing concepts and theories support and influence business strategies.
3. Utilize financial management concepts and tools in order to make informed business decisions.
4. Apply the major concepts and theories of management to develop business strategies in a real-world context.
5. Analyze the opportunities and risks associated with doing business in a global environment.

6. Employ organizational theories and concepts to explain the impact of the organizational environment on management practices and employee relations.
7. Analyze various leadership approaches and their application to different organizational contexts.
8. Apply project management tools and techniques in a business environment.
9. Effectively communicate strategic management concepts orally and in writing to multiple audiences.
10. Apply various information technologies to support business strategies.
11. Justify decisions by evaluating the social, ethical, and legal implications for business organizations.
12. Apply knowledge of business concepts and functions in an integrated manner.
**Degree Requirements**

Every Excelsior College degree program requires a specific number of credits in each of its component areas. The chart relevant to your degree program shows a graphic representation of the credit needed to fulfill all the requirements for your chosen degree.

The Excelsior College Bachelor of Professional Studies in Business and Management program comprises three major components: arts and sciences, professional, and elective credit. The three components and their respective requirements are explained in the following sections.

A grade of "C" or higher is required for all Professional Component core requirements, the written English requirement (both courses), Precalculus Algebra, Statistics, and Ethics.

**Arts and Sciences Component**

*(30 credits, including 9 upper-level)*

Excess credits in arts and sciences may be applied toward electives.

**A. Written English Requirement**

At least 6 credits must come from courses that satisfy the written English requirement (see page 7).

**B. Humanities**

You must successfully complete at least 9 credits in the humanities (must include Ethics) [BUS 323 Business Ethics, BUSx323 Business Ethics, BUSx310 Ethics Theory and Practice]. Ethics must be completed with a grade of C or better.

Humanities subjects include, but are not limited to, art, music, literature, foreign language, philosophy, religion, speech, and creative/advanced writing.

Examinations or courses used to satisfy the written English requirement may not be applied toward the humanities requirement.

**C. Social Sciences/History**

You must successfully complete a minimum of 6 credits in the social sciences/history. This is an exception to the general education requirements for a minimum of 9 credits in social sciences/history.

Social sciences/history subjects include, but are not limited to, anthropology, sociology, government, political science, psychology, geography, history, and economics.

**D. Natural Sciences and Mathematics**

You must successfully complete a minimum of 6 credits in mathematics to include a 3-credit course in either College Algebra at the level of precalculus or above [MAT 116 Precalculus Algebra, MATx116 Precalculus Algebra] or Statistics [BUS 233 Business Statistics, MATx210 Statistics].

You must successfully complete a minimum of 3 credits in natural sciences [BIO 110 Biology (Non-Lab), GEOL 108 Earth Science and Society, GEOL 114 Introduction to Oceanography, PHYS 201–203 Physics I–II, NS 110 Science in Today’s World].

Natural sciences and mathematics subjects include, but are not limited to, anatomy and physiology, microbiology, chemistry, biology, genetics, zoology, physics, precalculus, calculus, astronomy, geology, oceanography, etc.

Only three college-level math courses below the level of calculus may be applied to degree requirements.

**Professional Component**

*(45 credits, including 15 upper-level)*

The professional component includes a professional core that helps you gain basic knowledge in business administration and the underlying discipline of decision making, and a business and management core and professional electives that allow you to apply and synthesize this knowledge through the study of various business content areas. At least 15 credits at the upper (junior/senior) level must be completed in the professional component; 9 of these upper-level credits must be in the business and management core and/or professional component electives. Credits may be earned through Excelsior College courses and examinations and those completed through...
other approved sources, as well as approved military and business and industry training.

Professional Core Requirements
One course required in each professional core area below.

- General Management
  [BUS 341 Management Concepts and Applications, BUSx240 Principles of Management]
- Leadership
  [BUS 452 Business Leadership]
- Accounting
  [ACC 211 Financial Accounting, ACC 212 Managerial Accounting, ACCx211 Financial Accounting, ACCx212 Managerial Accounting]
- Computer Applications
  [IT 221 Introduction to Computers, BUSx221 Business Information Systems]
- Project Management
  [IT 390 Project Management]

Business and Management Core
(9 upper-level credits)
One course required in each business and management core area below.

- Human Resources Management
  [BUS 312 Managing Human Resources, BUSx410 Human Resource Management]
- Marketing
  [BUS 351 Marketing Concepts and Application, BUSx250 Principles of Marketing]
- Finance
  [BUSx350 Principles of Finance, BUSx350 Principles of Finance]
- Organizational Behavior
  [BUS 311 Organizational Behavior, BUSx315 Organizational Behavior]
- Global Business
  [BUS 435 International Business]
- Integrated Business and Management Assessment Capstone
  [BUS 490 Integrated Business and Management Assessment]

Professional Component Electives
Any business/management-related credits outside the core are applied as professional component electives. Business/management credits in excess of the professional component maximum of 45 may be applied to the additional credit component.

Elective Credit Component
(45 credits, including 6 upper-level)
Although you may have already fulfilled the minimum credit requirements in the arts and sciences and professional components of your degree, you may still need to earn additional credit to fulfill the total credit requirement of the Bachelor of Professional Studies. To do this, you may apply any of the following: arts and sciences credit above the minimum required, professional component credit (business/management) above the minimum required, or free elective credit.

Free elective credit may be earned in any field of collegiate study, including business and other professional, technical, or career areas as well as the arts and sciences. Examples include military science, health, nursing, engineering, education, computer science, home economics, secretarial science, architecture, drafting, auto mechanics, law, social work, and criminal justice. A maximum of 2 credits for physical education activity courses may be applied.

Information Literacy Requirement
Students are expected to demonstrate competency in information literacy. See page 8 for more information about the information literacy requirement. The information literacy requirement is applied to the additional credit component.
BACHELOR OF PROFESSIONAL STUDIES IN TECHNOLOGY MANAGEMENT

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 41 for an overview of general education and distribution requirements for all bachelor’s degree programs.

DEGREE-SPECIFIC REQUIREMENTS

BUS 323 Business Ethics
College Algebra or Statistics

PROFESSIONAL CORE

BUS 341 Management Concepts and Applications
BUS 452 Business Leadership
ACC 211 Financial Accounting
IT 221 Introductions to Computers
IT 390 Project Management

TECHNOLOGY MANAGEMENT CORE

TECH 230 Technology and Society
TECH 330 Economic Analysis for Technologists
TECH 340 Intro to Energy Utilization

Professional Component Electives

At least Fifteen credits in Electives must be in one of the following areas: Electrical Technology, Information Technology, Nuclear Technology, or Renewable Energy Technology

TECH 490 Technology Management Capstone: Integrated Technology Assessment
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 41. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Professional Studies in Technology Management is a flexible career-oriented program developed for students who want to build upon their knowledge and earn a bachelor’s degree within their technical field. The program puts special emphasis on developing the knowledge, skills, attitudes, and values required for a technical person to meet the demands of a 21st-century workforce. To do this, the program has identified 10 different outcomes, that provide students with a broad professional foundation in the various functional components of technology and management, as well as with a strong liberal base to ensure students have academic breadth and the commitment to lifelong learning needed to adapt to and succeed in an ever-changing world. Additionally, the program has identified four technical concentrations that provide students with a broad professional and technical foundation in the various functional components of technology. The concentrations are a group of related college-level courses within a technical component that combine depth and breadth of study in a recognized math/science-based technology discipline. The goal of the degree program in specific concentrations is to foster the ability of students to apply what they have learned within the degree program to the real-world contexts of a technology-based industry.

Of the total 120 credits for the Bachelor of Professional Studies in Technology Management, 30 must be earned at the upper level, 9 in the arts and sciences, 15 in the technology component and 6 in electives.

The four concentrations are: Electrical Technology, Information Technology, Nuclear Technology, and Renewable Energy Technology.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple, flexible pathways—offering course-based, prior learning assessment, and credit aggregation pathways to degree completion. In this way, the program is customizable and tailored to each student’s need and learning style. The Bachelor of Professional Studies in Technology Management is an option for students who seek to apply credit for military and other training toward a bachelor degree.

Program (Student) Outcomes

The outcomes are geared toward providing students with a foundational knowledge of professional studies in technology management and the discipline of effective decision making in the technology industry.

Upon successful completion of the degree program, students will be able to:

1. Apply knowledge of mathematics and natural sciences to problem-solving in technology management contexts.
2. Develop cohesive written and oral arguments in your technical concentration using appropriate supporting evidence.
3. Critically evaluate and propose solutions for technology management problems.
4. Critically evaluate the ethical, legal, and social implications associated with the management of technology in your concentration field.
5. Participate effectively in diverse teams to address technical issues in your technology concentration.
6. Apply project management tools and techniques to plan, manage, and close a project in the applicable technology field.
7. Apply computer applications or computer software packages to solve technical problems in your technical concentration.
8. Apply technological and management concepts in an integrated manner using both a local and global perspective.
9. Employ critical thinking skills to interpret and analyze competing arguments and multiple perspectives in a technology environment.
10. Evaluate your individual strengths and weaknesses with the desire to update skills and continuously improve.
Degree Requirements

The Excelsior College Bachelor of Professional Studies in Technology Management program requires a total of 120 credits and comprises three major components — arts and sciences, professional, and additional credit. The three components and their respective requirements are explained in the following sections.

- **30 credits** minimum required in the arts and sciences
- **45 credits** minimum required in the professional component
- **45 credits** required in the additional credit component (to include information literacy)

Arts and Sciences Component
(30 credits, including 9 upper-level)

Excess credits in arts and science may be applied toward the additional credit component as electives.

A. Written English Requirement
At least 6 credits must come from courses or exams that satisfy the written English requirement (see page 7) [ENGx111 English Composition, ENG 101 English Composition, ENG 102 English Composition II, ENG 201 Writing for the Professions, TECH 200 Technical Writing].

B. Humanities
You must successfully complete at least 9 credits in the humanities, including ethics [BUS 323 Business Ethics, BUSx310 Ethics: Theory and Practice]. Ethics must be completed with a grade of C or better.

Humanities subjects include, but are not limited to, art, music, literature, foreign language, philosophy, religion, speech, creative writing, and advanced writing. Examinations or courses used to satisfy the written English requirement may not be applied toward the humanities requirement.

C. Social Sciences/History
You must successfully complete a minimum of 6 credits in social sciences/history. Social sciences and history subjects include, but are not limited to, anthropology, sociology, government, political science, psychology, geography, history, and economics.

D. Natural Sciences/Mathematics
You must successfully complete a minimum of 6 credits in mathematics to include a 3-credit course in college algebra [MAT 116 Precalculus Algebra] or Statistics [BUS 233 Business Statistics].

You must successfully complete a minimum of 3 credits in natural sciences [BIO 110 Biology (Non-Lab), GEOL 108 Earth Science and Society, GEOL 114 Introduction to Oceanography, PHYS 201–203 Physics I–II]. Natural sciences subjects include, but are not limited to, astronomy, geology, oceanography, anatomy and physiology, microbiology, chemistry, biology, genetics, zoology, and physics. Mathematics courses include intermediate algebra, precalculus, calculus, etc. Only three college-level math courses below the level of calculus may be applied to degree requirements.

Professional Component
(45 credits, including 15 upper-level)

The professional component includes a professional core that helps you gain basic knowledge in business administration and the underlying discipline of decision making, and a technology management core and professional component electives that allow you to apply and synthesize your technical knowledge in one of four concentration areas — electrical technology, information technology, nuclear technology, and renewable energy technology.

A minimum of 15 credits is required in the concentration areas.
At least 15 credits at the upper (junior/senior) level must be completed in the professional component; 9 of these upper-level credits must be in the technology management core and/or professional component electives. Credits may be earned through Excelsior College courses and examinations and other approved sources, as well as approved military, business, and industry training. A grade of C or better is required for applicable credit.

Professional Core Requirements
One course required in each professional core area below.

1. General Management
   [BUS 341 Management Concepts and Applications]
2. Leadership
   [BUS 452 Business Leadership]
3. Accounting
   [ACC 211 Financial Accounting]
4. Computer Applications
   [IT 221 Introduction to Computers]
5. Project Management
   [IT 390 Project Management]

Technology Management Core Requirements
(9 upper-level credits must be in Technology Management Core or Professional Electives)
One 3-credit course required in each technology management core area below.

1. Technology and Society
   [TECH 230 Technology and Society]
2. Engineering Economics
   [TECH 330 Economic Analysis for Technologists]
3. Introduction to Energy Utilization
   [TECH 340 Intro to Energy Utilization]
4. Integrated Technology Assessment (capstone)
   [TECH 490 Technology Management Capstone: Integrated Technology Assessment]—the capstone course is required and must be taken through Excelsior College and cannot be transferred in.

Concentration Areas
- Electrical Technology
- Information Technology
- Nuclear Technology
- Renewable Energy Technology

Students must select a concentration area in one of four areas: electrical technology, information technology, nuclear technology and renewable energy technology. A minimum of 15 credits must be earned in the concentration area.

Concentrations

**ELECTRICAL TECHNOLOGY**

A concentration in electrical technology focuses on training and preparing students with the knowledge and practical skills in electrical technology along with electrical circuits, electrical systems, and electrical equipment. It is centered on design, assembly, testing, maintenance, repairing, and upgrading of electrical circuits, components, and equipment. The electrical technology outcomes are geared toward providing students with fundamental as well as applied knowledge in electrical systems, electrical equipment, and processes. These will prepare the students for positions in operating, repairing, and upgrading electrical circuits, electrical systems, and electrical equipment. Upon successful completion of the Excelsior College Bachelor of Professional Studies with an Electrical Technology concentration, the student will be able to:

1. Identify, formulate, and present solutions to a variety of technical problems in the area of electrical technology.
2. Demonstrate competency in the analysis, interpretation, and application of data in the area of electrical technology.

continued on next page
INFORMATION TECHNOLOGY
A concentration in information technology focuses on training and preparing students to stay up-to-date with the rapidly changing technical environment. The information technology concentration is a technical discipline centered on the design, assembly, testing, and maintenance of computer circuitry and peripheral hardware. The concentration also emphasizes the information system concepts, principles, and practices, and problem solving of information technology domains. The information technology outcomes are geared toward providing students with a foundational knowledge of information technology in a wide variety of subject areas and preparing students for positions including information technicians, database management systems, software management, data communications, information security, and network management. Upon successful completion of the Excelsior College Bachelor of Professional Studies with an Information Technology concentration, the student will be able to:

1. Analyze and apply a range of information system concepts, principles, and practices in the context of solving problems across a spectrum of information technology domains.
2. Develop computer-based applications using appropriate information technology concepts and principles.

NUCLEAR TECHNOLOGY
A concentration in nuclear technology focuses on preparing students for technical background in the nuclear industry. The nuclear technology concentration is a technical discipline centered on the design, materials, operations, and maintenance associated with radiation shielding, radiation detection instrumentation, and emergency planning for nuclear research and power generation facilities. The nuclear technology concentration is geared toward providing students with a foundational knowledge of nuclear technology for positions at nuclear facilities. Upon completion of the Excelsior College Bachelor of Professional Studies with a Nuclear Technology concentration, the student will be able to:

1. Demonstrate a proficiency in the operation and maintenance of nuclear processes and systems.
2. Demonstrate a proficiency in the applicable rules, regulations, and procedures pertaining to radiological safety and radiation protection.
3. Identify the key principles in the proper operation, testing, and troubleshooting of turbines, electric generators, pumps, and other auxiliary plant equipment.

RENEWABLE ENERGY TECHNOLOGY
A concentration in renewable energy technology focuses on training and preparing students to stay current with the renewable energy industry. The renewable energy technology concentration is a technical discipline centered on renewable energies such as solar, wind, water, and geothermal. The concentration also emphasizes the political and economic influences on the renewable energy business. The renewable energy technology outcomes are geared toward providing students with a foundational knowledge of renewable energy in a wide variety of subject areas and preparing students for positions in the renewable energy industry including an understanding of economics and politics associated with renewable energy. Upon successful completion of the Excelsior College Bachelor of Professional Studies with a Renewable Energy Technology concentration, the student will be able to:

1. Identify and discuss renewable energy technologies being used commercially and residentially.
2. Perform an analysis of political and economic influences on the renewable energy business.
Professional Component Electives
Any technology-related credits outside the core are applied as professional component electives.

Technology management credits in excess of the professional component maximum of 45 may be applied to the additional credit component.

Additional Credit Component
(45 credits, including 6 upper-level)
Although you may have already fulfilled the minimum credit requirements in the arts and sciences and professional components of your degree, you may still need to earn additional credit to fulfill the total credit requirement of your Bachelor of Professional Studies in Technology Management. To do this, you may apply any of the following: arts and sciences credit above the minimum required, professional component credit (technology/management) above the minimum required, or free elective credit.

Free elective credit may be earned in any field of collegiate study, including business and other professional, technical, or vocational areas as well as the arts and sciences. Examples include military science, health, nursing, engineering, education, computer science, home economics, secretarial science, architecture, drafting, auto mechanics, law, social work, and criminal justice. A maximum of 2 credits for physical education activity courses may be applied.

Information Literacy Requirement (1 credit)
Students are expected to demonstrate competency in information literacy [INL 102 Information Literacy]. See page 8 for more information about this requirement. The information literacy requirement is applied to the additional credit component.
# BACHELOR OF SCIENCE IN BUSINESS

## GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

## DEGREE-SPECIFIC REQUIREMENTS (At least 21 upper level business credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 323 Business Ethics</td>
<td>BUS 230 Business Law</td>
</tr>
<tr>
<td>ECO 260 Introduction to Microeconomics</td>
<td>IT 221 Introduction to Computers</td>
</tr>
<tr>
<td>ECO 262 Introduction to Macroeconomics</td>
<td>BUS 222 Business Communication</td>
</tr>
<tr>
<td>Precalculus or Above</td>
<td>BUS 341 Management Concepts and Applications</td>
</tr>
<tr>
<td>BUS 233 Business Statistics</td>
<td>BUS 351 Marketing Concepts and Applications</td>
</tr>
<tr>
<td>BUS 311 Organizational Behavior</td>
<td>BUS 350 Principles of Finance</td>
</tr>
<tr>
<td>BUS 430 Quantitative Methods</td>
<td>BUS 435 International Business</td>
</tr>
<tr>
<td>ACC 211 Financial Accounting</td>
<td>Business Electives</td>
</tr>
<tr>
<td>ACC 212 Managerial Accounting</td>
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</tbody>
</table>

## CONCENTRATION OPTIONS
Accounting, Finance, General Business, Logistics Management, Management of Human Resources, or Marketing (at least 9 upper level credits)

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 499 Strategic Management Capstone</td>
</tr>
</tbody>
</table>

The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Business is a competency-based degree program focused on preparing students to become business managers and leaders. The program puts special emphasis on developing the knowledge, professional skills, attitudes, and values required for a business person to meet the demands of a 21st-century workforce. To do this, the program emphasizes 15 competency areas that provide students with a broad professional foundation in the functional components of business, as well as with a strong liberal arts base to ensure students have academic breadth and the commitment to lifelong learning needed to adapt to and succeed in an ever-changing world. The integration of all 15 competency areas allows students to apply what they have learned within the degree program to the real-world contexts of the business world.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple flexible pathways—online courses, credit by exam, and credit aggregation. These avenues can be used in the combination best suited to the preferences of the student. The course option provides a pathway for students who desire a structured, instructor-led classroom experience. The exam experience provides students with an independent study option, where grades are solely determined by their performance on an exam. Study for the exams is supported by free open educational resources. Finally, students have the opportunity to earn credits elsewhere and transfer them into the degree program to satisfy requirements. Each of these pathways allow students to customize and tailor the program to their own needs and learning styles.

Of the total 120 credits for the Bachelor of Science in Business, 21 upper level credits must be earned in Business.

Specialized Accreditation/Recognition: The Bachelor of Science in Business is accredited by the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215.

Program Competencies

The competencies provide students with a foundational knowledge of business administration and strategic management. Upon completion of the degree program, students will be able to achieve the following in these competency areas:

1. Economics
   Apply micro and macroeconomic concepts and theories to explain the relationship between legal, social, and economic interests of individuals and society.

2. Accounting
   Apply basic accounting concepts and principles to the analysis and interpretation of corporate financial statements.

3. Marketing
   Explain how modern marketing concepts and theories support and influence business strategies.

4. Finance
   Utilize financial management concepts and tools to make informed business decisions.

5. Management
   Apply the major concepts and theories of management and leadership in order to develop business strategies in a real-world context.

6. Quantitative Analysis
   Utilize quantitative research, statistics, and data analysis to analyze business data, support business decisions, and solve problems.

7. Global
   Analyze the opportunities and risks associated with doing business in a global environment.

8. Ethics
   Justify decisions by evaluating the social, ethical, and legal implications for business organizations.

9. Communication
   Effectively communicate business concepts orally and in writing to multiple audiences.

continued on next page
10. Computer Skills
Utilize business computer applications and information technologies to organize and interpret business data and information.

11. Teamwork/Cultural Diversity
Work effectively and collaboratively on diverse teams to complete projects based on real-world scenarios.

12. Critical Thinking
Employ critical thinking skills to interpret and analyze competing arguments and perspectives in a business environment.

13. Leadership
Organize tasks and understand how to delegate responsibility in order to complete collaborative projects in a timely manner.

14. Lifelong Learning
Evaluate their individual strengths and weaknesses with the desire to update skills and continually improve.

15. Business Strategy
Apply knowledge of business concepts and functions in an integrated manner to make strategic decisions in a real-world context.

Degree Requirements
The Bachelor of Science in Business (with concentration) requires a minimum of 120 credits, distributed as follows:

- 60 credits minimum in the arts and sciences
- 51 credits minimum in the business component
- 9 credits in the elective credit component

Arts and Sciences Component (60 credits)
Arts and sciences are those areas of study classified as humanities, social sciences/history, and natural sciences and mathematics. Excelsior College business degrees require a minimum number of credits in humanities and social sciences/history as part of the arts and sciences component:

- 6-credit written English requirement
- 9 credits in humanities (must include Ethics). Ethics must be completed with a grade of C or better.
- 15 credits in social sciences/history (must include microeconomics and macroeconomics)
- 9 credits in natural sciences and mathematics to include a math course at the level of precalculus or above, statistics, and a course in natural sciences
- up to 21 credits in any arts and sciences area (must include Organizational Behavior and Quantitative Analysis)

Excess credits in arts and science or in the business component may be applied toward electives.

Humanities
You must successfully complete at least 9 credits in the humanities.

A. A minimum of 3 credits must be earned in Business Ethics with a minimum grade of C [BUS 323 Business Ethics, BUSx323 Business Ethics].

B. A minimum of 6 credits must be earned in other humanities subjects such as art, literature, philosophy, religion, theatre, speech, and foreign languages.

Humanities subjects include, but are not limited to, art, music, literature, foreign language, philosophy, religion, speech, and creative/advanced writing.

Examinations or courses used to satisfy the written English requirement may not be applied toward the humanities requirement.

Social Sciences/History
You must successfully complete a minimum of 15 credits in the social sciences/history and must include microeconomics and macroeconomics.

Social sciences/history subjects include, but are not limited to, anthropology, sociology, government, political science, psychology, geography, history, and economics.
Natural Sciences and Mathematics
You must successfully complete a minimum of 9 credits in natural sciences and mathematics comprising a 3-credit course in precalculus (or higher math), a 3-credit course in statistics, and a 3-credit course in a natural science.

Natural sciences and mathematics subjects include, but are not limited to, anatomy and physiology, microbiology, chemistry, biology, genetics, zoology, physics, precalculus, calculus, astronomy, geology, and oceanography.

Only three college-level math courses below the level of calculus may be applied to degree requirements.

Arts and Sciences Core Requirements
You must earn a minimum grade of C in each of the following arts and sciences core requirements:

A. Written English Requirement: At least 6 credits must be taken to satisfy the written English requirement (see page 7).

B. Ethics: Study of ethics theory, personal values, and the impacts of organizational culture. An understanding of how ethical principles relate to the organizations in which people function, and the effects of the organization’s ethics on its reputation, functioning, and performance.

The ethics requirement may be satisfied with credits from ethics-related courses [BUS 323 Business Ethics, BUSx323 Business Ethics, BUSx310 Ethics Theory & Practice].

C. Microeconomics: Elementary analysis of economic theory as it relates to the individual consumer and individual firm. Topics covered include supply and demand, consumption and revenue, production and cost, and analysis of output and input markets.

The microeconomics requirement may be satisfied with credits from coursework in any of the following subjects:

- introductory microeconomics, principles of economics [micro], managerial economics [ECO 260 Introduction to Microeconomics, ECOx260 Introduction to Microeconomics].

D. Macroeconomics: Study of concepts and methods of economic analysis as well as gross national product, unemployment, money, and theory of national income. The macroeconomics requirement may be satisfied with credits from coursework in any of the following subjects: introductory macroeconomics, principles of economics [macro] [ECO 262 Introduction to Macroeconomics, ECOx262 Introduction to Macroeconomics].

E. Mathematics (at the level of precalculus or higher): Study of exponents, logarithms, polynomial equations, solution of linear and quadratic equations in more than one unknown, determinants, matrices, permutations and combinations, mathematical induction, binomial theorem, probability, arithmetic, and geometric progressions.

This course typically precedes calculus in a college math sequence. Elementary or intermediate algebra courses will not apply to the mathematics requirement.

The mathematics requirement may be satisfied with credits from coursework in any of the following subjects: college algebra, precalculus [MAT 116 Precalculus Algebra, MATx116 Precalculus Algebra].

F. Statistics: Introduction to the basic concepts of probability and statistics, sample statistics, discrete and continuous probability distributions, confidence intervals, estimation, and regression.

The statistics requirement may be satisfied with credits from coursework in any of the following subjects: business statistics, economic statistics, elementary statistics, introductory statistics, statistics for the social sciences, any statistics
course that covers descriptive and inferential statistics [BUS 233 Business Statistics, MATx210 Statistics].

G. Organizational Behavior: An overview of human behavior in work organizations. It examines theoretical, empirical, and applications issues from individual, interpersonal, group, and organizational perspectives. Topics include the overview and history of the field, perceptions, attitudes, learning processes, personality, motivation, stress, performance appraisal, group dynamics, leadership, communication, decision making, job design, organizational structure and design, organizational change, and development [BUS 311 Organizational Behavior, BUSx315 Organizational Behavior].

H. Quantitative Analysis: Quantitative methods and techniques for decision support in a management environment, including applications of the computer. It will include formal project management tools and techniques, such as Gantt charts, Program Evaluation and Review Techniques (PERT) and Critical Path Method (CPM) charts, use of time series analysis for forecasting, applications of regression analysis in management, and aspects of decision theory and simple modeling. Several components include the use of computer software [BUS 430 Quantitative Methods, BUSx437 Quantitative Analysis].

Business Component (51 credits)
(21 credits at the upper level, 9 of which must be in the concentration)

The business component includes a core requirement that helps you gain basic knowledge in business administration and the underlying discipline of decision making. Many of the required core courses are offered by community colleges, while some may be available only at four-year institutions.

Credit in the business component of your degree is earned from core courses, both lower-level and upper-level business elective courses, and concentration subjects. A grade of C or better is required for applicable credit.

All credit you apply to the business component of your degree must have been earned fewer than 15 years prior to your enrollment date.

Business Component Core Requirements

The following business subjects comprise the core requirements for the degree program. Refer to the course description section of the catalog beginning on page 169 to locate courses that meet the appropriate subject area. In general, a course or exam worth 3 credits will satisfy each core requirement.

A. Financial Accounting: Financial accounting subjects include, but are not limited to, fundamentals of accounting I, principles of accounting I [ACC 211 Financial Accounting, ACCx211 Financial Accounting].

B. Managerial Accounting: Managerial accounting subjects include, but are not limited to, fundamentals of accounting II, introductory managerial accounting, principles of accounting II [ACC 212 Managerial Accounting, ACCx212 Managerial Accounting].

C. Introduction to Business Law (United States business law): Subjects that may be used to satisfy this business component core requirement include, but are not limited to, business law I or II, commercial law I or II, legal environment of business [BUS 230 Business Law, BUSx230 Business Law].

D. Computers: Subjects that may be used to satisfy this business component core requirement include, but are not limited to, computer programming, computer science, data processing, and introduction to management/computer information systems. Word processing credit alone will not satisfy this requirement [IT 221 Introduction to Computers, BUSx221 Business Information Systems].
There are many Excelsior College courses that will apply to the computer requirement. Please refer to our website or contact your advising team for more information. A maximum of 9 credits in Computer courses to include the Computer core requirement, maybe applied to the Business Component of all Baccalaureate Business degrees (with the exception of the Bachelor of Science in Business with a Management Information Systems).

E. Business Communication: Business communications subjects should provide students with knowledge and skills to effectively communicate (oral and written) in global, diverse business environments by using computer technologies and social media tools [BUS 222 Business Communication, BUSx220 Workplace Communication with Computers].

F. Principles of Management: Subjects that may be used to satisfy this component include, but are not limited to, introduction to management, management concepts [BUSx240 Principles of Management, BUS 341 Management Concepts and Applications].

G. Principles of Marketing: Subjects that may be used to satisfy this business component core requirement include, but are not limited to, introduction to marketing, marketing concepts, marketing principles [BUSx250 Principles of Marketing, BUS 351 Marketing Concepts and Application].

H. Financial Management: Subjects that may be used to satisfy this business component core requirement include, but are not limited to, business finance, corporation finance, principles of finance [BUS 350 Principles of Finance, BUSx350 Principles of Finance].

Courses in personal finance will not satisfy this requirement.

I. International Business: Subjects that may be used to satisfy this business component core requirement include, but are not limited to, global business, international business [BUS 435 International Business].

J. Strategic Management (Capstone): [BUS 499 Strategic Management (Capstone)]

The capstone course is required and must be taken through Excelsior College and cannot be transferred in.

Identifying Applicable Business Elective Courses

To see what types of courses you may find applicable as business electives, you may wish to review the course titles listed for specific business concentrations on the following pages. Courses that are either required or suggested for concentrations are considered business electives for students pursuing a Bachelor of Science in Business with a concentration in General Business.

Upper-Level Credit Requirements

All students in the Bachelor of Science in Business (with concentration) must earn a minimum of 21 upper-level business credits. If you are pursuing a business degree with a general business concentration, you may apply the upper-level credit in any approved business area. If you choose any other concentration, at least 9 of the 21 required credits of upper-level credit must be in your area of concentration.

In addition to college course credit, you may earn upper-level credit by passing examinations classified by the Excelsior College business faculty as upper level as well as by successfully completing courses or examinations evaluated by the American Council on Education (ACE) College Credit Recommendation Service of the Center for Lifelong Learning or the New York State Board of Regents National College Credit Recommendation Service (formerly known as National PONSI) and accepted
by the Excelsior College business faculty as upper level.

Some credit recommended as upper-level by ACE may not apply as upper-level credit toward your business degree.

The Excelsior College business faculty will not classify the following as upper-level business electives, even if such courses are numbered at the junior/senior level:

- Business Writing
- Consumer Finance
- Personal Finance

Other faculty and College policies may also affect the classification of upper-level credit. There are many Excelsior College courses that will apply as upper-level credit in the business degrees. See our website for a list of current course offerings.

Elective Credit Component (9 credits)

Although you may have already fulfilled the minimum credit requirements in the arts and sciences and business components of your chosen degree, you may still need to earn additional credit to fulfill the total credit requirement of your bachelor's degree. To do this, you may apply any of the following: arts and sciences credit above the minimum required, business credit above the minimum required, or free elective credit.

Free elective credit may be earned in any field of collegiate study, including business and other professional, technical, or vocational areas as well as the arts and sciences. Examples include military science, health, nursing, engineering, education, computer science, home economics, secretarial science, architecture, drafting, auto mechanics, law, social work, and criminal justice. A maximum of 2 credits for physical education activity courses may be applied.

Information Literacy Requirement

Students are expected to demonstrate competency in information literacy. See page 8 for more information about the information literacy requirement.

Concentrations

In addition to other business component requirements, you must also satisfy requirements specific to your chosen concentration. The baccalaureate degree program in business offers the following concentrations:

- Finance
- General Accounting
- General Business
- Logistics Management
- Management of Human Resources
- Marketing

FINANCE

The finance degree curriculum is designed to help you develop a working understanding of financial decision-making processes. It also offers insight into how financial markets function. The finance concentration provides part of the necessary education for students seeking careers in business, industry, financial institutions, government, or not-for-profit organizations in positions such as financial analyst, cost engineer, securities analyst, or commercial or investment banking officer.

Concentration Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Business with a Finance concentration, the graduate will be able to:

1. Describe managerial functions within global financial markets and banking institutions.
2. Integrate effective strategies for improving the financial management of domestic and foreign corporations.
3. Evaluate organizational financial risks through securities and portfolio analysis.
Subject Requirements for the Finance Concentration

A. Required Subjects
   - Advanced Financial Management (sometimes called Advanced Corporate Finance) [BUS 415 Advanced Financial Management]
   - Financial Markets and Institutions (or Money and Banking) [BUS 235 Financial Markets & Institutions]
   - Securities Analysis (or Portfolio Management) [BUS 437 Security Analysis & Investments]

B. Additional credit in the concentration may be earned from courses such as commercial banking management, international finance, management of financial institutions, real estate, risk and insurance, and other related courses (with approval) [BUS 317 International Finance, BUS 305 Principles of Insurance, BUS 438 Risk Control, BUS 302 Risk Management Concepts & Applications].

GENERAL ACCOUNTING

Accounting is a changing profession that demands concern for both theory and practice. Accountants must work with people while simultaneously maintaining awareness of the human, social, legal, and environmental factors vital to the operation of an organization. There are two major types of accounting: managerial accounting and public accounting.

Managerial accountants work with people at all levels of management to develop, monitor, and review a firm’s information and financial systems in order to help plan and control business activities. Career opportunities include controllership and corporate or managerial accounting as well as public accounting, internal auditing, and consulting. Public accountants work independently or with auditing firms to establish the credibility of financial reports. They often specialize in tax and other financial matters.

Concentration Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Business with a General Accounting concentration, the graduate will be able to:

1. Describe Generally Accepted Accounting Principles (GAAP), concepts, and theories.
2. Integrate accounting decision-making tools for evaluating financial statements, conducting audits, and performing cost accounting.
3. Evaluate individual and corporate taxation policies, regulations, and practices of business organizations.

Subject Requirements for the General Accounting Concentration

A. Required Subjects
   - Intermediate Accounting I [ACC 314 Intermediate Accounting I]
   - Intermediate Accounting II [ACC 315 Intermediate Accounting II]
   - Cost Accounting [ACC 360 Cost Accounting]
   - Taxation (United States tax) [ACC 417 Individual & Corporate Taxation]

B. Additional credit in the concentration may be earned from courses such as advanced accounting, auditing, fund accounting, international accounting, and other related courses with approval [ACC 370 Accounting Theory, ACC 400 Auditing].

continued on next page
GENERAL BUSINESS
Earning the credit required for this concentration helps you create a strong foundation on which to build a career. The Bachelor of Science curriculum is designed to give you an overview of the entire business world. By gaining the knowledge and skills associated with this level of learning, you should acquire the background necessary for a variety of nonspecialist employment opportunities. You may find this option of particular interest if you are considering a career in small business, graduate study in business, or law school following graduation. If Excelsior College does not offer a business concentration in your field of interest, you may choose to demonstrate your preparation in the field by enrolling in the general business option and applying a block of credit in a particular business-related field as electives.

LOGISTICS MANAGEMENT
The concentration in Logistics Management focuses on the flow of material and goods throughout the manufacturing and delivery process. Logistics management is a fundamental piece of the global supply chain, which includes procurement, manufacturing, warehousing, distribution, retailing, transportation, and technical services. Employment opportunities include production planning, inventory management, manufacturing management, global distribution, and logistics management—employment in any organization whose success depends on the global fulfillment of customers’ requirements.

This concentration prepares the learner for understanding the complex strategic and analytic process of procuring, inventory control, managing, coordinating, maintaining, transporting, and distributing both goods and services. Emphasis is placed on the practical application of supply chain & project management concepts, risk management, quality control, warehousing, and distribution.

Concentration Outcomes
Upon successful completion of the Excelsior College Bachelor of Science in Business with a Logistics concentration, the graduate will be able to:

1. Integrate multidimensional methods to solve inventory control, facilities planning, warehousing, and distribution problems.
2. Analyze logistics, supply chain, and project management operations.
3. Prioritize cost reduction, risk, and maximized profits for logistics operations.

Subject Requirements for the Logistics Management Concentration

A. Required Subjects:
   - Supply Chain Management [BUS 440 Business Supply Chain Management]
   - Lean Logistics [BUS 443 Lean Logistics]
   - Transportation, Warehousing, and Distribution [BUS 381 Transportation, Warehousing, and Distribution]

B. Additional credits in the concentration can be earned from courses such as operations management, purchasing, inventory management, quantitative methods, project management, and other related courses (with approval):
   - Purchasing [BUS 441 Procurement and Purchasing]
   - Inventory Management [BUS 442 Inventory Management]
   - Operations Management [BUS 425 Operations Management]
   - Quality Control [BUS 360 Product, Planning, Process, and Quality Control]
   - Project Management [IT 390 Project Management]
MANAGEMENT OF HUMAN RESOURCES

The curriculum in management of human resources emphasizes the management of individuals and groups in business firms, government agencies, and other organizations. Managers must be competent leaders. They coordinate work and human systems so that employees are motivated. Managers must create an environment conducive to accomplishing the objectives of both the employees and the organization. Employment opportunities in the field include general management, human resource management, labor or industrial relations, and personnel administration.

Concentration Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Business with a Management of Human Resources concentration, the graduate will be able to:

1. Describe the role and context of human resource management.
2. Integrate personnel management and research to real business scenarios.
3. Evaluate human resources management and strategies to achieve organizational goals.

Subject Requirements for the Management of Human Resources Concentration

A. Required Subjects
   - Managing Human Resources
     [BUS 312 Managing Human Resources]
   - Managing Diversity
     [BUS 380 Managing Diversity in the Workplace]

B. Additional 9 credits in the concentration can be earned from courses such as leadership, recruitment, human resource technology, employee law, international human resources management, and other related courses (with approval). Below are examples of course options available to students:

- [BUS 313 International Human Resource Management]
- [BUS 314 Employee Law]
- [BUS 315 Labor Relations]
- [BUS 325 Women in Business]
- [BUS 452 Business Leadership]
- [BUS 453 Recruitment and Selection]
- [BUS 454 Human Resource Technology]

MARKETING

Marketing is about how businesses interact with consumers and the processes by which they anticipate, analyze, and meet their needs. It is both a philosophy of doing business and a management activity that puts the customer at the heart of the organization. Whether it is the personal branding of an international celebrity, like Beyoncé, the promotion of a vacation destination, like Disneyland Paris, or the advertising of a global fast food brand, like McDonald’s. Marketers both develop and apply a range of techniques—communications, creative, or technological—which will prepare marketing managers to work at both the tactical and strategic levels within organizations and across a range of global industries.

Concentration Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Business with a Marketing concentration, the graduate will be able to:

1. Describe marketing activities and strategies that are used to shift products and services from vendors to consumers in the retail and wholesale markets.
2. Integrate marketing research to forecast trends of products and services to analyze the international and domestic markets.
3. Evaluate consumer behavior and promotional policy and determine any ethical implications.
Subject Requirements for the
Marketing Concentration

A. Required Subjects
   ▶ Consumer Behavior
      [BUS 225 Consumer Behavior]
   ▶ Marketing Management
      (sometimes called Product Planning)
      [BUS 375 Marketing Management]
   ▶ Market Research
      [BUS 460 Marketing Research]

B. Additional credit in the concentration may be earned from courses such as advertising (or promotional policy), distribution channels management, international marketing, retail/wholesale management, sales management, and other related courses (with approval).
   [BUS 310 Entrepreneurial Marketing, BUS 343 International Marketing].
BACHELOR OF SCIENCE IN BUSINESS TO MASTER OF BUSINESS ADMINISTRATION DUAL DEGREE TRACK

150 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS
| Ethics                          | ACC 212 Managerial Accounting |
| ECO 262 Introduction to Macroeconomics | BUS 230 Business Law          |
| ECO 260 Introduction to Microeconomics   | IT 221 Introduction to Computers |
| BUS 311 Organizational Behavior          | BUS 222 Business Communication |
| Precalculus or Above                    | BUS 341 Management Concepts and Applications |
| BUS 233 Business Statistics             | BUS 350 Principles of Finance  |
| BUS 431 Business Data Analysis          | ECON 360 International Economics |
| ACC 211 Business Accounting             | BUS 435 International Business |

Undergraduate Level Business Component (Choose 21 credits, 9 upper level)

BUS 499 Strategic Management Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

BRIDGE REQUIREMENTS
BUS 502 Global Business Environment
BUS 570 Information Technology

GRADUATE REQUIREMENTS

GRADUATE BUSINESS REQUIREMENTS
- BUS 500 Accounting for Managers
- BUS 505 Finance
- BUS 506 Marketing
- BUS 520 Operations Management
- BUS 530 Project Management Principles and Application
- BUS 552 Leadership

GRADUATE ELECTIVES OR OPTIONAL CONCENTRATION
Choose one of the following concentrations: Accounting, Health Care Management, Human Resource Management, Leadership, or No concentration

BUS 511 Strategy and Policy Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.
Program Description

The Bachelor of Science in Business to Master of Business Administration dual degree track requires a total of 150 credits, consisting of 60 credits in the arts and sciences component, 45 credits in the business component, 9 credits in the elective credit component, and 36 credits in the graduate component.

Twenty-one upper level credits must be earned in Business, to include 3 in Economics, 3 in Organizational Behavior and 3 in Quantitative Methods.

Specialized Accreditation/Recognition: The Bachelor of Science in Business and the Master of Business Administration are accredited by the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215.

Program Educational Objectives

As an Excelsior College bachelor’s-level business graduate, within a few years of graduation, you are expected to:

1. Apply discipline-specific concepts and methodologies to identify, analyze, and solve business problems.
2. Demonstrate a desire and commitment to remain current with and adaptive to changing business conditions through continuous learning and self-improvement.
3. Demonstrate independent and critical thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional business environment.
4. Communicate effectively, orally and in writing, in a professional business environment.
5. Behave ethically and professionally in business and society.
6. Demonstrate and utilize leadership principles in one’s chosen career field.

Program Competencies

The competencies provide students with a foundational knowledge of business administration and strategic management. Upon completion of the degree program, students will be able to achieve the following in these competency areas:

1. Economics: Apply micro and macroeconomic concepts and theories to explain the relationship between legal, social, and economic interests of individuals and society.
2. Accounting: Apply basic accounting concepts and principles to the analysis and interpretation of corporate financial statements.
4. Finance: Utilize financial management concepts and tools to make informed business decisions.
5. Management: Apply the major concepts and theories of management and leadership in order to develop business strategies in a real-world context.
6. Quantitative Analysis: Utilize quantitative research, statistics, and data analysis to analyze business data, support business decisions, and solve problems.
7. Global: Analyze the opportunities and risks associated with doing business in a global environment.
8. Ethics: Justify decisions by evaluating the social, ethical, and legal implications for business organizations.
9. Communication: Effectively communicate business concepts orally and in writing to multiple audiences.
10. Computer Skills: Utilize business computer applications and information
technologies to organize and interpret business data and information.

11. **Teamwork/Cultural Diversity:** Work effectively and collaboratively on diverse teams to complete projects based on real-world scenarios.

12. **Critical Thinking:** Employ critical thinking skills to interpret and analyze competing arguments and perspectives in a business environment.

13. **Leadership:** Organize tasks and understand how to delegate responsibility in order to complete collaborative projects in a timely manner.

14. **Lifelong Learning:** Evaluate their individual strengths and weaknesses with the desire to update skills and continually improve.

15. **Business Strategy:** Apply knowledge of business concepts and functions in an integrated manner to make strategic decisions in a real-world context.

The Excelsior College MBA program is framed within a work-related global business setting to increase academic understanding of business topics, improve career prospects, and expand individual horizons. Students can capitalize upon their existing work-based knowledge while engaging in a process of reflective learning. This program will equip successful students to further their careers through enhanced knowledge, understanding, and application to the business environment.

Upon successful completion of the Excelsior College Master in Business Administration program, the graduate will be able to:

- Demonstrate transformational leadership skills through the ability to set direction and work with multiple constituencies with divergent needs including ethical obligations and social responsibility.
- Develop an action plan to continuously improve and update one’s knowledge and skills in strategic leadership.
- Recognize problems in business settings and propose solutions with a team of colleagues.
- Analyze complexity, interdependency, change and opportunities for organizations, including setting direction, aligning and motivating employees.
- Appraise risk and develop entrepreneurial solutions for sustainable innovation that delivers economic and social value.
- Evaluate how global environments impact changing business practice.
- Analyze cultural differences and how these differences affect best practices in management.
- Integrate empirical research and management theories for the purpose of strategic planning for profitability, including times of economic recession.

**Dual Degree Track Requirements**

**Arts and Sciences Component** (60 credits)

A. **Written English Requirement**
   A minimum of 6 credits must be earned in English composition using approved examinations and/or courses. See the written English requirement explanation on page 7 for additional information.

B. **Humanities**
   A minimum of 3 credits must be earned in Ethics.

C. A minimum of 6 credits must be earned in other humanities subjects such as art, literature, philosophy, religion, theatre, speech, and foreign languages.
D. Social Sciences/History
1. A minimum of 3 credits must be earned in Microeconomics with a minimum grade of C.
2. A minimum of 3 credits must be earned in Macroeconomics with a minimum grade of C.
3. A minimum of 3 credits must be earned in Economics. This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.
4. A minimum of 6 credits must be earned in other social sciences/history subjects, including geography, economics, cultural anthropology, political science, sociology, and psychology.

E. Natural Sciences and Mathematics
1. A minimum of 3 credits must be earned in Statistics with a minimum grade of C.
2. A minimum of 3 credits must be earned in College Algebra (at the level of precalculus or above) with a minimum grade of C.
3. A minimum of 3 credits must be earned in natural sciences. Subjects comprising this category include topics in biology, chemistry, genetics, and physics.

F. Arts and Sciences Electives
An additional 21 credits must be completed in the arts and sciences areas of the humanities, social sciences/history, or natural sciences/math. Students may distribute the remaining 15 credits across the arts and sciences subjects in any fashion.
1. A minimum of 3 credits must be earned in Organizational Behavior [BUS 311 Organizational Behavior, BUSx315 Organizational Behavior]. This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.
2. A minimum of 3 credits must be earned in Quantitative Analysis [BUS 431 Business Data Analysis, BUSx437 Quantitative Analysis]. This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.

Elective Credit Component (9 credits)
A. Information Literacy
A minimum of 1 credit must be earned in information literacy. See the information literacy requirement explanation on page 8 for more information.

B. Other College-Level Credit
A minimum of 8 credits must be earned in other college-level credit. This essentially is an elective area that can be fulfilled with additional arts and sciences credits or applied professional credits.

Business Component (45 credits)
- Financial Accounting
  [ACC 211 Financial Accounting]
- Managerial Accounting
  [ACC 212 Managerial Accounting]
- Introduction to Business Law (U.S.)
  [BUS 230 Business Law]
- Computers
  [IT 221 Introduction to Computers]
- Business Communication
  [BUS 222 Business Communication]
- Principles of Management
  [BUS 341 Management Concepts and Applications]
- Principles of Marketing
  [BUS 351 Marketing Concepts & Applications]
- Financial Management
  [BUS 350 Principles of Finance]
- International Business
  [BUS 435 International Business]
- Strategic Management (capstone)
  [BUS 499 Strategic Management (capstone)]
  The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.
- Concentration (15 credits are required)

continued on next page
Bridge Component (6 credits)
- Information Technology
  [BUS 570 Information Technology]
- Global Business Environment
  [BUS 502 Global Business Environment]

Graduate Component (30 credits)
- Accounting for Managers
  [BUS 500 Accounting for Managers]
- Managerial Finance
  [BUS 505 Finance]
- Marketing
  [BUS 506 Marketing]
- Operations Management
  [BUS 520 Operations Management]
- Project Management and Applications
  [BUS 530 Project Management Principles and Applications]
- Leadership
  [BUS 552 Leadership]
- Strategy and Policy (capstone)
  [BUS 511 Strategy and Policy (capstone)]
  The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.
- Concentration (9 credits are required)

BS in Business/MBA
- Minimum grades of B are required for each of the three MBA foundational courses (Quantitative Analysis, Organizational Behavior, and Economics). These courses must be upper level and no older than 10 years.
- Minimum grades of C are required in each of the courses composing the business core areas for the Bachelor of Science.
- Students must be within 10 credits of completing the undergraduate component in order to enroll in the bridge courses.
- A minimum grade point average (GPA) of 2.0 is required to move forward with the graduate course component.
- Students must complete all undergraduate requirements in order to move forward with the graduate component courses. A minimum GPA of 3.0 is required to complete the MBA.
- Upon completion of all undergraduate requirements, students have two options:
  1. Continue in the program and receive both the Bachelor of Science in Business and MBA at the conclusion of the graduate studies.
  2. Switch to bachelor’s degree and graduate. If students wish to pursue the MBA within 12 months after the conferral of the Bachelor of Science in Business, they will not be required to apply for admission to the MBA program.
- Students may transfer up to a maximum of 24 approved graduate credits (including nine foundation credits).

Policies Specific to the BS in Business to MBA (Dual Degree Track) Program
The Excelsior College Student Policy Handbook is your resource for understanding the academic and administrative policies that are important to your academic success. It includes a wide range of information from important federal policies, including your right to privacy, to grading policies and policies and procedures concerning refunds, withdrawals, and other administrative issues. It is your responsibility to be familiar with these policies.
BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CJ 101 Introduction to Criminal Justice
CJ 110 Introduction to Law Enforcement
CJ 256 Criminal Justice Administration
CJ 324 Criminology
CJ 410 Research Methods in Criminal Justice

CONCENTRATION OPTIONS

- Homeland Security
- Without Concentration

CJ 498 Criminal Justice Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

A bachelor’s degree in criminal justice incorporates the theories, history, and legal and ethical issues typically covered in the study of crime and the criminal justice system. Because a number of perspectives and related disciplines exist within the field of criminal justice, you are encouraged to develop depth, breadth, and understanding in one of two areas of concentration: Homeland Security, or Without Concentration. It is recommended that you also complete coursework outside the criminal justice major in psychology, sociology, and communications to better place your knowledge of the field in its broader social context.

Of the 120 credits for the Bachelor of Science in Criminal Justice, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Criminal Justice, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the major.

Program Outcomes

All students who successfully complete the criminal justice major, regardless of their concentration, will be able to demonstrate proficiency in the following areas:

1. Analyze the legislative, enforcement, judicial, and correctional components of the criminal justice system, and their interactions.
2. Apply the major legal, criminological, and sociological theories to policies and procedures within the criminal justice system.
3. Analyze the ethical issues that arise in the criminal justice system and generate possible solutions.
4. Assess contemporary literature in the field of criminal justice.
5. Evaluate the changing demographics of society and their impact on the criminal justice system.

Core Requirements for All Concentrations

A. CJ 101 Introduction to Criminal Justice
B. CJ 110 Introduction to Law Enforcement
C. CJ 256 Criminal Justice Administration
D. CJ 324 Criminology
E. CJ 410 Research Methods in Criminal Justice
F. CJ 498 Criminal Justice Capstone, with a grade of C or better.

Concentrations

HOMELAND SECURITY CONCENTRATION

Outcomes for the Concentration

Students who complete the concentration in homeland security will be able to:

- Explain the interdisciplinary nature of homeland security, emergency management, and policy making.
- Apply knowledge and skills to assume leadership roles in homeland security and emergency management.
- Discuss the ethical issues that may arise in homeland and emergency management.
- Appraise security risks based upon organizational needs and resources in both the private and public sectors.
- Describe the influence domestic and global diversity has on homeland security strategies.

Concentration Requirements

A. HEM 125 Introduction to Homeland Security
B. HEM 352 Domestic Terrorism
C. HEM 356 Emergency Management
D. Two courses from the following: HEM 350 International Terrorism, HEM 450 Counter-terrorism, HEM 460 Infrastructure Security and Policy, or other applicable courses.

WITHOUT CONCENTRATION

Criminal justice courses selected with assistance of an academic advisor and approved by the faculty program director.
BACHELOR OF SCIENCE IN
CYBERSECURITY

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

DEGREE-SPECIFIC REQUIREMENTS
Communications
BUS 323 Business Ethics
TECH 205 Discrete Structures
TECH 201 Foundations of Technology Problem Solving I
TECH 202 Foundations of Technology Problem Solving II
BUS 233 Business Statistics or MAT 201 Statistics

CORE REQUIREMENTS
- CYS 203 Introduction to Microprocessors or IT 321 Computer Systems Architecture
- CYS 245 Introduction to Cybersecurity
- CYS 260 Governance, Legal and Compliance
- CYS 345 Cybersecurity Defense in Depth
- CYS 426 Cyber Attacks and Defense
- CYS 450 Security Focused Risk Management
- IT 250 Business Data Communications
- IT 360 Operating Systems
- IT 380 Overview of Computer Security
- CYS 403 Network and Application Security
- IT 406 Computer Forensics
- IT 460 System Administration

CONCENTRATION REQUIREMENTS
- General Concentration
  Up to 15 credits in Approved Technical Electives
- Cyber Operations
  Minimum of 15 credits to include IT 210 Object-Oriented Programming or IT 240 Introduction to Programming, CJ 125 Introduction to Homeland Security, CYS 400 Reverse Engineering, CYS 470 Secure Software Development, CYS 475 Large-scale Cybercrime and Terrorism

CYS 496 Cybersecurity Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Cybersecurity program is aligned with the academic requirements for cybersecurity set by the National Security Agency (NSA) and Department of Homeland Security (DHS), and will provide students with the ability to enhance technical knowledge and skills in cybersecurity. The program is designed to prepare learners for cybersecurity-related jobs in the U.S. Cyber Command, the NSA’s signal intelligence operations, the Federal Bureau of Investigation, law enforcement agencies, and corporate environments. As Excelsior is a Center for Academic Excellence in Cyber Defense (CAE CD), the program supports the belief of the NSA that cybersecurity should be integrated in all aspects of a person’s career. The degree program will prepare the student to take several industry certification exams such as CISP, CEH, Security+, Network+, CHFI, SSCP, and ESCP. Typical occupational areas associated with cybersecurity include incident response analyst, cyber compliance analyst, cyber threat management, cyber network operations planner, cyber systems analyst, systems administrator, and cyber systems and operations engineer.

Of the total 120 credits for the Bachelor of Science in Cybersecurity, 15 must be earned at the upper level in the technology component.

The two options are General Concentration and concentration in Cyber Operations.

Program Educational Objectives

1. Apply general and discipline-specific concepts and methodologies to identify, analyze and solve problems in the cyber technology discipline.
2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.
3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.
4. Communicate effectively in a professional/industrial environment.
5. Perform ethically and professionally in business, industry and society.
6. Attain increasing levels of responsibility and leadership in the cyber technology field.

Program (Student) Outcomes

1. Describe defensive network architecture that use multiple layers of protection.
2. Analyze technologies and processes that monitor, maintain, and protect the data of an institution.
3. Evaluate and apply Industry Tools to respond to cyber incidents.
4. Create and disseminate cybersecurity reports to stakeholders.
5. Conduct risk and vulnerability assessments of existing and proposed security systems.
6. Develop and implement organizational cybersecurity policies and procedures.
7. Demonstrate the ability to understand professional, ethical, and social responsibility, including the effect of culture, diversity, and interpersonal relations.
8. Demonstrate proficiency in communicating technical information in formal reports, documentation, and oral presentations to users and information technology professionals.
9. Demonstrate a commitment to professional development and to continue to engage in lifelong learning.
Degree Requirements
The Bachelor of Science in Cybersecurity requires 120 semester hours of credit distributed as follows:

- **60 credits** minimum required in the arts and sciences component
- **52 credits** minimum required in the cybersecurity component with at least 15 credits at the upper level
- **8 credits** maximum allowed in the free elective component (to include information literacy)

Arts and Sciences Component (60 credits)
The Bachelor of Science in Cybersecurity requires a minimum of 60 credits in the arts and sciences distributed as follows:

A. Humanities and Social Sciences
   At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:
   
   1. Communications
      At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions]. Courses in speech, written composition, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirements.

   2. Ethics
      At least 3 credits must be earned in ethics with a minimum grade of C [BUS 323 Business Ethics].

   3. Humanities Elective
      At least 3 credits must be earned in a humanities elective. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

   4. Social Sciences/History
      At least 9 credits must be earned in such subjects as sociology, economics, history, psychology, and anthropology.

B. Natural Sciences/Mathematics
   At least 15 credits must be earned in natural sciences/mathematics and include 3 credits in a natural science and the following four math courses:
   
   - Discrete Math [TECH 205 Discrete Structures]
   - Calculus I [TECH 201 Foundations of Technology Problem Solving I]
   - Calculus II [TECH 202 Foundations of Technology Problem Solving II]
   - Statistics [BUS 233 Business Statistics, MAT 201 Statistics]

   Sample natural sciences subjects include biology, chemistry, geology, physics, and genetics.

C. Arts and Sciences Electives
   At least 21 additional credits in any arts and sciences areas must be completed.

Cybersecurity Component (52 credits)
(15 credits at the upper level)

The Bachelor of Science in Cybersecurity requires a grade of C or better for applicable credit, and a minimum of 51 credits in the area of cybersecurity distributed as follows:

The following core requirements must be met:

- Microprocessors or Computer Architecture [CYS 203 Introduction to Microprocessors or IT 321 Computer Systems Architecture]
- Introduction to Cybersecurity [CYS 245 Introduction to Cybersecurity]
- Governance, Legal and Compliance [CYS 260 Governance, Legal and Compliance]
- Cybersecurity Defense in Depth [CYS 345 Cybersecurity Defense in Depth]
- Cyber Attacks and Defense [CYS 426 Cyber Attacks and Defense]
CONCENTRATIONS

GENERAL CONCENTRATION
Recognizing that the cybersecurity field is continuously evolving, the Bachelor of Science in Cybersecurity program offers the general option concentration. This customizable concentration provides flexibility in designing students’ area of specialization in order to meet ever-changing job demands and also to build upon student’s current achievements. Students of this concentration can choose from approved technical electives to meet the degree requirements. Our courses cover a wide range of technical electives which help students stay competitive in today’s job market.

The courses for the program are as follows:

Requirements
- Up to 15 credits.

Concentration Requirements
- Approved technical electives

CYBER OPERATIONS
Cyber Operations as part of cybersecurity is defined as organized activities in cyber-space to gather, prepare, disseminate, report, or process information to achieve a goal (Godwin III; et al.). The Cyber Operations concentration in the cybersecurity degree provides the learner the ability to specialize their skills on the front line of cybersecurity. The courses selected prepare the students to handle cyber incidents and respond to incidents that happen as part of a cyber team.

Requirements
- Minimum of 15 credits.

Concentration Outcomes:
1. Identify fundamental security design principles that lead to system vulnerabilities.
2. Conduct exploits as part of an offensive cyber operation.
3. Apply fundamental security design principles during system design, development, and implementation to minimize vulnerabilities.

Concentration Requirements
- Programming
  [IT 210 Object-Oriented Programming or IT 240 Introduction to Programming]
- Introduction to Homeland Security
  [CJ 125 Introduction to Homeland Security]
- Reverse Engineering
  [CYS 400 Reverse Engineering]
- Secure Software Development
  [CYS 470 Secure Software Development]
- Large-scale Cybercrime and Terrorism
  [CYS 475 Large-scale Cybercrime and Terrorism]
Level Requirement
Of the 52 credits required for the cybersecurity component, at least 15 must be upper level. No upper-level credit is awarded for introductory coursework in computer languages. A course is generally considered upper level if it is offered at the junior or senior level and clearly not introductory in content. Courses taken at two-year institutions may not be used to satisfy upper-level requirements. The acceptance of coursework for credit toward the upper-level requirements is subject to faculty review.

A grade of “C” or higher is needed for all core requirements.

Free Elective Component (8 credits)
The Bachelor of Science in Cybersecurity allows room for up to 8 credits in free electives. Applied to this component is the 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 for more information about information literacy.

You may earn the remaining 7 credits in any field of college study, including professional or technical subjects as well as in the arts and sciences.

A maximum of 2 credits in physical education activity courses may be applied to the degree.

Degree-Specific Policies
Policies and procedures that apply specifically to the Bachelor of Science in Cybersecurity follow. Refer to your Student Policy Handbook for academic and administrative policies that apply to all students and programs.

Programming Language Cap
The College has placed a 9-credit cap on introductory programming language courses in the cybersecurity component, which includes the following languages:

- JAVA
- PYTHON
- Visual Basic
- C
- C++
- C#

No upper-level credit is awarded for coursework in introductory computer languages.

Credit for Vendor Examinations
Excelsior College awards credit for certain examinations from vendors/professional organizations such as Cisco, CompTIA, (ISC)², Microsoft, and the Project Management Institute. Subject to faculty approval, you may apply up to 21 credits from vendor certification examinations toward the Cybersecurity Component of your degree; additional credits from such examinations may apply toward the Free Elective Component. Please contact an academic advisor about the possibility of receiving college-level credit toward your degree requirements.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of credits applied to the Cybersecurity Component of the Bachelor of Science in Cybersecurity. To meet this requirement, relevant coursework must have been completed more recently than 5 years prior to entrance into the Bachelor of Science in Cybersecurity degree program. Please note that course content in these areas is subject to faculty approval. The time limit may be appealed by completing an appeal form which verifies appropriate and current professional and/or academic experience.
Time Limit for Degree Completion

Excelsior College degree programs are designed, within limits, to be completed at a student's own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Cybersecurity at the conclusion of 7 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 7-year degree completion time limit.
BACHELOR OF SCIENCE IN
ELECTRICAL ENGINEERING TECHNOLOGY

124 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

DEGREE-SPECIFIC REQUIREMENTS
BUS 323 Business Ethics
Communications

MATHEMATICS COMPONENT (24 credits total)
12 credits at the level of College algebra or above, including Calculus I and II and Differential Equations (TECH 201 Foundations of Technology Problem Solving I, TECH 202 Foundations of Technology Solving II)

NATURAL SCIENCE COMPONENT
PHYS 201 Physics I
PHYS 203 Physics II
PHYS 202 Physics I Lab or PHYS 203 Physics II Lab
CHE 101 Chemistry

LAB REQUIREMENT
Seven Technology labs are required. Four must be from the following: DC Circuits, AC Circuits, Digital Electronics, Electronics I, Electronics II, Microprocessors. The other three must be in the concentration.

CORE REQUIREMENTS
ELEC 152 Circuit Theory I
ELEC 153 Circuit Theory II
ELEC 160 Electronics I
ELEC 161 Electronics II
ELEC 201 Digital Electronics
ELEC 202 Microprocessors
Computer Programming
Project Management

CONCENTRATION REQUIREMENTS
One of the following concentrations must be declared.

Electronics
ELEC 331 Digital and Analog Communications, ELEC 306 Advanced Digital Design, IT 250 Business Data Communications, ELEC 321 Control Systems, ELEC 307 Microcontrollers

Nanotechnology

Power Systems
ELEC 210 Programmable Logic Controllers, ELEC 360 Generation and Transmission of Electric Power, ELEC 350 Power Electronics, ELEC 345 Electrical Machines, ELEC 370 Instrumentation and Data Acquisition

ELEC 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.

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Program Description

The Bachelor of Science in Electrical Engineering Technology program focuses on preparing students for electrical and allied engineering technology positions in technology-related industries such as electronics, electrical power, semiconductors and computers, and nanotechnology. The program is designed specifically to advance job skills by ensuring a breadth of knowledge in technology concepts as well as a depth of understanding and skill in a chosen concentration area. Specifically, the program has three technical concentrations that provide students with a broad professional and technical foundation in the various functional components of electrical engineering technology. Each concentration is a group of related college-level courses within electrical engineering technology that combines depth and breadth of study in a recognized math/science-based technology discipline. The goal of the degree program in specific concentrations is to foster the ability of students to apply what they have learned within the degree program to the real-world contexts of a technology-based industry. The three concentrations are: **Electronics**, **Nanotechnology**, and **Power Systems**.

Of the total 124 credits for the Bachelor of Science in Electrical Engineering Technology, 16 must be earned at the upper level in the technology component.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple, flexible pathways—offering course-based, prior learning assessment, and credit aggregation pathways to degree completion. In this way, the program is customizable and tailored to each student’s need and learning style.

**Specialized Accreditation/Recognition:** The Bachelor of Science in Electrical Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA).

Program Educational Objectives

As an Excelsior College bachelor’s-level electrical engineering technology graduate, within a few years of graduation, you are expected to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the electrical discipline.

2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.

3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.

4. Communicate effectively in a professional/industrial environment.

5. Perform ethically and professionally in business, industry, and society.

6. Demonstrate and utilize leadership principles in the field of electrical engineering technology.

Program (Student) Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Electrical Engineering Technology program, the graduate will be able to:

1. Select and apply appropriate knowledge, techniques, skills, and modern tools of mathematics, engineering technology, and natural sciences, including physics, to solve problems in the electrical engineering technology area.

2. Demonstrate the ability to test, measure, and provide quantitative expressions of natural science phenomena through methodologies including experimentation, observation, and accurate measurement.

3. Apply the fundamentals of algebra, trigonometry, and calculus to problem solving in electrical engineering technology areas.

4. Make oral technical presentations in Standard English using graphics and language appropriate to the audience.
5. Demonstrate proficiency in the written and graphical communication of technical information supported by appropriate technical references using Standard English.

6. Demonstrate a working knowledge of computer usage, including knowledge of one or more computer languages or documentation of the use of one or more computer software packages for technical problem solving appropriate to the electrical engineering technology discipline.

7. Demonstrate technical competency in the core electrical engineering technologies including electronics, circuit analysis, and digital systems, and in the student’s chosen concentration such as electronics, power systems, or nanotechnology.

8. Integrate knowledge of the functional areas of electrical engineering technology from a variety of resources.

9. Demonstrate the ability to analyze, apply design concepts, and implement systems as appropriate to electrical engineering technology and consider their societal and global impact.

10. Participate effectively in groups, as a member or leader, and apply project management techniques as appropriate to complete assignments.

11. Demonstrate understanding and commitment to professional, ethical, and social responsibilities, including the effects of culture, diversity, and interpersonal relations.

12. Demonstrate a commitment and ability to continue to engage in self-directed continuing professional development.

13. Demonstrate a commitment to quality, timeliness, and continuous improvement.

Degree Requirements
The Bachelor of Science in Electrical Engineering Technology requires a minimum of 124 credits distributed as follows:

- 60 credits minimum required in the arts and sciences component
- 57 credits minimum required in the electrical engineering technology component
- 7 credits required in the free elective component (to include information literacy)

Arts and Sciences Component (60 credits)
The distribution requirement ensures basic college-level competence in three arts and sciences areas: humanities, social sciences/history, and natural sciences/mathematics.

A. Humanities and Social Sciences/History
At least 24 credits must be earned in the humanities and social sciences/history and are distributed as follows:

1. Communications
   At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions]. Courses in speech, written composition, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirement.

2. Ethics
   At least 3 credits must be earned in ethics with a minimum grade of C. [BUS 323 Business Ethics].

3. Humanities Electives
   At least 3 credits must be earned in a humanities elective such as art, music, literature, foreign language, philosophy, and speech.

4. Social Sciences/History
   At least 9 credits must be earned in subjects such as sociology, economics, history, psychology, and anthropology.
B. Mathematics and Natural Sciences
Students are required to complete at least 24 semester hours of credit in the combined areas of mathematics and natural sciences, with at least 12 credit hours in math at the level of college algebra or above [MAT 116 Precalculus Algebra, MAT 118 Trigonometry], including Calculus I [TECH 201 Foundations of Technology Problem Solving I], Calculus II [TECH 202 Foundations of Technology Problem Solving II], and Differential Equations [TECH 202 Foundations of Technology Problem Solving II].

There is no minimum credit hour requirement for natural sciences. Rather, students must complete specific required courses in the natural sciences: Physics I, Physics II, and Chemistry I (with at least one physics lab) [PHYS 201 Physics I, PHYS 203 Physics II, PHYS 202 Physics I Laboratory, PHYS 204 Physics II Laboratory, CHE 101 General Chemistry I or equivalent].

C. Arts and Sciences Electives
The remaining 12 credits needed to satisfy the 60-credit requirement may be earned in any arts and sciences subjects.

Electrical Engineering Technology Component (57 credits)
The electrical engineering technology component ensures college-level competence in the major functional areas of electrical engineering technology. A grade of C or better is required for applicable credit.

4. Core Requirements
The following core requirements must be completed:

- DC Circuits
  [ELEC 152 Circuit Theory I]
- AC Circuits
  [ELEC 153 Circuit Theory II]
- Electronics I
  [ELEC 160 Electronics I]
- Electronics II
  [ELEC 161 Electronics II]
- Digital Electronics
  [ELEC 201 Digital Electronics]
- Microprocessors
  [ELEC 202 Microprocessors]
- Computer Programming
  [IT 210 Object-Oriented Programming]
- Project Management
  [IT 390 Project Management]
- Integrated Technology Assessment (capstone)
  [ELEC 495 Integrated Technology Assessment (capstone)] — The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.
- Four labs from the following core courses must be completed:
  - DC Circuits
  - AC Circuits, Electronics I
  - Electronics II
  - Digital Electronics, Microprocessors

5. Concentration Requirements
One of the following concentrations must be declared:

- Electronics
- Nanotechnology
- Power Systems

continued on next page

① TECH 202 Foundations of Problem Solving II satisfies Calculus II and Differential Equations.
Concentrations

ELECTRONICS

A concentration in Electronics focuses on training and preparing students to stay up-to-date with the rapidly changing electronics hardware and software technology environment. This concentration is a technical discipline centered on the analysis, design, assembly, testing, upgrading, and maintenance of electronics, computers, and communications hardware. The concentration also emphasizes the analysis, design, development, operation, and troubleshooting of control systems, software, and computer-based process controls. This concentration’s outcomes are geared toward providing students with a foundational knowledge of electronics hardware and software in a wide variety of subject areas and preparing students for positions including circuit design engineer, hardware technician, communications engineer, software developer, or network engineer. Upon successful completion of the Excelsior College Bachelor of Science in Electrical Engineering Technology with an Electronics concentration, the student will be able to:

1. Analyze and design different types of digital and analog electronic communication systems.
2. Design, integrate, and analyze digital and analog control systems.
3. Use high-level computer languages to develop techniques for designing and modeling electronic systems.

Requirements

Minimum of 15 credits, including 9 upper-level. At least three courses must have labs.

Concentration Requirements

- Electronic Communications
  [ELEC 331 Digital and Analog Communications]
- Advanced Digital Electronics
  [ELEC 306 Advanced Digital Design]

NANOTECHNOLOGY

A concentration in Nanotechnology focuses on training and preparing students to stay up-to-date with the rapidly changing micro- and nano-electronics R&D and manufacturing, nano-materials, and nano-medicine technology environment. This concentration is a technical discipline centered on the analysis, design, assembly, testing, upgrading, and maintenance of nanotechnology processes and equipment, developing highly functional nano-materials, and grasping/shaping societal implications of nanotechnology. This concentration’s outcomes are geared toward providing students with a foundational knowledge of nanotechnology processes, equipment, and hardware in a wide variety of subject areas and preparing students for positions including semiconductor and nano-electronics manufacturing engineer, nanotechnology hardware technician, or software developer for nanotechnology processes. Upon successful completion of the Excelsior College Bachelor of Science in Electrical Engineering Technology with a Nanotechnology concentration, the student will be able to:

1. Identify, analyze, and discuss the processes and equipment used in nanotechnology fabrication.
2. Identify and discuss nanotechnology applications and their societal and ethical implications.
3. Analyze the relationship between the material scale (nanostructure) and the properties/functionality of materials.

Requirements

Minimum of 15 credits, including 9 upper-level. At least three courses must have labs.
Concentration Requirements

- Introduction to Nanotechnology
  [ELEC 305 Introduction to Nanotechnology]
- Basic Nanofabrication Process
  [ELEC 310 Basic Nanofabrication Process]
- Nanotechnology Process Equipment
  [ELEC 410 Nanotechnology Process Equipment]
- Introduction to Nanofabrication Manufacturing Technology
  [ELEC 415 Introduction to Nanofabrication Manufacturing Technology]
- Micro-electro-mechanical Systems (MEMS) [ELEC 420 Micro-Electro Mechanical Systems]

1. Identify, analyze, and discuss methods used for generation, transmission, and control of electric power.
2. Design, integrate, and analyze DC/AC power conversion systems and related instrumentation.
3. List and describe techniques for analysis and design of power electronics systems.

Requirements

Minimum of 15 credits, including 9 upper-level. At least three courses must have labs.

Concentration Requirements

- Programmable Logic Controllers
  [ELEC 210 Programmable Logic Controllers]
- Power Electronics
  [ELEC 350 Power Electronics]
- Electrical Machines/Energy Conversion
  [ELEC 345 Electrical Machines]
- Instrumentation and Data Acquisition
  [ELEC 370 Instrumentation and Data Acquisition]

Electrical Engineering Technology Electives

Any remaining credits in the electrical engineering technology component may be satisfied by approved electrical/computer technology electives. Please note that only two of these electives may be approved information or cyber technology courses. Please check with your academic advisor for approval prior to registering for electrical engineering technology electives.

Laboratory Requirement

The degree requires at least eight laboratories. Of those eight, one physics laboratory is required in the natural sciences/mathematics area and the remaining seven must be in the electrical engineering technology component. Of the seven technology labs, four must be in the following electrical engineering technology core content areas: DC Circuits,
AC Circuits, Electronics I, Electronics II, Digital Electronics, and Microprocessors. The remaining three laboratories must be in your area of concentration.

Students must be able to demonstrate competence in the use of standard design practices, tools, techniques, and computer hardware and software appropriate to the electrical discipline and the program goals.

Level Requirement
Of the 57 credits required for the electrical engineering technology component, at least 16 must be upper level. Nine of the upper-level credits must be in the area of concentration. A course is generally considered upper level if it is offered at the junior or senior level and clearly not introductory in content. Courses taken at two-year institutions may not be used to satisfy upper-level requirements. No upper-level credit is awarded for introductory coursework in computer languages. The acceptance of coursework for credit toward the upper-level requirement is subject to faculty review.

A grade or “C” or higher is needed for all core requirements.

Free Elective Component (7 credits)
The Bachelor of Science in Electrical Engineering Technology allows room for up to 7 credits in free electives. Applied to this component is the 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 or refer to our website for more information about information literacy.

You may earn the remaining 6 credits in any field of college study, including professional or technical subjects as well as in the arts and sciences. A maximum of 2 credits in physical education activity courses may be applied to the degree.

Degree-Specific Policies
Policies and procedures that apply specifically to the Bachelor of Science in Electrical Engineering Technology follow. Refer to your Student Policy Handbook for academic and administrative policies that apply to all students and programs.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of certain subject areas meeting requirements in the Bachelor of Science in Electrical Engineering Technology. Previous computer- and electrical/electronic-related coursework must have been completed more recently than 10 years prior to entrance into the Bachelor of Science in Electrical Engineering Technology (except DC and AC Circuits). Please note that course content in these areas is subject to faculty approval. The time limit may be appealed with verification of appropriate and current professional and/or academic experience.

Time Limit for Degree Completion
Excelsior College degree programs are designed, within limits, to be completed at a student’s own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Electrical Engineering Technology at the conclusion of 10 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 10-year degree completion time limit.
Course Materials Policy

The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.
BACHELOR OF SCIENCE IN
HEALTH CARE MANAGEMENT

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

DEGREE-SPECIFIC REQUIREMENTS
Health Care Ethics
Microeconomics
Macroeconomics
Statistics
HSC 112 Medical Terminology

PROFESSIONAL COMPONENT (42 CREDITS)

► Health Care Management Core (21 Credits)
HSC 301 Foundations of Health Care Management
HSC 305 Critical Issues in Health Care Management
HSC 310 Writing and Communication in the Health Sciences Professions
HSC 330 Legal and Regulatory Environment of Health Care
HSC 404 Organizational Behavior in Health Care Environments
HSC 414 Budget and Finance in Health Care Organizations
HSC 450 Economics of Health Care

► Business Core Component (15 credits)
Accounting
Principles of Management
HSC 301 Foundations of Health Care Management
Research (UL)
Human Resources Management
Marketing

Health Care or Business Elective Credits (6 credits)

HSC 470 Health Care Management Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Health Care Management is a 120-credit program designed to meet the needs of adult learners interested in health care management. This program is composed of coursework that will prepare individuals to carry out the responsibilities required of managers in the health care arena. The curriculum includes core courses in business, health care management, and other areas supportive of the health care manager role. For students with the ultimate goal of earning a Master of Business Administration (MBA), there is a Bachelor of Science in Health Care Management to MBA option (see page 90).

Of the total 120 credits for the Bachelor of Science in Health Care Management, 39 must be earned at the upper level, 15 in the Business core, 21 in the Health Science major core and 3 in the capstone.

Program Outcomes

Upon completion of the program, the graduate will be able to:

1. Implement management practices in health care settings that reflect leadership and organizational theories.
2. Apply resource management principles within diverse health care organizations.
3. Explain the role of the manager in maintaining a legal and ethical environment.
4. Determine effective communication strategies when interacting with stakeholders.
5. Use evidence-based practice to guide decision making and promote quality in health care settings.

Program Requirements

The Bachelor of Science in Health Care Management requires a total of 120 credits, including 60 credits in the arts and sciences, 15 credits in the additional credit component, 42 credits in the professional component, and a 3-credit capstone course.

Arts and Sciences Component (60 credits)

A. Written English Requirement

A minimum of 6 credits are required in expository writing, which may be at the freshman level. See the written English requirement explanation on page 7 for specific details.

HSC 310 Writing and Communication in the Health Sciences Professions is recommended.

B. Humanities

1. A minimum of 3 credits must be earned in health care ethics with a minimum grade of C.
2. A minimum of 6 credits must be earned in other humanities subjects such as art, literature, ethics, philosophy, religion, theatre, speech, and foreign languages.

C. Social Sciences/History

1. A minimum of 3 credits must be earned in microeconomics with a minimum grade of C.
2. A minimum of 3 credits must be earned in macroeconomics with a minimum grade of C.
3. A minimum of 3 credits must be earned in other social sciences/history subjects, including geography, economics, cultural anthropology, political science, sociology, and psychology.

D. Natural Sciences/Mathematics

1. A minimum of 3 credits must be earned in statistics with a minimum grade of C.
2. A minimum of 2 credits must be earned in the natural sciences (e.g., biology, chemistry, physics).
3. A minimum of 4 credits must be earned in natural sciences/mathematics electives. Subjects composing this category include topics in biology, chemistry, mathematics, genetics, and physics.

continued on next page
E. Arts and Sciences Electives
An additional 27 credits must be completed in the arts and sciences areas of the humanities, social sciences/history, or natural sciences/mathematics. Students may distribute these credits across the arts and sciences subjects in any fashion.

Additional Credit Component (15 credits)

A. Medical Terminology
A minimum of 3 credits must be earned in medical terminology. Students who have earned an associate degree or higher in a health sciences field, present a state-issued license as a registered nurse or practical nurse, or have earned a minimum of 3 credits of Anatomy & Physiology from military training (must be listed on a JST) will receive a waiver of this requirement. Students receiving a waiver for Medical Terminology will need to complete three credits in another area.

B. Information Literacy
A minimum of 1 credit must be earned in information literacy. See the information literacy requirement explanation on page 8 for more information. (Excelsior College INL 102 Information Literacy may be used to fulfill this requirement.)

C. Other College-Level Credit
A minimum of 11 credits must be earned in other college-level credit. This essentially is an elective area that can be fulfilled with additional arts and sciences credits or applied professional credits.

Professional Component (42 credits)

Health Care Management Core (21 credits)
Bachelor of Science in Health Science students must complete the following seven core courses with a minimum grade of C in each:
- HSC 301 Foundations of Health Care Management
- HSC 305 Critical Issues in Health Care Management
- HSC 310 Writing and Communication in the Health Sciences Professions
- HSC 330 Legal and Regulatory Environment of Health Care
- HSC 404 Organizational Behavior and Theory in Health Care
- HSC 414 Budget and Finance in Health Care Organizations
- HSC 450 Economics of Health Care

Business Core (15 credits)
Bachelor of Science in Health Science students must complete the following seven core courses with a minimum grade of C in each:
- Accounting
- Principles of Management
- Research (UL)
- Human Resources Management
- Marketing

Business or Health Care Electives (6 credits)
An additional 21 credits must be completed in business or health care electives.

Health Care Management Capstone (3 credits)
HSC 470 Health Care Management Capstone must be completed at Excelsior College with a minimum grade of C. To be eligible for the capstone, students must have successfully completed all other requirements of the professional and additional credit components as well as the written English requirement and be within 9 credits of completing the arts and sciences component.
BACHELOR OF SCIENCE IN HEALTH CARE MANAGEMENT TO MASTER OF BUSINESS ADMINISTRATION DUAL DEGREE TRACK

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Health Care Ethics

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS
HSC 112 Medical Terminology
HSC 301 Foundations of Health Care Management
HSC 404 Organizational Behavior in Health Care Environments
HSC 414 Budget and Finance in Health Care Environments
HSC 431 Health Care Delivery Systems
HSC 450 Economics of Health Care
Undergraduate Business Core: Accounting, Human Resources Management, Marketing, Principles of Management, Upper-Level Research
Undergraduate Business or Health Care Electives

BRIDGE REQUIREMENTS
- BUS 501 Business Communications
- BUS 502 Global Business Environment
- BUS 505 Finance

GRADUATE REQUIREMENTS

GRADUATE BUSINESS REQUIREMENTS
- BUS 500 Accounting for Managers
- BUS 504 Human Resource Management
- BUS 552 Leadership
- BUS 554 Change Management
- BUS 570 Information Technology

GRADUATE ELECTIVES OR OPTIONAL CONCENTRATION
Choose one of the following concentrations: Accounting, Health Care Management, Human Resource Management, Leadership, or No concentration

BUS 511 Strategy and Policy Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Health Care Management to Master of Business Administration dual degree program consists of 147 credits of course work. The program is designed for students who have a goal of earning an MBA and working in health care management and administration. Students earn the bachelor’s degree by completing 60 credits in the arts and sciences component, 36 credits in the professional component, and 15 credits in the additional credit component. Students achieve graduate status after completing all undergraduate requirements and the 9-credit bridge component. The 27-credit graduate component completes the master’s degree requirements.

Of the total credits for the Bachelor of Science in Health Care Management portion of this degree, 39 must be earned at the upper level, 15 in the Business core, 15 in the Health Science core and 9 in the bridge component.

Specialized Accreditation/Recognition: The Master of Business Administration is accredited by the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215.

Program Outcomes

Upon completion of the Bachelor of Science in Health Care Management program, the graduate will be able to:

1. Implement management practices in health care settings that reflect leadership and organizational theories.
2. Apply resource management principles within diverse health care organizations.
3. Explain the role of the manager in maintaining a legal and ethical environment.
4. Determine effective communication strategies when interacting with stakeholders.
5. Use evidence-based practice to guide decision making and promote quality in health care settings.

The Excelsior College MBA program is framed within a work-related global business setting to increase academic understanding of business topics, improve career prospects, and expand individual horizons. Students can capitalize upon their existing work-based knowledge while engaging in a process of reflective learning. This program will equip successful students to further their careers through enhanced knowledge, understanding, and application to the business environment.

Upon successful completion of the Excelsior College Master in Business Administration program, the graduate will be able to:

- Prepare and deliver effective written and oral communications to shape organizational culture, resolve conflict, and relay information to diverse audiences.
- Apply quantitative and qualitative business analysis techniques to solve problems and support management and strategic level decisions.
- Demonstrate transformational leadership skills through the ability to set direction and work with multiple constituencies with divergent needs including ethical obligations and social responsibility.
- Develop an action plan to continuously improve and update one’s knowledge and skills in strategic leadership.
- Recognize problems in business settings and propose solutions with a team of colleagues.
- Analyze complexity, interdependency, change and opportunities for organizations, including setting direction, aligning and motivating employees.
- Appraise risk and develop entrepreneurial solutions for sustainable innovation that delivers economic and social value.
- Evaluate how global environments impact changing business practice.
- Analyze cultural differences and how these differences affect best practices in management.
- Integrate empirical research and management theories for the purpose of strategic planning for profitability, including times of economic recession.
Dual Degree Track Requirements

Arts and Sciences Component (60 credits)

A. English Composition
   A minimum of 6 credits must be earned in English composition using approved examinations and/or courses. See the written English requirement explanation on page 7 for additional information.

B. Humanities
   1. A minimum of 3 credits must be earned in health care ethics.
   2. A minimum of 6 credits must be earned in other humanities subjects such as art, literature, ethics, philosophy, religion, theatre, speech, and foreign languages.

C. Social Sciences/History
   1. A minimum of 3 credits must be earned in microeconomics with a minimum grade of C.
   2. A minimum of 3 credits must be earned in macroeconomics with a minimum grade of C.
   3. A minimum of 3 credits must be earned in other social sciences/history subjects, including geography, economics, cultural anthropology, political science, sociology, and psychology.

D. Natural Sciences/Mathematics
   1. A minimum of 3 credits must be earned in statistics with a minimum grade of C.
   2. A minimum of 3 credits must be earned in quantitative methods. This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.
   3. A minimum of 3 credits must be earned in natural sciences. Subjects composing this category include topics in biology, chemistry, genetics, and physics.

Arts and Sciences Electives
An additional 27 credits must be completed in the arts and sciences areas of the humanities, social sciences/history, or natural sciences/math. Students may distribute these credits across the arts and sciences subjects in any fashion.

Additional Credit Component (15 credits)

A. Medical Terminology
   A minimum of 3 credits with a minimum grade of C must be earned in medical terminology.
   Students who have earned an associate degree or higher in a health sciences field, present a state-issued license as a registered nurse or practical nurse, or have earned a minimum of 3 credits of Anatomy & Physiology from military training (must be listed on a JST) will receive a waiver of this requirement. Students receiving a waiver for Medical Terminology will need to complete three credits in another area.

B. Information Literacy
   A minimum of 1 credit must be earned in information literacy. See the information literacy requirement explanation on page 8 for more information.

C. Other College-Level Credit
   A minimum of 11 credits must be earned in other college-level credit that can be fulfilled with additional arts and sciences credits or applied professional credits.

Professional Component (36 credits)

A. Business Core
   Three credits in each of the following subjects must be earned with minimum grades of C unless otherwise noted:
   - Accounting
   - Principles of Management
   - Research (must be upper level)
   - Human Resources Management
   - Marketing

B. Health Care Management Core
   Three upper-level credits in each of the following courses must be earned with minimum grades of C unless otherwise noted:
Policies Specific to the Bachelor of Science in Health Care Management to Master of Business Administration Dual Degree Program

The Excelsior College Student Policy Handbook is your resource for understanding the academic and administrative policies that are important to your academic success. It includes a wide range of information from important federal policies, including your right to privacy, to grading policies and procedures concerning refunds, withdrawals, and other administrative issues. It is your responsibility to be familiar with these policies.

- There are three foundational requirements for the MBA, including quantitative methods, organizational behavior and theory in health care, and upper-level economics. A minimum grade of B is required for each.
- Credits used to fulfill foundation requirements must be within 10 years of the student’s academic policy date.
- A minimum grade of C is required for all other degree requirements with the exception of arts and science electives.
- Credit used to fulfill requirements within the professional component must be completed within 15 years of the student’s academic policy date.
- Students must be within 10 credits of completing the undergraduate requirements before beginning the bridge component.
- Students achieve graduate status upon successful completion of all undergraduate requirements, including the bridge courses.
- Students must complete undergraduate and bridge requirements in order to enter the graduate component.
- A minimum GPA of 3.0 is required of all MBA courses for degree completion.
- Students must complete all MBA requirements within 10 years of reaching graduate status.

Bridge Component (9 credits)
- BUS 502 Global Business Environment
- BUS 505 Finance
- BUS 570 Information Technology

Graduate Course Component (27 credits)
- BUS 500 Accounting for Managers
- BUS 506 Marketing
- BUS 520 Operations Management
- BUS 530 Project Management Principles and Applications
- BUS 552 Leadership

Approved Electives (9 credits)
Students electing an MBA concentration may use those credits to fulfill the elective requirement. Students may choose to have no concentration, or choose from the following concentrations: cybersecurity management, human performance technology, human resources management, leadership, social media management, technology management, and health care management.

Strategy and Policy Capstone
- BUS 511 Strategy and Policy

- HSC 301 Foundations of Health Care Management
- HSC 404 Organizational Behavior and Theory in Health Care
  This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.
- HSC 414 Budget and Finance in Health Care Organizations
- HSC 431 Health Care Delivery Systems
- HSC 450 Economics of Health Care
  This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.
- Business or Health Care Electives
  An additional 6 credits must be completed in business or health care electives (minimum grade of C required).
BACHELOR OF SCIENCE IN HEALTH SCIENCES

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE COMPONENT
- HSC 310 Writing and Communication in the Health Science Professions
- HSC 320 Health Care Issues in Culturally Diverse Populations
- HSC 365 Research for Evidence-based Practice
- HSC 431 Introduction to Health Care Delivery Systems
- HSC 445 Health Care Informatics

AREA OF EMPHASIS REQUIREMENTS
Complete 9 credits in one of the following
- Health and Wellness
- Management
- Public Health
- No Emphasis

HSC 464 Health Sciences Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Health Sciences is a 120-credit program composed of courses in the arts and sciences as well as in the health sciences. It is designed to provide learning opportunities to foster knowledge and skills necessary to engage with interprofessional teams to promote quality care, expand career potential, and lay the foundation for study at the graduate level. For students with the ultimate goal of earning a Master of Science in Health Sciences, there is a Bachelor of Science to Master of Science in Health Sciences program (see page 98).

Of the total 120 credits for the Bachelor of Science in Health Sciences, 27 must be earned at the upper level, 15 in the Health Science core, 9 in the emphasis and 3 in the capstone.

Program Outcomes

Upon completion of the program, the graduate will be able to:

1. Identify and evaluate evidence to guide decision making.
2. Use a systematic approach and higher order thinking in developing strategies to address health issues and societal needs.
3. Integrate knowledge of culture and an appreciation of diversity in assessment of needs and delivery of health services.
4. Identify opportunities and challenges in the use of current and evolving information technologies for planning, implementing, and evaluating health services.
5. Use effective, professional communication skills to engage with various stakeholders.
6. Analyze legal, ethical, and policy issues within health delivery systems.
7. Implement specialized knowledge and skills in the management and delivery of health services.

Program Requirements

The Bachelor of Science in Health Sciences degree program requires a total of 120 credits, including 60 credits in arts and sciences and 60 credits in the health sciences.

Arts and Sciences Component (60 credits)

The study of the arts and sciences is an essential part of preparation for professional practice in that it contributes both knowledge and an intellectual approach to problem solving. The arts and sciences requirements ensure that the student will develop college-level competence in the humanities, social sciences/history, and natural sciences/math.

A. Written English Requirement

A minimum of 6 credits are required in expository writing, which may be at the freshman level. (See the written English requirement section on page 7 for specific details.)

B. Humanities

A minimum of 9 credits must be earned in the humanities. The humanities include subjects such as art, literature, ethics, philosophy, religion, theatre, speech, and foreign languages. Within the 9 credits, 2 must be in ethics with a minimum grade of C earned.

C. Social Sciences/History

A minimum of 9 credits must be earned in the social sciences/history field. The social sciences include subjects such as geography, economics, cultural anthropology, political science, sociology, and psychology.

D. Natural Sciences/Mathematics

A minimum of 9 credits must be earned in natural sciences/mathematics. A minimum of 2 credits is required in natural sciences subjects (biology, chemistry, physics, etc.) to meet the general education requirements. A minimum of 2 credits in statistics with a minimum grade of C is required to fulfill the core requirement.
**E. Arts and Sciences Electives**

The remaining 27 credits may be distributed among the arts and sciences areas of the humanities, social sciences/history, and natural sciences/mathematics.

**Health Sciences Component (60 credits)**

The Health Sciences component provides students with a strong foundation in the health care field and allows the flexibility to choose an area of emphasis in order to develop skills and knowledge in a specific area.

The Health Sciences component is composed of:

- 15 credits of health sciences core courses,
- 9 credits in an area of emphasis,
- 3 credits for the Health Sciences Capstone,
- 1 credit for Information Literacy, and
- 32 credits in health sciences electives.

**Health Sciences Core (15 credits)**

Bachelor of Science in Health Sciences students must complete the following five core courses with a minimum grade of C in each:

- HSC 310 Writing and Communication in the Health Science Professions (3 credits),
- HSC 320 Health Care Issues in Culturally Diverse Populations (3 credits),
- HSC 365 Research for Evidence-Based Practice (3 credits),
- HSC 431 Introduction to Health Care Delivery Systems (3 credits), and
- HSC 445 Introduction to Health Care Informatics (3 credits).

**Areas of Emphasis**

Bachelor of Science in Health Sciences students must select one of the following areas of emphasis:

**HEALTH AND WELLNESS EMPHASIS (9 credits)**

To satisfy the Health and Wellness emphasis requirement, three upper-level courses must be completed with a minimum grade of C:

- HSC 407 Health and Wellness (required)
- and two courses (6.0 semester hours) in approved Health and Wellness electives.

**MANAGEMENT EMPHASIS (9 credits)**

To satisfy the Management emphasis requirements, the following three courses must be completed with a minimum grade of C:

- HSC 414 Budget and Finance in Health Care Organizations (3 credits),
- HSC 418 Management of Human Resources in Health Care Organizations (3 credits), and
- HSC 440 Leadership and Management in Health Care Seminar (3 credits).

**PUBLIC HEALTH EMPHASIS (9 credits)**

To satisfy the Public Health emphasis requirement, three upper-level courses must be completed with a minimum grade of C:

- PBH 321 Introduction to Epidemiology (required),
- PBH 323 Principles of Public Health (required) and one course (3.0 semester hours) of an approved Public Health elective.

**NO EMPHASIS (9 credits)**

To satisfy the no emphasis requirement, 9 upper-level courses must be completed with a minimum grade of C from any of the approved Health Sciences electives.

**Health Sciences Electives (32 credits)**

Elective credit in the health sciences includes coursework from fields such as: radiology, dental hygiene, cardiovascular technology, pharmacy technology, nursing, and medical laboratory technology. Arts and sciences credit that is supportive of the health sciences may also be applied to this area.

Additionally, elective credit in the health sciences may be awarded for licenses and certifications that have been reviewed and approved by the faculty. The faculty periodically review other licenses and certifications in various areas of health care for which health sciences elective credit may be awarded. For more specific information, see the list of approved licenses and certifications on page 257.
Health Sciences Elective Credit
A number of Excelsior College courses may be taken to fulfill the health sciences elective requirement. Students should consult with their academic advisors regarding the options.

Information Literacy (1 credit)
At least 1 credit must be earned in information literacy. Excelsior College’s INL 102 Information Literacy fulfills this requirement. See the information literacy requirement section on page 8 for more specific information on this requirement. This requirement must be completed within the first 13 Excelsior College credits attempted.

Health Sciences Capstone (3 credits)
HSC 464 Health Sciences Capstone must be completed at Excelsior College with a minimum grade of C. To be eligible for the Capstone, students must have successfully completed all other health sciences requirements, including the core, area of emphasis, information literacy, and elective requirements as well as the written English requirement and be within 9 credits of completing the arts and sciences component.
BACHELOR OF SCIENCE IN HEALTH SCIENCES TO MASTER OF SCIENCE IN HEALTH SCIENCES DUAL DEGREE TRACK

147 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS

HSC 310 Writing and Communication in the Health Science Professions
HSC 320 Health Care Issues in Culturally Diverse Populations
HSC 445 Introduction to Health Care Informatics

UNDERGRADUATE AREA OF EMPHASIS

Choose one of the following: Health and Wellness, Management, Public Health, or No specialization

Undergraduate Health Sciences Electives

BRIDGE REQUIREMENTS

HSC 552 Leadership
HSC 560 Health Care Delivery Systems
HSC 580 Research & Applied Statistics or PBH 592 Biostatistics (for Public Health Specialization)

GRADUATE REQUIREMENTS

GRADUATE HEALTH SCIENCES REQUIREMENTS

- Health Sciences Core
  HSC 500 Graduate Research and Writing, HSC 510 Healthcare Policy, Politics, and Power,
  HSC 518 Ethics and Health Care

- Health Science Emphasis
  Must choose one: Public Health or No specialization

HSC 660 Master of Science in Health Sciences Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Health Sciences to Master of Science in Health Sciences dual degree program consists of 147 credits of coursework. The program is designed for students who have a goal of earning a Master of Science in Health Sciences and working in a leadership and/or specialty role in public health, health professions education, health care informatics, or another area of interest within the health sciences. Students earn the bachelor’s degree by completing 60 credits in the arts and sciences component and 51 credits in the health sciences component. Students achieve graduate status after completing all undergraduate requirements and the 9-credit bridge component. The 27-credit graduate component completes the master’s degree requirements.

Of the total 120 credits for the Bachelor of Science in Health Sciences, 27 must be earned at the upper level, 9 in the Health Science core, 9 in the emphasis and 9 in the bridge component.

Program Outcomes

Upon completion of the Bachelor of Science in Health Sciences program, the graduate will be able to:

1. Identify and evaluate evidence to guide decision making.
2. Use a systematic approach and higher order thinking in developing strategies to address health issues and societal needs.
3. Integrate knowledge of culture and an appreciation of diversity in assessment of needs and delivery of health services.
4. Identify opportunities and challenges in the use of current and evolving information technologies for planning, implementing, and evaluating health services.
5. Use effective professional communication skills to engage with various stakeholders.
6. Analyze legal, ethical, and policy issues within health delivery systems.
7. Implement specialized knowledge and skills in the management and delivery of health services.

Upon successful completion of the Master of Science in Health Sciences program, the graduate will be able to:

1. Demonstrate proficiency in using multiple strategies of communication to convey complex thoughts and ideas.
2. Use research findings to explain and direct the resolution of practice-related issues and challenges.
3. Apply leadership skills in managing people and programs.
4. Analyze issues and challenges, including new and emerging trends within the health care industry, using an ethical framework.
5. Use knowledge of health care policy and delivery systems to guide professional practice.

Depending on their specialization, the graduate will also be able to:

Public Health Specialization

- Apply an epidemiological framework to public health issues.
- Examine the influence of social determinants of health on populations.
- Develop evidence-based strategies to address public health issues.

Health Professions Education Specialization

- Apply principles and theories of teaching, learning, and assessment.
- Use curriculum development and evaluation processes within dynamic health care and educational environments.
- Evaluate multiple instructional strategies, including educational technologies, to support student learning.

Health Care Informatics Specialization

- Apply health care informatics knowledge and skills to select, manage, and evaluate information systems.
- Use critical thinking skills to identify informatics technology solutions to improve healthcare.
Dual Degree Track Requirements

Arts and Sciences Component (60 credits)
The study of the arts and sciences is an essential part of preparation for professional practice in that it contributes both knowledge and an intellectual approach to problem solving. The arts and sciences requirements ensure that the student will develop college-level competence in the areas of the humanities, social sciences/history, and natural sciences/mathematics.

A. Written English Requirement
A minimum of 6 credits are required in expository writing, which may be at the freshman level. See the written English requirement explanation on page 7 for additional information.

B. Humanities
A minimum of 9 credits must be earned in the humanities. The humanities include subjects such as art, literature, ethics, philosophy, religion, theatre, speech, and foreign languages. Within the 9 credits, 2 must be in ethics with a minimum grade of C earned.

C. Social Sciences/History
A minimum of 9 credits must be earned in social sciences/history. The social sciences include subjects such as geography, economics, cultural anthropology, political science, sociology, and psychology.

D. Natural Sciences/Mathematics
A minimum of 9 credits must be earned in natural sciences/mathematics. A minimum of 2 credits is required in natural sciences subjects (biology, chemistry, physics, etc.) to meet the general education requirements. At least 2 credits in statistics with a minimum grade of C is required to fulfill the core requirement.

E. Arts and Sciences Electives
The remaining 27 credits may be distributed among the arts and sciences areas of the humanities, social sciences/history, and natural sciences/mathematics.

Health Sciences Component (51 credits)
The Health Sciences component provides students with a strong foundation in the healthcare field and allows the flexibility to choose an area of emphasis in order to develop skills and knowledge in a specific area.

The Health Sciences component is composed of:
- 9 credits of health sciences core courses,
- 9 credits in an area of emphasis,
- 1 credit for information literacy, and
- 32 credits in health sciences electives.

Health Sciences Core (9 credits)
Bachelor of Science in Health Sciences students must complete the following three courses with a minimum grade of C in each in order to satisfy the core requirement:
- HSC 310 Writing and Communication in the Health Science Professions (3 credits)
- HSC 320 Health Care Issues in Culturally Diverse Populations (3 credits)
- HSC 445 Introduction to Health Care Informatics (3 credits)

Areas of Emphasis (9 credits each)
At the undergraduate level, students must select at least one of the following areas of emphasis:

**HEALTH AND WELLNESS EMPHASIS (9 CREDITS)**
To satisfy the Health and Wellness emphasis requirement, three upper-level courses must be completed with a minimum grade of C:
HSC 407 Health and Wellness *(required)* and two courses (6.0 semester hours) in approved Health and Wellness electives.
MANAGEMENT EMPHASIS (9 CREDITS)
The following three courses must be completed with a minimum grade of C in each in order to satisfy the Management emphasis requirements:
▶ HSC 414 Budget and Finance in Health Care Organizations (3 credits)
▶ HSC 418 Management of Human Resources in Health Care Organizations (3 credits)
▶ HSC 440 Leadership and Management in Health Care Seminar (3 credits)

PUBLIC HEALTH EMPHASIS (9 CREDITS)
To satisfy the Public Health emphasis requirement, three upper-level courses must be completed with a minimum grade of C:
PBH 321 Introduction to Epidemiology (required), PBH 323 Principles of Public Health (required) and one course (3.0 semester hours) of approved Public Health Elective.

NO EMPHASIS (9 CREDITS)
To satisfy the no emphasis requirement, 9 upper-level courses must be completed with a minimum grade of C from any of the approved Health Sciences electives.

Health Sciences Electives (32 credits)
Health sciences elective credit includes coursework from fields such as: radiology, dental hygiene, cardiovascular technology, pharmacy technology, nursing, medical laboratory technology, etc. Arts and sciences credit that is supportive of the health sciences may also be applied to this area.

Additionally, health sciences elective credit may be awarded for faculty-approved licenses and certifications. Excelsior College regularly reviews other licenses and certifications in various areas of health care for which health sciences elective credit may be awarded. For more specific information, see the list of approved licenses and certifications on page 257.

Health Sciences Elective Credit
There are a number of Excelsior College health science courses that can apply as health sciences elective credit. Students should consult with their academic advisors regarding the options.

Information Literacy (1 credit)
At least 1 credit must be earned in information literacy. Excelsior College’s INL 102 Information Literacy fulfills this requirement. See the information literacy requirement explanation on page 8 for more information. This requirement must be completed within the first 13 Excelsior College credits attempted.

Bridge Component (9 credits)
▶ HSC 552 Leadership (3 credits)
▶ HSC 560 Health Care Delivery Systems (3 credits)
▶ HSC 580 Research and Applied Statistics (3 credits) ①

Graduate Course Component (27 credits)
Health Sciences Core (9 credits)
▶ HSC 500 Graduate Research and Writing (3 credits)
▶ HSC 510 Health Care Policy, Politics, and Power (3 credits)
▶ HSC 518 Ethics and Health Care (3 credits)

Specialization Component (15 credits)
At the graduate level, students may choose one of the following areas of specialization:

PUBLIC HEALTH SPECIALIZATION (15 CREDITS)
▶ PBH 603 Behavioral Health and Social Environment (3 credits)
▶ PBH 604 Introduction to Epidemiology (3 credits)
▶ PBH 609 Critical Issues in Public Health (3 credits)

① In lieu of HSC 580 Research and Applied Statistics, PBH 592 Biostatistics is required for the Public Health specialization.
- PBH 613 Program Planning and Evaluation for Public Health (3 credits)
- PBH 647 Vulnerable Populations (3 credits)

**NO SPECIALIZATION (15 CREDITS)**

Students are required to complete a compilation of graduate-level coursework from health science fields. This will include Excelsior College graduate courses as well as approved courses transferred in from other institutions.

**Graduate Health Sciences Capstone**

(3 credits)

HSC 660 Graduate Health Sciences Capstone may be taken when students are in their final trimester and have completed at least 30 credits.
BACHELOR OF SCIENCE IN HISTORY

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE COMPONENT

- HIS 101 United States History I or HIS 102 United States History II
- HIS 120 World History I or HIS 121 World History II
- US History (minimum of two courses—intermediate and upper level)
- European History (minimum of two courses—intermediate and upper level)
- Non-Western/Global History (minimum of two courses—intermediate and upper level)
- Electives in History

LA 498 HIS History Capstone

The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

History is the study of the recent and distant past and change over time. Because the field is so broad and continues to expand, we strongly recommend you develop an understanding of the extent of the discipline while studying one area in depth. If you wish to go beyond the minimum requirements or to pursue further study in history, you should include a course in statistics and the study of a foreign language.

Of the 120 credits for the Bachelor of Science in History, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of history, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the core component.

Program Outcomes

Students who successfully complete the bachelor’s degree in history will be able to:

1. Objectively evaluate a variety of historical sources (primary & secondary) for their credibility, position, and perspective.
2. Interpret the past in context, showing an understanding of diverse cultures and perspectives.
3. Utilize the tools, methods, and ethical standards of the discipline to integrate evidence and craft narratives about the past.
4. Demonstrate a methodological practice of gathering, sifting, analyzing, ordering, synthesizing, and interpreting evidence.
5. Construct a historical argument that is reasoned and based on historical evidence which describes and analyzes the past for its use in the present.
6. Apply historical knowledge and analysis to a current social, cultural, or political issue.

Degree Requirements

A. Foundational: Minimum two courses, one in U.S. History (101 or 102) and one in World History (120 or 121)
   1. Minimum of one survey course in U.S. History
      a) HIS 101 United States History I, or
      b) HIS 102 United States History II
   2. Minimum of one survey course in World History (Western Civilization may be used for this requirement)
      a) HIS 120 World History I, or
      b) HIS 121 World History II

B. U.S. History: Minimum of two courses, intermediate and upper-level courses, such as: MIL 230 U.S. Military History, HIS 321 Colonial America, HIS 322 Revolutionary America, HIS 325 African American History, HIS 326 A History of Women in America, HIS 335 United States Civil War

C. European History: Minimum of two courses, intermediate and upper-level courses, such as: HIS 285 Witches: A Literary and Cultural History, HIS 312 European Renaissance, HIS 350 World War I, HIS 353 Holocaust

D. Non-Western/Global History: Minimum of two courses, intermediate or upper-level courses, such as: HIS 315 Global Popular Culture Since 1945, HIS 352 U.S.-Vietnam War, HIS 354 Transatlantic Slave Trade, HIS 356 The Global Cold War, and HISx340 World Conflicts Since 1900 exam

E. Electives in the Discipline: Additional History courses, including excess courses from areas I, II, III, and IV: HIS 221 Introduction to Public History: Museums, Media, and the Material World, HIS 290 Pirates on the High Seas

F. Capstone Course: The History degree requires the completion of the Excelsior College capstone course, LA 498HIS History Capstone, with a grade of C or better. This course fulfills the research and writing and historiography requirements. The capstone course must be taken at Excelsior College and cannot be transferred in.
BACHELOR OF SCIENCE IN
HOMELAND SECURITY AND
EMERGENCY MANAGEMENT

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE COMPONENT

- HEM 125 Introduction to Homeland Security
- HEM 356 Emergency Management
- HEM 352 Domestic Terrorism
- CJ 410 Research Methods in Criminal Justice or BNS 303 Comparative National Security Analysis
- HEM 452 Security Planning & Assessment
- HEM 460 Infrastructure Security & Policy

HEM 498 Homeland Security and Emergency Management Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Homeland Security and Emergency Management prepares students for employment and advancement in homeland security and emergency management-related professions. This program focuses on first responders’ ability to coordinate activities effectively and efficiently across agency lines, governmental jurisdictions, and property boundaries.

Of the 120 credits for the Bachelor of Science in Homeland Security/Emergency Management, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Homeland Security/Emergency Management, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the core component.

Program Outcomes

Students who complete the Bachelor of Science in Homeland Security and Emergency Management will be able to:

- Characterize homeland security and emergency management interoperability.
- Analyze risks and threats within the context of homeland security and emergency management.
- Evaluate all hazard events impact on homeland security and emergency management policies, procedures, and planning.
- Scrutinize ethical issues in homeland security and emergency management and produce possible solutions.

Core Requirements

- HEM 125 Introduction to Homeland Security
- HEM 356 Emergency Management
- HEM 352 Domestic Terrorism
- CJ 410 Research Methods in Criminal Justice or BNS 303 Comparative National Security Analysis
- HEM 452 Security Planning & Assessment
- HEM 460 Infrastructure Security & Policy
- HEM 498 Capstone, a grade of C or better required

OPEN EMPHASIS

- Courses selected with assistance of academic advisor and approved by faculty program director.

Electives (3 credits)
BACHELOR OF SCIENCE IN
INFORMATION TECHNOLOGY

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor's degree programs.

DEGREE-SPECIFIC REQUIREMENTS
BUS 323 Business Ethics
Communications
Discrete Mathematics
At least one course from the following: Calculus I, Statistics and Probability, Quantitative Methods, Finite Math, or Mathematical Methods

Information Technology Component

CORE REQUIREMENTS
- IT 210 Object-oriented Programming
- IT 250 Business Data Communications
- IT 321 Computer Systems Architecture
- IT 360 Operating Systems
- IT 370 Database Management Systems
- IT 371 Web Design and Development
- IT 375 Human-Computer Interactive Design
- IT 380 Overview of Computer Security
- IT 390 Project Management
- IT 460 System Administration

CONCENTRATION REQUIREMENTS
One of the following concentrations must be declared.
- General
  15 credits in approved IT electives
- Cybersecurity Technology
  IT 406 Computer Forensics, CYS 426 Cyber Attacks and Defenses, CYS 455 Business Security and Continuity, CYS 403 Network and Application Security, CYS 401 Organizational Information
- Network Operations
  IT 422 Advanced Networking, IT 424 Network Operating Systems, IT 426 Wireless Technology, IT 428 Telecommunications Management, IT 430 Network Systems Design and Management

IT 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Information Technology program focuses on preparing students to stay at the forefront of the rapidly changing technical environment, and training students to be the leaders in the Information Technology field. To accomplish this goal, the program is centered on the fundamental concepts, skills, applications, and practices across a wide variety of information technology domains, including software and web development, computer systems, database management, data communication, information security, and project management. Built upon this core knowledge foundation, our program has identified two technical concentrations: Cybersecurity Technology, and Network Operations. These concentrations represent the high-demand job areas in the IT industry, and equip students with in-depth specialties in order for them to excel in the workplace. To allow students the flexibility to design a study plan that meets their career goals, a **General Option** concentration is also available, in which students can compile their own course milestones toward the degree.

Of the total 120 credits for the Bachelor of Science in Information Technology, 15 must be earned at the upper level in the technology component.

In addition to the necessary technical knowledge and skills, the strong liberal arts component of our program helps students maintain academic breadth and prepare students with quantitative, communication, and interpersonal skills, as well as with an awareness of business ethics and social responsibility. Our goal is to prepare students to be critical thinkers and problem solvers, and to become committed lifelong learners.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple, flexible pathways—offering course-based, direct assessment, and credit aggregation pathways to degree completion. In this way, the program is customizable and tailored to each student’s need and learning style.

**Specialized Accreditation/Recognition:** The Bachelor of Science in Information Technology is accredited by the Computing Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA).

Program Educational Objectives

As an Excelsior College bachelor’s-level information technology graduate, within a few years of graduation, you are expected to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the information technology discipline.
2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.
3. Demonstrate independent thinking, functioning effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.
4. Communicate effectively in a professional/industrial environment.
5. Perform ethically and professionally in business, industry, and society.
6. Demonstrate and utilize leadership principles in the field of information technology.

Program (Student) Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Information Technology program, the graduate will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

continued on next page
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to information technology.
6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.
7. Demonstrate expertise in the core information technologies, including human-computer interaction, information management, programming, web systems and technologies, networking, system administration and maintenance, and system integration and architecture.
8. Demonstrate the ability to analyze computing and information security requirements and risks, and apply the appropriate tools and techniques to protect organizational data assets in an ethically responsible manner.
9. Demonstrate the ability to apply best practices and standards for providing technology-based solutions.
10. Demonstrate the ability to identify and analyze the local, regional, and global impacts of information technologies and computing on public, organizations, and individuals.
11. Demonstrate a commitment to professional development and continue to engage in lifelong learning.

**Degree Requirements**

The Bachelor of Science in Information Technology requires 120 semester hours of credit distributed as follows:

- **60 credits** minimum required in the arts and sciences.
- **48 credits** minimum required in the information technology component with at least 15 credits at the upper level.
- **12 credits** required in the free elective component (to include information literacy).

**Arts and Sciences Component (60 credits)**

The Bachelor of Science in Information Technology requires a minimum of 60 credits in the arts and sciences distributed as follows:

**A. Humanities and Social Sciences**

At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:

1. Communications
   At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions]. Courses in speech, written composition, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirements.

2. Ethics
   At least 3 credits must be earned in ethics with a minimum grade of C [BUS 323 Business Ethics].

3. Humanities Electives
   At least 3 credits must be earned in humanities electives. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

4. Social Sciences/History
   At least 9 credits must be earned in such subjects as sociology, economics, history, psychology, and anthropology.
B. Natural Sciences/Mathematics
At least 12 credits must be earned in natural sciences/mathematics and include 3 credits in a natural science, a course in discrete mathematics [TECH 205 Discrete Structures], and one course from the following list:

1. Calculus I
   [TECH 201 Foundations of Technology Problem Solving I]
2. Statistics and Probability
   [BUS 233 Business Statistics,
    MAT 201 Statistics]
3. Quantitative Methods
   [BUS 430 Quantitative Methods]
4. Finite Math
5. Mathematical Logic
   Sample natural sciences subjects include biology, chemistry, geology, physics, and genetics.

C. Arts and Sciences Electives
At least 24 additional credits in any arts and sciences areas must be completed.

Information Technology Component
(48 credits)
The Bachelor of Science in Information Technology requires a grade of C or better for applicable credit, and a minimum of 48 credits in the area of information technology distributed as follows:

Core Requirements
The following core requirements must be met:

- Object-Oriented Programming
  [IT 210 Object-Oriented Programming]
- Data Communications and Networking
  [IT 250 Business Data Communications]
- Computer Systems Architecture
  [IT 321 Computer Systems Architecture]
- Operating Systems
  [IT 360 Operating Systems]
- Database Concepts
  [IT 370 Database Management Systems]
- Web Design and Development
  [IT 371 Web Design and Development]
- Human-Computer Interaction
  [IT 375 Human-Computer Interactive Design]
- Overview of Computer Security
  [IT 380 Overview of Computer Security]
- Project Management
  [IT 390 Project Management]
- System Administration
  [IT 460 System Administration]
- Integrated Technology Assessment Capstone
  [IT 495 Integrated Technology Assessment (capstone)]—The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

Level Requirement
Of the 48 credits required for the information technology component, at least 15 must be upper level. No upper-level credit is awarded for introductory coursework in computer languages. A course is generally considered upper level if it is offered at the junior or senior level and clearly not introductory in content. Courses taken at two-year institutions may not be used to satisfy upper-level requirements. The acceptance of coursework for credit toward the upper-level requirement is subject to faculty review.

Concentrations
One of the following concentrations must be declared. See below for specific requirements for each Information Technology concentration. A minimum of 15 credits is required for each concentration.

- Cybersecurity Technology
- General Option
- Network Operations

continued on next page
CYBERSECURITY TECHNOLOGY

The Cybersecurity Technology concentration focuses on providing broad coverage on the technical, operational, and legal dimensions of cybersecurity. Students of this concentration will attain a holistic view of implementing effective cybersecurity programs appropriate to the environment. The curriculum focuses on areas such as organizational, network, application security issues as well as penetration testing, incident response, and digital forensics. This will enable students to utilize a variety of cybersecurity tools and techniques in protecting information assets in organizations. The Cybersecurity Technology concentration will prepare students to pursue careers in cybersecurity in positions such as security analyst, security architect, IT security coordinator, data protection analyst, incident responder, or penetration tester. Upon successful completion of the Excelsior College Bachelor of Science in Information Technology with a concentration in Cybersecurity Technology, the learner will be able to:

1. Apply cybersecurity best practices in managing various computing environments comprised of heterogeneous devices and services.
2. Define and protect data assets in organizations by mitigating risks and integrating business continuity.
3. Identify and analyze the impact of large scale cybercrime incidents on international security and terrorism.

Concentration Requirements
Minimum of 15 credits
- Computer Forensics
  [IT 406 Computer Forensics]
- Cyber Attacks and Defenses
  [CYS 426 Cyber Attacks and Defenses]
- Business Continuity
  [CYS 455 Business Security and Continuity]
- Network and Application Security
  [CYS 403 Network and Application Security]
- Organizational Information Security
  [CYS 401 Organizational Information Security]

GENERAL OPTION

Recognizing that the Information Technology field is continuously evolving, the Bachelor of Science in Information Technology program offers the general option concentration. This customizable concentration provides flexibility in designing students’ area of focus in order to meet ever-changing job demands and also to build upon students’ current achievements. Students of this concentration can choose from approved IT electives to meet the degree requirements. Our course offerings cover a wide range of IT specialties, which help students stay competitive in today’s job market.

Concentration Requirements
- Approved IT Electives

NETWORK OPERATIONS

The Network Operations concentration focuses on providing students with the critical knowledge and skills in telecommunications and networking, and preparing students for careers including, but not limited to, network technician, network administrator, network engineer, and network architect. Our curriculum incorporates courses in network design and network project management, network operating systems and network administration, wireless systems, RFID technology, and network security, which is designed to guide students through the process of planning, designing, managing, and securing network and telecommunications systems. Upon successful completion of the Excelsior College Bachelor of Science in Information Technology with a Network Operation concentration, the student will be able to:

1. Apply advanced networking techniques and network operating system principles toward the operation of a robust network.
2. Integrate wireless technology solutions into the network infrastructure.
3. Apply telecommunication management principles into the management of networks.
Concentration Requirements
Minimum of 15 credits
- Advanced Networking
  [IT 422 Advanced Networking]
- Network Operating Systems
  [IT 424 Network Operating Systems]
- Wireless Technology
  [IT 426 Wireless Technology]
- Telecommunication Management
  [IT 428 Telecommunications Management]
- Network Systems Design and Management
  [IT 430 Network Systems Design and Management]

Free Elective Component (12 credits)
The Bachelor of Science in Information Technology allows room for up to 12 credits in free electives. Applied to this component is the 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 or visit our website for more information about information literacy.

You may earn the remaining 11 credits in any field of college study, including professional or technical subjects as well as in the arts and sciences.

A maximum of 2 credits in physical education activity courses may be applied to the degree.

Programming Language Cap
The College has placed a 9-credit cap on introductory programming language courses in the information technology component, which includes the following languages:
- JAVA
- PYTHON
- Visual Basic
- C
- C++
- C#

No upper-level credit is awarded for coursework in introductory computer languages.

Credit for Vendor Examinations
Excelsior College awards credit for certain examinations from vendors/professional organizations such as Cisco, CompTIA, (ISC)^2, Microsoft, and the Project Management Institute. Subject to faculty approval, you may apply up to 21 credits from vendor certification examinations toward the Information Technology Component of your degree; additional credits from such examinations may apply toward the Free Elective Component. Please contact an academic advisor about the possibility of receiving college-level credit toward your degree requirements.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of credits applied to the Information Technology Component of the Bachelor of Science in Information Technology. To meet this requirement, relevant coursework must have been completed more recently than 5 years prior to entrance into the Bachelor of Science in Information Technology degree program. Please note that course content in these areas is subject to faculty approval. The time limit may be appealed by completing an appeal form which verifies appropriate and current professional and/or academic experience.
Time Limit for Degree Completion

Excelsior College degree programs are designed, within limits, to be completed at a student’s own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Information Technology at the conclusion of 7 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 7-year degree completion time limit.

Course Materials Policy

The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY TO MASTER OF BUSINESS ADMINISTRATION DUAL DEGREE TRACK

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

BUS 323 Business Ethics

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS
Calculus I, Statistics and Probability, Quantitative Method, Finite Math, or Mathematical Logic
Economics
Discrete Math
BUS 311 Organizational Behavior
IT 210 Object Oriented Programming
IT 321 Computer Systems Architecture
IT 360 Operating Systems
IT 370 Database Concepts

Undergraduate-Level Concentration (Choose 21 credits, 9 upper level)
Cybersecurity Technology, Network Operations, or No Concentration

IT 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

BRIDGE REQUIREMENTS
BUS 502 Global Business Environment
BUS 570 Informational Technology

GRADUATE REQUIREMENTS

GRADUATE BUSINESS REQUIREMENTS
- BUS 500 Accounting for Managers
- BUS 505 Finance
- BUS 506 Marketing
- BUS 520 Operations Management
- BUS 530 Project Management Principles and Application
- BUS 552 Leadership

GRADUATE ELECTIVES OR OPTIONAL CONCENTRATION
Choose one of the following concentrations: Accounting, Health Care Management, Human Resource Management, Leadership, or No concentration

BUS 511 Strategy and Policy Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Information Technology to Master of Business Administration dual degree track requires a total of 150 credits. Students achieve graduate status by completing 60 credits in the arts and sciences component, 48 credits in the information technology component, and 6 credits in the additional credit component. The graduate phase requires a total of 36 graduate credits, including the bridge component and the graduate course component. Students receive the baccalaureate and graduate degrees after completion of the dual degree program in its entirety.

Of the total 120 credits for the Bachelor of Science in Information Technology, 15 must be earned at the upper level in the technology component.

The Bachelor of Science in Information Technology to Master of Business Administration dual degree program is designed to provide a streamlined path for learners to blend their technical skills with managerial skills. The dual degree track is designed with bridge components that enable learners to transition to the MBA program. The dual degree prepares learners to leverage their technical skills to pursue leadership and managerial positions in the industry.

Specialized Accreditation/Recognition: The Bachelor of Science in Information Technology is accredited by the Computing Accreditation Commission of ABET, www.abet.org. ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA). The Master of Business Administration is accredited by the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215.

Program Educational Objectives

As an bachelor's-level information technology graduate, within a few years of graduation, you are expected to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the information technology discipline.
2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.
3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.
4. Communicate effectively in a professional/industrial environment.
5. Perform ethically and professionally in business, industry, and society.
6. Demonstrate and utilize leadership principles in the field of information technology.

As an Excelsior College master's-level business graduate, within a few years of graduation, you are expected to:

2. Engage in lifelong learning for professional, career, and personal development.
3. Lead and work effectively and efficiently in diverse team settings and maintain a high level of performance in a professional business environment.
4. Communicate effectively and efficiently to various audiences in a timely and professional manner.
5. Demonstrate leadership and initiative to ethically advance organizational goals and objectives.
6. Demonstrate adaptability, leadership, mentoring skills, and management in one's chosen career.
Program (Student) Outcomes

Upon successful completion of the Bachelor of Science in Information Technology program, the graduate will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program’s discipline.
6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing based systems.
7. Demonstrate expertise in the core information technologies, including human-computer interaction, information management, programming, web systems and technologies, networking, system administration and maintenance, and system integration and architecture.
8. Demonstrate a commitment to professional development and to continue to engage lifelong learning.
9. Apply knowledge of computing and mathematics for problem solving in the field of information technology.
10. Demonstrate the ability to apply the appropriate tools and techniques to protect organizational data assets in an ethically responsible manner.
11. Demonstrate the ability to apply best practices and standards for information technology applications.
12. Demonstrate the ability to identify and analyze the local and global impacts of computing solutions on individuals, organizations, and society.

The Excelsior College MBA program is framed within a work-related global business setting to increase academic understanding of business topics, improve career prospects, and expand individual horizons. Students can capitalize upon their existing work-based knowledge while engaging in a process of reflective learning. This program will equip successful students to further their careers through enhanced knowledge, understanding, and application to the business environment.

Upon successful completion of the Excelsior College Master in Business Administration program, the graduate will be able to:

1. Prepare and deliver effective written and oral communications to shape organizational culture, resolve conflict, and relay information to diverse audiences.
2. Apply quantitative and qualitative business analysis techniques to solve problems and support management and strategic level decisions.
3. Demonstrate transformational leadership skills through the ability to set direction and work with multiple constituencies with divergent needs including ethical obligations and social responsibility.
4. Develop an action plan to continuously improve and update one’s knowledge and skills in strategic leadership.
5. Recognize problems in business settings and propose solutions with a team of colleagues.
6. Analyze complexity, interdependency, change and opportunities for organizations, including setting direction, aligning and motivating employees.
7. Appraise risk and develop entrepreneurial solutions for sustainable innovation that delivers economic and social value.
9. Analyze cultural differences and how these differences affect best practices in management.
10. Integrate empirical research and management theories for the purpose of strategic planning for profitability, including times of economic recession.
Dual Degree Track Requirements

Arts and Sciences Component (60 credits)

A. Humanities and Social Sciences
At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:

1. Communications
At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions]. Courses in speech, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirements.

2. Ethics
At least 3 credits must be earned in ethics [BUS 323 Business Ethics] with a minimum grade of C.

3. Humanities Electives
At least 3 credits must be earned in humanities electives. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

4. Social Sciences/History
3 credits must be earned in Organizational Behavior [BUS 311 Organizational Behavior], 3 credits must be earned in Economics [ECON 360 International Economics], and 3 credits must be earned in additional subjects such as sociology, economics, history, psychology, and anthropology. These serve as MBA foundation requirements and must be completed with an upper-level course with a grade of B or better within the last 10 years.

B. Natural Sciences/Mathematics
At least 12 credits must be earned in natural sciences/mathematics and include 3 credits in a natural science, a course in discrete mathematics [TECH 205 Discrete Structures], and one course from the following list:

1. Calculus I
[TECH 201 Foundations of Technology Problem Solving I]
2. Statistics and Probability
[BUS 233 Business Statistics, MAT 201 Statistics]
3. Quantitative Methods
[BUS 431 Business Data Analysis]
4. Finite Math
5. Mathematical Logic
6. Sample natural sciences subjects include biology, chemistry, geology, physics, and genetics.

C. Arts and Sciences Electives
At least 24 additional credits in any arts and sciences areas must be completed.

Information Technology Component (48 credits)

The Bachelor of Science in Information Technology requires a grade of C or better for applicable credit, and a minimum of 48 credits in the area of information technology distributed as follows:

A. IT Core Requirements:
The following core requirements must be met:

1. Object-Oriented Programming
[IT 210 Object Oriented Programming]
2. Data Communications and Networking
[IT 250 Business Data Communications]
3. Computer Systems Architecture
[IT 321 Computer Systems Architecture]
4. Operating Systems
[IT 360 Operating Systems]
5. Database Concepts
[IT 370 Database Management Systems]
6. Web Design and Development
[IT 371 Web Design and Development]
7. Human-Computer Interaction
[IT 375 Human-Computer Interactive Design]
8. Overview of Computer Security
[IT 380 Overview of Computer Security]
9. Project Management
[IT 390 Project Management]
10. System Administration
   [IT 460 System Administration]

11. Integrated Technology Assessment Capstone [IT 495 Integrated Technology Assessment (capstone)]—The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

B. Concentration Requirements:
   A concentration must be declared. A minimum of 15 credits is required for each concentration (see concentration requirements on page 111).

C. Approved IT Electives

Level Requirement
Of the 48 credits required for the information technology component, at least 15 must be upper level. No upper-level credit is awarded for introductory coursework in computer languages.

A course is generally considered upper level if it is offered at the junior or senior level and clearly is not introductory in content. Courses taken at two-year institutions may not be used to satisfy upper-level requirements. The acceptance of coursework for credit toward the upper-level requirement is subject to faculty review.

Free Elective Component (6 credits)

A. Information Literacy
   A minimum of 1 credit must be earned in information literacy. See the information literacy requirement explanation on page 8.

B. Any collegiate level study
   May include excess credits in the Arts and Sciences, Information Technology or any applied professional area.

Bridge Component
A grade of B or above is required.

A. Information Technology
   [BUS 570 Information Technology]

B. Global Business Environment
   [BUS 502 Global Business Environment]

Graduate Component

A. Accounting for Managers
   [BUS 500 Accounting for Managers]

B. Managerial Finance
   [BUS 505 Finance]

C. Marketing
   [BUS 506 Marketing]

D. Operations Management
   [BUS 520 Operations Management]

E. Project Management and Applications
   [BUS 530 Project Management Principles and Applications]

F. Leadership
   [BUS 552 Leadership]

G. Policy and Strategy (Capstone)
   [BUS 511 Strategy and Policy (capstone)]

H. 9 credits in Business Electives or Concentration (see concentration requirements on page 111).

Degree-Specific Policies

Programming Language Cap
The College has placed a 9-credit cap on introductory programming language courses in the information technology component, which includes the following languages:

- JAVA
- PYTHON
- Visual Basic
- C
- C++
- C#

No upper-level credit is awarded for coursework in introductory computer languages.
Credit for Vendor Examinations
Excelsior College awards credit for certain examinations from vendors/professional organizations such as Cisco, CompTIA, (ISC)², Microsoft, and the Project Management Institute. Subject to faculty approval, you may apply up to 21 credits from vendor certification examinations toward the Information Technology Component of your degree; additional credits from such examinations may apply toward the Free Elective Component. Please contact an academic advisor about the possibility of receiving college-level credit toward your degree requirements.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of credits applied to the Information Technology Component of the Bachelor of Science in Information Technology. To meet this requirement, relevant coursework must have been completed more recently than 5 years prior to entrance into the Bachelor of Science in Information Technology degree program. Please note that course content in these areas is subject to faculty approval. The time limit may be appealed by completing an appeal form which verifies appropriate and current professional and/or academic experience.

Time Limit for Degree Completion
Excelsior College degree programs are designed, within limits, to be completed at a student’s own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Information Technology at the conclusion of 7 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 7-year degree completion time limit.

Course Materials Policy
The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.

Policies Specific to the MBA
The Excelsior College Student Policy Handbook is your resource for understanding the academic and administrative policies that are important to your academic success. It includes a wide range of information from important federal policies, including your right to privacy, to grading policies and policies and procedures concerning refunds, withdrawals, and other administrative issues. It is your responsibility to be familiar with these policies.

Policies and procedures that apply specifically to the MBA program are listed on the following pages. File your handbook with this program catalog and your other important academic papers for easy reference.

Admissions Policy
Students with a bachelor’s degree from an accredited institution may be admitted into the Excelsior College MBA program. Students who have completed an undergraduate degree program outside the U.S. are required to submit transcripts of undergraduate and graduate work to Education Credential Evaluators Inc. (ECE). Evaluators will review your undergraduate degree program to verify that it is the equivalent to a bachelor’s-level degree in the United States. Students choosing to work with ECE should request that a Course by Course Report, indicating the completion of their bachelor’s degree, be conducted and forwarded to
Excelsior College. In addition, any graduate courses submitted for transfer require a Subject Analysis Report. More information about ECE is available on its website at ece.org/excelsior.

The GMAT is not required.

**Application Process**

You are required to apply for admission into the Excelsior College MBA program. Visit our website to apply. Please submit an official college transcript verifying completion of a baccalaureate degree along with official transcripts of any graduate-level study you wish to be considered for transfer toward the MBA requirements. Upon review of the transcripts and application, if qualified, you will receive an admittance letter.

**Acceptance of Transfer Credit**

Graduate-level coursework that has been completed within 10 years of the date of enrollment may be used to satisfy the requirements of the MBA program if approved by Excelsior College faculty. Students may transfer up to 24 credits. Excelsior College will require a minimum grade of B- for any approved graduate course accepted for transfer credit. Excelsior College does not use pluses or minuses, so such grades will be converted to the full letter grade. To accept a course that is transferring in with a P grade, the college/department/faculty member issuing the P grade must verify that it is equivalent to a B- or better. Waivers for foundation courses will apply toward the 24 credits allowed in transfer.

**Maximum Time to Complete the MBA Program**

Students pursuing the MBA have a maximum of 10 years from the date of enrollment to complete the program.

**Grade Point Average**

Excelsior College requires an overall 3.0 cumulative GPA for completion of the MBA. Refer to the Student Policy Handbook for complete information.
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY TO MASTER OF SCIENCE IN CYBERSECURITY DUAL DEGREE TRACK

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

BUS 323 Business Ethics

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS
Calculus I, Statistics and Probability, Quantitative Method, Finite Math, or Mathematical Logic
Discrete Math
IT 210 Object Oriented Programming
IT 321 Computer Systems Architecture
IT 360 Operating Systems
IT 370 Database Concepts
IT 250 Data Communications and Networking

Undergraduate Level Concentration (Choose 21 credits, 9 upper level)
Cybersecurity Technology, Network Operations, or No Concentration

IT 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

BRIDGE REQUIREMENTS
BUS 530 Project Management Principles and Applications
CYS 500 Foundations of Cybersecurity

GRADUATE REQUIREMENTS

GRADUATE CYBERSECURITY REQUIREMENTS
► CYS 504 Network and Communication Security
► CYS 541 Ethics, Legal, and Compliance Issues in Cybersecurity
► CYS 550 Leadership and Communications in Cybersecurity
► CYS 560 Information Assurance

CONCENTRATION REQUIREMENTS
One of the following concentrations must be declared.
► General
► Information Assurance

CYS 596 Capstone Project in Cybersecurity
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Information Technology to Master of Science in Cybersecurity dual degree track requires a total of 144 credits. The total amount of credits earned will vary depending on the concentration selected and the selection of graduate courses applied to baccalaureate concentration requirements. Students achieve graduate status by completing 60 credits in the arts and sciences component, 48 credits in the information technology component, and 6 credits in the additional credit component. The graduate phase requires a total of 30 graduate credits, including the bridge component and the graduate course component. Students receive the baccalaureate and graduate degrees after completion of the dual degree program in its entirety.

Of the total 120 credits for the Bachelor of Science in Information Technology, 15 must be earned at the upper level in the technology component.

This degree program is designed to provide a streamlined path for learners to obtain a solid foundation for a graduate degree in cybersecurity. The dual degree track is designed with a bridge component that enables learners to transition to the graduate degree program in cybersecurity. The dual degree track provides avenues for learners to leverage their knowledge and skills to pursue advanced career positions in cybersecurity through an effective and structured course plan.

Specialized Accreditation/Recognition: The Bachelor of Science in Information Technology is accredited by the Computing Accreditation Commission of ABET, www.abet.org. ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA).

Program Educational Objectives

As an Excelsior College bachelor’s-level information technology graduate, within a few years of graduation, you are expected to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the information technology discipline.

2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.

3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.

4. Communicate effectively in a professional/industrial environment.

5. Perform ethically and professionally in business, industry, and society.

6. Demonstrate and utilize leadership principles in the field of information technology.

Program (Student) Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Information Technology program, the graduate will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program’s discipline.

3. Communicate effectively in a variety of professional contexts.

4. Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.

5. Function effectively as a member or leader of a team engaged in activities appropriate to information technology.

6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.
7. Demonstrate expertise in the core information technologies, including human-computer interaction, information management, programming, web systems and technologies, networking, system administration and maintenance, and system integration and architecture.

8. Demonstrate the ability to analyze computing and information security requirements and risks, and apply the appropriate tools and techniques to protect organizational data assets in an ethically responsible manner.

9. Demonstrate the ability to apply best practices and standards for providing technology-based solutions.

10. Demonstrate the ability to identify and analyze the local, regional, and global impacts of information technologies and computing on individuals, organizations, and society.

11. Demonstrate a commitment to professional development and continue to engage in lifelong learning.

Upon successful completion of the Excelsior College Master of Science in Cybersecurity program, the graduate will be able to:

1. Continuously monitor, maintain, and enhance the protection of enterprise-wide information assets through effective industry accepted information management and risk management techniques.

2. Detect, analyze, and respond to cyber attacks on networks and computer systems.

3. Conduct risk and vulnerability assessments of existing and proposed information systems.

4. Utilize the best sources of information available related to cybersecurity issues, threats, and recovery.

5. Demonstrate the ability to understand professional, ethical, and social responsibility, including the effect of culture, diversity, and interpersonal relations.

6. Demonstrate proficiency in communicating technical information in formal reports, documentation, and oral presentations to users and information technology professionals.

7. Demonstrate a commitment to professional development and to continue to engage in lifelong learning.

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**Dual Degree Track Requirements**

**Arts and Sciences Component (60 credits)**

A. Humanities and Social Sciences
   At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:
   
   1. Communications
      At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions]. Courses in speech, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirements.

   2. Ethics
      At least 3 credits must be earned in ethics [BUS 323 Business Ethics] with a minimum grade of C.

   3. Humanities Electives
      At least 3 credits must be earned in humanities electives. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

   4. Social Sciences/History
      At least 9 credits must be earned in such subjects as sociology, economics, history, psychology, and anthropology.

B. Natural Sciences/Mathematics
   At least 12 credits must be earned in natural sciences/mathematics and include 3 credits in a natural science, a course in discrete mathematics [TECH 205 Discrete Structures], and one course from the following list:
   
   1. Calculus I
      [TECH 201 Foundations of Technology Problem Solving I]

   2. Statistics and Probability
      [BUS 233 Business Statistics, MAT 201 Statistics]

   3. Quantitative Methods
      [BUS 431 Business Data Analysis]
4. Finite Math
5. Mathematical Logic
Sample natural sciences subjects include biology, chemistry, geology, physics, and genetics.

C. Arts and Sciences Electives
At least 24 additional credits in any arts and sciences areas must be completed.

Information Technology Component
(48 credits)
The Bachelor of Science in Information Technology requires a grade of C or better for applicable credit, and a minimum of 48 credits in the area of information technology distributed as follows:

A. IT Core Requirements
The following core requirements must be met:
1. Object-Oriented Programming
   [IT 210 Object Oriented Programming]
2. Data Communications and Networking
   [IT 250 Business Data Communications]
3. Computer Systems Architecture
   [IT 321 Computer Systems Architecture]
4. Operating Systems
   [IT 360 Operating Systems]
5. Database Concepts
   [IT 370 Database Management Systems]
6. Web Design and Development
   [IT 371 Web Design and Development]
7. Human-Computer Interaction
   [IT 375 Human-Computer Interactive Design]
8. Overview of Computer Security
   [IT 380 Overview of Computer Security]
9. Project Management
   [IT 390 Project Management]
10. System Administration
    [IT 460 System Administration]
11. Integrated Technology Assessment Capstone
    [IT 495 Integrated Technology Assessment (capstone)]—The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

B. Concentration Requirements
A concentration must be declared. A minimum of 15 credits is required for each concentration (refer to concentration requirements on page 111).

C. Approved IT Electives

D. Level Requirement
Of the 48 credits required for the information technology component, at least 15 must be upper-level. No upper-level credit is awarded for introductory coursework in computer languages.

Free Elective Component (6 credits)
A. Information Literacy
A minimum of 1 credit must be earned in information literacy. See the information literacy requirement explanation on page 8.

B. Other College-Level Credit
A minimum of 5 (determined by concentration) credits must be earned in other college-level credit. This essentially is an elective area that can be fulfilled with additional arts and sciences credits or applied professional credits.

continued on next page
Graduate Phase
(Total graduate credits: 30)

Bridge Component
A grade of “B” or higher is required.
► Project Management
  [BUS 530 Project Management Principles and Applications]
► Foundations of Cybersecurity
  [CYS 500 Foundations of Cybersecurity]

Graduate Component
A. Communications and Network Security
   [CYS 504 Network and Communication Security]
B. Ethics, Legal, and Compliance Issues in Cybersecurity
   [CYS 541 Ethics, Legal, and Compliance Issues in Cybersecurity]
C. Leadership and Communications in Cybersecurity
   [CYS 550 Leadership and Communications in Cybersecurity]
D. Information Assurance
   [CYS 560 Information Assurance]
E. 9 credits in concentration
   [refer to the Graduate Catalog for concentration requirements for the Master of Science in Cybersecurity.]
F. Capstone Project in Cybersecurity
   [CYS 596 Capstone Project in Cybersecurity]
The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

Degree-Specific Policies

Programming Language Cap
The College has placed a 9-credit cap on introductory programming language courses in the information technology component, which includes the following languages:
► JAVA
► PYTHON
► Visual Basic
► C
► C++
► C#

No upper-level credit is awarded for coursework in introductory computer languages.

Credit for Vendor Examinations
Excelsior College awards credit for certain examinations from vendors/professional organizations such as Cisco, CompTIA, (ISC)², Microsoft, and the Project Management Institute. Subject to faculty approval, you may apply up to 21 credits from vendor certification examinations toward the Information Technology Component of your degree; additional credits from such examinations may apply toward the Free Elective Component. Please contact an academic advisor about the possibility of receiving college-level credit toward your degree requirements.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of credits applied to the Information Technology Component of the Bachelor of Science in Information Technology. To meet this requirement, relevant coursework must have been completed more recently than 5 years prior to entrance into the Bachelor of Science in Information Technology degree.
program. Please note that course content in these areas is subject to faculty approval. The time limit may be appealed by completing an appeal form which verifies appropriate and current professional and/or academic experience.

**Time Limit for Degree Completion**

Excelsior College degree programs are designed, within limits, to be completed at a student’s own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Information Technology at the conclusion of 7 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 7-year degree completion time limit.

Please refer to the Graduate Catalog for degree-specific policies for the MS in Cybersecurity.

**Course Materials Policy**

The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.
BACHELOR OF SCIENCE IN
LIBERAL ARTS

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

OPTIONAL CONCENTRATION REQUIREMENTS

- **Logistics Operations Management** (18 credits, with 9 upper level)
  BUS 381 Transportation, Warehousing and Distribution, BUS 440 Supply Chain Management, BUS 443 Lean Logistics, Additional Credits in: Procurement, Purchasing, Inventory Management, Operations Management, Project Management, Quality Control and other related courses as approved.

- **Population Health** (18 credits, with 9 upper level)

- **Professional and Technical Writing**
  One introductory applied professional writing course such as ENG 202 Business Writing, Five courses in Professional Writing (15 upper/advanced level credits). The LA498PTW Professional and Technical Writing Capstone must be taken for this Concentration.

LA 498 Liberal Arts Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

LA 498JS Judaic Studies Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

LA 498PTW Professional and Technical Writing Capstone
(must be taken for the Professional and Technical Writing concentration)
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

Students in the Bachelor’s in Liberal Arts degrees explore the full breadth of the arts and sciences while demonstrating competency in critical 21st century skills most desired by employers. The degree programs stress intellectual development and multidisciplinary exploration of the critical issues and values inherent in the human experience, equipping students for career advancement or graduate school options. Students who choose to pursue the general liberal arts degrees do not specialize; rather, they select from a vast menu of courses that prompt students to ask questions about themselves, their history, their culture, their values, and their future and to consider whether a liberal education can, perhaps, release us from preconceived notions and unexamined attitudes. The general Liberal Arts degrees are popular with our students because they offer the most flexible approach to degree completion using many different credit sources. They are an excellent choice for students who would like to investigate multiple opportunities while developing the skills and background necessary for a personally, socially, and professionally fulfilling life.

Of a total of 120 degree credits, Bachelor of Science students must complete 60 credits in the arts and sciences. The remaining credits may be a combination of applied professional and additional arts and sciences. At least 30 of the degree credits must be at the upper level, 21 of which must be in the Arts and Sciences. Degree depths in two different disciplines are required for either degree, ensuring exposure to a variety of subject areas and allowing students to explore thematic areas of study that connect disciplines in a meaningful way. Students may complete an optional Area of Focus by taking 21 or more credits in a single discipline. Structured concentrations in Population Health, Logistics Operations Management, or Professional and Technical Writing may be especially attractive to students with a military, allied health, or corporate or industry background or ambitions.

Upper level credit requirements for the concentrations are 18 in Population Health, 9 in Logistics and Operations Management, and 9 in Professional and Technical Writing.

Degree Requirements

Arts and Sciences (60 credits)

Required credits are distributed as follows:

A. Written English Requirement: 6 credits (minimum grade of C required)

B. General Education Requirement:
   27-credit minimum of which 9 credits are required in each of the three distribution areas: humanities, social sciences/history, and natural sciences/mathematics. Of the 27 total general education requirement credits, 3 credits must satisfy the humanities requirement (your ethics course may complete the humanities requirement), 2 credits must be in college-level mathematics, and 2 credits must be in the natural sciences.

C. Capstone Requirement: 3 credits
   This requirement may be satisfied by completion of one of our two capstone courses: LA 498 or LA 498JS (dedicated for the Judaic Studies students in the BAL/BSL program), or, for student with a Concentration in Professional and Technical Writing, LA498PTW. This requirement must be satisfied at Excelsior College and cannot be transferred in. A grade of C or better is required to pass the capstone requirement. Contact your academic advisor to discuss the appropriate capstone course for your degree.

D. Additional Arts and Science Electives
   24 credits in arts and sciences courses of your choosing.

E. Depth Requirement
   A minimum of 15 credits is required of which at least 6 must be at the upper level in each depth area. The first depth must be in an arts and sciences discipline. The second may be in an applied professional area. A minimum 2.0 GPA is required.
Other Requirements (60 credits)

Required credits are distributed as follows:

- **Information Literacy Requirement**: 1 credit
- **Applied Professional and/or Additional Arts and Sciences Credits**: 59 credits
- **Optional Area of Focus**: A minimum of 21 credits is required in a single arts and sciences or applied professional discipline, of which 6 credits must be upper level. An area of focus may be used to satisfy a depth requirement; a minimum 2.0 GPA is required.

Concentrations (Optional)

**POPULATION HEALTH**

The Population Health concentration is designed for students who want to enhance their skills for career advancement or career change and who want to add a credential to their BSL degree. It was designed for students who have earned college-level credit and have experience in health care (e.g., those with military training and experience in a medical related field), but have not yet earned a degree. This program is designed to optimize use of existing credits and provide an array of course choices in the concentration so that students can align their studies with their professional goals. You will be prepared to enter the workforce as a care manager, care coordinator, program coordinator or health program manager. The concentration requires 18 credits of coursework. All credits for the degree can be transferred in except for a 3-credit capstone requirement, which must be met by completion of an Excelsior College course.

In addition to the BS degree outcomes, Population Health students will demonstrate the following concentration outcomes:

1. Analyze the impact of various population health issues on individuals, families, and communities.
2. Explain population health concerns and intervention strategies in terms of conceptual models and theoretical frameworks.

A minimum of 18 credits and a 2.0 GPA are required. The concentration will complete the second depth requirement.

**LOGISTICS OPERATIONS MANAGEMENT**

The Logistics Operations Management concentration is designed for students who want to enhance their skills for career advancement and who want to add a credential to their BS degree. The concentration requires 18 credits of coursework. All credits for the degree can be transferred in except for a 3-credit capstone requirement, which must be met by completion of an Excelsior College course.

In addition to the BS degree outcomes, Logistics Operations Management students will demonstrate the following concentration outcomes:

1. Solve inventory control, facilities planning, warehousing, and distribution problems.
2. Analyze logistics, supply chain, and project management operations.
3. Prioritize cost reduction, risk, and maximized profits for logistics operations.
4. Integrate multidimensional methods to solve logistics problems.
5. Evaluate the design and implementation of supply chain systems.

A minimum of 18 credits and a 2.0 GPA are required. All professional Logistics courses must be taken within 15 years of enrollment. The concentration will complete the second depth requirement.
The concentration in professional and technical writing will give you the knowledge you need to compete for jobs or promotions in positions with titles such as copy editor, communications director, documentation manager, grant writer, medical writer, and technical writer.

By working in teams on some of your course projects, you will also develop collaborative writing skills that are especially useful in these roles. It will provide you with knowledge of subjects such as business communication, digital literacy, grant writing, health science writing, multimedia design, print and electronic publishing, publication production and management, rhetorical theory and usability testing. The concentration requires 21 credits of coursework, including a 3 credit capstone course.

In addition to the BS degree outcomes, Professional and Technical Writing concentration students will demonstrate the following outcomes:

1. compose clear, concise and accurate communications using a variety of media for abroad audience of stakeholders or readers; and
2. demonstrate appropriate composing and revision strategies based on collaboration with stakeholders.

A minimum of 18 credits (15 at the upper level) and a 2.0 GPA are required. All professional writing courses must be taken within 10 years of enrollment.

The concentration will complete the second depth requirement.
BACHELOR OF SCIENCE IN MILITARY LEADERSHIP

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

MIL 312 Military Leadership: Skills for the 21st Century
BNS 301 National Security Ethics and Diversity
POL 351 War and Peace after the Cold War
MIL 301 Great Military Leaders

Military History and/or Politics

Application of Leadership

Military Intelligence, National Security, Diplomacy, Foreign Affairs, Culture, Terrorism, or Counterterrorism

Electives: Two courses (6 credits)

MIL 498 Military Studies Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Military Leadership major exposes students to relevant theories of military leadership and leaders throughout history and explores the diplomatic, information, military, economic, political, and social aspects of conflict and war. Students are encouraged to leverage their existing skills to examine military leadership in various contexts and to compare traditional and modern leader styles throughout history and across the globe. The program addresses ethical and international relations aspects of leadership and creates an environment where students can improve their abilities to think critically, be agile and adaptive, and hone their decision-making skills. This program is not only designed for active-duty military but it can also apply to those who aren’t in the military and may be considering it or even those students who aspire to be leaders in government or the private sector.

Of the 120 credits for the Bachelor of Science in Military Leadership, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Military Leadership, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the core component.

Program Outcomes

Students who complete the major in Military Leadership will be able to:

- Analyze the application of military leadership in full spectrum operations;
- Evaluate the role of DIME in military operations (diplomatic, information, military, economics, cultural/social);
- Evaluate decision-making in an ethical dilemma;
- Assess military leadership during conflict and peace-time operations;
- Critique strategic leadership characteristics within a global-geopolitical environment.

Core Requirements

A. MIL 312 Military Leadership: Skills for the 21st Century
B. BNS 301 National Security Ethics and Diversity
C. POL 351 War and Peace After the Cold War
D. MIL 301 Great Military Leaders
E. MIL 498 Military Leadership Capstone, a grade of C or better required.

Intermediate/Advanced Requirements

Six (6) credits or two courses in each of the following areas:

A. Military History or Politics such as:
   MIL 230 US Military History, CJ 328
   Crimes Against Humanity, HIS 352 U.S.-Vietnam War, HIS 356 Global Cold War,
   HIS 350 World War I, POL 221 Causes of War
B. The Application of Leadership such as:
   BUS 311 Organizational Behavior (examination also available), COMM 324 Conflict Management,
   PSY 420 Human Motivation
C. Six (6) credits or two courses from any of the following areas:
   1. Military Intelligence/National Security such as:
      BNS 101 Introduction to National Security, BNS 303 Comparative National Security,
      CJ 355 Analyzing Intelligence, Terrorism, and National Security,
      CJ 356 Emergency Management, CJ 460 Infrastructure Security and Policy
   2. Diplomacy/Foreign Affairs/Culture such as:
      BNS 303 Comparative National Security, POL 363 Order and Disorder in the Middle East and North Africa,
      POL 390 The Rise of China and the Pacific Century, Advanced-level foreign language credit, Defense Language Institute or Defense Language Proficiency Exams, applies to this area.
   3. Terrorism/Counterterrorism such as:
      CJ 350 International Terrorism, CJ 352 Domestic Terrorism,
      CJ 450 Counterterrorism, CJ 458 Unconventional Weapons Preparation and Response
BACHELOR OF SCIENCE IN NATURAL SCIENCES

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE REQUIREMENTS

- MAT 201 Statistics or Calculus
- BIO 110 Biology and BIO 111 Biology Laboratory
- CHE 101 Chemistry or course in the Physical Sciences

CONCENTRATION OPTIONS

- Without Concentration
- Biology Concentration

LA 498NS Natural Science Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
**Program Description**

A degree in the natural sciences provides breadth of knowledge and experience across disciplines such as astronomy, biology, chemistry, earth sciences, and physics. Integrating knowledge in the natural sciences is supported by laboratory studies, where one learns procedures and techniques necessary to acquire and analyze data. This degree is designed and appropriate for those students seeking a multidisciplinary foundation with the option to pursue depth of inquiry in specific areas. It is excellent preparation for further study or careers in medical sales, science-related business, environmental science, or the legal professions.

Of the 120 credits for the Bachelor of Science in Natural Sciences, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Natural Sciences, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the concentration.

All science courses must have been completed more recently than 10 years prior to entrance into the degree program. Speak with your advisor for details.

**Program Outcomes**

Students who successfully complete the bachelor’s degree in natural sciences will be able to:

1. Compare and contrast key theories, principles, and processes of at least two disciplines in the natural sciences.
2. Demonstrate the ability to integrate scientific methods of inquiry and data analysis, and communicate findings.
3. Analyze quantitative and qualitative research data and make evidence-based conclusions.
4. Use an interdisciplinary approach to address ethical issues raised by modern science and technology.
5. Apply an interdisciplinary scientific approach to solve complex contemporary global issues.

**Core Requirements**

A. A course in statistics or calculus such as: MAT 201 Statistics, MATx150 Calculus exam, MATx210 Statistics exam

B. One introductory-level course in biology with laboratory component such as: BIO 110 Biology (Non-Lab), BIO 111 Biology Laboratory

C. One introductory course in the physical sciences with or without a laboratory component such as: CHE 101 General Chemistry I and CHE 101L General Chemistry Laboratory I, GEOL 108 Earth Science and Society, GEOL 114 Introduction to Oceanography, NS 115 Introduction to Astronomy, PHYS 201 Physics I, PHYS 202 Physics Laboratory I, PHYS 203 Physics II, PHYS 204 Physics Laboratory II, PHYx140 Physics exam

D. Natural Sciences Capstone

The natural sciences degree requires the completion of the Excelsior College capstone course, LA 498NS Natural Sciences Capstone, with a grade of C or better. The capstone course must be taken at Excelsior College and cannot be transferred in.
Concentrations

WITHOUT CONCENTRATION

At least one course in A or B must be an upper-level laboratory course or include an upper-level lab as part of the course.

A. Select three (3) or more courses from one natural/physical science discipline.

B. Select two (2) or more courses from a second natural/physical science discipline.

C. Electives in natural/physical sciences.

D. Students may choose courses for A, B and C such as: BIO 212 Microbiology, BIO 275 Bioethics, BIO 300 Advanced Investigations in Biology, BIO 320 Evolutionary Biology, BIO 340 Biodiversity, BIO 360 Developmental Biology, BIO 404 Ecology, BIO 412 Plant Anatomy, CHE 101 General Chemistry I, CHE 101L General Chemistry Laboratory I, GEOL 108 Earth Science and Society, GEOL 114 Introduction to Oceanography, PHYS 110 Introduction to Astronomy, PHYS 201 Physics I, PHYS 202 Physics Laboratory I, PHYS 203 Physics II, BIOx210 Anatomy and Physiology exam, BIOx220 Microbiology exam, BIOx410 Pathophysiology exam, PHYx140 Physics exam, PHYS 204 Physics Laboratory II, PSY 380 Biopsychology

BIOLOGY CONCENTRATION

Outcomes for the Biology Concentration

Students who complete the concentration in biology will be able to:

1. Describe basic biological concepts and theories by synthesizing and analyzing appropriate biological research reports.

2. Explain and describe biological processes including current information and theories.

3. Describe the origins and importance of biodiversity.

Concentration Requirements

A. A course in Evolutionary Biology (or equivalent) such as: BIO 320 Evolutionary Biology

B. A course in Biodiversity or Ecology (or equivalent) such as: BIO 340 Biodiversity, BIO 404 Ecology

C. Select one course from at least three different areas. At least one course must be an upper-level laboratory course or include an upper-level laboratory as part of the course.

1. Anatomy and Physiology, Comparative Anatomy, Human Anatomy or Vertebrate Physiology such as: HSC 105 Anatomy and Physiology (Non-Lab), BIOx210 Anatomy and Physiology exam

2. Botany or Plant Science such as: BIO 412 Plant Anatomy

3. Genetics such as: SHS 260/BIO 260 Genetics

4. Cell/Microbiology such as: BIO 212 Microbiology, BIOx220 Microbiology exam

D. Electives in Biology such as: BIO 275 Bioethics, BIO 300 Advanced Investigations in Biology, BIO 360 Developmental Biology, HSC 280 Biology of Health and Disease, PSY 380 Biopsychology, BIOx410 Pathophysiology exam
BACHELOR OF SCIENCE IN
NATIONAL SECURITY

120
CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS
BNS 101 Introduction to National Security
BNS 301 National Security Ethics and Diversity
POL 351 War & Peace after Cold War or
POL 363 Order & Disorder in the Middle East and North Africa
BNS 303 Comparative National Security Analysis

CONCENTRATION OPTIONS
► Topics in National Security
► Intelligence & Security Analysis

BNS 498 National Security Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science National Security (BSNS) major prepares students for employment and advancement in the diverse and complicated national security arena. The program is designed to serve government employees who are in the military, or are serving the Nation in the State, Agriculture, Commerce, Education, or Energy Departments, or Veterans Affairs, to name a few. National security is an interagency responsibility and this interdisciplinary and flexible major (33 credits) will provide a broad education to enhance students ability to analyze the national security posture of the United States, assess national security in the global context, and apply the instruments of power for strategic advantage. By analyzing case studies, real-world scenarios, and ethical dilemmas, students will address national security at all levels. Learners will evaluate, create, and revise policy; they will research topics, analyze arguments, synthesize their own ideas, and substantiate arguments; they will explore concepts of the global security structure of the 21st century and America’s strategic posture in the global environment. This is the degree you should pursue to grow as a national security professional. The BSNS major has two concentrations: one in Intelligence and one titled Topics. The Topics concentration provides students with infinite possibilities to build a program that meets their individual and professional needs.

Of the 120 credits for the Bachelor of Science in National Security, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of National Security, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the major.

Program Outcomes

Students who successfully complete the Bachelor of Science in National Security will be able to:

- Describe the interdisciplinary character of national security (e.g., history, political science, public administration, social sciences/history, psychology, economics, military leadership, and cybersecurity).
- Examine the instruments of power (e.g., diplomatic, information, military, economic, social) and how nation-states leverage each for strategic advantage in a competitive international environment.
- Explain how the U.S. and other nations create, evaluate, and revise national security strategy and policies.
- Analyze the ethical issues surrounding the field of national security and develop solutions to solve them.
- Assess the national security posture of the United States.

Core Requirements

A. BNS 101 Introduction to National Security
B. BNS 301 National Security Ethics and Diversity
C. POL 351 War and Peace After the Cold War, POL 363 Order and Disorder in the Middle East and North Africa
D. BNS 303 Comparative National Security Analysis
E. BNS 498 National Security Capstone, must be completed with a grade of C or better.

Concentrations

18 credits in one of the following areas:

TOPICS IN NATIONAL SECURITY

Courses selected with assistance of academic advisor and approved by faculty program director.

INTELLIGENCE AND SECURITY ANALYSIS

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING TECHNOLOGY

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

BUS 323 Business Ethics

DEGREE-SPECIFIC REQUIREMENTS

Communications

Natural Sciences
Physics I and II with at least one lab, Chemistry with lab and Atomic Physics, Nuclear Physics, and Thermodynamics (CHE 101 and CHE 101L, PHYS 201 and 203 Physics I and II, PHYS 202 and 204 Physics Lab I and II, NUC 204 Atomic and Nuclear Physics, NUC 245 Thermodynamics)

Mathematics
12 credits at the level of College algebra or above, including Calculus I and II (TECH 201 and 202 Foundations of Technology Problem Solving I and II)

NUCLEAR ENGINEERING TECHNOLOGY COMPONENT CORE REQUIREMENTS

- ELEC 152 and 153 Circuit Theory I and II or NUC 255 Electrical Theory
- IT 221 Introduction to Computers
- NUC 271 Fundamentals of Reactor Safety
- NUC 323 Material Science
- NUC 210 Health Physics and Radiation Protection
- NUC 211 Radiation Measurement Lab
- NUC 350 Plant Systems Overview
- NUC 330 Reactor Core Fundamentals
- NUC 250 Introduction to Heat Transfer and Fluid Mechanics

CONCENTRATION REQUIREMENTS

- General
  Up to 15 credits in Free Electives

- Nuclear Leadership

- Nuclear Cybersecurity

IT 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The Bachelor of Science in Nuclear Engineering Technology program focuses on preparing students for technical positions in the nuclear industry. The program is designed specifically to advance job skills by ensuring a breadth of knowledge in nuclear engineering technology concepts. The program emphasizes the practical applications of engineering technology principles related to the nuclear industry. The program provides students with knowledge in areas such as reactor operations, health physics, quality assurance, chemistry, and instrumentation and control related to the nuclear engineering technology field. The goal of the degree program is to foster the ability of students to apply what they have learned to the real-world contexts of the nuclear industry.

Student progress within the degree program is based on the demonstration of proficiency, and is attainable through multiple, flexible pathways — offering course-based, prior learning assessment, and credit aggregation pathways to degree completion. In this way, the program is customizable and tailored to each student’s need and learning style.

Of the total 124 credits for the Bachelor of Science in Nuclear Engineering Technology, 16 must be earned at the upper level in the technology component.

The three concentrations are: General Option, Nuclear Cybersecurity, and Nuclear Leadership.

Specialized Accreditation/Recognition: The Bachelor of Science in Nuclear Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org. ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA).

Program Educational Objectives

As an Excelsior College bachelor’s level nuclear engineering technology graduate, within a few years of graduation, you are expected to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the nuclear discipline, including understanding and addressing the societal and institutional issues related to nuclear technology.
2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.
3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.
4. Communicate effectively in a professional/industrial environment, including communicating effectively to stakeholders external to the nuclear industry.
5. Perform ethically and professionally in business, industry, and society.
6. Demonstrate and utilize leadership principles in the field of nuclear engineering technology.

Program (Student) Outcomes

Upon successful completion of the Excelsior College Bachelor of Science in Nuclear Engineering Technology program, the graduate will be able to:

1. Select and apply appropriate knowledge, techniques, skills, and modern tools of the natural sciences, including physics, chemistry, thermodynamics, atomic physics, and nuclear physics to solving problems in nuclear engineering technology areas.
2. Demonstrate the ability to understand, measure, and provide quantitative expressions for natural phenomena, including observation, standard tests, experimentation, and accurate measurement.
3. Select and apply appropriate knowledge, techniques, skills, and modern tools of algebra, trigonometry, and calculus to
solving problems in nuclear engineering technology areas.

4. Make oral technical presentations in Standard English using graphics and language appropriate to the audience.

5. Demonstrate proficiency in the written and graphical communication of technical information supported by appropriate technical references using Standard English.

6. Demonstrate a working knowledge of computer applications or documentation of the use of one or more computer software packages for technical problem solving appropriate to the nuclear engineering technology discipline.

7. Demonstrate technical competency in the electrical theory, nuclear and engineering materials, reactor core fundamentals, power plant systems, heat transfer, fluids, health physics/radiation protection, and radiation measurement.

8. Demonstrate comprehension of currently applicable rules and regulations in the areas of radiation protection, operations, maintenance, quality control, quality assurance, and safety.

9. Integrate and apply knowledge of the functional areas of nuclear engineering technology to the safe operation and maintenance of nuclear systems.

10. Design systems, components, or processes while demonstrating a commitment to quality, timeliness, and continuous improvement of the design and operation of nuclear systems.

11. Participate effectively as a member or a leader of technical teams

12. Demonstrate an understanding of and commitment to professional, ethical, and social responsibilities, including the effects of culture, diversity, and interpersonal relations.

13. Demonstrate a commitment and ability to engage in self-directed continuing professional development.

Degree Requirements
The Bachelor of Science in Nuclear Engineering Technology requires 124 semester hours of credit distributed as follows:

- **60 credits** minimum required in the arts and sciences component
- **48 credits** minimum required in the nuclear engineering technology component
- **16 credits** required in the concentration or free elective component (to include information literacy)

Arts and Sciences Component (60 credits)
This distribution requirement ensures basic college-level competence in three arts and sciences areas: humanities, social sciences/history, and natural sciences/mathematics.

A. Humanities and Social Sciences
At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:

1. Communications
   At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions, TECH 200 Technical Writing]. Courses in speech, written composition, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirement.

2. Ethics
   At least 3 credits must be earned in ethics with a minimum grade of C. [BUS 323 Business Ethics].

3. Humanities Elective
   At least 3 credits must be earned in a humanities elective. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

4. Social Sciences/History
   At least 9 credits must be earned in such subjects as sociology, economics, history, psychology, and anthropology.
B. Mathematics and Natural Sciences
Students are required to complete at least 26 semester hours of credit in the combined areas of mathematics and natural sciences, with at least 12 credit hours in math at the level of college algebra or above, including Calculus I and II [TECH 201–202 Foundations of Technology Problem Solving I and II].

There is no minimum credit hour requirement for natural sciences. Rather, students must complete specific required courses in the natural sciences:

1. Chemistry (with lab)
   [CHE 101L General Chemistry Laboratory I]
2. Physics I and II (with at least one physics lab)
   [PHYS 201, 203 Physics I and II, PHYS 202, 204 Physics Laboratory I and II]
3. Atomic Physics
   [NUC 240 Atomic and Nuclear Physics]
   (also satisfies Nuclear Physics)
4. Nuclear Physics
   [NUC 240 Atomic and Nuclear Physics]
   (also satisfies Atomic Physics)
5. Thermodynamics
   [NUC 245 Thermodynamics]

C. Arts and Sciences Electives
The remaining 10 credits needed to satisfy the 60-credit requirement may be earned in any arts and sciences subjects.

Nuclear Engineering Technology Component (48 credits)

A. Core Requirements
The nuclear engineering technology component ensures basic college-level competence in the major functional areas of nuclear engineering technology. A grade of C or better is required for applicable credit.

The following core requirements must be completed:

1. Electrical Theory
   [ELEC 152–153 Circuit Theory I and II]
   (Both courses must be completed.)
   OR
   [NUC 255 Electrical Theory]
2. Computer Applications
   [IT 221 Introduction to Computers]
3. Fundamentals of Reactor Safety
   [NUC 271 Fundamentals of Reactor Safety]
4. Material Science
   [NUC 323 Material Science]
5. Health Physics/Radiation Protection
   [NUC 210 Health Physics and Radiation Protection]
6. Radiation Measurement Lab
   [NUC 211 Radiation Measurement Lab]
7. Plant Systems Overview
   [NUC 350 Plant Systems Overview]
8. Reactor Core Fundamentals
   [NUC 330 Reactor Core Fundamentals]
9. Fluids
   [NUC 250 Introduction to Heat Transfer and Fluid Mechanics]
   (Also satisfies Heat Transfer)
10. Heat Transfer
    [NUC 250 Introduction to Heat Transfer and Fluid Mechanics]
    (also satisfies Fluids)
11. Integrated Technology Assessment (capstone)
    [NUC 495 Integrated Technology Assessment] — The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

B. Nuclear Engineering Technology Electives
You may apply electives from nuclear and related subject areas toward completion of the 48-credit requirement of the technology component. Sample titles include Instruments and Controls, Reactor Safety, Quality Assurance Regulations, Radiation Biology, Radiochemistry, Radiation Waste Processing, and others, as approved. Be sure to contact your academic advisor for approval before registering for courses.
C. Laboratory Requirement
Your bachelor’s degree program must include a minimum of five laboratories. Three of these must be in physics, chemistry, and radiation measurement. The remaining two may be in the natural sciences or in nuclear engineering technology subjects.

D. Level Requirement
Of the 48 credits required for the nuclear engineering technology component, at least 16 must be upper level. A course is generally considered upper level if it is offered at the junior or senior level and is clearly not introductory in content. Courses taken at two-year institutions cannot be used to satisfy upper-level requirements. Upper-level credit is not given for Navy Enlisted Ratings or military service school courses with the exception of those offered by the Navy Nuclear Power School. The acceptance of courses toward the upper-level requirement is subject to faculty review.

A grade of “C” or higher is needed for all core requirements.

Concentration or Free Elective Component (16 credits)
One of the following concentrations must be declared. See below for specific requirements for each Nuclear Engineering Technology concentration. A minimum of 16 credits is required for each concentration.

-General Concentration
-Nuclear Cybersecurity
-Nuclear Leadership

GENERAL CONCENTRATION
The General Concentration allows room for up to 16 credits in free electives. These credits may be earned in any field of college study, including professional or technical subjects as well as in the arts and sciences. A maximum of 2 credits in physical education activity courses may be applied to the degree.

Information Literacy Requirement
Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 for more information about information literacy.

NUCLEAR CYBERSECURITY
With the rising number of cybersecurity threats on our nation’s infrastructure, the Cybersecurity Technology concentration is designed to enable students to earn a bachelor’s degree that focuses on cybersecurity within the nuclear industry. The concentration emphasizes the concepts associated with governance, legal, and compliance of cybersecurity pertaining to the nuclear industry. With completion of this degree, students will gain foundational knowledge of cybersecurity, the impacts of cyber attacks on nuclear facilities, and preparing them for cybersecurity positions in the nuclear industry. The cybersecurity concentration will prepare students for a variety of positions in engineering technology and security.

Upon successful completion of the Excelsior College Bachelor of Science in Nuclear Engineering Technology with a Cybersecurity concentration, the student will be able to:

1. Assess security risk and vulnerability of existing and proposed information systems in the nuclear industry.
2. Explain incident response handling, incident coordination, and ethical and legal issues.
3. Assess the effect of cyber attacks in the nuclear industry and the impact on nuclear facilities.
4. Utilize the best sources of information available related to cybersecurity issues, threats, and recovery.

Concentration Requirements
Minimum of 16 credits.

- Computer Security
  [IT 380 Overview of Computer Security]
- Governance, Legal, and Compliance
  [CYS 260 Governance, Legal, and Compliance]
- Cybersecurity Defense
  [CYS 350 Cybersecurity Defense in Depth for the Nuclear Industry]
- Business Continuity
  [CYS 455 Business Continuity]
- Cybersecurity Investigation
  [CYS 465 Cybersecurity Investigation and Case Studies for the Nuclear Industry]
- Information Literacy Requirement
  Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 for more information about information literacy.

NUCLEAR LEADERSHIP
The Bachelor of Science in Nuclear Engineering Technology—Nuclear Leadership concentration is designed to prepare students to earn a bachelor’s degree related to nuclear engineering technology with an emphasis on nuclear leadership. The concentration emphasizes leadership topics such as business leadership, organizational behavior, change management, leadership communications, and leadership courage/risk management. The nuclear leadership concentration will prepare students for a variety of leadership positions in the nuclear industry.

Upon successful completion of the Excelsior College Bachelor of Science in Nuclear Engineering Technology with a Nuclear Leadership concentration, the student will be able to:

1. Apply strategies in effective leadership, diverse work environments, and resolving conflicts.
2. Demonstrate an understanding of ethical and unethical leadership behaviors in regard to the nuclear industry.
3. Explain the roles of leaders in leading change, risk management, and communicating effectively in the nuclear industry.
4. Summarize leadership challenges in the nuclear industry including risk management perspectives.
5. Integrate leadership theories to improve an organization’s behaviors and organizational standards in support of management priorities.

Concentration Requirements
Minimum of 16 credits.

- Organizational Behavior
  [BUS 311 Organizational Behavior]
- Business Leadership
  [BUS 452 Business Leadership]
- [NUC 280 Leading Change in the Nuclear Industry]
- [NUC 285 Leadership Communication in the Nuclear Industry]
- [NUC 360 Nuclear Leadership—Leadership Courage/Risk Management]
- Information Literacy Requirement
  Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See page 8 for more information about information literacy.

continued on next page
Degree-Specific Policies
Policies and procedures that apply specifically to the Bachelor of Science in Nuclear Engineering Technology follow. Refer to your Student Policy Handbook for academic and administrative policies that apply to all students and programs.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of certain subject areas meeting requirements in the Bachelor of Science in Nuclear Engineering Technology. The following subject areas must have been completed more recently than 10 years prior to entrance into the Bachelor of Science in Nuclear Engineering Technology degree program: calculus I, calculus II, natural science, computers, nuclear engineering technology, and electrical/electronics (except DC and AC Circuits). Please note that course content in these areas is subject to faculty approval. The time limit may be appealed with verification of relevant and current coursework or continuous employment in the nuclear industry (Navy, Government, or Commercial).

Navy personnel who are currently active in the nuclear field may be exempt from submitting the Time Limit Appeal if their current Joint Services Transcript lists any of the following ratings: Electrician’s Mate, Nuclear Power—EMN, Electronics Technician, Nuclear Power—ETN, or Machinist’s Mate, Nuclear Power—MMN. The Time Limit Appeal will be waived for credit earned from Navy Nuclear Power School, Prototype School, and other related military training. Any other credit will require an appeal per the policy stated above.

Time Limit for Degree Completion
Excelsior College degree programs are designed, within limits, to be completed at a student's own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Nuclear Engineering Technology at the conclusion of 10 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 10-year degree completion time limit.

Course Materials Policy
The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.
Credit for the National Registry of Radiation Protection Technologists (NRRPT)\(^1\)

The American Council on Education (ACE) College Credit Recommendation Service recommends the awarding of between 24 and 30 college credits for members accepted to the National Registry of Radiation Protection Technologists (NRRPT) from November 1978 to the present. Excelsior College recognizes the credit recommendations of the ACE College Credit Recommendation Service.

The Excelsior College faculty has reviewed the ACE credit recommendation toward the nuclear engineering technology requirement and will award 6 or 8 upper level credits toward the health physics/radiation protection requirement, depending on when the credit was earned. The remaining credits will be applied toward the nuclear engineering technology electives. Credit will be awarded upon receipt of official documentation from the NRRPT.

Credits from Training Programs Completed at United States Nuclear Power Plants That Are Accredited by the National Academy for Nuclear Training (NANT)\(^1\)

The Excelsior College Nuclear Engineering Technology Faculty evaluated several of the standardized training programs at nuclear power facilities that are accredited by NANT. The 10 utility training programs that have been evaluated for college credit are:

- Shift Technical Advisor
- Senior Reactor Operator
- Reactor Operator
- Non-licensed Operator
- Engineering Support Personnel
- Radiation Protection Technician
- Chemistry Technician
- Electrical Maintenance Technician
- Instrumentation and Controls Technician
- Mechanical Maintenance Technician

Students may earn between 24 and 52 credits, depending on the utility training program completed. Contact a technology academic advisor for details.

Credits from Training Programs Completed at the United States Navy Nuclear Power School and Prototype\(^2\)

The Excelsior College Nuclear Engineering Technology Faculty evaluated several of the standardized training programs at the United States Navy Nuclear Power School and Prototype, and Excelsior College recognizes the credit recommendations of the ACE College Credit Recommendation Service. The standardized training programs that have been evaluated for college credit are:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Credit Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUCLEAR FIELD ‘A’ SCHOOL</strong></td>
<td></td>
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<tr>
<td>MM, January 2007–present</td>
<td>12–27 credits</td>
</tr>
<tr>
<td>EM and ET, January 2004–present</td>
<td></td>
</tr>
<tr>
<td><strong>NAVY NUCLEAR POWER SCHOOL</strong></td>
<td>32–34 credits</td>
</tr>
<tr>
<td>January 2007–present</td>
<td></td>
</tr>
<tr>
<td><strong>PROTOTYPE TRAINING</strong></td>
<td>15 credits</td>
</tr>
<tr>
<td>January 2007–present</td>
<td></td>
</tr>
</tbody>
</table>

Graduates of the United States Navy Nuclear Power School and Prototype may earn between 59 and 76 credits, depending on the specific training program completed. Contact a technology academic advisor for details.
GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

BUS 323 Business Ethics

UNDERGRADUATE DEGREE-SPECIFIC REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BUS 311 Organizational Behavior</td>
<td></td>
</tr>
<tr>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>12 credits in Math at the level of College algebra or above</td>
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<tr>
<td>Physics I and II with at least one lab</td>
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<tr>
<td>Chemistry with lab</td>
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<tr>
<td>Atomic Physics</td>
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<td>Nuclear Physics</td>
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<td>Thermodynamics</td>
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<tr>
<td>Electrical Theory</td>
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</table>

Undergraduate-Level Concentration (Choose 21 credits, 9 upper level)

NUC 495 Integrated Technology Assessment Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

BRIDGE REQUIREMENTS

<table>
<thead>
<tr>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BUS 502 Global Business Environment</td>
</tr>
<tr>
<td>BUS 570 Informational Technology</td>
</tr>
</tbody>
</table>

GRADUATE REQUIREMENTS

GRADUATE BUSINESS REQUIREMENTS

- BUS 500 Accounting for Managers
- BUS 505 Finance
- BUS 506 Marketing
- BUS 520 Operations Management
- BUS 552 Leadership
- BUS 530 Project Management Principles and Application

GRADUATE ELECTIVES OR OPTIONAL CONCENTRATION

Choose one of the following concentrations: Accounting, Health Care Management, Human Resource Management, Leadership, or No concentration

BUS 511 Strategy and Policy Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
**Program Description**

This dual degree track program allows students to complete the bachelor’s degree component to meet Bachelor of Science in Nuclear Engineering Technology requirements and then move forward to completion of the MBA. The program is framed to increase academic understanding of nuclear engineering technology topics, improve career prospects, and expand individual horizons. Students can capitalize upon their existing work-based knowledge while engaging in a process of reflective learning. This program will equip students to further their careers through enhanced knowledge, understanding, and application to the nuclear engineering and business environments.

Of the total 124 credits for the Bachelor of Science in Nuclear Engineering Technology, 16 must be earned at the upper level in the technology component.

A 6-credit bridge component consisting of subjects in business communications and global business environment completes the bachelor’s degree with the student then achieving graduate status. The student is then eligible to move on to complete the graduate course component consisting of subjects such as accounting for managers, human resources management, operations management, leadership, and change management.

**Specialized Accreditation/Recognition:** The Bachelor of Science in Nuclear Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). ABET is a specialized accrediting agency recognized by the Council for Higher Education Accreditation (CHEA). The Master of Business Administration is accredited by the International Accreditation Council for Business Education (IACBE), 11374 Strang Line Rd., Lenexa, KS 66215.

**Program Educational Outcomes**

As an Excelsior College baccalaureate-level nuclear engineering technology graduate you will be able to:

1. Apply general and discipline-specific concepts and methodologies to identify, analyze, and solve technical problems in the nuclear discipline, including understanding and addressing the societal and institutional issues related to nuclear technology.
2. Demonstrate an individual desire and commitment to remain technically current with, and adaptive to, changing technologies through continuous learning and self-improvement.
3. Demonstrate independent thinking, function effectively in team-oriented settings, and maintain a high level of performance in a professional/industrial environment.
4. Communicate effectively in a professional/industrial environment, including communicating effectively to stakeholders external to the nuclear industry.
5. Perform ethically and professionally in business, industry, and society.
6. Demonstrate and utilize leadership principles in the field of nuclear engineering technology.

**Program (Student) Outcomes**

We expect the graduate of an Excelsior College baccalaureate program in nuclear engineering technology will be able to:

1. Select and apply appropriate knowledge, techniques, skills, and modern tools of the natural sciences, including physics, chemistry, thermodynamics, atomic physics, and nuclear physics to solving problems in nuclear engineering technology areas.
2. Demonstrate the ability to understand, measure, and provide quantitative expressions for natural phenomena, including observation, standard tests, experimentation, and accurate measurement.
3. Select and apply appropriate knowledge, techniques, skills, and modern tools of algebra, trigonometry, and calculus to solving problems in nuclear engineering technology areas.
4. Make oral technical presentations in Standard English using graphics and language appropriate to the audience.
5. Demonstrate proficiency in the written and graphical communication of technical information supported by appropriate technical references using Standard English.
6. Demonstrate a working knowledge of computer applications or documentation of the use of one or more computer software packages for technical problem solving appropriate to the nuclear engineering technology discipline.

7. Demonstrate technical competency in the electrical theory, nuclear and engineering materials, reactor core fundamentals, power plant systems, heat transfer, fluids, health physics/radiation protection, and radiation measurement.

8. Demonstrate comprehension of currently applicable rules and regulations in the areas of radiation protection, operations, maintenance, quality control, quality assurance, and safety.

9. Integrate and apply knowledge of the functional areas of nuclear engineering technology to the safe operation and maintenance of nuclear systems.

10. Design systems, components, or processes while demonstrating a commitment to quality, timeliness, and continuous improvement of the design and operation of nuclear systems.

11. Participate effectively as a member or a leader of technical teams.

12. Demonstrate an understanding of and commitment to professional, ethical, and social responsibilities, including the effects of culture, diversity, and interpersonal relations.

13. Demonstrate a commitment and ability to engage in self-directed continuing professional development.

The Excelsior College MBA program is framed within a work-related global business setting to increase academic understanding of business topics, improve career prospects, and expand individual horizons. Students can capitalize upon their existing work-based knowledge while engaging in a process of reflective learning. This program will equip successful students to further their careers through enhanced knowledge, understanding, and application to the business environment.

Upon successful completion of the Excelsior College Master in Business Administration program, the graduate will be able to:

- Prepare and deliver effective written and oral communications to shape organizational culture, resolve conflict, and relay information to diverse audiences.
- Apply quantitative and qualitative business analysis techniques to solve problems and support management and strategic level decisions.
- Demonstrate transformational leadership skills through the ability to set direction and work with multiple constituencies with divergent needs including ethical obligations and social responsibility.
- Develop an action plan to continuously improve and update one’s knowledge and skills in strategic leadership.
- Recognize problems in business settings and propose solutions with a team of colleagues.
- Analyze complexity, interdependency, change and opportunities for organizations, including setting direction, aligning and motivating employees.
- Appraise risk and develop entrepreneurial solutions for sustainable innovation that delivers economic and social value.
- Evaluate how global environments impact changing business practice.
- Analyze cultural differences and how these differences affect best practices in management.
- Integrate empirical research and management theories for the purpose of strategic planning for profitability, including times of economic recession.

Dual Degree Track Requirements

Arts and Sciences Component (60 credits)

This distribution requirement ensures basic college-level competence in three arts and sciences areas: humanities, social sciences/history, and natural sciences/mathematics.

A. Humanities and Social Sciences

At least 24 credits must be earned in the humanities and social sciences and are distributed as follows:
1. Communications
At least 9 credits must be earned in communications courses, including 6 credits to satisfy the written English requirement [ENGx111 English Composition, ENG 101 English Composition, ENG 102 Composition II, ENG 201 Writing for the Professions, TECH 200 Technical Writing]. Courses in speech, written composition, technical writing, or similar courses in either written or oral communications are applicable toward the communications requirement.

2. Ethics
At least 3 credits must be earned in ethics [BUS 323 Business Ethics].

3. Humanities Elective
At least 3 credits must be earned in a humanities elective. Humanities subjects include, but are not limited to, advanced writing, literature, foreign languages, religion, philosophy, art, and music.

4. Social Sciences/History

5. A minimum of 3 credits must be earned in Economics [ECON 360 International Economics] and 3 credits in Organizational Behavior [BUS 311 Organizational Behavior]. These serve as MBA foundation requirements and must be completed with an upper-level course with a grade of B or better, and 3 credits must be earned in such subjects as sociology, economics, history, psychology, and anthropology.

B. Mathematics and Natural Sciences
Students are required to complete at least 26 semester hours of credit in the combined areas of mathematics and natural sciences, with at least 12 credit hours in math at the level of college algebra or above, including Calculus I and II [TECH 201–202 Foundations of Technology Problem Solving I and II].

There is no minimum credit hour requirement for natural sciences. Rather, students must complete specific required courses in the natural sciences:

1. Chemistry (with lab)
   [CHE 101L General Chemistry Laboratory I]

2. Physics I and II
   (with at least one physics lab) [PHYS 201, 203 Physics I and II, PHYS 202, 204 Physics Laboratory I and II]

3. Atomic Physics
   [NUC 240 Atomic and Nuclear Physics]
   (also satisfies Nuclear Physics)

4. Nuclear Physics
   [NUC 240 Atomic and Nuclear Physics]
   (also satisfies Atomic Physics)

5. Thermodynamics
   [NUC 245 Thermodynamics]

C. Arts and Sciences Electives
The 10 credits in Arts and Sciences Electives must include BUS 431 Business Data Analysis. This serves as an MBA foundation requirement and must be completed with an upper-level course with a grade of B or better.

Nuclear Engineering Technology Component (48 credits)

A. Core Requirement
The nuclear engineering technology component ensures basic college-level competence in the major functional areas of nuclear engineering technology. A grade of C or better is required for applicable credit.

The following core requirements must be completed:

1. Electrical Theory
   [ELEC 152–153 Circuit Theory I and II] (both courses must be completed), or [NUC 255 Electrical Theory]

2. Computer Applications
   [IT 221 Introduction to Computers]

3. Fundamentals of Reactor Safety
   [NUC 271 Fundamentals of Reactor Safety]

4. Material Science
   [NUC 323 Material Science]

5. Health Physics/Radiation Protection
   [NUC 210 Health Physics and Radiation Protection]

6. Radiation Measurement Lab
   [NUC 211 Radiation Measurement Lab]
6. Plant Systems Overview
   [NUC 350 Plant Systems Overview]

7. Reactor Core Fundamentals
   [NUC 330 Reactor Core Fundamentals]

8. Fluids
   [NUC 250 Introduction to Heat Transfer and Fluid Mechanics]
   (also satisfies Heat Transfer)

9. Heat Transfer
   [NUC 250 Introduction to Heat Transfer and Fluid Mechanics] (also satisfies Fluids)

10. Integrated Technology Assessment (capstone) [NUC 495 Integrated Technology Assessment]—The capstone course is required and must be taken through Excelsior College. It cannot be transferred in.

B. Nuclear Engineering Technology Electives
You may apply electives from nuclear and related subject areas toward completion of the 48-credit requirement of the technology component. Sample titles include Instruments and Controls, Reactor Safety, Quality Assurance Regulations, Radiation Biology, Radiochemistry, Radiation Waste Processing, and others, as approved. Be sure to contact your academic advisor for approval before registering for courses.

C. Laboratory Requirement
Your bachelor’s degree program must include a minimum of five laboratories. Three of these must be in physics, chemistry, and radiation measurement. The remaining two may be in the natural sciences or in nuclear engineering technology subjects.

D. Level Requirement
Of the 48 credits required for the nuclear engineering technology component, at least 16 must be upper level. A course is generally considered upper level if it is offered at the junior or senior level and is clearly not introductory in content. Courses taken at two-year institutions cannot be used to satisfy upper-level requirements. Upper-level credit is not given for Navy Enlisted Ratings or military service school courses with the exception of those offered by the Navy Nuclear Power School. The acceptance of courses toward the upper-level requirement is subject to faculty review.

Concentration or Free Elective Component (10 credits)
One of the following concentrations must be declared. See below for specific requirements for each Nuclear Engineering Technology concentration. The number of credits applied toward the Concentration or Free Elective Component depends on the concentration chosen.

- General Concentration
- Nuclear Cybersecurity
- Nuclear Leadership

GENERAL CONCENTRATION
The General concentration allows room for up to 10 credits in free electives. These credits may be earned in any field of college study, including professional or technical subjects as well as in the arts and sciences. A maximum of 2 credits in physical education activity courses may be applied to the degree.

- Information Literacy Requirement
  Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See the information literacy requirement explanation on page 8 for more information.

- Marketing Requirement
  [BUS 351 Marketing Concepts and Applications]

NUCLEAR CYBERSECURITY
With the rising number of cybersecurity threats on our nation’s infrastructure, the Cybersecurity Technology concentration is designed to enable students to earn a bachelor’s degree that focuses on cybersecurity within the nuclear industry. The concentration emphasizes the concepts associated with governance, legal, and compliance of cybersecurity pertaining to the nuclear industry.
With completion of this degree, students will gain foundational knowledge of cybersecurity, the impacts of cyber attacks on nuclear facilities, and preparing them for cybersecurity positions in the nuclear industry. The cybersecurity concentration will prepare students for a variety of positions in engineering technology and security.

Upon successful completion of the Bachelor of Science in Nuclear Engineering Technology with a Cybersecurity concentration, the student will be able to:

1. Assess security risk and vulnerability of existing and proposed information systems in the nuclear industry.
2. Explain incident response handling, incident coordination, and ethical and legal issues.
3. Assess the effect of cyber attacks in the nuclear industry and the impact on nuclear facilities.
4. Utilize the best sources of information available related to cybersecurity issues, threats, and recovery.

Concentration Requirements (13 credits)
Some requirements listed below will apply toward the technical electives in the Nuclear Engineering Technology Component.

- Computer Security
  [IT 380 Overview of Computer Security]
- Governance, Legal, and Compliance
  [CYS 260 Governance, Legal, and Compliance]
- Cybersecurity Defense
  [CYS 350 Cybersecurity Defense in Depth for the Nuclear Industry]
- Business Continuity
  [CYS 455 Business Continuity]
- Cybersecurity Investigation
  [CYS 465 Cybersecurity Investigation and Case Studies]
- Information Literacy Requirement
  Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See the information literacy requirement explanation on page 8.

- Marketing Requirement
  [BUS 351 Marketing Concepts and Applications]

NUCLEAR LEADERSHIP
The Nuclear Leadership concentration emphasizes leadership topics such as business leadership, organizational behavior, change management, leadership communications, and leadership courage/risk management. The nuclear leadership concentration will prepare students for a variety of leadership positions in the nuclear industry.

Upon successful completion of the Excelsior College Bachelor of Science in Nuclear Engineering Technology with a Nuclear Leadership concentration, the student will be able to:

1. Apply strategies in effective leadership, diverse work environments, and resolving conflicts.
2. Demonstrate an understanding of ethical and unethical leadership behaviors in regard to the nuclear industry.
3. Explain the roles of leaders in leading change, risk management, and communicating effectively in the nuclear industry.
4. Summarize leadership challenges in the nuclear industry including risk management perspectives.
5. Integrate leadership theories to improve an organization’s behaviors and organizational standards in support of management priorities.

Concentration Requirements (13 credits)
Some requirements listed below will apply toward the technical electives in the Arts and Sciences Component.

- Organizational Behavior
  [BUS 311 Organizational Behavior]
- Business Leadership
  [BUS 452 Business Leadership]
- [NUC 280 Leading Change in the Nuclear Industry]
- [NUC 285 Leadership Communication in the Nuclear Industry]
[NUC 360 Nuclear Leadership—Leadership Courage/Risk Management]

Information Literacy Requirement
Applied to this component is 1 credit for Excelsior College’s information literacy requirement [INL 102 Information Literacy]. See the information literacy requirement explanation on page 8.

Marketing Requirement
[BUS 351 Marketing Concepts and Applications]

Bridge Component (6 credits)

- Global Business Environment
  [BUS 502 Global Business Environment]
- Information Technology
  [BUS 570 Information Technology]

Graduate Component (36 credits)

- Accounting for Managers
  [BUS 500 Accounting for Managers]
- Managerial Finance
  [BUS 505 Finance]
- Marketing
  [BUS 506 Marketing]
- Operations Management
  [BUS 520 Operations Management]
- Project Management and Applications
  [BUS 530 Project Management Principles and Applications]
- Leadership
  [BUS 552 Leadership]
- Strategy and Policy (capstone)
  [BUS 511 Strategy and Policy] (capstone)
  The capstone course is required and must be taken through Excelsior College.
- 9 credits in Business Electives or Concentration (refer to the Graduate Catalog for concentration requirements).

Degree-Specific Policies
Policies and procedures that apply specifically to the Bachelor of Science in Nuclear Engineering Technology follow. Refer to your Student Policy Handbook for academic and administrative policies that apply to all students and programs.

Time Limit on Courses and Exams
Due to the rapidly changing nature of technology, Excelsior College has established a time-related restriction on the application of certain subject areas meeting requirements in the Bachelor of Science in Nuclear Engineering Technology. The following subject areas must have been completed more recently than 10 years prior to entrance into the Bachelor of Science in Nuclear Engineering Technology degree program: calculus I, calculus II, natural science, computers, nuclear engineering technology, and electrical/electronics (except DC and AC Circuits). Please note that course content in these areas is subject to faculty approval. The time limit may be appealed with verification of relevant and current coursework or continuous employment in the nuclear industry (Navy, Government, or Commercial).

Navy personnel who are currently active in the nuclear field may be exempt from submitting the Time Limit Appeal if their current Joint Services Transcript lists any of the following ratings: Electrician’s Mate, Nuclear Power—EMN, Electronics Technician, Nuclear Power—ETN, or Machinist’s Mate, Nuclear Power—MMN. The Time Limit Appeal will be waived for credit earned from Navy Nuclear Power School, Prototype School, and other related military training. Any other credit will require an appeal per the policy stated above.
Time Limit for Degree Completion

Excelsior College degree programs are designed, within limits, to be completed at a student's own pace. However, students must make continuous progress toward their academic goals. Students will be dismissed if they do not complete the Bachelor of Science in Nuclear Engineering Technology at the conclusion of 10 years from their entrance into the program. Students may seek an extension of the time limit by completing an appeal form, which will outline a plan for completion. Students must submit this appeal no less than one trimester before reaching the 10-year degree completion time limit.

Course Materials Policy

The faculty requires that students submit course materials for all math, science, and technology component courses taken outside of Excelsior College after enrollment in the program. Course materials should include graded homework, quizzes, tests, lab reports, papers, and other student work as appropriate. Course outlines/syllabi should be included as well. This material is required for curriculum review and accreditation purposes. Once we have received your transcript indicating completion of a course and the corresponding student work materials, credit for the course will be added to your evaluation.

Policies Specific to the MBA

The Excelsior College Student Policy Handbook is your resource for understanding the academic and administrative policies that are important to your academic success. It includes a wide range of information from important federal policies, including your right to privacy, to grading policies and policies and procedures concerning refunds, withdrawals, and other administrative issues. It is your responsibility to be familiar with these policies.

Policies and procedures that apply specifically to the MBA program are listed on the following pages. File your handbook with this program catalog and your other important academic papers for easy reference.

Admissions Policy

Students with a bachelor's degree from an accredited institution may be admitted into the Excelsior College MBA program. Students who have completed an undergraduate degree program outside the U.S. are required to submit transcripts of undergraduate and graduate work to Education Credential Evaluators Inc. (ECE). Evaluators will review your undergraduate degree program to verify that it is the equivalent to a bachelor's-level degree in the United States. Students choosing to work with ECE should request that a Course by Course Report, indicating the completion of their bachelor's degree, be conducted and forwarded to Excelsior College. In addition, any graduate courses submitted for transfer require a Subject Analysis Report. More information about ECE is available on its website at ece.org/excelsior.

The GMAT is not required.

Application Process

You are required to apply for admission into the Excelsior College MBA program. Visit our website at excelsior.edu/apply. Please submit an official college transcript verifying completion of a baccalaureate degree along with official transcripts of any graduate-level study you wish to be considered for transfer toward the MBA requirements. Upon review of the transcripts and application, if qualified, you will receive an admittance letter.

Acceptance of Transfer Credit

Graduate-level coursework that has been completed within 10 years of the date of enrollment may be used to satisfy the requirements of the MBA program if

continued on next page
approved by Excelsior College faculty. Students may transfer up to 24 credits. Excelsior College will require a minimum grade of B- for any approved graduate course accepted for transfer credit. Excelsior College does not use pluses or minuses, so such grades will be converted to the full letter grade. To accept a course that is transferring in with a P grade, the college/department/faculty member issuing the P grade must verify that it is equivalent to a B- or better. Waivers for foundation courses will apply toward the 24 credits allowed in transfer.

**Maximum Time to Complete the MBA Program**

Students pursuing the MBA have a maximum of 10 years from the date of enrollment to complete the program.

**Grade Point Average**

Excelsior College requires an overall 3.0 cumulative GPA for completion of the MBA. Refer to the Student Policy Handbook for complete information.

**Credit for the National Registry of Radiation Protection Technologists (NRRPT)**

The American Council on Education (ACE) College Credit Recommendation Service recommends the awarding of between 24 and 30 college credits for members accepted to the National Registry of Radiation Protection Technologists (NRRPT) from November 1978 to the present. Excelsior College recognizes the credit recommendations of the ACE College Credit Recommendation Service.

The Excelsior College faculty has reviewed the ACE credit recommendation toward the nuclear engineering technology requirement and will award 6 or 8 upper level credits toward the health physics/radiation protection requirement, depending on when the credit was earned. The remaining credits will be applied toward the nuclear engineering technology electives. Credit will be awarded upon receipt of official documentation from the NRRPT.

**Credits from Training Programs Completed at United States Nuclear Power Plants That Are Accredited by the National Academy for Nuclear Training (NANT)**

The Excelsior College Nuclear Engineering Technology Faculty evaluated several of the standardized training programs at nuclear power facilities that are accredited by NANT. The 10 utility training programs that have been evaluated for college credit are:

- Shift Technical Advisor
- Senior Reactor Operator
- Reactor Operator
- Non-licensed Operator
- Engineering Support Personnel
- Radiation Protection Technician
- Chemistry Technician
- Electrical Maintenance Technician
- Instrumentation and Controls Technician
- Mechanical Maintenance Technician

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① Students may earn between 24 and 52 credits, depending on the utility training program completed. Contact a technology academic advisor for details.
Credits from Training Programs Completed at the United States Navy Nuclear Power School and Prototype®

The Excelsior College Nuclear Engineering Technology Faculty evaluated several of the standardized training programs at the United States Navy Nuclear Power School and Prototype, and Excelsior College recognizes the credit recommendations of the ACE College Credit Recommendation Service. The standardized training programs that have been evaluated for college credit are:

<table>
<thead>
<tr>
<th>Program</th>
<th>Dates</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NUCLEAR FIELD 'A' SCHOOL</strong></td>
<td></td>
<td></td>
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<tr>
<td>MM, January 2007–present</td>
<td></td>
<td></td>
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<tr>
<td>EM and ET, January 2004–present</td>
<td></td>
<td>12–27 credits</td>
</tr>
<tr>
<td><strong>NAVY NUCLEAR POWER SCHOOL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 2007–present</td>
<td></td>
<td>32–34 credits</td>
</tr>
<tr>
<td><strong>PROTOTYPE TRAINING</strong></td>
<td></td>
<td></td>
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<tr>
<td>January 2007–present</td>
<td></td>
<td>15 credits</td>
</tr>
</tbody>
</table>

Graduates of the United States Navy Nuclear Power School and Prototype may earn between 59 and 76 credits, depending on the specific training program completed. Contact a technology academic advisor for details.
BACHELOR OF SCIENCE IN PSYCHOLOGY

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS

Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE COMPONENT

- PSY 101 Psychology
- MAT 201 Statistics
- PSY 300 Investigative Methods for Psychology
- PSY 440 History and Systems
- Biological and Physiological Foundations
- Developmental Perspectives
- Social Influences
- Abnormal Psychology
- Cognitive Bases
- Psychology electives

LA 498PSY Psychology Capstone

The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

Psychology is the study of behavior, thought, and feeling. It is a scientific field with broad application to human concerns. Full appreciation of its subject matter is gained through developing familiarity with a variety of perspectives, including biological, social, and cognitive origins of behavior. We encourage you to develop an understanding of the breadth of the discipline of psychology and to study some of its core concepts in depth. We recommend that you include in your degree plan either one course that is natural sciences-oriented or a sampling of courses that examine human behavior from the perspective of biology and natural sciences.

Of the 120 credits for the Bachelor of Science in Psychology, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Psychology, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the major.

Program Outcomes

Students who complete the degree in psychology will be able to:

1. Describe key concepts, principles, and overarching themes in psychology.
2. Use scientific reasoning to interpret psychological phenomena.
3. Apply ethical standards to evaluate psychological science and practice.
4. Exhibit effective presentation skills in a variety of media for different purposes.
5. Apply psychological content and skills to career goals.

Core Requirements

A. General Psychology/Introductory Psychology: PSY 101 Introduction to Psychology I
B. Statistics (psychological or equivalent): MAT 201 Statistics
C. Research Methods/Experimental Psychology/Experimental Design: PSY 300 Investigative Methods for Psychology, PSYx365 Research Methods in Psychology exam
D. History and Systems/History of Psychology/ Psychological Foundations: PSY 440 History and Systems

E. Psychology Capstone Course

The Psychology degree requires the completion of the Excelsior College capstone course LA 498PSY Psychology Capstone, with a grade of C or better. The capstone course must be taken at Excelsior College and cannot be transferred in.

Intermediate and Upper-Level Courses

In central knowledge areas or sub-disciplines of psychology, including a minimum of one course in each the five following areas:

A. Biological and Physiological Foundations—biopsychology, physiological psychology, animal behavior, comparative psychology, perception, sensation, neuroscience:
   PSY 380 Biopsychology
B. Developmental Perspectives—developmental/child psychology, human development, psychology of adolescence, adult development/aging, lifespan development, foundations of gerontology:
   PSY 235 Lifespan Developmental Psychology, PSYx210 Life Span Developmental Psychology exam, PSYx315 Psychology of Adulthood and Aging exam, SOCx310 Foundations of Gerontology exam

Contact your advisor to discuss avoiding duplication in the Developmental Perspectives area.

continued on next page
C. **Social Influences**—personality theory, social psychology, motivation, counseling theory and practice, group counseling, group dynamics:
   - PSY 220 Psychology of Personality,
   - PSY 360 Social Psychology, PSY 420 Human Motivation, PSYX325 Social Psychology exam

D. **Abnormal Psychology**—abnormal psychology, developmental disorders, psychopathology:
   - PSY 280 Abnormal Psychology, PSYX310 Abnormal Psychology exam

A psychology course in personality is strongly advised before taking a course in the abnormal psychology area.

E. **Cognitive Bases**—cognition, learning and/or memory, educational psychology, psycholinguistics, psychology of language, language development:
   - PSY 330 Educational Psychology,
   - PSY 340 Psychology of Learning

**Electives**

Additional psychology courses including advanced courses built on the foundation of the courses listed herein or within the following specialized areas: applied psychology, behavior modification, clinical methods, death and dying, exceptional children, human services, community psychology, industrial psychology/human factors, measurement (psychometrics), psychology of adjustment, psychology of disability, psychology of women, psychopharmacology, sex differences, sexuality/reproduction, states of consciousness, stress, substance abuse/rehabilitation, independent studies/research/advanced labs.

   - PSY 316 Mind, Body and Health, PSY 363 Psychology of Strategic Sales, PSY 364 Industrial/Organizational Psychology,
   - PSY 331 Psychosocial Impact of Chronic Illness on Person and Environment,
   - PSY 362 Psychology of Human Sexuality,
   - PSY 365 Psychology of Diversity, PSY 375 Forensic Psychology
BACHELOR OF SCIENCE IN
SOCIAL SCIENCES

120 CREDITS

GENERAL EDUCATION AND ADDITIONAL REQUIREMENTS
Refer to chart on page 40 for an overview of general education and distribution requirements for all bachelor’s degree programs.

Ethics

DEGREE-SPECIFIC REQUIREMENTS

CORE COMPONENT
- SOC 110 Introduction to Interdisciplinary Social Science
- SOC 319 Understanding Society: The Theories of Karl Marx, W.E.B. DuBois and Others or POL 320 Geopolitics of Energy and Global Climate Change
- SOC 465 Social Science Research

CONCENTRATION REQUIREMENTS
- Without Concentration
  Three or more courses in one social science discipline (choosing from sociology, political science, economics, anthropology, geography, history, psychology, or arts and science classified criminal justice)
  Two or more courses in a second social science discipline (choosing from sociology, political science, economics, anthropology, geography, history, psychology or arts and science classified criminal justice)
  Social science electives
- Human Services Concentration
  SOC 217 Introduction to Counseling and Case Management or SOC 230 Introduction to Human Services
  SOC 309 Ethics and Social Policy in Human Services or HSC 312 Ethics of Health Care
  One course from at least four different areas: Human Services Administration or Policy, Substance Abuse, Elder Care, Family, Child and Youth Services, Disability, or Human Services
  Applied Professional Credits
  Human Services Electives

LA 498SS Social Science Capstone
The Capstone course must be taken at Excelsior College and cannot be transferred in.

This chart shows degree specific requirements. These requirements will fit into total credits for the degree and will apply toward the overall credits listed on page 40. Once you are enrolled, the My Academic Planner tool will specify how credits (transfer and remaining) apply.
Program Description

The interdisciplinary social sciences degree melds research traditions and unique courses across the fields of psychology, sociology, political science, and economics to improve our understanding of important social issues. Interdisciplinary research and analysis is necessary because the scale of the dilemmas facing humanity has grown and finding effective solutions requires elements and insights from many disciplines. Social scientists analyze challenging social issues and policy problems using appropriate methods, seeking to identify and recommend solutions to affect change.

Of the 120 credits for the Bachelor of Science in Social Sciences, a total of 30 must be earned at the upper level (21 credits in the arts and sciences and 9 in electives). As part of these credits, for the core component of this degree, a minimum of 33 credits must be earned in the field of Social Sciences, of which 18 must be at the upper level. A minimum GPA of 2.0 is required in the major.

This degree may be completed without a concentration, or with the Human Services concentration.

Program Outcomes

Students who successfully complete the bachelor’s degree in Social Sciences will be able to:

1. Compare and contrast theories in at least two social science disciplines, such as economics, political science and/or sociology.
2. Apply appropriate social science theories and methodologies to do an in-depth analysis of an important question, issue, or problem.
3. Assess the validity and reliability of multiple sources of evidence in interdisciplinary social science research.
4. Evaluate research, related policies, and recommendations on a specific social policy problem, identifying trade-offs among ethical principles and societal considerations inherent in any policy decision.

Core Requirements

A. An introductory-level survey course in interdisciplinary social sciences such as: SOC 110 Introduction to Interdisciplinary Social Science

B. A course on theories of societal or economic organization such as: SOC 319 Understanding Society: The Theories of Karl Marx, W.E.B. DuBois and Others, POL 320 Geopolitics of Energy and Global Climate Change

Concentrations

WITHOUT CONCENTRATION

A. Three or more courses in one social science discipline (choosing from sociology, political science, economics, anthropology, geography, history, psychology, or arts and sciences classified criminal justice.)

B. Two or more courses in a second social science discipline (choosing from sociology, political science, economics, anthropology, geography, history, psychology, or arts and sciences classified criminal justice.)

C. Electives from the social sciences:

Students may choose courses from IIA and IIB such as: ECON 341 Globalization, ECON 360 International Economics, SOC 101 Introduction

HUMAN SERVICES CONCENTRATION

The Human Services concentration provides an academic foundation for social and human services professionals to work in their communities. A career in Human Services is rooted in one’s passion to serve and help those in need, improving the lives of fellow citizens and helping them through different types of adversity. The Human Services profession covers many different types of work, with service populations ranging from children to the elderly, and service settings that may occur in private counseling offices, group homes, community centers, other direct services locations such as veterans’ centers, or administrative offices. The educational foundation for this profession is necessarily interdisciplinary, and includes course content in counseling, administration, political science, psychology, and sociology, among other fields.

This background prepares graduates for the close professional work with individual clients, identifying their personal challenges, environment and support system, for example. It also prepares graduates for the administrative work of developing plans and coordinating services for clients, drawing on resources from governmental, non-profit, private and other organizations relevant to the individual client’s circumstances. Human Services professionals work as aides, advocates, case workers, case managers, counselors, liaisons, rehabilitation specialists, social workers, or program directors, among other professional titles. These community-based professionals support the delivery of social services to different service populations, including popular examples such as addictions counselors, child advocates, community support workers, mental health aides, case managers, crisis intervention counselors, life skills counselors, or elder care workers.

Outcome for the Human Services Concentration

Analyze and apply the appropriate ethical standards and social responsibilities of the human services profession to the delivery of human or community services.

A. Survey course in Human Services such as:
   SOC 217 Introduction to Counseling and Case Management, SOC 230 Introduction to Human Services

B. Ethics in Human Services such as:
   SOC 309 Ethics and Social Policy in Human Services, HSC 312 Ethics of Health Care. Ethics must be completed with a grade of C or better.

C. Select at least one course from at least four different areas:
   1. Human Services Administration or Policy such as:

2. Substance Abuse such as: SOC 221 Why We Overeat: Perspectives on Nutrition, SOC 240 Addictions in America, PBH 320 Substance Abuse-Impact on Individual, Family and Community, CJ 432 Drugs and Crime

3. Health Policy such as: HSC 330 Legal and Regulatory Environment on Health Care, HSC 404 Organizational Behavior in Health Care Environments, SOC 309 Ethics and Social Policy.

4. Elder Care such as: HSC 416 Introduction to Gerontology: Physical, Psychological and Social Aspects of Aging, PSYx315 Psychology of Adulthood and Aging exam, SOCX310 Foundations of Gerontology exam

5. Family, Child and Youth Services such as: SOC 201 Family, SOC 217 Introduction to Counseling and Case Management, CJ 301 Juvenile Delinquency and Justice, CJ 310 Family Law, CJ 436 Child Abuse and Neglect, PBH 342 Homelessness: Social and Health Perspectives, PSY 235 Lifespan Developmental Psychology, PSYx210 Lifespan Developmental Psychology exam, SOCX320 Juvenile Delinquency exam

6. Disability such as: HSC 331 Psychosocial Impact of Chronic Illness on Person and Environment, SOC 314 Sociology of Health and Illness

D. Human Services Electives such as:
   POL 311 Public Policy Issues, POL 320 Geopolitics of Energy and Climate Change, SOC 318 Sociology of the Workplace, SOC 323 Deviant Behavior
   HSC 320 Health Care Issues in Culturally Diverse Populations
UNDERGRADUATE COURSES AT EXCELSIOR COLLEGE
ACC 211 Financial Accounting 3 credits

Prerequisite: None

Have you ever wondered how to read a financial statement? Does your job require you to manage a budget? In this course, you will not only begin to understand what accounting means, but we will further examine how important accounting really is. You will not only learn and understand accounting principles and processes, but also examine how these can be applied in typical real-world contexts.

ACC 212 Managerial Accounting 3 credits

Suggested Prerequisite: ACC 211 Financial Accounting

This course is intended to help you develop an understanding of the process of identifying, measuring, analyzing, interpreting, and communicating information in pursuit of an organization’s goals. By the end of the course, you should be familiar with technical skills for solving problems such as the fundamentals of basic unit costs, cost flow management systems and processes, budgeting and performance measurement, and cost analysis and pricing decisions. As a manager, you should be able to identify relevant information, the appropriate methods for analyzing information, and working together with a team of addressing global and ethical issues. You will be able to think on your feet and address real-world business issues.

ACC 214 Intermediate Accounting I 3 credits

Suggested prerequisites: ACC 211 Financial Accounting (or equivalent) and ACC 212 Managerial Accounting (or equivalent)

This course expands on topics covered in previous accounting courses to provide an in-depth study and review of accounting principles, concepts and theory. Concepts addressed in this course focus on the conceptual framework, generally accepted accounting principles, preparation of financial statements, the time value of money, cash and receivables, accounting for inventory and inventory valuation.

ACC 315 Intermediate Accounting II 3 credits

Suggested Prerequisite: ACC 314 Intermediate Accounting I (or equivalent)

This course builds on accounting topics presented in Intermediate Accounting I to prepare students for a career in the accounting field. Topics in this course will address the proper accounting procedures for property, plant and equipment, investments, liabilities and contingencies, bonds and long-term notes, and leases. Upon completion of this course, students will have a substantial knowledge base in accounting methods, according to Generally Accepted Accounting Principles (GAAP).

ACC 360 Cost Accounting 3 credits

Prerequisite: None

A knowledge of the costs of a business can mean the difference between the long-term survival of the organization or business failure. An ability to understand and access costs is a vital prerequisite to long term growth and profitability. In this course, you will develop an understanding of cost behavior, systems, techniques, planning and control, relevant cost information for short-term decision-making and accounting data in long-term capital budgeting decisions.

ACC 370 Accounting Theory 3 credits

Suggested Prerequisite: ACC 211 Financial Accounting (or equivalent) and ACC 212 Managerial Accounting (or equivalent)

In this course, students gain an understanding of the theory and guidelines of accounting. A close examination of current accounting rules and literature is examined, while applying accounting research tools to current accounting issues. Other topics include theory and research of accounting questions related to inventory, fixed assets, leases, derivative instruments, debt, contingencies, segment reporting, pensions, business combinations, consolidations, and stockholder equity.
ACC 400 Auditing 3 credits
Prerequisites: Minimum of Financial Accounting and Managerial Accounting. It is preferred that the student has also completed Intermediate Accounting I and II.
This course is intended to help you understand the theory of auditing, including the educational and ethical qualifications for auditors, as well as the role of the auditor in the American economy. By the end of the course, you should be familiar with the professional standards, professional ethics, and the legal liability of auditors. As a manager, you should be able to effectively plan and design an audit program, gather and summarize evidence, and evaluate internal controls.

ACC 415/BUS 415 Advanced Financial Management 3 credits
Prerequisite: None
The financial well-being of individuals and families requires managers to weigh risk versus return, in making investment decisions for corporations. Financial skills are also applied in your personal life, as you accept a loan, save for retirement, or apply for a mortgage. This course is designed to strengthen your capacity to make complex financial decisions—to evaluate assets, investments, financing options, instruments, and opportunities.

ACC 417 Individual and Corporate Taxation 3 credits
Prerequisite: None
This course provides an understanding of the principles of federal income tax and its applications. It will identify and analyze federal tax issues to support the design of effective tax plans used to ensure tax compliance and improve financial decision-making. Upon completion of the course, students will be able to recognize and evaluate fundamental tax issues that affect both individuals and corporations.

ART 101 History Of Western Art: Ancient Through The 14th Century 3 credits
Prerequisite: None
We explore Western art from its earliest known forms, dating as far back as 30,000 BCE, to the beginnings of civilization in Mesopotamia and Egypt. We will look at the Mediterranean cultures of the ancient Aegean, Greece, and Rome and the religious visual expressions of the Middle Ages, including spectacular Gothic cathedrals. The course will help you see how art reflects culture through discussions, analytic writing, and an acquired familiarity with great specific examples from each period.

ART 102 History Of Western Art Since The 15th Century 3 credits
Prerequisite: None
This course is an overview of Western art from the time of the Renaissance to the early 20th century, covering painting, sculpture and architecture. Climb the ladder with Michelangelo to the heights of the Sistine Chapel. See how the artist and accused murderer Caravaggio creates virtual reality in Baroque painting. Experience the horror of the Middle Passage in J.M.W. Turner’s The Slave Ship or the pleasure of a French cafe through the eyes of Renoir. You will see how artworks reflect not only their cultural origins, but also their individual creators. You’ll become familiar with specific art examples from each period as well as the vocabulary and the skills necessary for art analysis.

BIO 105/HSC 105 Anatomy and Physiology I (Non Lab) 3 credits
Prerequisite: None
This course focuses on the structure and function of the human body. Topics and body systems that will be studied include: cells, blood, integumentary system, muscular system, nervous system, skeletal system and the endocrine system. This course is cross listed with HSC 105. Credit for only one of these courses will be applied toward graduation.

BIO 105L/HSC 105L Anatomy and Physiology I LAB 1 credit
Prerequisite: None
This is a laboratory course that utilizes simulations and hands-on experiments to study body systems that include: cells, blood, integumentary system, muscular system, nervous system, skeletal system and the endocrine system. Students use the scientific method in an experimental
environment, learn and use safe laboratory practices, perform dissections, perform experiments, gather and analyze data, and present data and conclusions in scientific laboratory reports.

**BIO 106/HSC 106**

**Anatomy and Physiology II (Non Lab)**  
3 credits

*Prerequisite: None*

This course focuses on the structure and function of the human body. Topics and body systems that will be studied include: concepts of human development, fluid and electrolyte balance, the cardiovascular system, respiratory system, digestive system, temperature and metabolism, urinary system and reproductive system.

This course is cross listed with HSC 105L. Credit for only one of these courses will be applied toward graduation.

**BIO 106L/HSC 106L**

**Anatomy and Physiology II Lab**  
1 credit

*Prerequisite: None*

This is a laboratory course that utilizes simulations and hands-on experiments to study body systems that include: temperature regulation and metabolism, fluid and electrolyte balance, digestive system, respiratory system, cardiovascular system, urinary system, the reproductive system, and human development and genetics. Students use the scientific method in an experimental environment, learn and use safe laboratory practices, perform dissections, perform experiments, gather and analyze data, and present data and conclusions in scientific laboratory reports.

This course is cross listed with HSC 106L. Credit for only one of these courses will be applied toward graduation.

**BIO 110 Biology (Non-Lab)**  
3 credits

*Prerequisite: None*

This comprehensive introductory course in biology, the study of life, will include four major units: cells, genetics, evolution, and ecology. The major themes of biology, including the relationship between structure and function, information flow, energy transformations, and evolution, will interwoven throughout the entire course. Each topic will include an explanation of the process of science and show the impact of biology on society. Furthermore, as you proceed through the course, you will practice communication and critical thinking skills useful in a wide variety of careers.

Students needing the laboratory experience concurrently should register independently for BIO 111 Biology Laboratory (1 credit)

**BIO 111 Biology Laboratory**  
1 credit

*Prerequisite: None*

A lab course that uses virtual lab experiments to introduce biology, scientific methods, biological chemistry, cells, energy for life, basic genetics, and biotechnology. Writing of laboratory reports introduces students to scientific literature.

**BIO 212 Microbiology**  
3 credits

*Suggested prerequisites: BIO 110 Biology, BIO 111 Biology Laboratory. Intro course in Chemistry highly recommended.*

In this comprehensive introductory course in microbiology, students are introduced to cellular microbes, such as bacteria, protists, fungi, and helminthes, and non-cellular microbes, such as viroids, viruses, and prions and how they are classified. In addition, students explore the impact of these microbes on the environment, human health, and society. Introduction to Microbiology covers the biological and biochemical foundations and scientific methods necessary to understand microbial growth and metabolism and provides a historical perspective by reviewing the major scientific contributions that led to modern-day microbiology.

**BIO 275 Bioethics**  
3 credits

*Suggested prerequisites: BIO 110 Biology or equivalent*

This course will introduce students to the basic concepts and principles of bioethics through critical thinking, writing, and discussing contemporary bioethical issues such as research
ethics, gender selection, artificial reproduction, cloning, stem cell research, end-of-life decision-making, and patient-family-doctor relationship. We will examine issues from as many sides as possible, taking into consideration people’s beliefs, choices, and actions. Through the work in this course, we hope to increase your knowledge and understanding of bioethical issues as they are encountered in daily life and enhance your ability to analyze these issues.

**BIO 300 Advanced Investigations in Biology** 3 credits

_Suggested prerequisites: BIO 110 Biology and BIO 111 Biology Laboratory or equivalent_

This course is a wide-ranging examination of advanced concepts, topics, and research methods in the biological sciences. Through virtual laboratory experiments, you explore topics including epidemiology, cardiac physiology, natural selection and evolution, and population genetics while you strengthen your analytical and writing skills with laboratory reports. It is strongly recommended that students have successfully completed at least an introductory course in biology prior to enrolling in this course.

**BIO 320 Evolutionary Biology** 3 credits

_Suggested prerequisites: BIO 110 Biology. Strongly recommended: Microbiology, Comparative Anatomy_

Evolutionary biology is a field within biology that focuses on evolutionary processes and patterns in the history of life that have given rise to all biological diversity on Earth. Evolution is a cornerstone of the biological sciences and serves as a unifying framework for all of its fields because it seeks to explain an organism’s traits using principles of random chance, history, and adaptation. This course will provide an analysis of the mechanisms of evolutionary change, the origin of species, the history of life, and the role of evolution in human society.

**BIO 340 Biodiversity** 3 credits

_Suggested prerequisites: BIO 110 Biology or equivalent_

Scientists have stated that we are experiencing the sixth mass extinction of biological diversity since the Earth formed and that we may well be in a new geological age, the Anthropocene Epoch. Through readings and numerous activities, this course examines the rise and fall of biological diversity over time through the study of ecology, evolution, and conservation biology. Topics include the meaning and value of biodiversity, major threats to species and ecosystems, and efforts to conserve, manage, and sustain biological diversity.

**BIO 360 Developmental Biology** 3 credits

_Suggested prerequisites: BIO 110 Biology_

Recent advances in molecular tools have allowed developmental biologists to explore the genetic mechanisms that result in the diversity found in nature. In this course you will learn about the development of living organisms from the gene to the ecosystem levels. You will also compare what happens when an organism is under an environmental stress and how this stress affects development. Finally, you will explore ethical considerations as we discuss classic model systems and along with some of the current research of developmental biology.

**BIO 404 Ecology** 3 credits

_Suggested prerequisites: BIO 110 Biology and BIO 111 Biology Laboratory, and either BIO 320 Evolutionary Biology, BIO 340 Biodiversity or equivalent courses_

Explores the diverse ways that individuals, populations, and species of plants and animals interact with their environments. Also examines, on a global scale, the factors that determine the diversity and distribution of wild plants and animals. Students explore the tremendous increase in the human population size and its effects on the Earth.
BIO 412 Plant Anatomy 3 credits

Suggested prerequisites: BIO 110 Biology, BIO 111 Biology Laboratory or equivalent

Explores the anatomy of vegetative and reproductive structures of angiosperms (flowering seed plants) through the microscopic study of prepared images. Also discusses the scientific techniques and tools scientists use to study plant anatomy and how these impact modern research. Students examine how structures of plant parts suit their functions.

BNS 101 Introduction To National Security 3 credits

Prerequisite: None

This course is situated at the intersection of American politics and international relations—its purpose is to examine the formulation and implementation of national security policy. In this process of our study we consider several distinct conceptual frameworks of policy formation, the actors involved in policymaking and the political—domestic and global—interactions that determine grand strategy and security politics in an advanced democracy. Specifically, we examine the international environment and the contemporary threat system, the authority granted by the Constitution to actors such as Congress, the Presidency and various executive department and agencies (Defense, Homeland Security, CIA, etc.) and the roles they fulfill in preserving national security and advancing the national interest.

BNS 301 National Security Ethics And Diversity 3 credits

Prerequisite: None

This course is a practical study of ethics in the National Security arena and examines the ethical issues facing individuals and institutions in and outside the government, nationally and internationally. Concepts and principles will be used throughout the course to give meaning to specific behaviors, but theory will be related to real-world applications. This course discusses some of the ethical dimensions of public service.

The principles addressed apply to behavior in all walks of life, but the focus of application will be on officials working in the national security area. This is a writing-enriched (WE) course. Students in WE courses write frequently, create multiple drafts of assignments, receive rich feedback from instructors, and share feedback with their classmates. The purpose of a WE course is to simultaneously allow students to master course content while practicing and acquiring writing skills necessary for success in careers and other college courses, including the capstone.

BNS 303 Comparative National Security Analysis 3 credits

Prerequisite: None

This course focuses on the complexities associated with the national interests and security of nations and non-state actors in international relations. Covering aspects of sociology, economics and practical analysis, the course comprises eight topical modules. It allows the student to become familiar with the underlying economic and sociological factors which compel nations and non-state actors to seek local and international partnerships or conflict. The course will benefit military and security operators as well as students of international relations, macro-economics and political science.

BNS 305 Cybersecurity In National Security 3 credits

Prerequisite: None

This course focuses on the emerging security issues that arise from an ever increasing presence of computers and computer enabled devices in the defense, intelligence, and economic fabric of modern life. This course examines the definitions of cybersecurity and cyber risk in a national security context in order to inform future leaders and practitioners of the opportunities and challenges of cyberspace. This course concentrates on the policy dimensions of cybersecurity rather than the technical aspects of network defense and attack. Issues of cybercrime, cyber espionage, cyber war, and cyber diplomacy will
be considered. Future leaders in national security must understand the possible approaches to cybersecurity and the impacts cyber policy can and will have on U.S. National Security as well as global security.

**BNS 307 Intelligence In National Security**  
3 credits  
*Prerequisite: None*  
This course focuses on the United States Intelligence Community and the processes to collect, analyze, and disseminate intelligence to national security policymakers. Students examine what intelligence is, the development of the Intelligence Community agencies, and the role each agency contributes to national security. Application of critical thinking is used to determine the methodology of conducting intelligence in a democracy in order to define what the Intelligence Community can, or cannot do. This course will benefit students interested in national security, military studies, international relations, and political science.

**BNS 498 National Security Capstone**  
3 credits  
*Prerequisite: The capstone course is restricted to students majoring in National Security with senior standing. Students must have completed all other required courses for the major, completed both the information literacy and written English requirements. Students must also be within 15 credits of degree completion and obtain advisor approval to register for this course.*  
This capstone seminar represents the culmination of your educational experience leading to a degree in National Security. Previous coursework has provided understanding of the complex and multidisciplinary field of national security affairs; including the structures and powers granted by the Constitution, the roles of government branches, departments and agencies and the role of the electorate. The topical focus of this seminar may vary according to semester and instructor—here, we examine the global context of American national security, including the enduring and emerging threats to security and the national interest, and the strategic challenges a democratic nation confronts in formulating a successful grand strategy that provides national security and enjoys the widespread support of American voters and public opinion.

**BUS 210 Writing In The Workplace**  
3 credits  
*Prerequisite: ENG 101 College Composition*  
The course focuses on designing effective workplace messages, both written and oral, from concept to delivery. Examines the strategic communication model to identify objectives, analyze audiences, choose information, and create the most effective arrangement and channel for that message. Explores the use of audiovisual and electronic tools in persuasive messages and group communication.

**BUS 222 Business Communication**  
3 credits  
*Prerequisite: None*  
The ability to communicate efficiently remains one of the most important skills that anyone intending on a career in business can master. Whether you are communicating in person, or using interpersonal communications using technology, the ability to convey your message clearly and effectively is paramount in any industry. By the end of this course, you will have developed and applied a range of business communications methods, both written and oral, and been exposed to best practices that you can utilize in the modern workplace.

**BUS 225 Consumer Behaviors**  
3 credits  
*Prerequisite: None*  
Why do some people have to be the first to buy the latest Apple iPhone? Why might lifestyle influence whether someone dines at Taco Bell? In this course we will answer questions such as these and also assess a range of factors, such as motivation, perception, learning, and the impact of demographics, family, and groups and examine their effect upon consumer behavior. You will also study consumer behavior from the perspective of businesses, such as Apple and Taco Bell, and see how they use that knowledge to develop new or existing products and also how that insight drives marketing strategy.”
BUS 230 Business Law 3 credits

Prerequisite: None

This course presents the analysis of key legal issues affecting businesses with an emphasis on development of legal strategies to support the venture over its expected life cycle. It focuses on the legal environment of the United States. Students examine a series of real world scenarios and apply the legal tools developed during the course to those cases.

BUS 233 Business Statistics 3 credits

Prerequisite: Prior to taking this course, students should have a working knowledge of High School Algebra and mathematical tools such as formulas in Microsoft Excel, TI-84 calculator, or some other equivalent. This course will not teach how to use these tools.

Develops skills in the essential tools used for statistical analysis and decision making in business. Covers descriptive and inferential statistics. Emphasizes research techniques such as sampling and experimental design concepts for single and multiple sample groups.

BUS 233 duplicates MAT 201 Statistics, MAT 215 Statistics for Health Care Professionals, and the Excelsior College Examination MATx210. Credit in only one of these courses/exams will be applied toward graduation.

BUS 235 Financial Markets And Institutions 3 credits

Prerequisite: None

This course studies the fundamental principles which govern global financial markets and institutions. Some topics include: characteristics of financial instruments and establishments, the Federal Reserve, monetary policy, the banking industry, and capital markets.

BUS 300 Introduction To Entrepreneurship 3 credits

Prerequisite: None

Why did Mark Zuckerberg start Facebook? What skills did Jeff Bezos need that helped him grow Amazon? In this course we are going to look at the skills necessary to be a successful entrepreneur and also the mindset needed to thrive when others fail. This practical course will give you a hands-on look at some of the skills, concepts, and strategies that help the entrepreneur to launch a successful start-up and sustain it through the early stages of growth.

BUS 302 Risk Management Concepts and Applications 3 credits

Suggested prerequisites: Pre-Calculus or higher, and Statistics

This course explores the basic concepts and principles of risk management as well as techniques for managing risk in the global business environment. Students will examine enterprise and financial risk management for corporations and loss forecasting and financial analysis for risk management decision making. Risk management technologies for dealing with potential losses will be emphasized. Additionally, students will develop an introductory understanding of the foundations, applications, and selection of insurance.
**BUS 305 Principles of Insurance** 3 credits  
*Suggested Prerequisite: BUS 302 Risk Management Concepts and Applications (or equivalent)*  
Insurance for a variety of business and personal risks is a significant cost to corporations and individuals. This course introduces students to principles, concepts, and applications for understanding health, life/casualty, and property insurance. Students will develop an understanding of terms and issues relating to premiums, deductibles, policy coverage/terms, risks, underwriting, and regulations. The course will prepare managers with the tools necessary to make effective and ethical decisions concerning their organization’s insurance programs.

**BUS 310 Entrepreneurial Marketing** 3 credits  
*Prerequisites: There are no formal prerequisite courses for BUS 310. Students intending to take BUS 310 should review the syllabi for BUS 300 and satisfy themselves that their prior course work and business experience would result in their being able to effectively absorb the material in BUS 310.*  
Roughly 8 out of 10 small businesses fail within the first year of trading and inadequate marketing is often cited as the main reason for that failure. We will look at marketing in the start-up phase of a business and consider the activities needed in the first two years of a company’s life. We will examine a range of marketing tools, such as PR, advertising, email, and assess best practice in terms of developing a successful marketing plan to increase the chances of success for the entrepreneur and the start-up business.

**BUS 311 Organizational Behavior** 3 credits  
*Prerequisite: ENG 101 College Composition*  
This course offers an overview of human behavior in work organizations. It examines theoretical, empirical, and applications issues from individual, interpersonal, group, and organizational perspectives. Topics include the overview and history of the field, perceptions, attitudes, learning processes, personality, motivation, stress, performance appraisal, group dynamics, leadership, communication, decision making, job design, organizational structure and design, organizational change, and development.

**BUS 312 Managing Human Resources** 3 credits  
*Prerequisite: Principles of Management or the equivalent, or fulfillment of the BPS General Management requirement*  
This course offers an overview of the role and context of human resource management, fair employment practices, human resource planning, human resource staffing, performance management, employee development, employee compensation, and labor relations. Students will apply personnel management theories to real-world scenarios.

**BUS 314 Employment Law** 3 credits  
*Prerequisite: None*  
This course explores the way the law directs, and regulates the relationship between employer and employee. Employment Law prepares business professionals to interpret the laws so they can formulate workplace standards based on the statutory obligations. This course will allow students to recommend strategies to mitigate or prevent risk of employee disputes and to devise a process for responding to claims or charges. This course explores the issues of Discrimination in Hiring, Affirmative Action, At Will Employment, Wrongful Termination, Independent contractors, as well as Sexual Harassment. Employment Law also explains the interrelation of technology and Cyber Law and their impact on Human Resources professional and analyze the topics of Workplace Privacy, Drug Testing, Unions, Workers Compensation, The Americans with Disabilities Act, OSHA, ERISA and FLSA. The exploration and analysis of which will lead to a deeper understanding of how legal principles relate to the organizations in which people function, and the effects of the organization's human resources operation on its reputation, functioning, and performance.
BUS 315 Labor Relations 3 credits
Prerequisite: None
This course focuses on the study of the relationships between unions and employers, including various aspects of labor history, law, and collective bargaining. In addition, it will examine issues such as public sector unionism and unionism around the world. A core emphasis will be the changing nature of labor-management relations in the United States as a result of global competition and the internationalization of markets. Finally, the course touches on patterns of union resistance and preventive labor relations strategies.

BUS 317 International Finance 3 credits
Prerequisite: None
Billions of dollars and other international currencies are transacted across borders every day. The goal of the course is to provide students with an understanding of financial management issues in a global setting. The course aims to help students develop analytical tools that incorporate key international considerations into fundamental financial decisions. The course will provide a useful financial perspective to the global business manager.

BUS 320 Risk Management Concepts and Applications 3 credits
Prerequisite: None
This course explores the basic concepts and principles of risk management as well as techniques for managing risk in the global business environment. Students will examine enterprise and financial risk management for corporations and loss forecasting and financial analysis for risk management decision making. Risk management technologies for dealing with potential losses will be emphasized. Additionally, students will develop an introductory understanding of the foundations, applications, and selection of insurance.

BUS 323 Business Ethics 3 credits
Prerequisite: None
This course explores the nature of ethical business environments within the private and public sector. Today’s complex, dynamic global environment requires business professionals who acknowledge, understand, and act appropriately when faced with inherent ethical challenges. This course prepares business professionals for these challenges by exploring ethics theory, personal values, and impacts of organizational culture. This leads to a deeper understanding of how ethical principles relate to the organizations in which people function, and the effects of the organization’s ethics on its reputation, functioning, and performance.

BUS 325 Women In Business 3 credits
Prerequisite: None
Although women have made inroads as managers and leaders, they still continue to lag their male counterparts in reaching the executive suites and boardrooms of many major organizations around the globe. This study will examine a number of theories and findings looking at the roadblocks women continue to face in their quest for upward mobility, as well as offering insight into how women are gaining access to upper management. Topics covered will include 1) the economic strength of women as a market, 2) an examination of the status of women in the United States compared with other countries, 3) obstacles faced by women such as the glass ceiling, nonlinear career paths, and work/life/family balance, 4) the importance of attracting and retaining talented women, and 5) leadership styles and traits of women.

BUS 341 Management Concepts and Applications 3 credits
Prerequisite: None
Management guru Peter Drucker said that, “Management is doing things right; leadership is doing the right things.” And the role of the manager has never been more important in the modern global business environment than it is today. In this course we will look at management in terms of planning, organizing, decision-making, leadership, motivation, and change. By the end of the course, we will have examined management and the role of the manager in a way that allows you to assess how you can develop your skills to meet the business challenges of tomorrow.
BUS 343 International Marketing 3 credits
Prerequisite: BUS 351 Marketing Concepts and Applications (or equivalent)
This course introduces students to concepts, practical applications, and strategies for increasing an organization’s competitive advantage through effective marketing behavior in the global business environment. Students will examine emerging issues and considerations faced by marketing managers due to business and governmental actions affecting trade, investment, and operations in the international marketplace. Students will evaluate social, cultural, ethical, legal, and economic environments to determine their impact on international marketing decision making.

BUS 350 Principles of Finance 3 credits
Prerequisite: A course in Financial Accounting or an introductory accounting course that included financial accounting. It is strongly recommended that Business students complete the Core program requirements in mathematics and statistics before taking this course. The ability to perform calculations in Microsoft Excel is assumed.

An introduction to the discipline of finance, this course examines general principles of finance and corporate finance. Topics include financial objectives of the firm, the time value of money, risk and return, capital budgeting, the cost of capital, financial forecasting, and ratio analysis, working capital management, EVA and MVA concepts, and current and future trends in corporate finance.

BUS 351 Marketing Concepts and Applications 3 credits
Prerequisite: None

Whether it is the personal branding of an international celebrity, like Beyoncé, the promotion of a vacation destination, like Disneyland Paris, or the advertising of a global fast food brand, like McDonalds, marketing is a vital management function in today’s business. Looking at both marketing theory and practice, this course will examine a range of common tools, such as the marketing mix, and assess the role of marketing as both a management function and a business philosophy.

BUS 352 Digital Marketing Fundamentals 3 credits
Prerequisite: None

Whether it is Google, Facebook, Procter & Gamble, or just your local ‘mom and pop’ store, digital technologies have transformed the way in which organizations conduct their marketing. This course will focus on the fundamental concepts, tools, terminology, methods, and practices that relate to current trends in digital marketing. The course will draw from the very latest practitioner thinking and literature and utilize rigorous academic sources to provide a good introduction to the fundamental principles of digital marketing. You will explore some of the key issues, before a closer examination of social media marketing in terms of how it is deployed in the service of business goals and objectives and as part of an overall content marketing strategy. An exploration of search engine optimization, Pay-Per-Click (PPC), and digital display advertising, will give the student a good overview of current methods and practices and provide some practical application of the skills learned. The enduring appeal of email marketing will be examined and its use as part of an integrated marketing strategy. And the current development and use of mobile technologies will also be evaluated in tandem with the growth of other new technologies that will have an impact upon marketing, such as voice search and the Internet of Things (IoT). The importance of good analytics will also be emphasized with a review of the current thinking and practices, particularly regarding Google Analytics. The course will culminate in the integration of some of the previous learning in terms of the development of a buyer persona, which forms a key element of a digital marketing strategy.

BUS 360 Product Planning, Process and Control 3 credits
Prerequisite: None

In this course students will explore the connections between various different business activities and processes that impact production. Some of these areas include the organization’s ability to meet product specifications, adhere to contractual requirements, schedule deliverables, and
effectively utilize available resources to attain profitability. Students will study the influences on production outcomes, with an emphasis on facilities layout, capacity management, process analysis, quantitative work measurement, and production control. The course will enhance students’ understanding of production activities, processes, and systems by investigating business tools for effective production management.

**BUS 375 Marketing Management**  3 credits

*Prerequisite: BUS 351 Marketing Concepts and Applications (or equivalent)*

This course provides students with the necessary tools and frameworks to better prepare them for making effective marketing decisions. Students will explore effective marketing strategies across global business organizations. They will investigate concepts, theories, and real-world applications to create and implement a marketing strategy for launching a product. This course focuses on both the strategic planning process and marketing’s cross/inter-functional relationships. Students will discover market opportunities, forecasting, targeting, and brand positioning for new and mature markets. They will examine how to organize, plan, implement, and measure an effective marketing campaign.

**BUS 380 Managing Diversity In The Workplace**  3 credits

*Prerequisite: None*

This course introduces students to the concept of diversity consciousness, a concept that goes beyond diversity training to develop an awareness and understanding of diversity in all its aspects. It examines the demographic variables that include race, ethnicity, culture, religion, age, physical and mental ability and gender and sexual orientation, as well as socio-economic class and family status. It emphasizes the skills needed in working with and supervising a diverse workforce and reviews the obligations and rights of both the employer and employee under the laws against discrimination enforced by Equal Employment Opportunity Commission in the USA.

**BUS 381 Transportation, Warehousing, and Distribution**  3 credits

This course provides a fundamental understanding of transportation, warehousing, and distribution operations within the logistics industry. The curriculum is built to enable students to competently utilize transportation and distribution models, including identification of end-to-end consumer requirements. Throughout its duration, this course will offer numerous examples of how to incorporate transportation, warehousing, and distribution strategies. Inventory control decisions; supply chain requirements; intermodal operations; and, distribution efficiencies are stressed within the curriculum and cases.

**BUS 382 Operations Management**  3 credits

*Prerequisite: A course in Statistics or equivalent knowledge is required*

This course provides an overview of the systematic planning, designing, operating, controlling, and improving processes that transform inputs into finished goods and services. It develops students’ abilities to recognize, model, and solve problems inherent in production and service environments. Specific topics include product and process design, queuing, facility layout and location, linear programming, decision analysis, forecasting, and inventory models.

**BUS 415/ACC 415 Advanced Financial Management**  3 credits

*Prerequisite: BUS 350 Principles of Finance or equivalent*

The financial well-being of individuals and families requires managers to weigh risk, versus return, in making investment decisions for corporations. Financial skills are also applied in your personal life, as you accept a loan, save for retirement, or apply for a mortgage. This course is designed to strengthen your capacity to make complex financial decisions—to evaluate assets, investments, financing options, instruments, and opportunities.

This course is cross listed with ACC 415. Credit for only one of these courses will be applied toward graduation.

**BUS 425 Operations Management**  3 credits

*Prerequisite: A course in Statistics or equivalent knowledge is required*

This course provides an overview of the systematic planning, designing, operating, controlling, and improving processes that transform inputs into finished goods and services. It develops students’ abilities to recognize, model, and solve problems inherent in production and service environments. Specific topics include product and process design, queuing, facility layout and location, linear programming, decision analysis, forecasting, and inventory models.
BUS 431 Business Data Analysis 3 credits
Prerequisite: BUS 233 Business Statistics
The goal of this course is to help managers make better decisions. The course will explore quantitative methods and techniques for decision support in management using spreadsheet software. It will include a review of statistical methods; use of time series for forecasting; application of regression analysis; aspects of decision theory including model building, linear optimization, simulation, optimization with and without risk and uncertainty; and methods to effectively communicate the results.

Microsoft Excel (Mac or PC) is required. Cloud-based versions of Excel are not recommended. The ability to install 3rd party Excel add-ins on your PC/Mac is required. All Mac students should upgrade to Office/Excel 2016 as Excel for Mac 2011 does not have full functionality with other important tools we use in the course, e.g. Pivot Tables.

BUS 435 International Business 3 credits
Prerequisite: None
An examination and analysis of global business in its historical, theoretical, environmental, and functional dimensions. Focus is on understanding the growing economic interdependence of nationals and its impact on managerial and corporate policy decisions that transcend national boundaries. Topics include the nature and scope of international business; the institutional, sociocultural, political, legal, ethical and economic environments; trade, foreign investment and development; transnational management (including global operations), strategic planning, human resources, marketing and finance; and international diplomacy and conflict resolution.

BUS 437 Securities Analysis 3 credits
Suggested prerequisite: BUS 350 Principles of Finance
The financial crisis of 2007 showed the importance of securities to our daily lives. This course focuses on the tools of fundamental analysis, the concept of risk and investment management. Students examine security valuation, risk measurement, portfolio diversification and portfolio performance measurement preparation of pro forma financial statements. The goal of the course is to provide students with a strong theoretical and applied understanding of the valuation of equity securities.

BUS 438 Risk Control 3 credits
Suggested prerequisite: Students should complete courses in both Pre-calculus (or higher) math and Statistics, and BUS 302 Risk Management Concepts and Applications prior to registering for this course.

From 9/11 to cyber attacks, corporations need to plan for a range of risks. The Risk Control course prepares students to identify, quantify, and qualify the regulatory, legal, financial, and contractual aspects of enterprise risk; the control and minimization of such risks; and the application of risk financing techniques to control risk exposures. Emphasis is also placed on the understanding of the principles and risks underlying complex business contracts.

BUS 438 Risk Control 3 credits
Suggested prerequisite: Students should complete courses in both Pre-calculus (or higher) math and Statistics, and BUS 302 Risk Management Concepts and Applications prior to registering for this course.

From 9/11 to cyber attacks, corporations need to plan for a range of risks. The Risk Control course prepares students to identify, quantify, and qualify the regulatory, legal, financial, and contractual aspects of enterprise risk; the control and minimization of such risks; and the application of risk financing techniques to control risk exposures. Emphasis is also placed on the understanding of the principles and risks underlying complex business contracts.

BUS 440 Business Supply Chain Management 3 credits
Prerequisite: None
This course presents an examination of logistics and supply chain systems. The focus is on analyzing, designing, and implementing systems. Topics include supply chain management strategy, planning, and operations; the role of e-commerce; and financial factors that influence decisions. Discussion also covers the trade-offs between cost and service and between the purchase and supply of raw materials; the warehousing and control of inventory; industrial packaging; materials handling within warehouses; and the distribution of finished goods to customers required to minimize costs, maximize profits, or increase customer service levels.

BUS 441 Procurement And Purchasing 3 credits
Prerequisite: None
This course provides a fundamental understanding of procurement and purchasing actions as related to supply chain operations. The curriculum is built to enable students to competently utilize both the acquisition and buying of goods
or services at the lowest total cost of ownership. Factors of quality and quantity in terms of purchasing and procurement related to end user requirements are detailed in this course. Throughout its duration, this course will offer numerous examples of how to apply "global purchasing techniques"; "supply and supplier relationships and performance measures"; "value of purchasing and procurement to organization's bottom line"; and, "price analysis, cost analysis, and total cost of ownership". Supplier compliance, purchase forecasting, sole versus single source suppliers, and procurement/purchasing networks are stressed within the curriculum and cases.

**BUS 442 Inventory Management** 3 credits

*Prerequisite: None*

This course provides a fundamental understanding of inventory management, control, and turnover as applicable to procurement and logistics operations. The curriculum is designed to enable students to competently utilize inventory management techniques, including costing (ordering, holding, and carrying); demand (both deterministic and probabilistic); inventory modeling; stocking, restocking, and outsourcing; and, the use of inventory management technology. Throughout its duration, this course will offer numerous examples of how to apply "fill rate concepts"; "material handling and storage methods"; "logistics storing and tracking procedures"; and, "order cycle time techniques". Inventory forecasting, supply & demand management, and inventory planning are stressed within the curriculum and cases.

**BUS 443 Lean Logistics** 3 credits

*Prerequisite: None*

This course provides a fundamental understanding of lean applications toward inbound and outbound logistics networks, and the role of leadership to develop corporate logistics strategy. The curriculum is built to enable students to competently utilize professional lean logistics methods and techniques, including identification of areas of waste, ability to decrease inventory, and increase logistics throughput. This course will offer numerous examples of how to apply "lean logistics thinking"; "total logistics cost"; "logistics demand patterns"; and, "logistics planning-operational bridging techniques". Cross-functional logistics teamwork, logistics operational strategy, logistics functions, inventory reduction, and operational logistics networks are stressed within the curriculum and cases.

**BUS 450 Operations Strategy** 3 credits

*Prerequisite: BUS 425 Operations Management (or equivalent)*

Production management is crucial for achieving efficiency in manufacturing and service industries in today's marketplace. Students will explore the connections between various business activities and processes which impact production. Some of these areas include the organization's ability to meet product specifications, adhere to contractual requirements, schedule deliverables, and effectively utilize available resources to attain profitability. Students will study the influences on production outcomes, with an emphasis on facilities layout, capacity management, process analysis, quantitative work measurement, and production control. The course will enhance students' understanding of production activities, processes, and systems by investigating business tools for effective production management.

**BUS 452 Business Leadership** 3 credits

*Prerequisite: None*

This course focuses on research findings about leadership, leadership practice, and leadership skill development. It explores and evaluates leadership practices, behaviors, and personal attributes of leaders and includes case studies of leaders and organizations. The course balances theory with real-world applications for a practical, skill-building approach to leadership.

**BUS 453 Recruitment and Selection** 3 credits

*Prerequisite: None*

This course explores the human resources processes of recruitment and selection of employees, and allows you to formulate workplace standards based on the law, ethics and best practices. This course will allow you to examine, analyze and recommend strategies to recruit and select the best employees as well as how to process the hiring
and how to retain those employees over the long term. This course examines Recruitment and Selection Strategies, Discrimination in Hiring, Affirmative Action, and Independent Contractors. You shall explore, analyze and utilize the Equal Opportunity Employment Commissions website set up by the US government as it is the foremost authority on these issues and is regularly updated with any changes. The EEOC (Equal Employment Opportunity Commission) website is a resource that will be used extensively in this course just as it will be in your career in Human Resources. The exploration and analysis of these issues will lead to a deeper understanding of how to develop strategies for effective recruitment, selection and retention of the best employees.

**BUS 454 HR Analytics** 3 credits

Prerequisite: None

You will investigate the complex field of Human Resource (HR) analytics, including how decision making in organizations is facilitated or impeded by existing information architecture and processes, methods for improving an organization’s analytical capabilities, and facilitating analytics technology implementations. A major focus of the course will be on the use of human resource information systems (HRIS) for collecting and analyzing human resource data. Students will learn how to apply analytical processes and technologies to enable strategic decision making by an organization’s leaders. In addition, students will learn how to improve organizational effectiveness through the use of human resource technology. Both enablers and barriers to effective deployment of HR analytics technologies will be discussed, as well as issues related to data integrity and data governance. You will be challenged to apply an HR analytics framework to a robust healthcare organization case study, developing a combination of descriptive and predictive measures.

**BUS 460 Market Research** 3 credits

Prerequisite: None, but BUS 375 preferred

This course examines the systematic design, collection, analysis, and reporting of data relevant to the marketing function within the organization. It specifically addresses the growing role that technology plays in predicting consumer behavior, marketing trends, addressing marketing problems, and the development of new products and services.

**BUS 480 Global Business Strategy** 3 credits

Prerequisite: BUS 435 International Business (or equivalent)

The course examines business-level global strategies whose purpose is to create competitive advantages in the global market. It also examines the cultural, political, legal, and economic international environment; global trade theories; foreign direct investments; foreign exchange; country evaluation and selection; collaborate strategies; control strategies; risk management; international marketing; import-export; international finance; international accounting and tax; international management; and international human resources.

**BUS 495 Business Strategy** 3 credits

Prerequisite: None

This is a capstone course for the Bachelor of Science in Business degree. It requires the student to complete a capstone experience in managerial decision making. It integrates previous training in the functional areas of business (accounting, finance, marketing, operations, and personnel). Its focus is from the point of view of the chief executive officer or general manager and is mainly concerned with the design and implementation of corporate strategy.

**BUS 499 Strategic Management Capstone** 3 credits

Prerequisite: None

This capstone course is a culminating course that allows students to integrate concepts, principles, and methods from all fields of business. Students will draw on their foundational core business knowledge and professional competencies to solve business problems typically found in the real-world. The competencies for this course were developed by faculty and industry experts and validated by industry advisors to ensure the goals of the course are aligned with job market requirements.
BUS 499TTI
Strategic Management Capstone 3 credits
Prerequisite: None
This capstone course is a culminating course that allows students to integrate concepts, principles, and methods from all fields of business. Students will draw on their foundational core business knowledge and professional competencies to solve business problems typically found in the real-world. The competencies for this course were developed by faculty and industry experts and validated by industry advisors to ensure the goals of the course are aligned with job market requirements.

CCS 112 Success Strategies for Military and Veterans 3 credits
Prerequisite: Must be a veteran, active duty servicemember, military transitioner, or servicemember in reserve or guard components.
Success Strategies for Military and Veterans is designed for active duty servicemembers, transitioning military members, servicemembers in reserve or guard components, and veterans. The course provides an exploration of Excelsior College’s online student resources. Topics include opportunities for making the most of military experience and training by building perspectives on educational and career planning. Additional topics covered are non-traditional educational supports, financial aid options, understanding college degrees and terminology, self-assessments for personal growth and career development, exploration of occupational fields, and tools and strategies for preparing for your job search.

CCS 120 EC Success Seminar 3 credits
Prerequisite: None
This course provides practical strategies and skills needed for success in college and beyond. Students will learn how to manage their college experience and take full advantage of the resources that Excelsior College offers to help them achieve their aspirations of obtaining a college degree. Using an embedded web text, students will enhance their analytical, reading, and critical thinking skills. Emphasis is placed on self-reflection, effective study skills, career planning, online technology, self-management, and planning strategies. Students will identify their own barriers to success in college and devise strategies for overcoming those barriers.

This course contains five information literacy assignments providing a broad overview of information literacy concepts, culminating in a 3 to 5 page research paper. All five assignments must be successfully completed with a C grade or better, as well as successful completion of the entire course, to count as the information literacy requirement for your degree.

This course includes five information literacy assignments that, upon successful completion, will complete the Information Literacy (INL) requirement for all Excelsior College degrees. Students may receive credit for only one of the following courses: CCS 100, CCS 112, or CCS 120.

CCS 202 Prior Learning Assessment Theory and Practice 3 credits
Prerequisite: Information Literacy and written English requirement
Prior learning assessment (PLA) is the process of earning college credit for learning that was acquired from non-classroom experiences like work, professional training, military careers, volunteering, and personal life. CCS 202 will help students identify areas of learning they may want to have evaluated for college-level equivalency. The course will also guide students through the preparation and compilation of all components required for the evaluation of a portfolio or prior learning through LearningCounts.org. Students will learn critical reflection skills to rethink the value of their learning and its implications for
future learning. Adult learning theory, models, and concepts will be discussed and applied to case studies. CCS 202 is facilitated by an instructor who provides guidance for the student in preparing his or her portfolio-based request for credit.

**CHE 101 General Chemistry I**  
3 credits  

*Suggested prerequisites: MAT 114 Intermediate Algebra or equivalent and high school chemistry*

This course provides students with experience using the experimental approach to understand scientific measurement, the properties of substances, and the interactions between different types of matter.

**CHE 101L**  
General Chemistry Laboratory I  
1 credit  

*Prerequisites: CHE 101 General Chemistry I or equivalent*

CHE 101L focuses on the development of scientific investigations in general chemistry topics, including electrical charge, ideal gas laws, conservation of energy, atomic emission spectra, and qualitative analyses of unknowns. It includes a refresher on technical math, data presentation, and data analysis. In addition, this course covers the importance of laboratory safety. Students learn to compose an effective laboratory report based on the findings from each experiment.

**CJ 101 Introduction to Criminal Justice**  
3 credits  

*Prerequisite: None*

This course provides an overview of the criminal justice system in the United States. Students develop their understanding of criminal justice by acquiring a basic knowledge of the law, legal theories, and administrative challenges. The entire process from arrest through conviction, incarceration, and reentry into society are covered. The course also explores foundational areas, such as individual rights versus public order, defining and measuring crime, knowledge of criminal law, and the challenges, issues, and limitations facing law enforcement within the context of the U.S. Constitution.

**CJ 110**  
Introduction to Law Enforcement  
3 credits  

*Prerequisite: None*

This course examines the history, evolution, roles, legal foundations, and challenges faced by contemporary law enforcement. The structure of law enforcement agencies, personnel, and administration will be discussed. Emphasis will be placed on the functions, responsibilities, and public accountability of law enforcement within American society, as well as career opportunities and alternatives in the field of law enforcement.

**CJ 120 Introduction to Corrections**  
3 credits  

*Prerequisite: None*

This course covers the history, organization, and functions of corrections within the criminal justice system, and emphasizes the evolution of corrections for the rehabilitation of offenders. Topics covered include the various forms of corrections, alternatives to incarceration, types of inmates and their issues, and the future of correctional systems in American society.

**CJ 125/HEM 125 Introduction to Homeland Security**  
3 credits  

*Prerequisite: None*

This course provides an overview of homeland security, its history, and evolution since the September 11th terrorist attacks in New York City. Also covered is the need to balance terrorism threats, natural disasters, and other hazards. The role of communications, intelligence, counterterrorism, border security, transportation safety, cybersecurity, and critical infrastructure protection. Preparation, mitigation, and recovery using the all-hazards approach will be studied. As well as the hierarchical organizational of the Department of Homeland Security and the various programs undertaken by government agencies, community organizations, and the private sector in support of homeland security.

This course is cross listed with HEM 125. Credit for only one of these courses will be applied toward graduation.
CJ 228
Multicultural Issues in Criminal Justice 3 credits
Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent
This course introduces students to the influence of culture, race, and ethnicity in the workplace and communities, and the cross-cultural interactions with the criminal justice system and citizens, victims, suspects, and coworkers from diverse backgrounds. The major themes include the need for awareness, understanding of cultural differences, and respect by those in criminal justice toward those of varied backgrounds.

CJ 256
Criminal Justice Administration 3 credits
Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent
This course provides a comprehensive discussion of criminal justice administration through the integration of relevant theories, research findings, and the application of best practices within criminal justice organizations. Included in this course are the basic concepts of an organization, management, and the criminal justice system’s environment; issues regarding communication, motivation, leadership and job design. Additionally, the areas of group behavior and processes within criminal justice organizations regarding occupational socialization, power and political behavior, organizational conflict and effectiveness, decision-making, and change and innovation will be covered.

CJ 265
Criminal Procedure and Evidence 3 credits
Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent
This course provides a comprehensive review and in-depth analysis of the rules of evidence and criminal procedural law in the United States. Students will analyze case law which interprets the constitutional guarantees afforded by the 4th, 5th, 6th, 8th and 14th Amendments, and the admissibility of evidence in court proceedings. Particular emphasis is placed upon arrest, search and seizure, confessions and admissions, the privilege against self-incrimination, the right to counsel, the exclusionary rule and its exceptions, burden of proof, and procedural due process.

CJ 298 Criminal Justice Capstone (Associate’s Degree) 3 credits
Prerequisites: Students must have completed all other requirements of the degree, completed the written English requirement, and completed the Information Literacy requirements. Students must be within 12 credits of degree completion.
The capstone course is intended as the last course for students in the criminal justice major. Students must have completed INL, WER and their required criminal justice coursework prior to taking this course. Also, a student must be within 9 credits of degree completion and obtain academic advisor approval to register.

The capstone course is designed to allow learners the opportunity to coalesce what they have learned about criminal justice throughout the program. Learners will analyze various aspects of the criminal justice system and apply their knowledge to discuss, generate, and propose solutions regarding technical, legal, ethical and demographic issues that may arise in this field.

CJ 301/SOC 301
Juvenile Delinquency and Justice 3 credits
Prerequisite: None
This course explores the judicial processes employed in handling minor criminal offenders; those generally under the age of 18 years. These include arrest, legal guardian responsibilities, sealed court records, case adjudication, sentencing and juvenile corrections. Also covered are the biological, psychological, and sociocultural aspects of delinquency and its causes, potential deterrence and rehabilitation modalities.

This course is cross listed with SOC 301. Credit for only one of these courses will be applied toward graduation.

CJ 310/POL 310 Family Law 3 credits
Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent
This course examines the relationship between the American family, judicial, and social service systems. Topics include defining the contemporary family, marriage, parent-child relationships,
divorce, property division, child custody and support issues, cohabitation, paternity, adoption, assisted conception, and the juvenile justice and social service delivery systems.

This course is cross listed with POL 310. Credit for only one of these courses will be applied toward graduation.

**CJ 315 Gangs in America** 3 credits

*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course examines the problem of gangs in America. Topics will include biological, psychological, and sociocultural reasons why gangs form, why people join gangs, and society’s response to the problems that arise from gang activity. Also studied will be gangs in prison, military gangs, criminal enterprise, gang symbols, graffiti, and tactics of street gangs. Students will learn law enforcement’s response to, and control methods of, gangs, as well.

This course is cross listed with SOC 323. Credit for only one of these courses will be applied toward graduation.

**CJ 323/SOC 323 Deviant Behavior** 3 credits

*Suggested prerequisites: SOC 101 Introduction to Sociology, SOC 110 Introduction to Interdisciplinary Social Science, or equivalent*

This course will familiarize students with theories and applications of deviance, deviant behavior, and the social interactional process of being deviant. Students will read original texts and begin to understand the larger body of social interaction research in sociology and anthropology that has given rise to contemporary theories of deviance and learn to relate these concepts to other works in the social sciences and criminal justice. Students will also learn to apply the ideas from their theoretical reading to contemporary life and to their own personal and professional experiences. In addition to reading, writing and discussion, students will engage in a short field activity, during which time they will have the opportunity to make their own scientific observations of deviant behavior.

This course is cross listed with SOC 323. Credit for only one of these courses will be applied toward graduation.

**CJ 324/SOC 324 Criminology** 3 credits

*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course provides an in-depth study of the nature and causes of crime and criminal behavior. Using a multidisciplinary approach, the course focuses on criminal topologies and criminological theories. Topics range from crime causation to the extent of crime, victimization, and social and psychological theories. Learners will address various types of criminality such as violence, property crimes, and public offenses, as well as the application of these theories to criminal justice policies and procedures.

This course is cross listed with SOC 324. Credit for only one of these courses will be applied toward graduation.

**CJ 330 Judicial Process** 3 credits

*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course explores the historical development and contemporary structure of state and federal trial courts, and courts of appellate review. Constitutional and statutory authority for courts, court procedures, and defendant’s rights in the judicial process are reviewed to include due process, public and speedy trial, jury composition, self-incrimination, punishment, and state and federal post-conviction relief and/or appellate review. Other statutory and administrative/regulatory laws are reviewed pertaining to the Code of Professional Responsibility as it applies to respective judicial officers. Also, analysis of the respective roles, duties performed, and career paths for judicial officers.

**CJ 350/HEM 350 International Terrorism** 3 credits

*Suggested: CJ 125 Introduction to Homeland Security or equivalent*

This course provides students with an examination of the historical, political, social, and religious contexts, and modern manifestations of international terrorism and terrorist organizations. The course examines socialization and radicalization, motivating ideologies, the roles played by media, organization and financing, and the nature of
threats posed abroad and domestically. Terrorism originating in the Middle East, Europe, Asia, and Latin American will be included.

This course is cross listed with HEM 350. Credit for only one of these courses will be applied toward graduation.

**CJ 352/HEM 352 Domestic Terrorism** 3 credits  
*Suggested: CJ 125 Introduction to Homeland Security or equivalent*

This course introduces students to terrorism originating in the United States. Homegrown terrorism and its unique characteristics will be studied, as well as the foundations of domestic terrorism, with an examination of its history and philosophies. Topics include current and active domestic terrorist groups, their organizational structure, philosophies, and networks. Students will study the causes and dynamics of different types of domestic terrorism, along with the strategies used combating this phenomenon.

This course is cross listed with HEM 352. Credit for only one of these courses will be applied toward graduation.

**CJ 356/HEM 356 Emergency Management** 3 credits  
*Suggested: CJ 125 Introduction to Homeland Security or equivalent*

This course covers the organization and management of the various aspects of emergencies due to natural disasters, man-made disasters, terrorism, or war. Reactive procedures covered will include response, mitigation and recovery efforts. Proactive measures will include the preparedness and training of both government entities and private citizens.

This course is cross listed with HEM 356. Credit for only one of these courses will be applied toward graduation.

**CJ 360 Forensic Pathology (Non-Lab)** 3 credits  
*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course offers a practical approach to forensic pathology as it applies to criminal investigation within the medicolegal system. This course will examine the causes, mechanisms, and manners of death encountered in natural, accidental, suicidal, and homicidal circumstances. We will examine conclusions made in death inquiries for their validity and impact on justice, public safety, and future determinations. Students will learn the issues that confront police investigators, medical examiners, prosecutors and defense attorneys as they analyze selected cases and increase their ability to correctly identify the causes of death. Special attention will be paid to handling of evidence, leading to a proper analysis, a successful investigation, and a satisfactory conclusion.

**CJ 365 Police and the Community** 3 credits  
*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course offers an in-depth examination and analysis of the relationship and interactions between American law enforcement and the communities they serve. Many aspects of policing are explored at intermediate and advanced levels, to include patrol, community policing, diversity issues, and other current issues and controversies in municipal policing.

**CJ 380 Ethics in Criminal Justice** 3 credits  
*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course examines ethical issues specifically related to the criminal justice system: police, courts, and corrections. Issues including professional communications, government regulation and policy, free speech, client/victim/investigative privacy, roles and accuracy of the media, and the impact of science and technology on communications will be covered.

**CJ 387/HEM 356 White Collar Crimes** 3 credits  
*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course focuses on topics and issues in the area of white-collar crime. It examines and contrasts the treatment of corporate and white-collar offenders by the criminal justice and regulatory justice systems. The course explores the nature and scope of white-collar crimes, crime types, case studies and the etiology of offending.
CJ 410
Research Methods in Criminal Justice 3 credits
This course will introduce students to the concepts and methodology of designing their own empirical research, as well as evaluating the research of others in the field of criminal justice. The course begins with an introduction to research in the social sciences; data types, analytical measures, and interpretation of results. It also covers the philosophy of social science and several theoretical approaches used in criminal justice research. Finally, qualitative, comparative, and quantitative research design and analysis methods will be studied.

CJ 432/SOC 432 Drugs and Crime 3 credits
Prerequisite: None
This course analyzes the historical, political, economic, social, psychological, and cultural factors that influence the use of illicit, misused, or abused substances. The coursework will include a study of the influence these factors have on the social and legal responses to drug use, including legislation, law enforcement, drug courts, and associated policies and procedures.

This course is cross listed with SOC 432. Credit for only one of these courses will be applied toward graduation.

CJ 436 Child Abuse And Neglect 3 credits
Suggested prerequisites: PSY 101 Introduction to Psychology I or SOC 101 Introduction to Sociology or equivalent
This course presents a multidimensional perspective on child maltreatment in American society. Student will develop an understanding of the diverse complexities regarding: typologies, prevalence and scope of child abuse; profiles of the abused child and perpetrators; the role of community, agency, and criminal justice in prevention, intervention and treatment strategies; long-term effects of child abuse on individuals and society. Current topics such as bullying, sexting, and child trafficking are included. Emerging evidence-based strategies for reducing child maltreatment are explored.

CJ 450/HEM 450 Counterterrorism 3 credits
This course introduces the principles and approaches to countering terrorism in the United States and abroad. Students will examine the question of jurisdiction and activities associated with counterterrorism; whether they should be primarily law enforcement-oriented or military-oriented. The legal and ethical concerns and the restrictive rules of collecting intelligence by military and other non-law enforcement organizations are analyzed.

This course is cross listed with HEM 450. Credit for only one of these courses will be applied toward graduation.

CJ 458/HEM 458 Unconventional Weapons Preparation and Response 3 credits
Suggested: CJ 125 Introduction to Criminal Justice or equivalent.
This course provides students with a basic understanding of the strategies for preparing for, and responding to chemical, biological, radiological and nuclear (CBRN) incidents and disasters; whether natural, accidental, or man made. Incident planning, assessment, mitigation and recovery from those situations will be addressed. This course is intended for homeland security and emergency management students. However, it may also be used as an AP elective in other areas.

This course is cross listed with HEM 458. Credit for only one of these courses will be applied toward graduation.

CJ 460/HEM 460 Infrastructure Security and Policy 3 credits
Suggested: CJ 125 Introduction to Homeland Security or equivalent.
This course deals with the various methods and techniques that have been developed to protect society’s critical infrastructure, as well as their influence on policy and decision-making. It covers the historical background of critical infrastructure and its importance; exploring current trends in infrastructure sensitivity and the impact on a networked environment. The course embraces an all-hazards
approach to homeland security, critical infrastructure protection and assurance, and emergency management. The course will examine the National Response Framework (NRF) and how it can be applied locally; public-private partnerships; information sharing; the need for resiliency planning to respond to changes within the threat environment; risk assessments; and new, related regulations.

This course is cross listed with HEM 460. Credit for only one of these courses will be applied toward graduation.

CJ 498 Criminal Justice Capstone 3 credits

Prerequisites: Completion of Written English Requirement and Information Literacy, and most of the CJ courses required for the major (including CJ 101 Introduction to Criminal Justice, CJ 110 Introduction to Law Enforcement and CJ 255 Organizational and Administrative Strategies in Criminal Justice). Students must be within 15 credits of degree completion and obtain advisor approval.

The Criminal Justice Capstone is intended as the last course in the major. Throughout the term, students will discuss various topics in regards to the criminal justice system. Students will also research and submit application papers, the topics of which will reflect the integrated components of the criminal justice system as they relate to the program outcomes. This course is designed to allow students the opportunity to demonstrate their understanding, analysis and synthesis of the materials, concepts and theories in the U.S. criminal justice system, as well as their communication and presentation skills.

COMM 125 Public Speaking 3 credits

Prerequisite: None

Did you know that a national survey once found public speaking to be more frightening to the general public than snakes, death, and sharks!? A comedian once quipped, “According to most studies, people’s number one fear is public speaking. Number two is death.” This course assists students with public speaking anxiety as well as speech construction and delivery, which they can use for any professional presentations. In fact, business leaders commonly rank effective communication skills as some of the most sought after skill sets in today’s world. Taking a public speaking course will help you develop critical thinking and listening skills as well as enhance your verbal and nonverbal communicative behaviors. Students taking this course will create voiced-over PowerPoint presentations and record video speeches.

This course does not require the purchase of a textbook; all materials are free and included in the course.

COMM 210 Interpersonal Communication 3 credits

Prerequisite: None

Do you feel like you aren’t being understood when you talk to your coworkers, family or friends? Have you ever walked away from a conversation and thought, “Well, that could have gone better!”? This course introduces students to the skills and theories of interpersonal communication, which are needed to build and maintain successful personal and professional relationships. Students are given opportunities to evaluate the complicated interactions of psychological, social and cultural forces involved in interpersonal exchanges. This course explores personality traits, the perception of self and others, listening, managing conflict, and verbal and non-verbal communication.

COMM 312 New Media, Relationships And You 3 credits

Like it or not, social media, digital communication, and smartphones are rapidly altering how we relate to one another in our personal and professional lives. Do our online actions increasingly shape our offline identities? This class will explore how social forces such as race, gender, and culture affect digital communication, while also exploring related topics of workplace communication, issues of privacy, unconscious bias, and internet celebrities. Lastly, we’ll also investigate controversial behaviors like Sexting, trolling, transhumanism, and terrorism online. Because having knowledge and practical skills of new media makes students more marketable, the class includes practical assignments with real world application.

This textbook is reasonably priced, and all additional readings or viewings are from open educational resources (OERs).
COMM 320
Communication And Diversity 3 credits

Prerequisite: None
What do you think are the most important barriers that inhibit communication between people of different races, religions, or backgrounds? How can those barriers be overcome? This course focuses on how communication strategies can be used to reduce discrimination, prejudice, stereotyping and ethnocentrism among different audiences. We’ll discuss theories and practical applications that have been used to increase awareness of diversity in the media as well as diversity issues concerning gender, race, ethnicity, and physical ability.

COMM 324 Conflict Management 3 credits

Prerequisite: None
How have your conflicts typically played themselves out? Do you sense that there are patterns in your conflicts? Mark Twain said that to a man with a hammer, every problem looks like a nail. When disagreements arise with our fellow employees, our neighbors, our supervisors, or even our family, we tend to use the same approach over and over because that’s the only one we know. Conflict is unavoidable but COMM 324 explores the causes, processes, and outcomes of conflict as well as the principles and techniques for improving the handling of conflict.

COMM 335 Ethics in Communication 3 credits

Prerequisite: None
Do we apply our values consistently in every situation, or do we apply them differently depending on the circumstances or consequences? This is just one question of many that influences how we make ethical decisions. Exploring classical and contemporary ethical theories, this course examines ethical issues in personal and professional communication, including those in relationships, groups and organizations, public spaces, and media. We also analyze the important role that communication plays in negotiating cultural identity and social justice. This is a writing enriched course.

COMM 345 Innovation and Current Trends in Communication 3 credits

Prerequisite: None
This course examines how contemporary organizations and industries both use and respond to innovative communication practices. To engage with professional communication issues in the digital age, we examine trends dealing with social media, the attention economy, online advertising, contemporary news media, copyright, and more. The course also tackles some of the challenges and potential pitfalls of contemporary communication.

This course uses all open educational resources and does not require the purchase of a textbook.

COMM 347 Innovative Communication and Culture 3 credits

Prerequisite: None
This course will examine the complex relationship between innovation, culture, and communication. How do innovations in communication drive cultural change? How does culture communicate its innovations? Television was a powerful agent of transformation, and we are now seeing how online platforms are changing lives and cultures. In addition, visual images, popular music, and fashion are also forms of innovative communication that students will be exploring. Communication can be a great equalizer within a culture, especially as innovation allows average citizens to utilize new, potentially powerful platforms. This course prepares student to interpret the cultural behaviors and visual messages that constantly surround us at work and in life.

This course uses all open educational resources and does not require the purchase of a textbook.

COMM 350 Organizational Communication Theory 3 credits

Prerequisite: None
Whether at work, in the military, for sports or worship, people come together in organizations and face communication challenges. We’ll study how organizations set and communicate goals,
create effective teams, identify problems and implement solutions. This course reviews the principles and theories of traditional and contemporary organizational communication in the context of modern, complex organizations such as those found in government, industry, education, health care, and more.

COMM 423
Leadership and Team Building 3 credits
Prerequisite: None
When you look at the leaders around us—be it your employer or the President—you might find yourself wondering exactly why these individuals excel in such positions. In this course, you’ll delve deeper into leadership theory and practice successful leadership models. You’ll also build teamwork skills as well. Although this course focuses on leaders, it provides anyone with more effective skills to succeed in life. So no matter what your role or position in life or at work, this course asks that you assess yourself honestly and become the best yourself.

This course uses all open educational resources, and does not require the purchase of a textbook.

CYS 203
Introduction To Microprocessors 3 credits
Prerequisite: None required; however, working knowledge of computer programming is recommended.
The course introduces the fundamental principles, operations and applications of microprocessors. The architecture and organization of microprocessors including hardware, software and peripheral interfacing will be covered. In addition, the basic organization and function of microcontrollers will also be covered. Principles and applications of microprocessors, including hardware and software, interfacing, assembly language programming, and microprocessor based systems. Eight, 16, and 32-bit microprocessor technology and features are presented. This course contains a lab component.

CYS 245
Introduction To Cybersecurity 1 credit
Prerequisite: None
The course provides students with an introduction to the basic and fundamental concepts of cybersecurity from both a technical and managerial perspective. Students will gain insight on common cyber attacks and the techniques for identifying, detecting and defending against cyber security threats. The course will cover the basics of physical, network and web security as well as standards and laws in cybersecurity. The knowledge gained in this course will provide students with a concrete foundation to further master the concepts of cybersecurity.

CYS 260
Governance Legal and Compliance 3 credits
Prerequisite: None
To minimize liabilities and reduce risks from cybersecurity threats and reduce the losses from legal action, the information security practitioner must understand governance, compliance, and the legal environment and stay informed of emerging laws and regulations.

This course will introduce you to the challenges of governance, ethics, legal, and regulatory compliance through the eyes of information security professionals. We will examine compliance requirements in response to key mandates and laws, including Sarbanes-Oxley, HIPAA, Privacy, Gramm-Leach-Bliley, the Foreign Corrupt Practices Act (FCA), and the Payment Card Industry Data Security Standards (PCI DSS). Lastly, we will examine some of the challenges of compliance and ethics in the practice of Information Security.

CYS 345
Cybersecurity Defense In Depth 3 credits
Prerequisite: None. The student must have a general understanding of information security principles.
This course examines the world of cybersecurity risks and defenses which pose significant threats to governments and businesses. This course will provide knowledge, skills, and techniques
to identify and address the many cybersecurity threats facing our world today. This course will provide a framework for current and future cybersecurity threats by first examining the history of cybersecurity. The course will then apply lessons learned in the past to current cybersecurity risks and defenses. Lastly, the course will attempt to predict future cybersecurity concerns and the necessary preparations needed to defend against them. This course will examine how IT security threats are constantly evolving and provide insight into cybersecurity defenses from business and government perspectives using real-world scenarios to demonstrate actual cybersecurity threats and the strategies used to defend against those threats.

CYS 350 Cybersecurity Defense In Depth for the Nuclear Industry 3 credits

Prerequisite: None

The course examines the world of cybersecurity risks and defenses which poses significant threats to the nuclear industry infrastructure. This course will provide knowledge, skills, and techniques to identify and address the many cybersecurity threats facing the nuclear industry today. This course will provide a framework for current and future cybersecurity threats by first examining the history of cybersecurity. The course will then apply lessons learned in the past to current cybersecurity risks and defenses. Lastly, the course will attempt to predict future cybersecurity concerns and the necessary preparations needed to defend against them. This course will examine how IT security threats are constantly evolving and provide insight into cybersecurity defenses from a nuclear industry perspective using real-world scenarios to demonstrate actual cybersecurity threats and the strategies used to defend against those threats.

CYS 401 Organizational Information Security 3 credits

Prerequisite: None

The course will provide learners with knowledge in the broad outlines of implementing information security initiatives in organizations. The course will cover the technical concepts as well as the managerial, operational and policy dimensions of information security. The learners will also examine the personnel and organizational skills required to manage information security initiatives in organizations consisting of staffing, training, certifications and ethical responsibilities.

CYS 403 Network And Application Security 3 credits

Prerequisites: IT 250 Business Data Communications (or related course work), and IT 380 Overview of Computer Security (or related course work)

This course covers the foundations of network security and provides an in-depth review of commonly used security mechanisms and techniques, security threats and network-based attacks, applications of cryptography, authentication, access control, intrusion detection and response, security protocols (IPsec, SSL, Kerberos), denial of service, viruses and worms, software vulnerabilities, Web security, wireless security, and privacy. Additionally the course covers important network security tools, applications, and methods for preventing breaches.

CYS 426 Cyber Attacks and Defenses 3 credits

Prerequisite: IT 380 Overview of Computer Security

This course introduces ethics, laws, metrics, methodologies, project management, tools, techniques, purposes, and practices of penetration testing aka ethical hacking as a proactive measure to improving the overall security posture of
a system or network. The students will learn to
assess target systems and networks for vulnera-
bilities and exploits, detect security threats, and
recommend and implement defensive, corrective,
and preventative measures based on penetration
test results.

**CYS 450 Security Focused Risk Management** 3 credits

*Prerequisite: IT 380 Overview of Computer Security, or students should already be familiar with the concepts of information, security risks to information, and the challenges of protecting information.*

This course will focus on providing you with insights, guidance and best practices in security focused risk management. Students will review the fundamental principles of security focused risk management. Students will utilize a disciplined and standard approach to risk management including risk identification, risk assessment, risk prioritization, and risk prevention or mitigation. Students will learn to identify classes of possible vulnerabilities, threats, attack vectors, consequences and mitigation strategies.

**CYS 455 Business Continuity** 3 credits

*Prerequisite: IT 350 Business Data Communications or related course/work experience.*

This course focuses on two important aspects of information security, data integrity, and data availability. Malicious attacks, natural disasters, and unplanned events can threaten the availability and integrity of an organization’s data assets. This course emphasizes the development of business continuity and disaster recovery plans that result in action plans to mitigate the effect of a breach in security or the occurrence of a disaster.

**CYS 456 Securing Mobile and Cloud Computing Environments** 3 credits

*Prerequisite: IT 350 or equivalent networking experience.*

This course covers the secure design and management of ubiquitous computing environments formed by the convergence of fixed and mobile devices, shared services, cloud computing, and other Internet-based computing methods. Students learn best practices and challenges associated with managing these heterogeneous environments and insuring their ability to communicate in a secure manner.

**CYS 460 Cybersecurity Investigations and Case Studies** 3 credits

*Prerequisite: This is a required course in the Undergraduate Certificate in Cybersecurity; it is only open to students in the Undergraduate Certificate in Cybersecurity who have completed all other certificate requirements. This course must be taken in the final term.*

This course is a comprehensive analysis of the methods, tools, and best practices for handling, responding, and investigating cybersecurity incidents and product vulnerabilities. Covers building a security incident response Team (IRT) and a Product Security Team for security vulnerability handling. Students review legal issues from a variety of national perspectives, and consider practical aspects of coordination with other organizations.

**CYS 470 Secure Software Development** 3 credits

*Prerequisite: IT 380 Overview of Computer Security and IT 210 Object Oriented Programming, or IT 240 Introduction to Programming or prior knowledge of an Object Oriented Design programming language.*

In today’s environment, perimeter and infrastructure security is not enough to mitigate security attacks against data and information stored, transmitted, and processed by computer systems. In order to design and build secure IT systems, all elements of the system need to be secure. Unfortunately, more and more security vulnerabilities are exploited due to insecure software systems. This course gives insight, guidance, and best practices in the design, development, and testing of secure software systems.
CYS 475 Large Scale Cybercrime and Terrorism 3 credits

Prerequisite: None

This course will examine cybercrime and terrorism in global context and focus on large scale incidents that effect international security. The foundation of the course will emphasize the evolution of cybercrime and terrorism within the context of globalization and the increasing complexity of cybercrime and international, nation-less decentralized terror networks. The course will discuss the relationship of cybercrime and uses of information technology that cultivated and sustained current international terror networks. The course will also discuss emerging trends and potential threats such as Electromagnetic Pulse Attacks (EMPs) and methods (and limitations) to confront large scale cybercrime and terrorism such as advanced data mining techniques by the Intelligence Community and use of Fusion Centers.

CYS 495 Cyber Operations Capstone 3 credits

Prerequisites: Students must have completed all the core requirements of the degree.

A capstone course for the B.S. Cyber Operations program. It requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Cyber Operations degree outcomes. The learning statements must be supported by documented evidence that demonstrate that the outcomes have been met. Students learn how to develop an online portfolio during the first four weeks of this 15-week course, and then work under the guidance of a faculty mentor during the remainder of the semester to compose learning statements, compile appropriate evidence, and create the Integrated Technology Assessment portfolio.

CYS 496 Cybersecurity Capstone 3 credits

Prerequisites: Students must have completed all the core requirements of the degree.

This capstone course will examine computer security technologies and principles, including access control, authentication, external attacks, software security, security assessment and testing, and legal issues in cybersecurity. This course includes a final research project that will expose students to real-life scenarios in cybersecurity.

ECO 260 Introduction to Microeconomics 3 credits

Prerequisite: None

Scarcity is a fact of life, even in rich societies. Economics is about how individuals and firms make decisions about scarce resources: who gets what, when, and how much. The course examines contemporary economic systems based on tools of microeconomics. Covers theoretical analysis of prices and profits as guides to resource allocation, industrial structure, meaning of economic welfare, proper function of government in the economy, and distribution of income.

ECO 262 Introduction to Macroeconomics 3 credits

Prerequisite: None

This course examines determinants of gross national product (GNP), incomes and employment, sources of demand for goods and services, problems of unemployment and inflation, use of taxes, and government spending and control over supply of money to fight unemployment and inflation, and economic growth. In addition, it analyzes certain aspects of the financial system and the strengths and weaknesses of the different government policies in influencing the overall economy.

ECON 341/SOC 341 Globalization 3 credits

Prerequisite: None

This course analyzes the political, economic, social and cultural features of globalization, providing a broad understanding of the processes and realities that underpin contemporary global economics and society. Students assess the effect of economic globalization and examine cultural globalization through study of various media influences as well as leading religions. Students will also explore the links among individual identity, global economic forces, environmental challenges, and other global problems.

This course is cross listed with SOC 341. Credit for only one of these courses will be applied toward graduation.
ECON 360 International Economics 3 credits
Prerequisite: None
This course builds on introductory micro and macroeconomics to analyze the world economy. Students investigate and apply economic theory to subjects, including: patterns of trade, trade agreements/restrictions, the flow of labor and capital, the international monetary system and exchange-rate issues, and the roles of international organizations such as the World Trade Organization and the International Monetary Fund. Students examine how the international economic system operates and the challenges it faces.

ELEC 152 Circuit Theory I 4 credits
Prerequisites: PHYS 203, PHYS 204, TECH 201, CHE 101 with Lab, or equivalent.
Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, and basics of differential and integral calculus; physics I and physics II; college level chemistry with lab; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.
This course is an introduction to the basic principles of direct current (DC) electricity. Topics covered include: Current, voltage, resistance (both linear and non-linear), Ohm’s Law, work and power, series and parallel resistance, resistance networks, Kirchhoff’s Law, network theorems (Norton’s, Thevenin’s, superposition, and Millman’s), mesh and nodal analysis, inductance, capacitance, and time constants. This course contains a lab component.

ELEC 153 Circuit Theory II 4 credits
Prerequisite: ELEC 152 Circuit Theory I and TECH 202, or equivalent.
Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, calculus I (differentiation), calculus II (integration), differential equations, physics I, and physics II; college level chemistry with lab; DC and AC circuit analysis; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.
This course is an introduction to the principles and applications of alternating current (AC) circuits. Topics covered include capacitor and inductor transient response, the sine wave, reactance, complex algebra and phasors, impedance, Kirchhoff’s Law and network theorems (Norton’s, Thevenin’s, and superposition) in AC circuits, power in AC circuits, series and parallel impedances, impedance networks, filters, resonance, Bode plots, and polyphase systems. The topic of engineering and technology standards is also discussed. This course contains a lab component.

ELEC 160 Electronics I 4 credits
Prerequisite: ELEC 152 Circuit Theory I and ELEC 153 Circuit Theory II, or equivalent.
Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, calculus I (differentiation), calculus II (integration), differential equations, physics I, and physics II; college level chemistry with lab; DC and AC circuit analysis; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.
This course is an introduction to the study of semiconductor devices such as p-n junction diodes, bipolar junction transistors (BJT), field-effect transistors (FETs,) and metal-oxide-semiconductor field-effect transistors (MOSFETs), which enable students to perform analysis of direct current (DC) transistor biasing; small-signal and multi-stage amplifiers using BJTs, FETs, and MOSFETs; and frequency response of single and multi-stage transistor amplifiers. This course contains a lab component.

ELEC 161 Electronics II 4 credits
Prerequisite: ELEC 152 Circuit Theory I, ELEC 153 Circuit Theory II, and ELEC 160 Electronics I, or equivalent.
Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, calculus I (differentiation), calculus II (integration), differential equations, physics I, and physics II; college level chemistry with lab; DC and
AC circuit analysis; diode and transistor based electronic circuits and amplifiers; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course overviews the analysis and application of advanced electronic circuits. Topics include differential amplifiers, stage gain in decibels, input and output impedances, linear integrated circuit (IC) operational amplifiers, frequency response, Bode plots, active filters, digital-to-analog and analog-to-digital circuits, oscillators, and high frequency amplifiers. The course emphasizes troubleshooting of test circuits and analysis based on computer simulation. This course contains a lab component.

**ELEC 201 Digital Electronics** 4 credits

Prerequisite: ELEC 161 Electronics II or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers; electronic oscillators; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course presents the principles and applications of digital circuits. Topics include number systems, binary arithmetic, logic gates and Boolean algebra, logic families, combinational and synchronous logic circuit design, logic minimization techniques (Karnaugh maps, Quine-McCluskey), counters, shift registers, encoders and decoders, multiplexors and demultiplexors, and interfacing. This course contains a lab component.

**ELEC 202 Microprocessors** 4 credits

Prerequisite: ELEC 201 Digital Electronics and IT 210 Object Oriented Programming, or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, and digital electronic circuit design; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course presents the principles and applications of microprocessors, including hardware and software, interfacing, assembly language programming, and microprocessor-based systems. It presents 8-, 16-, and 32-bit microprocessor technology and features. This course contains a lab component.

**ELEC 210 Programmable Logic Controllers** 3 credits

Prerequisite: ELEC 202 Microprocessors or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, digital electronic circuit design, and microprocessor assembly level programming; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course introduces students to programmable logic controllers (PLCs) and their applications. Topics include PLC architecture, relay logic and ladder logic programming, PLC timers and counters, troubleshooting, process control and networking, and industrial applications. This course contains a lab component.

**ELEC 305 Introduction to Nanotechnology** 3 credits

Prerequisite: ELEC 161 Electronics II or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; college level chemistry with lab; DC and AC circuit analysis, electronics, feedback and operational amplifiers, and oscillator circuits; basic computer
literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course is an introduction to the underlying principles of nanotechnology, nanoscience, and nano-engineering. It introduces scientific principles and laws relevant on the nanoscale and discusses applications in engineering, physics, chemistry, and biology.

**ELEC 306 Advanced Digital Design** 3 credits
**Prerequisite:** ELEC 202 Microprocessors or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, digital electronic circuit design, and microprocessor assembly level programming; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course builds on the student’s background from the first courses in logic design and microprocessors. Systematic design methods for synthesizing sequential digital circuits using hardware description language HDL are covered, while details of its associated languages too are brought to familiar ground. Specification, modeling, and design principles of sequential systems, as well as design implementation and testing using programmable logic devices and computer aided design (CAD) tools are studied. The course includes laboratory experiments and a group project.

**ELEC 307 Microcontrollers** 3 credits
**Prerequisite:** ELEC 202 Microprocessors and IT 390 Project Management, or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, advanced digital logic circuit design, and microprocessor assembly level programming; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet, and project management techniques.

This course builds on the student's background from first courses in logic design and microprocessors. This course discusses the architecture used in the design of PIC microcontroller based systems, followed by assembly language programming, interfacing, and communications. Interrupts, timers, data converters, and embedded systems design are also covered. The course includes laboratory experiments and a group project.

**ELEC 310 Basic Nanofabrication Process** 3 credits
**Prerequisite:** ELEC 305 Introduction to Nanotechnology or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; college level chemistry with lab; DC and AC circuit analysis, electronics, feedback and operational amplifiers, oscillator circuits, and basics of nanotechnology; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course provides an introduction to the basic principles and methods of nanofabrication. It covers such topics as crystal growth, silicon wafer preparation, and the ten-step patterning process. It also includes detailed coverage of the challenges associated with contamination, productivity, and process yields as applied to the nanofabrication of integrated circuits.

**ELEC 321 Control Systems** 3 credits
**Prerequisite:** ELEC 202 Microprocessors or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, digital electronic circuit design, and microprocessor assembly level programming; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.
oscillators, and digital electronic circuit design and microprocessor fundamentals; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This is an introductory course on continuous linear control systems covering analysis, design, and practical applications. Modeling first and second-order dynamic physical systems with feedback control, transient response and steady-state analyses, Routh-Hurwitz stability criteria, roles of feedback in controlling steady-state errors, frequency response design methods (Bode, Nyquist), etc. are covered. The course emphasizes the application of established methodology with the aid of examples, calculators, and computer programs such as MATLAB.

**ELEC 331 Digital and Analog Communications**  
3 credits  
Prerequisite: ELEC 201 Digital Electronics or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, and digital electronic circuit design; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course focuses on the principles and applications of analog and digital communication circuits. Analysis of amplitude, frequency, and phase modulation and demodulation, transmitters and receivers, digital communication techniques, coding and multiplexing, network communications and protocols, transmission lines and media, wave propagation and television, optical fibers, wired and wireless communications, communication test equipment and troubleshooting, and communication standards are covered.

**ELEC 345 Electric Machines**  
3 credits  
Prerequisite: ELEC 201 Digital Electronics or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, and digital electronic circuit design; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course covers the principles and applications of direct current (DC) motors and generators, ideal transformers and three-phase transformers, three-phase induction machines, equivalent circuit of the induction motor, synchronous generators and motors, and motor speed control.

**ELEC 350 Power Electronics**  
3 credits  
Prerequisite: ELEC 201 Digital Electronics or equivalent.

Required Knowledge: In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, and digital electronic circuit design; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course covers characteristics of power transistors and diodes, followed by switch-mode DC-DC converters, including buck and boost converters and regulation of DC-DC converters by pulse width modulation, rectification using diodes, power factor correction, and switch-mode DC power supplies. DC-AC inverters, and applications of power electronics in motor drives, uninterrupted power supplies, and power systems are also covered.
ELEC 360 Generation and Transmission of Electric Power 3 credits

**Prerequisite:** ELEC 350 Power Electronics or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, digital electronic circuit design, and power electronics circuits analysis; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course includes comparing the technologies of power generation from hydro, thermal, nuclear, and wind energy sources; introducing transmission line theory-based analysis of power distribution line and its equivalent circuits; applying components in power distribution systems including substations, protection, and low voltage distribution; and calculating the cost of electricity. The course also includes an introduction to direct current transmission and optimal power-flow analysis, as well as an assessment of solid-state controllers for power flow and harmonics. Finally, the course includes a software-based project wherein students have the opportunity to incorporate project management techniques.

ELEC 370 Instrumentation and Data Acquisition 3 credits

ELEC 201 Digital Electronics and IT 210 Object Oriented Programming, or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; DC and AC circuit analysis, electronics, feedback and operational amplifiers, electronic oscillators, and digital electronic circuit design; basic computer programming for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course provides an introduction to virtual instrumentation and data acquisition. Topics covered include virtual instruments, sub virtual instruments, editing and debugging, structures, arrays and clusters, graphs and charts, data acquisition, and analysis. Power electronics design and engineering standards are also dealt with. This course contains a lab component.

ELEC 403 BSEET Independent Study I 3 credits

**Prerequisite:** Electrical Engineering Technology faculty approval.

Students have the opportunity to work one-on-one with an Excelsior College faculty member to set learning goals, choose the means by which to reach those goals, and determine the best way to assess learning. Independent Study Contracts (ISCs) can be on almost any topic within Electrical Engineering Technology. All learning contracts must be submitted for departmental approval, and students must inform their academic advisor of their intent to pursue an ISC well in advance of registration.

ELEC 404 BSEET Independent Study II 3 credits

**Prerequisite:** Electrical Engineering Technology faculty approval.

Students have the opportunity to work one-on-one with an Excelsior College faculty member to set learning goals, choose the means by which to reach those goals, and determine the best way to assess learning. Independent Study Contracts (ISCs) can be on almost any topic within Electrical Engineering Technology. All learning contracts must be submitted for departmental approval, and students must inform their academic advisor of their intent to pursue an ISC well in advance of registration.

ELEC 410 Nanotechnology Process Equipment 3 credits

**Prerequisite:** ELEC 310 Introduction to Nanofabrication Processes and ELEC 201 Digital Electronics, or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential
equations; physics I and physics II; college level chemistry with lab; DC and AC circuit analysis, electronics, feedback and operational amplifiers, oscillator circuits, digital circuits design, basics of nanotechnology, and semiconductor fabrication processes; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course presents the equipment used in nanofabrication processes at the manufacturing level as well as research and development stages. It covers nanotechnology, 300mm wafer processing, "green" processes and devices, new fabrication advances and non-vacuum processing tools. Examples of equipment used in applications for micro/nanoelectronics and photovoltaics will be presented, including equipment for doping, layer deposition, device evaluation, and packaging. This course contains a lab component.

**ELEC 415 Introduction to Nanofabrication Manufacturing Technology** 3 credits

**Prerequisite:** ELEC 310 Introduction to Nanofabrication Processes or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; college level chemistry with lab; DC and AC circuit analysis, electronics, feedback and operational amplifiers, oscillator circuits, basics of nanotechnology, semiconductor fabrication processes, and nanotechnology manufacturing processes and equipment; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course focuses on micro electromechanical systems (MEMS) and nano electromechanical systems (NEMS). Topics include MEMS and NEMS architecture, materials, synthesis, modeling, and control. Micro-sensors, micro-actuators, micro-engines, optical MEMS applications, and MEMS packaging and reliability are explored. Electronic applications of MEMS, such as in data storage and biomedical sensors, are also covered. This course contains a lab component.

**ELEC 420 Micro-Electrical Mechanical Systems** 3 credits

**Prerequisite:** ELEC 415 Introduction to Nanofabrication Manufacturing Technology or equivalent.

**Required Knowledge:** In order to comprehend the course materials, the students need to have the following knowledge: Algebra, trigonometry, basics of differential and integral calculus and differential equations; physics I and physics II; college level chemistry with lab; DC and AC circuit analysis, electronics, feedback and operational amplifiers, oscillator circuits, basics of nanotechnology, semiconductor fabrication processes, and nanotechnology manufacturing processes and equipment; basic computer literacy for technical problem solving, including installing software, naming files, transferring files, and navigating the internet.

This course focuses on micro electromechanical systems (MEMS) and nano electromechanical systems (NEMS). Topics include MEMS and NEMS architecture, materials, synthesis, modeling, and control. Micro-sensors, micro-actuators, micro-engines, optical MEMS applications, and MEMS packaging and reliability are explored. Electronic applications of MEMS, such as in data storage and biomedical sensors, are also covered. This course contains a lab component.

**ELEC 495 Integrated Technology Assessment BEL** 3 credits

**Prerequisite:** In order to comprehend the course materials, the students need to have the following knowledge: This is a required course in the B.S. Electrical Engineering Technology program; it is open only to B.S. Electrical Engineering Technology students who have completed all other technology core requirements and most, if not all, concentration course and general education requirements.

This is the required capstone course for the B.S. Electrical Engineering Technology program. It requires reflections on the student’s past academic and professional experiences and using the information gained from this reflective exercise to develop evidence-based learning statements related to the Electrical Engineering Technology program.
degree outcomes, resulting in the integrated technology assessment (ITA) portfolio.

The course features an online examination designed to assess the basic knowledge and understanding achieved in electrical engineering technology. This examination is administered in Module 2 through Module 7.

Finally, the student is required to undertake a hardware based capstone project spread through all the course modules, and demonstrate integrated learning experience and the outcomes of this degree program.

**ENG 101 English Composition** 3 credits  
*Prerequisite: None*  
This course facilitates the student’s development as an effective writer, taking a holistic approach to the writing process. Starting with the building blocks of effective sentences and paragraphing, students move on to learn a variety of rhetorical essay styles, including definition, argumentation, comparison, and contrast. Students experience each stage of the research process as they master research skills, the use of sources, and appropriate citation styles.

This course uses all open educational resources, and does not require the purchase of a textbook.

**ENG 101A Advanced Composition** 3 credits  
*Prerequisite: None*  
This course facilitates the student’s development as an effective writer in college situations, taking a holistic approach to the writing process. Students learn foundational rhetorical skills and complete expository and research-based essays. Students learn how strong rhetorical skills apply to each stage of the writing process as they master research skills, the use of sources, and appropriate citation styles.

This course uses all open educational resources, and does not require the purchase of a textbook.

**ENG 102 Composition II** 3 credits  
*Prerequisite: ENG 101 English Composition or equivalent*  
The primary objective of this course is to continue students’ development as effective writers. While we will be using literature as our focus, the emphasis of this course will be on writing. As critical thinking and writing are interdependent, students will learn various methods of analyzing literature, including point of view, character, structure, plot, setting, imagery, tone, and theme. These methods will be applied to different formats and styles of writing.

This course uses all open educational resources, and does not require the purchase of a textbook.

**ENG 102A Advanced Composition II** 3 credits  
*Prerequisite: Eligible students must have earned an A in their ENG 101 English Composition equivalent; must be enrolled in a degree program; and need advisor approval prior to registration.*  
The primary objective of this course is to continue students’ development as effective writers. While we will be using literature as our focus, the emphasis of this course will be on writing. As critical thinking and writing are interdependent, students will learn various methods of analyzing literature, including point of view, character, structure, plot, setting, imagery, tone, and theme. These methods will be applied to different formats and styles of writing.

This course uses all open educational resources, and does not require the purchase of a textbook.

**ENG 201 Writing for the Professions** 3 credits  
*Prerequisite: ENG 101 English Composition or equivalent*  
This 15 week course helps students improve the writing skills necessary for success in the workplace and academic study. Emphasis is on the research and writing process, including special focus on APA citation style and manuscript preparation.

This course replaces ENG 231. Credit for only one of these courses will be applied toward graduation.
ENG 202 Business Writing  3 credits  
Prerequisite: ENG 101 English Composition or equivalent  
Business Writing assists students in becoming confident, efficient business writers. Students learn and apply strategies for writing effective workplace documents that address common audiences, purposes, and situations, including memos, letters, emails, reports, and proposals. Using scenario-based assignments, students will analyze audience needs, define outcomes for their writing, and plan strategies for successfully achieving those outcomes. This course equips students with the writing tools required to navigate the corporate and business worlds successfully.  
ENG 202 duplicates BUS 210 Writing in the Workplace. Credit in only one of these courses will be applied toward graduation.

ENG 205 Introduction to Literature  3 credits  
Prerequisite: None  
“When I read a good book… I wish that life were three thousand years long,” said an American writer. How could he say such a thing? Take this course to begin to understand why literature is so compelling. Students are not only introduced to the genres of poetry, drama, fiction, and creative nonfiction, but also learn strategies for reading literary texts. Read fascinating stories by John Steinbeck where “a woman feels emotionally starved,” but then “her life promises to blossom with the arrival of the scissors-grinding man.” Or read a poem by William Carlos Williams about the plain truth of “plums that were in an icebox.” Real life becomes richer when you know how to interpret sweet, cold plums or to recognize a scissors-grinding man!

ENG 252/HUM 252 Mythology  3 credits  
Prerequisite: None  
Is Thor greater than Zeus? Can vampires be good guys? Who gets to live forever and why? Explore these questions and other mysteries of the universe as we track the enduring role of mythology in our lives. Get to know Hercules, Cupid, Prometheus and Pandora. Read distinguished scholars like Mircea Eliade, Northrop Frye, and Carl Jung. Discuss the hero’s journey, read creation myths, and watch Star Wars and Harry Potter. A healthy imagination and a love of action and adventure required!  
ENG 252 is cross-listed with HUM 252. Students may elect to register for either course number but may not receive credit toward graduation for more than one course. Disclaimer: Please be advised that the content of the films and television episodes may contain mature themes and subject matter.

ENG 285/HIS 285 Witches: A Literary and Cultural History  3 credits  
Suggested prerequisite: HIS 121 (World History II)  
The figure of the witch has enjoyed a long literary and cultural history. Their stories are grounded in historical realities that often intersected very closely with literary portrayals, and in some cases the fictional telling of their stories reinforce and/or represent the historic realities experienced by those labeled witches. This interdisciplinary course will examine historical accounts and literary imaginings of witches from 1500 to the present with particular focus on the height of the witchcraft trials in the sixteenth and seventeenth centuries. Particular attention will be given to the mentalities of pre-modern peoples in Europe and North America and the belief system that fostered the accusation, prosecution, and execution of alleged witches. We will also examine various fictional representations of witches including The Witch of Edmonton, Macbeth, and The Crucible, each of which will be examined within the historical context in which they were written.  
This course is cross listed with HIS 285. Credit for only one of these courses will be applied toward graduation.

ENG 310 Short Stories  3 credits  
Prerequisite: None  
Read a dark story about entombing a friend alive by Edgar Allen Poe or a shocking story of sudden joy by Leo Tolstoy. Short stories are often overlooked by readers in favor of the novel, yet they too have had a long and influential literary
history. This course traces the evolution of the form beginning with two of the most influential short story writers in European literature, Giovanni Boccaccio and Geoffrey Chaucer. Works by Hawthorne, Faulkner, and Hemingway will be examined, as well as a selection of canonical works from writers across time and place. Learn how different social, political, and cultural contexts inform the stories of Leslie Marmon Silko (Native American), Gabriel García Márquez (Latin American), Chinua Achebe (African), and Salman Rushdie (Indian). In this course, you’ll develop not only critical thinking skills but also creative writing skills.

ENG 312
Scientific and Technical Writing 3 credits
Prerequisite: ENG 101 English Composition or equivalent
Scientific and Technical Writing focuses on the development and application of rhetorical strategies used in writing about science and technology, including the importance for writers to stay current in their fields. Students analyze writing situations in the professional engineering, technology, and science workplaces and develop strategies for addressing audiences, organizing information, using appropriate style, and presenting the work using effective document design for both technical and non-technical readers. Introduction to the major theories, issues and contributors in the field of technical and scientific communication is emphasized. Starting with rhetorical analyses of audiences and progressing through deliverables, students learn to problem solve through a variety of communication projects in chosen scientific/technical communication fields.

This course uses all open educational resources, and does not require the purchase of a textbook.

ENG 314
Careers in Professional Writing 3 credits
Prerequisite: ENG 101 English Composition or equivalent suggested
Careers in Professional Writing surveys career paths and current trends and developments in professional writing. Students explore the markets and professional associations for writers in technical, scientific, and medical arenas, as well as analyze and compose various professional documents that demonstrate the ability to apply composing, revision, and collaborative strategies necessary for professional writing success. A key component is the assessment of students’ current writing skills and development of an individualized plan for acquiring additional skills that effective professional writers need.

This course uses all open educational resources, and does not require the purchase of a textbook.

ENG 315 Zombies in Literature and Popular Culture 3 credits
Prerequisite: None
Why has popularity in zombies grown so rapidly in recent years? What makes the undead marketable? What accounts for their prominence in modern literature, film, and pop culture? From horror to humor, the zombie has infiltrated our society for decades (even centuries), enticing us to ponder our collective fascination with the undead and our own humanity. In this course, students will examine the historical, literary, social, psychological, and the pop cultural origins and impact of zombies. Consider how social, gender, or even cultural roles change in a zombie-infested world. Read The Zombie Survival Guide to discuss leadership strategies for surviving in a world populated by zombies. Watch films like Night of the Living Dead and television shows like The Walking Dead.

Throughout this course, there will be subject matter and material covered in the readings, films, and discussions of a violent nature. Please use your own discretion to gauge whether or not this course is right for you.
ENG 316
Writing in the Global Marketplace 3 credits
Prerequisite: ENG 101 English Composition or equivalent
Writing for the Global Marketplace emphasizes the importance of intercultural competence and sensitivity to professional communication, both in print and online, by examining several Web-based, print-based, and presentation genres for common business functions from an intercultural perspective. Students study how audience, purpose, persona, and context in certain cultures should inform decisions regarding content selection, source usage, document structure, tone, and other conventions in professional communication. Includes analysis of basic models of culture as applied in professional business settings world-wide, as well as how American business communication norms differ from and must be adapted for other cultures.

GENE 201
Introduction to Genetic Genealogy 3 credits
Prerequisite: None.
8 week and 15 week versions available.
In this course, you will learn how to interpret and analyze DNA test results provided by testing companies to answer genealogical questions. You will observe how DNA is inherited and used by genealogists to examine relationships, ancestry, and descendants, including genetic cousin matches. Using the four main categories of DNA (Y-DNA, mtDNA, atDNA, and X-DNA), you will identify, recreate, and study genealogical relationships. By applying test results to third-party tools, you will deeply analyze data to maximize testing results. Additionally, you will examine the ethical issues associated with DNA test results and learn how DNA can play a vital role when documentation from other sources is not available or is inconclusive. Finally, you will apply the best practices described in this course to design a strategic DNA testing plan to solve a specific genealogical problem for a client.

ENG 320
Vampires in Literature and Film 3 credits
Prerequisite: None
This course explores the depiction in literature and film/television of the relationships between vampires and humans. From Bram Stoker’s Dracula to Anne Rice’s Lestat to Stephanie Meyer’s Twilight, the heart of what makes vampires popular isn’t blood—it’s desire. How the depictions of these relationships have changed over the years is the focus of this course.
Throughout this course, there will be subject matter and material covered in the readings, films, and discussions of a mature nature, including violence and adult content. Please use your own discretion to gauge whether or not this course is right for you.

ENG 325 Fiction Workshop 3 credits
Suggested prerequisite ENG 101 English Composition or equivalent
This course is designed to give students a basic introduction to the art and craft of writing fiction. Students will learn about and discuss specific elements of craft, including plot, character, dialogue, and setting (among others). Students will also complete and comment on writing exercises, write a complete short story and prepare it for submission.
This course uses all open educational resources, and does not require the purchase of a textbook.

GENE 350
Advanced Genealogical Research 3 credits
Prerequisite: None
In this advanced research course, you will examine how to apply best practices and strategies used by professionals to gather evidence, evaluate and analyze records, and report the findings of complex genealogical problems. Through the investigation of cases, you will observe how genealogical professionals approach and solve difficult identity inquiries. Working with your classmates, you will discuss ethical considerations, investigate difficult genealogical questions, and practice peer review. Throughout the course, you will apply best practices in an attempt to solve a complex genealogical problem. This course will prepare students for careers and/or further professional study in the practice of genealogy.
GEOL 108 Earth Science and Society 3 credits

Prerequisite: None
An introduction to the physical principles governing the geographical distribution and interrelationships of Earth’s physical features (atmosphere and oceans, landforms, soils, and vegetation). Provides students with the background necessary to evaluate current environmental issues.

This course requires the use of Microsoft Excel.
This course replaces GEOL 107. Credit for only one of these courses will be applied toward graduation.

GEOL 114 Introduction to Oceanography 3 credits

Suggested prerequisite: Basic Algebra
This course introduces oceanography as an integrated science that utilizes many basic sciences to understand the ocean that dominates the surface of our planet. Topics include waves, tides, and currents of the world ocean; adaptations and distribution of marine animals; pollution of the marine ecosystem; and an introduction to the global ocean/atmosphere system and the impact of the oceans on our lives.

This course replaces GEOL 115. Credit for only one of these courses will be applied toward graduation.

HEM 125/CJ 125 Introduction to Homeland Security 3 credits

Prerequisite: None
This course provides an overview of homeland security, its history, and evolution since the September 11th terrorist attacks in New York City. Also covered is the need to balance terrorism threats, natural disasters, and other hazards. The role of communications, intelligence, counter-terrorism, border security, transportation safety, cybersecurity, and critical infrastructure protection. Preparation, mitigation, and recovery using the all-hazards approach will be studied. As well as the hierarchical organizational of the Department of Homeland Security and the various programs undertaken by government agencies, community organizations, and the private sector in support of homeland security.

This course is cross listed with CJ 125. Credit for only one of these courses will be applied toward graduation.

HEM 125/CJ 125 International Terrorism 3 credits

Suggested prerequisite: CJ 101 Intro to Criminal Justice or equivalent
This course provides an examination of the historical, political, social, religious contexts, and modern manifestations of international terrorism and terrorist organizations. Terrorism originating in the Middle East, Europe, Asia, and Latin American will be included.
This course is cross listed with CJ 350. Credit for only one of these courses will be applied toward graduation.

HEM 125/CJ 125 Domestic Terrorism 3 credits

Suggested prerequisite: CJ 125 Introduction to Homeland Security or equivalent
This course introduces students to terrorism originating in the United States. Homegrown terrorism and its unique characteristics will be studied, as well as the foundations of domestic terrorism, with an examination of its history and philosophies. Topics include current and active domestic terrorist groups, their organizational structure, philosophies, and networks. Students will study the causes and dynamics of different types of domestic terrorism, along with the strategies used combating this phenomenon.
This course is cross listed with CJ 352. Credit for only one of these courses will be applied toward graduation.

HEM 125/CJ 125 Emergency Management 3 credits

Suggested prerequisite: CJ 125 Introduction to Homeland Security or equivalent
This course covers the organization and management of the various aspects of emergencies due to natural disasters, man-made disasters, terrorism, or war. Reactive procedures covered will include response, mitigation and recovery efforts. Proactive measures will include the preparedness and training of both government entities and private citizens.
This course is cross listed with CJ 356. Credit for only one of these courses will be applied toward graduation.
HEM 450/CJ 450 Counterterrorism  
3 credits
This course introduces the principles and approaches to countering terrorism in the United States and abroad. Students will examine the question of jurisdiction and activities associated with counterterrorism; whether they should be primarily law enforcement-oriented or military-oriented. The legal and ethical concerns and the restrictive rules of collecting intelligence by military and other non-law enforcement organizations are analyzed.

This course is cross listed with CJ 450. Credit for only one of these courses will be applied toward graduation.

HEM 458/CJ 458 Unconventional Weapons Preparation and Response  
3 credits
Suggested prerequisite: CJ 125 Introduction to Homeland Security or equivalent.
This course provides students with a basic understanding of the strategies for preparing for, and responding to chemical, biological, radiological and nuclear (CBRN) incidents and disasters; whether natural, accidental, or man made. Incident planning, assessment, mitigation and recovery from those situations will be addressed. This course is intended for homeland security and emergency management students. However, it may also be used as an AP elective in other areas.

This course is cross listed with CJ 458. Credit for only one of these courses will be applied toward graduation.

HEM 460/CJ 460 Infrastructure Security and Policy  
3 credits
Suggested prerequisite: CJ 125 Introduction to Homeland Security or equivalent.
This course deals with the various methods and techniques that have been developed to protect society’s critical infrastructure, as well as their influence on policy and decision-making. It covers the historical background of critical infrastructure and its importance; exploring current trends in infrastructure sensitivity and the impact on a networked environment. The course embraces an all-hazards approach to homeland security, critical infrastructure protection and assurance, and emergency management. The course will examine the National Response Framework (NRF) and how it can be applied locally; public-private partnerships; information sharing; the need for resiliency planning to respond to changes within the threat environment; risk assessments; and new, related regulations.

This course is cross listed with CJ 460. Credit for only one of these courses will be applied toward graduation.

HEM 498 Homeland Security and Emergency Management Capstone  
3 credits
Prerequisite: Students must have completed all other requirements of the degree, completed the written English requirement, and completed the Information Literacy requirements. Students must be within 12 credits of degree completion.
The Homeland Security and Emergency Management capstone is intended as the last course in the major. Throughout the term, students will discuss various topics in regards to the homeland security enterprise and emergency management; including preparation, mitigation and recovery from man made, natural and accidental disasters. Students will also research and submit application papers, the topics of which will reflect the integrated components of homeland security and emergency management. This course is designed to allow students the opportunity to demonstrate their abilities to understand, analyze, synthesize and present the content, concepts, policies and theories in the field.

HIS 101 United States History I  
3 credits
Prerequisite: None
This introductory course on the early history of the United States covers the era from pre-European contact Native American societies to the end of the Reconstruction after the Civil War. The course examines the major political, social, and economic trends in the American colonies and new nation from the fifteenth through the
mid-nineteenth centuries. Students will engage in primary and secondary source analysis to examine history through multiple lenses and perspectives. The course also focuses on diversity and cross-cultural encounters that contributed to the creation of the United States.

**This course uses all open educational resources, and does not require the purchase of a textbook.**

**HIS 102 United States History II** 3 credits

*Prerequisite: None*

This introductory course on the recent history of the United States covers the era from the end of Reconstruction through the start of the twenty-first century. The course examines the evolution of the United States from a nation torn apart by the Civil War to a global superpower. Students will study major political, social, and economic trends in the context of the nation’s diverse and multicultural history. Students will engage in primary and secondary source analysis to examine history through multiple perspectives. The course also focuses on diversity and cross-cultural encounters that contributed to the development of the United States.

This course uses all open educational resources, and does not require the purchase of a textbook.

**HIS 120 World History I** 3 credits

*Prerequisite: None*

This introductory course examines the historical development of world civilizations from 1500 to the present. It focuses on economic, social, political, and cultural distinctions and integration across three distinct historical periods: first, the period of increased global interaction and interdependence (1500s–1600s); second, the period of development of modern economic, social, and political patterns (1800s–1945); and finally, the contemporary period of Cold War tensions and globalization (1945–present). Students will explore the impact of political movements, economic transitions, cross-cultural interaction, and technological developments on the contemporary world. They will also address the actions of notable individuals within the context of their respective times.

**HIS 121 World History II** 3 credits

*Prerequisite: None*

This introductory course examines the historical development of world civilizations from 1500 to the present. It focuses on economic, social, political, and cultural distinctions and integration across three distinct historical periods: first, the period of increased global interaction and interdependence (1500s–1600s); second, the period of development of modern economic, social, and political patterns (1800s–1945); and finally, the contemporary period of Cold War tensions and globalization (1945–present). Students will explore the impact of political movements, economic transitions, cross-cultural interaction, and technological developments on the contemporary world. They will also address the actions of notable individuals within the context of their respective times.

**HIS 221 Introduction to Public History: Museums, Media and the Material World** 3 credits

*Prerequisite: None*

This course introduces students to the field of history in the everyday world, outside of academic textbooks and classrooms. Public history is the study of applied history for public audiences. This includes the historical narratives at museums and battlefields, in popular culture, such as television, films, and historical novels, and the ways in which history is used by the government and corporations. This course uses readings and media to evaluate the ways in which public history narratives are created and shaped, as well as how they are interpreted and re-shaped by their audiences. We will examine multiple subfields including history as entertainment, historic preservation, archaeology, family genealogy, and more.

This course replaces HIS 220 Introduction to Public History. Credit in only one of these courses may be applied toward graduation.
HIS 285/ENG 285 Witches: A Literary and Cultural History  3 credits
Suggested prerequisite: HIS 121 (World History II) or equivalent

The figure of the witch has enjoyed a long literary and cultural history. Their stories are grounded in historical realities that often intersected very closely with literary portrayals, and in some cases the fictional telling of their stories reinforce and/or re-present the historic realities experienced by those labeled witches. This interdisciplinary course will examine historical accounts and literary imaginings of witches from 1500 to the present with particular focus on the height of the witchcraft trials in the sixteenth and seventeenth centuries. Particular attention will be given to the mentalities of pre-modern peoples in Europe and North America and the belief system that fostered the accusation, prosecution, and execution of alleged witches. We will also examine various fictional representations of witches including The Witch of Edmonton, Macbeth, and The Crucible, each of which will be examined within the historical context in which they were written.

This course is cross listed with ENG 285. Credit for only one of these courses will be applied toward graduation.

HIS 290 Pirates on the High Seas  3 credits
Prerequisite: None

This course explores the real history of the buccaneers, privateers, and sea dogs of the Golden Age of Piracy (1650–1730). It provides an in-depth analysis of the social and cultural world of pirates, including pirate codes of justice, race and gender in the movement, and the role of piracy in the construction of empires. Students compare such iconic depictions as Treasure Island to the historical reality, and draw comparisons to modern day piracy. Students in this course also hone their primary source analysis skills and create a multimedia presentation, which are critical skills for upper-level course work and a wide variety of careers.

HIS 300 European Renaissance  3 credits
Suggested Prerequisite: HIS 120 World History I or equivalent

This course examines the major themes of the Renaissance in Europe, including historical questions about science and belief, voyages of discovery, the rise of the nation-state, the rise of capitalism, and cultural and social change from the Medieval world. Through primary and secondary source reading, students will also investigate the major personalities of the period and their influence on society, politics, and culture in Renaissance-era Europe.

HIS 312 Global Popular Culture Since 1945  3 credits
Prerequisite: None

This course examines the relationship between culture and key historical trends since the end of the Second World War. Students will investigate various popular cultural sources, from literature to consumer goods to television, music, and film from across the globe to better understand the role of culture in shaping world events, particularly as a result of globalization. From the Cultural Cold War to Postcolonialism and the War on Terror, the course considers the role of popular culture in shaping the contemporary world and our understanding of the past.

This course is a dual-level course. Students wishing to earn undergraduate credit should register for HIS 315. Students planning to complete graduate level credit should register for MLS 515. Students will not be permitted to have credit for both courses. Students in MLS 515 should anticipate additional reading and writing requirements throughout duration of the course. Students should contact an Academic Advisor to plan for the best course to complete remaining requirements.

HIS 321 Colonial America  3 credits
Suggested Prerequisite: HIS 101 United States History I or equivalent

This course explores the social, cultural, and political developments of the European colonies in North America from the first contact between indigenous and colonizing cultures to the eve of the American Revolution. Students will
explore themes including the origins of slavery, capitalism, consumerism, and religious revivalism, as well as the interactions between diverse indigenous cultures and migrating and colonizing people of African and European ancestry. Through primary and secondary source analysis, students will also hone their research and critical thinking skills, useful in a wide variety of careers.

**HIS 322 Revolutionary America** 3 credits
*Suggested prerequisites: HIS 101 United States History I or equivalent recommended*
This course examines the conditions in both the American colonies and Great Britain that caused resentment, rebellion, a declaration of independence, war, and eventually led to the formation of a new kind of government. This course will be a thematic exploration into some important historical problems that remain central to American life and culture, including the origins and development of democracy and republicanism, the role of women, slaves, and Native Americans in the upheaval, and the way we frame our nation’s founding today. Through primary and secondary source analysis, students in this course will also gain valuable research, writing, and critical thinking skills useful in a wide variety of careers.

**HIS 325 African American History** 3 credits
*Suggested Prerequisite: HIS 101 United States History I or HIS 102 United States History II or equivalents*
This course surveys the history of the African American people from their origins in Africa, through slavery and emancipation, waves of migration from countryside to city and South to North, wars and depression, the Civil Rights and Black Power Movements, up to the present. Students will focus on questions of social development, political struggle, culture, and identity.

**HIS 326 A History of Women in America** 3 credits
*Suggested Prerequisite: HIS 101 United States History I or HIS 102 United States History II or equivalents*
This course examines the history of the United States from the colonial period to the 21st century from the perspective of women. The course will focus on women’s roles as individuals, constituents of families, and community members. Students compare the myths and ideology of womanhood with the diversity of American women’s experiences. The course also examines the impact of changes in the economy, society, and politics on women’s roles and perspectives. Students in this course will enhance their understanding of diversity and hone their research and source analysis skills, useful in a wide variety of careers.

**HIS 335 United States Civil War** 3 credits
*Suggested prerequisites: HIS 101 United States History I or equivalent*
This course investigates the military, cultural, social, and political history of the American Civil War. Topics students examine include: the causes of the war, slavery and emancipation, key turning-point battles of the eastern and western theaters, leadership styles of Union and Confederate generals, the home front, the character and significance of Abraham Lincoln’s presidency, Reconstruction, and the legacy and public memory of the war up through today.

This course replaces HIS 334. Credit for only one of these courses will be applied toward graduation.

**HIS 350 World War I** 3 credits
*Suggested prerequisite: HIS 121 World History II*
Known colloquially as the “Great War” and the “War to End All Wars,” World War I was a watershed event in the twentieth-century. Borne out of imperial rivalries and complex European alliances, the war erupted suddenly in 1914 and ended more than four years later, at the eleventh hour of the eleventh day of the eleventh month. In the years between, the Allied and Central Powers engaged in a horrific and devastating “Total War,” drafting unprecedentedly...
large armies and transforming their economies to support the war effort, yet producing little more than stalemate and death on much of the Western Front. The Great War changed how wars were fought and introduced new technology to the battlefield. Students in this course will examine the origins and consequences of the war, the major strategic decisions, as well as the intertwining history on the homefront of the combatant nations. Students will engage with the historical material through innovative games and simulations which are designed to allow students to experience the war’s major decision points and strategy as if they were really there. Along with the simulations, students will read primary source accounts of the war to understand the war’s significance, its toll on the “Lost Generation,” and its ramifications today as we commemorate the war’s one-hundredth anniversary.

This course includes gaming technology that requires students to have a web browser that meets the minimum Excelsior system requirements.

This course uses all open educational resources, and does not require the purchase of a textbook.

**HIS 352 U.S.-Vietnam War** 3 credits

*Suggested Prerequisite: HIS 102 United States History II or HIS 121 World History II*

This course explores the origins, causes, consequences, and legacies of the US-Vietnam War from the era of French colonialism through the recent past. Students relate the war to some broader themes in global history, including colonialism, the Cold War, nationalism, and historical memory. Through individual accounts, students consider the personal and enduring legacy of the war in both the United States and Vietnam. Students also hone their primary source analysis and research skills, useful in a wide variety of careers.

**HIS 353 Holocaust** 3 credits

*Suggested Prerequisite: HIS 121 World History II or equivalent*

This course examines the “Holocaust,” the deliberate, systematic, and mechanized murder of more than six million Jews and hundreds of thousands of other victims by Nazi Germany during World War II. The class will take a broad view of this atrocity, seeking to explain why and how it was possible and, ultimately, asking what lessons we can learn from this history for the present day. The Holocaust will be approached as an event with multiple, complex causes: a centuries-old history of European anti-semitism; the advent of modern “racial science” and ethnic nationalism; the global economic, social, and political crises of the early twentieth century; the rise of Adolf Hitler and the Nazi Party in Germany; the structure of the Nazi State; the context of Hitler’s “war of annihilation” on the Eastern Front; and the willingness of many “ordinary” Germans and non-Germans to participate in the Nazi’s plans. We will look at the experiences of victims and “bystanders” as well as perpetrators in order to understand this tragedy from multiple perspectives. Students will gain valuable research, writing, and critical thinking skills while also learning to analyze complex ethical problems.

**HIS 354 Transatlantic Slave Trade** 3 credits

*Suggested prerequisite: HIS 101 US History I or HIS 121 World History II or equivalents*

This course examines the nefarious transatlantic slave trade which drew together multiple continents and operated from 1441–1867. Topics covered include: the origins of the racialized system of slavery, individual accounts of the trade, the consequences of the trade on the economies, societies, and cultures of Africa, Europe, and the Americas, and abolition. Students use primary and secondary sources and the transatlantic slave trade database to enhance their research and critical thinking skills, useful in a wide variety of careers.

**HIS 356 The Global Cold War** 3 credits

*Suggested prerequisite: HIS 121 World History II or equivalent*

This course examines the period in world history from the Yalta Conference in 1945 to the end of the Soviet Union in 1991, generally called the Cold War. Students examine the political, economic, and militaristic motivations behind superpower behavior and the role of these actions in laying the foundations for global circumstances today. In exploring the relationship between the
First, Second, and Third Worlds in this period, students understand the complex mix of individuals and ideology that shaped the events of the Cold War and continue to dramatically shape global affairs today.

This course is a dual-level course. Students wishing to earn undergraduate credit should register for HIS 356. Students planning to complete graduate level credit should register for MLS 556. Students will not be permitted to have credit for both courses. Students in MLS 556 should anticipate additional reading and writing requirements throughout duration of the course. Students should contact an Academic Advisor to plan for the best course to complete remaining requirements.

This course replaces HIS 351. Credit for only one of these courses will be applied toward graduation.

HSC 105/BIO 105
Anatomy and Physiology I (Non Lab) 3 credits
Prerequisite: None
This course focuses on the structure and function of the human body. Topics and body systems that will be studied include: cells, blood, integumentary system, muscular system, nervous system, skeletal system and the endocrine system.

This course is cross listed with BIO 105. Credit for only one of these courses will be applied toward graduation.

HSC 105L/BIO 105L
Anatomy and Physiology I Lab 1 credit
Prerequisite: None
This is a laboratory course that utilizes simulations and hands-on experiments to study body systems that include: cells, blood, integumentary system, muscular system, nervous system, skeletal system and the endocrine system. Students use the scientific method in an experimental environment, learn and use safe laboratory practices, perform dissections, perform experiments, gather and analyze data, and present data and conclusions in scientific laboratory reports.

This course is cross listed with BIO 105L. Credit for only one of these courses will be applied toward graduation.

HSC 106/BIO 106
Anatomy and Physiology II (Non Lab) 3 credits
Prerequisite: None
This course focuses on the structure and function of the human body. Topics and body systems that will be studied include: concepts of human development, fluid and electrolyte balance, the cardiovascular system, respiratory system, digestive system, temperature and metabolism, urinary system and reproductive system.

This course is cross listed with BIO 106. Credit for only one of these courses will be applied toward graduation.

HSC 106L/BIO 106L
Anatomy and Physiology II Lab 1 credit
Prerequisite: None
This is a laboratory course that utilizes simulations and hands-on experiments to study body systems that include: temperature regulation and metabolism, fluid and electrolyte balance, digestive system, respiratory system, cardiovascular system, urinary system, the reproductive system, and human development and genetics. Students use the scientific method in an experimental environment, learn and use safe laboratory practices, perform dissections, perform experiments, gather and analyze data, and present data and conclusions in scientific laboratory reports.

This course is cross listed with BIO 106L. Credit for only one of these courses will be applied toward graduation.

HSC 112 Medical Terminology 3 credits
Prerequisite: None
This course will prepare the student to use and understand medical language both auditory and written. Students will learn how to deconstruct medical terms to fully comprehend their meaning with word roots, word structure, suffixes and prefixes, and will practice using special vocabulary of specific human biological systems in the context of medical documents.

HSC 121
Health Care in the United States 3 credits
Prerequisite: None
This course provides the students with opportunities to explore the structure and function of the...
United States (US) health care delivery system. Students will learn about health care finance, settings for care, modes of delivery, the role of technology, and key trends in health care.

**HSC 124 Professionalism in Health Care** 3 credits

*Prerequisite: None*

This course provides students with an opportunity to explore multiple aspects of professionalism in the health care occupations. Topics covered include cultural competence, legal and ethical issues, effective communication, interdisciplinary teams, and professional competence.

**HSC 134 Medical Billing And Coding** 3 credits

*Prerequisite: None*

According to the U.S. Bureau of Labor Statistics, jobs for certified medical coders will increase through the year 2022. By taking this course, students will gain knowledge of medical coding guidelines and regulations including compliance and reimbursement, and assigning accurate medical codes for diagnoses, procedures, and services rendered by qualified healthcare providers in the office or healthcare facility setting.

**HSC 205 Introduction to Health Care Management** 3 credits

*Prerequisite: None*

This course will provide students with a basic overview of the necessary skills and knowledge for a career in health care management. A broad overview, with a health care perspective, will be presented on such topics as leadership, strategic planning, marketing, finance, quality, technology, legal issues, and human resources.

**HSC 214 Ethics and the Health Professions** 3 credits

*Prerequisite: None*

This course provides students with an opportunity to explore ethical principles and apply ethical reasoning to dilemmas in health care environments. During this course, students will discuss multiple challenges faced by health care professionals and approaches a health care manager can use to protect the rights of individuals, families, and staff.

**HSC 220/SPA 220 Spanish Communication for the Health Care Professions** 4 credits

*Prerequisite: None*

This course introduces novice Spanish language concepts and will prepare students to speak, listen, write, and read in Spanish within a cultural context. Students will develop the cultural competencies needed to care for the Spanish-speaking individuals in a variety of health care situations. And will learn when it is necessary to use an interpreter. The course presents grammar, vocabulary, and pronunciation as crucial tools for effective communication.

This course is cross listed with SPA 220. Credit for only one of these courses will be applied toward graduation.

**HSC 221/SOC 221 Why We Overeat: Perspectives on Nutrition** 3 credits

*Prerequisite: None*

This course examines the mechanisms of America’s number one public health issue: the obesity epidemic and why our nutritional needs no longer drive our dietary habits. Rather, the food industry stimulates our appetites by creating low-priced products using the highly addictive ingredients of sugar, fat, and salt. This sets in motion a cycle of desire and consumption that leads to a nation of overeaters. Students explore other, environmental factors such as increased access to motor vehicles, mechanization of work, less emphasis on physical activity at school and at home, and the emergence of the Internet and television as principal sources of entertainment and sedentary lifestyles. This course reviews the individual and societal factors that have resulted in the obesity epidemic and provides helpful tools to find solutions.

This course is cross listed with SOC 221. Credit for only one of these courses will be applied toward graduation.

**HSC 235 Sex, Gender And Health** 3 credits

*Prerequisite: None*

Students are introduced to issues in gender health from the biopsychosocial perspective. The role of social norms and expectations, social and political policy, family and community, lifestyle factors, will be explored in the context of health
outcomes. Disparities that individuals face in the health care system based on sex and gender will be examined.

**HSC 240/SOC 240**  
**Addictions in America**  
3 credits  
*Prerequisite: None*

This course helps students develop a greater understanding of a variety of addictions. Using an eco-systems approach, the addictive process and recovery will be studied, including the reciprocal interaction between addicted individuals and their various social systems. Students will examine substance abuse and behavioral compulsions in considerable detail with a focus on addiction in various populations as well as the business of drugs and prevention. Attention will be given to the biological and genetic factors in the etiology of addiction, family issues, and community responses. The consequences of addictions will be studied at the individual, family, and community levels. This course draws on current research in the field of addictions, and emphasizes critical analysis of contemporary controversies. This course builds on the foundations of health and human services knowledge and skills to help students better understand this complex problem affecting American society.

This course uses open educational resources, and does not require the purchase of a textbook.

This course is cross listed with SOC 240. Credit for only one of these courses will be applied toward graduation.

**HSC 247 Health in the News**  
3 credits  
*Prerequisite: None*

This course is designed to introduce students to the many ways in which health and illness are portrayed in the popular news media. Students will explore how messages are tailored for various audiences. This course will provide students with an opportunity to engage in dialogue and debate on health topics currently making headlines nationally and globally, and to distinguish fact from fiction. Students will learn what research and best practices tend to make the news and will explore strategies to bring best practices and research findings to lay audiences in a consumer-friendly and informative way.

**HSC 260/BIO 260**  
**Introduction to Human Genetics**  
3 credits  
*Prerequisite: None*

This course provides an overview of the field of Human Genetics from its beginning, Mendelian genetics, through the chromosomal theory of inheritance, the evolution of molecular genetics to the modern techniques of genetic engineering. Applications of human genetics in the healthcare field will be included with topics on genetic counseling and the biopsychosocial aspects of various genetic based diseases. The basic concepts in cell structure and function will be reviewed as a foundation. Discussion of political and sociological implications of the ever-expanding understanding of genetics and heredity will complement the exploration in this field.

This course is cross listed with SPA 220. Credit for only one of these courses will be applied toward graduation.

**HSC 262 Human-Animal Interactions in Health and Wellness**  
3 credits  
*Prerequisite: None*

This course provides an introduction to the field of human-animal interactions (HAI) from a biopsychosocial perspective. Students will explore current theories and understanding of the power of the human-animal bond in promoting physical, psychological, and emotional health and wellness across the lifespan. An historical perspective and current issues will be explored. Students will examine the roles of companion pets and therapeutic pets, as well as ethical and legal considerations in animal-assisted interventions in the home and within the health care system.

**HSC 292 Associate In Health Sciences Capstone**  
3 credits  
*Prerequisite: Students must have completed all other requirements of the professional and additional credit components degree including the written English requirement, and be within 9 credits of completing the arts and sciences component.*

This course will assess the knowledge students gained throughout the curriculum of the Associate’s in Health Science degree program. Students will have the opportunity to demonstrate their
understanding of the health care delivery system as it relates to specific health care professions. Students will also exercise and refine their professional skills through activities such as resume writing and responding to interview questions. Students will apply effective critical thinking and communication skills throughout the course.

**HSC 301 Foundations of Health Care Management** 3 credits

*Prerequisite: None*

This course provides students with the foundational knowledge required for the role of health care manager. Effective management is based upon an understanding of the system within which one works and the product or service one provides. Students will learn about the structure and function of the health care industry and the populations served, current challenges faced by the health care system, legal and ethical considerations of a manager, the complex fiscal challenges a manager faces while providing quality within a resource limited system, regulatory requirements, and the benefits that technology provides across the system as well as in the delivery of care.

**HSC 304 Exercise for Health** 3 credits

*Prerequisite: None*

People have long known about the importance of getting enough exercise. Yet life often gets in the way of developing sustainable exercise routines for healthy living. Lack of knowledge can put people at risk for injury. In this course, students learn how to develop safe, effective, and goal oriented exercise programs for both healthy people and those living with chronic illnesses or physical limitations. Current evidence-based exercise protocols and strategies are explored. Common myths are discussed. Motivational techniques for developing and sustaining exercise programs are examined.

**HSC 305 Critical Issues in Health Care Management** 3 credits

*Prerequisite: None*

This course provides you with an overview of current issues that influence the delivery of health care. During this course, you will investigate current trends and critical issues that have emerged in the early 21st century and will explore ways in which health care managers can respond to these changes. You will learn about opportunities as well as challenges present in today’s health care environment that are important to health care managers.

**HSC 310 Writing And Communication in the Health Science Professions** 3 credits

*Prerequisite: None*

Effective communication skills are vital in the health professions. Taking this course early in a degree program provides essential preparation for academic work. A broad range of topics are explored including communication styles, cultural awareness, communication through social media, writing as a process, and effective professional presentations. The essential skill of writing to persuade, while communicating important health practices, is practiced preparing for communicating with clients and the public. This is a writing-enriched (WE) course.

**HSC 312/PHL 312 Ethics of Health Care** 3 credits

*Prerequisite: None*

This interdisciplinary course guides students through a systematic analysis of contemporary ethical issues in health care. During the course, students will be required to differentiate ethical issues from other types of issues, demonstrate sound moral reasoning, and summarize the historical, legal, and healthcare policy dimensions of current health care issues of ethical concern.

This course is cross listed with PHL 312. Credit for only one of these courses will be applied toward graduation.

**HSC 314/SOC 314 Sociology of Health and Illness** 3 credits

*Prerequisite: None*

This course examines the influence of social and structural forces on health, illness, and the health care system in the US. Through scholarly readings, experiential learning activities, and reflective dialogue, you will explore the foundations of medical sociology, social causes and consequences of health and illness, the social
behavior of health care personnel and patients, the social role of the hospital; and, the complex issues surrounding health care reform, health care delivery, and social policy.

This course is cross listed with SOC 314. Credit for only one of these courses will be applied toward graduation.

HSC 316/PSY 316 Mind, Body and Health 3 credits

Prerequisite: None
This course examines the psychology of behavior as it relates to health and fitness. You will learn how stress and lifestyle, physical activity, and diet influence human health and fitness. We will examine health and fitness across the life-span, as well as how behavior impacts health and behavioral changes to improve health outcomes. We will study research to understand evidence-based practices that health practitioners use to promote healthy behavior. And learn how theories inform methods for influencing behavioral changes. You will develop a holistic plan for diet and physical fitness for various target populations. This course is appropriate for professionals working in personal health training or other health-related or psychology-related fields.

This course is cross listed with PSY 316. Credit for only one of these courses will be applied toward graduation.

HSC 320/SOC 320 Health Care Issues in Culturally Diverse Populations 3 credits

Prerequisite: None
This course introduces students to the concepts of culture and cultural diversity as they relate to health, illness, and the health care delivery system. There are many types of diversity that exist in our global society. We will examine the roles that belief systems, values, and health practices play in people’s interactions with health providers. Common myths and assumptions will be explored. We will also investigate strategies that health professionals can implement to create more inclusive services.

This course is cross listed with SOC 320. Credit for only one of these courses will be applied toward graduation.

HSC 330 Legal and Regulatory Environment of Health Care 3 credits

Prerequisite: None
In this course you will be introduced to U.S. law and the legal process in healthcare. You will acquire a foundation for understanding the scope, limits and consequences of legal obligations. You will also learn about the governing bodies and regulatory controls which set standards for healthcare, and you will apply your knowledge in identification of legal issues often encountered in health administration.

HSC 331/PSY 331/SOC 331 Psychosocial Impact of Chronic Illness on Person and Environment 3 credits

Prerequisite: None
Chronic illness affects individuals, families, communities, and society. Students will learn how to critically examine these complex interactions from both theoretical and practical perspectives. This course explores the psychological and social aspects of chronic illnesses, with an emphasis on empowerment of individuals living with them. Students will develop an understanding of stigma in the experience of chronic illness. Emphasis will be placed on connecting individuals, families, and communities with resources to successfully manage chronic conditions.

This course is cross listed with PSY 331 and SOC 331. Credit for only one of these courses will be applied toward graduation.

HSC 365 Research for Evidence Based Practice 3 credits

Prerequisite: None
This course offers the student opportunities to evaluate research findings to guide decision making and evidence-based practice. Students are introduced to characteristics of qualitative and quantitative research, theoretical assumptions, and methodologies. Ethical considerations in research, such as protection of human subjects and informed consent are explored.
HSC 388
Introduction to Health Coaching 3 credits
Prerequisite: None
This course introduces students to the field of health and wellness coaching. Students explore coaching across multiple settings and will learn core skills to successfully build relationships with clients and achieve coaching expertise. This course takes students through the process of developing a person-centered assessment plan, using theory and evidence-based practice to support their decisions. Fundamental coaching skills such as motivational interviewing, mindfulness, active listening, and cultural awareness, will be learned and career opportunities discussed.

HSC 402 Managing Stress 3 credits
Prerequisite: None
This course focuses on the nature of stress and the connection between mind, body and spirit. Students will study the different theoretical models of stress from a variety of theorists while exploring coping strategies and relaxation techniques for healthy living in today’s changing world. Students will also create an individualized stress management program plan.

HSC 403 Nutrition for Wellness 3 credits
Prerequisite: None
This course uses several short game-based learning activities to learn decision-making about nutrition based on environmental circumstances and health conditions. Students learn how nutrition relates to health, wellness, and disease prevention. Students develop personalized nutrition plans and gain an understanding of the impact of nutrition at all stages of life. Students will gain knowledge on how to separate fact from fiction. Food safety and innovations in food technology will be examined.

HSC 404 Organizational Behavior in Health Care Environments 3 credits
Prerequisite: None
This course provides you with an opportunity to explore organizational theory and behavior within the context of the health care environment. Driven by a mission of care and service, health care organizations have a distinct culture. You will examine the culture of health care and how it impacts the way in which health care organizations and the people who work within health care interrelate. Health care organizations will be viewed from the organizational, group, and individual levels. You will focus on the practical applications of theories and concepts of behavior within health care organizations.

HSC 407 Health and Wellness 3 credits
Prerequisite: None
This course begins with an opportunity to assess health and wellness at individual and community levels. From there you will learn to apply theory and evidence-based practice to develop health and wellness interventions, including individual planning and group-based programs. You will learn the essential components of creating interventions directed toward specific at risk populations, as well as targeting specific behaviors like smoking cessation and obesity. You will discover the important role health and wellness practitioners play in supporting individual, group and community health and wellness.

HSC 413
Principles of Teaching and Learning 3 credits
Prerequisite: None
In this course students will explore the importance of health education as a role for health professionals. Ethical and legal implications for health education will be investigated. Students will develop skills to assess and enhance motivation using health education. Students will gain an in-depth knowledge of learning theories and apply theories to diverse groups of learners at various life stages.

HSC 414/NUR 414 Budget and Finance in Health Care Organizations 3 credits
Prerequisite: None
This course guides students through an examination of financial principles and techniques used by managers in health care facilities. Budget
preparation and management, and analysis in the context of the evolving health care environment are the focus of this course. This course is required for students enrolled in the Nursing Management Certificate Program, Bachelor of Science in Health Care Management, the Management emphasis of the Bachelor of Science in Health Sciences, and is used to fulfill nursing elective credit requirements for the Bachelor of Science in nursing program.

This course is cross listed with NUR 414. Credit for only one of these courses will be applied toward graduation.

HSC 418/NUR 418
Human Resource Management in Health Care Organizations 3 credits
Prerequisite: None
This course explores the human resource function of the manager in a health care organization. It covers a wide range of topics including staffing, worker safety and security, general employment practices, organizational development and employee relations. Upon completion of the course, students will be able to implement/integrate evidence-based human resource strategies into the day-to-day management of their departments.

This course is cross listed with NUR 418. Credit for only one of these courses will be applied toward graduation.

HSC 424 Health Care Education: Methods and Strategies 3 credits
Prerequisite: None
This course provides students with the knowledge and skills necessary to plan, implement and evaluate educational strategies that can be used with health care consumers. As the course progresses, students will complete an educational project, step by step, from identifying a learning need, developing a detailed teaching and evaluation plan.

HSC 427 Social Justice and Aging 3 credits
Prerequisite: None
Do older adults in the United States live in a just society, a society that provides the resources they need to thrive? This course explores the concept of social justice and the challenges faced by older adults in 21st century America. You will explore how social, economic, and political forces influence healthy aging and quality of life for older adults. Through analysis of real stories and case studies, you will examine social justice theories and public policies, with emphasis on application to real life issues around equitable access to health care, housing, and income.

HSC 431/NUR 431 Introduction to the Health Care Delivery System 3 credits
Prerequisite: None
This course provides a comprehensive overview of the U.S. health care delivery system and the forces that influence it. Students will examine the continuum of health care delivery from prevention through individualized clinical health care, including the importance of interprofessional collaboration. Students will explore historical influences on today’s U.S. health care delivery system and will have the opportunity to investigate the roles of government, finance, regulators, and providers in the health and public health arenas. The inter-connectedness of the U.S. health care delivery system with global health care systems will be explored.

This course is cross listed with NUR 431. Credit for only one of these courses will be applied toward graduation.

HSC 434 Health Literacy Issues and Solutions 3 credits
Prerequisite: None
Health literacy has recently shifted to become a primary focus of many health organizations. From directions on taking medications to introducing healthier lifestyle options, the ability to provide comprehensive care rests in the ability to translate critical health information into a format that is meaningful and applicable for a client. This practical, hands on course will help students build a portfolio of resources to assess learning abilities and style, possible teaching methods, and recheck methods to ensure client comprehension.
HSC 440 Leadership and Management in Health Care Seminar  
**3 credits**  
**Prerequisite:** None  
Using the teachings of contemporary leadership mentors, students will build an individualized professional leadership plan where they envision themselves as leaders within their professional career role. Skills for decision-making, motivating, negotiating and professionalism will be learned. Students will demonstrate foundational skills of oration, self-awareness, and use of an ethical lens, so important for health care leaders.

HSC 445 Introduction to Health Care Informatics  
**3 credits**  
**Prerequisite:** None  
This multidisciplinary undergraduate course is designed to introduce students to the role of information management in health care. During the course, students will explore benefits, issues, risks and challenges related to the electronic health record and other information systems in the health care environment. Students will also explore the field of consumer informatics and its use in providing health related information to health care consumers. The course will address the role of the health care provider in working with computers and information management systems in health care.

HSC 450 Economics of Health Care  
**3 credits**  
**Prerequisite:** None  
This course introduces you to the field of healthcare economics. During the course, you will learn the concepts and principles of microeconomics as they apply to healthcare. You will explore why and how healthcare differs from other markets. Topics to be covered include the cost of health care, funding of health care, and government regulation. In addition, there is a focus on behavioral economics and emerging trends in multiple health care settings.

HSC 464 Health Sciences Capstone  
**3 credits**  
**Prerequisite:** Students must have completed all other requirements of the health sciences component, completed the written English requirement, and be within 9 credits of completing the arts and sciences component.  
This end-of-program capstone course provides students with an opportunity to demonstrate the knowledge, principles, and skills used to analyze problems prevalent in the health sciences field and propose solutions. Using a variety of case analysis tools students will analyze several cases, including one focused on a particular area of emphasis. Students will be required to propose evidence-based solutions to address pressing problems revealed in these cases through a series of written papers and a persuasive oral presentation. The course also includes opportunities to explore and articulate professional development goals.

HSC 470 Healthcare Management Capstone  
**3 credits**  
**Prerequisite:** Students must have completed all other requirements of the professional and additional credit components degree including the written English requirement, and be within 9 credits of completing the arts and sciences component.  
This end-of-program capstone course of the BS in Health Care Management curriculum requires students to demonstrate previously learned knowledge, principles, and skills to analyze health science-based case problems. Using a variety of case analysis tools, students will analyze cases both as a member of a team and individually and will discuss case studies that examine the professional role in health care. This course provides students with an opportunity to demonstrate their ability to integrate and apply knowledge of the arts and sciences, business functions, and health care management principles and concepts.

HUM 200 Introduction to Humanities  
**3 credits**  
**Prerequisite:** None  
What’s so great about the Humanities? It’s about defying conventions, seeing differently, and changing reality. In this course, you’ll learn about an innovative architect who built a house on a waterfall; you’ll see a woman who disguised herself as a man just so she could paint; and you’ll learn about a composer who was also deaf. Students will be exposed to a survey of the visual arts, sculpture, architecture, music, literature, poetry, theater, cinema, and dance. Learn about Cubism, Expressionism, Impressionism, Pop Art,
Realism or Surrealism. View the Pantheon, understand The Pietà by Michelangelo, listen to Beethoven’s Fifth Symphony, read poetry by Robert Frost, and watch Swan Lake or Gypsy Dance. Explore the magnitude of human thought and creativity.

**HUM 230 The Ethics Of Friendship** 3 credits

*Prerequisite: None*

In this course, we explore the nature, meaning, and theories of friendship. We examine historical as well as contemporary understandings, tracing how friendship has evolved quite distinctly throughout certain periods in history. We survey some of the notable Western philosophies and literary commentaries on friendship, from thinkers like Aristotle to Foucault. We contemplate how definitions of friendship may be expanding, and how social media might be impacting our understanding of friendship. We specifically observe the intersection of friendship with marriage/partnership, work, disabilities, sexuality, and religion.

**HUM 236 Leadership in Film** 3 credits

*Prerequisite: None*

Have you ever been in a tough spot at work and had to tell yourself, like Gene Kranz did during the Apollo missions, that “Failure is not an option”? Or maybe you’re more of an Erin Brockovich-type who charms your way into getting what you want. If you’re someone who loves to learn by example, watching films specifically targeted to illustrate leadership concepts is a great way to learn how to maximize employee loyalty, increase profits, and master leadership principles.

Students will be expected to observe, identify, and report on key leadership, management, and organizational styles portrayed in the selected films. Many of the films included in the course are classic, iconic, and/or award-winning.

No textbook required, only films to view and articles to read.

The content of the films, as well as the content of many of the discussions, will contain mature themes and subject matter.

**HUM 252/ENG 252 Mythology** 3 credits

*Prerequisite: None*

Is Thor greater than Zeus? Can vampires be good guys? Who gets to live forever and why? Explore these questions and other mysteries of the universe as we track the enduring role of mythology in our lives. Get to know Hercules, Cupid, Prometheus and Pandora. Read distinguished scholars like Mircea Eliade, Northrop Frye, and Carl Jung. Discuss the hero’s journey, read creation myths, and watch Star Wars and Harry Potter. A healthy imagination and a love of action and adventure required!

ENG 252 is cross-listed with HUM 252. Students may elect to register for either course number but may not receive credit toward graduation for more than one course.

Please be advised that the content of the films and television episodes may contain mature themes and subject matter.

**HUM 300 Ethics** 3 credits

*Suggested prerequisites: Completion of INL and WER.*

Why doesn’t Batman kill the Joker? Can cartoons, such as South Park or even The Simpsons, encourage deep reflection or virtuous behavior? With this course, you can appreciate ethics an easier way—by exploring moral issues through popular culture. And, it’s a lot more fun. The course uses literature, music, film, cartoons, blogs, and the performing arts to investigate enduring human questions and controversial issues to deepen your engagement of the ethical dimensions of our world. Your foundation includes traditional ethical theories such as relativism, utilitarianism, and virtue ethics and, also, the more current feminist, environmental, and global ethical theories.

The required textbook is Introducing Philosophy Through Pop Culture: From Socrates to South Park, Hume to House, but it is also available as an e-book through the Excelsior Library in a limited capacity. All other materials for the course are free, accessed either through the library or online.

If you are a military student, this course may help you apply ethical concepts to civilian contexts.

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Disclaimer: Throughout the course, there will be subject matter and material covered in the readings and discussions of a mature or adult nature. In addition, this course requires that some television shows or movies must be viewed. Please use your own discretion to gauge whether or not this course is right for you.

HUM 305 Think Big: Innovations In Art, Communication, And Culture 3 credits
Prerequisite: None
This class is a fascinating contemporary exploration of how and under what conditions innovation has occurred. This class explores both eureka moments and the deliberate collaboration it requires to generate transformative ideas. We will investigate innovative solutions from across the globe, in the workplace, and in your personal life. No matter what your interests or occupation—from technology to business to the arts—this course offers you tools to learn how to think big.

This course uses all open educational resources, and does not require the purchase of a textbook.

HUM 306 Creative Problem Solving 3 credits
Prerequisite: None
Year after year, employers rate the ability to solve unstructured problems as an essential skill. In this course, you identify and apply problem solving processes, tools, and techniques to real world examples. By providing you with important groundwork in individual, collective, and cultural forms of creativity, you will be able to offer alternative or original solutions to contemporary problems, design effective products, or answer professional challenges. Given the rapid change of our economy, millions of workers are asked to learn new jobs or tasks for which there is no definitive procedure, so enhancing your creative problem solving skills now will prepare you for an unknown but exciting future.

This course uses all open educational resources, and does not require the purchase of a textbook.

HUM 307 Critical Thinking 3 credits
Prerequisite: None
One of the most pressing questions a student always has about any given course is, “How will this class help me in the real world?” A class on critical thinking is arguably the most useful and valuable course you can take, no matter what field of study you are pursuing. Not only will you learn how to effectively solve personal and professional problems and achieve goals, you will also deeply examine some of the most important issues in your life. Tackle real world situations, evaluate arguments from a range of perspectives, and skillfully articulate a position. By the end of the course, you will have mastered the understanding that it is not so much what you know, but how skillfully you think!

Throughout the course, there will be subject matter and material covered in the readings, viewings, or discussions that may appear to be controversial to some students. Please use your own discretion to gauge whether or not this course is right for you.

HUM 321/NUR 321 I Feel Your Pain: Illness and Empathy in the Arts 3 credits
Prerequisite: None
How do people experience being ill, and how does it change their lives? Children, parents, family, friends and even we, ourselves, will struggle with sickness, disease, and death. People do not simply suffer from diseases, but from the emotional, psychological, social and cultural dimensions of being an individual or a patient with a disease. What are the obstacles and triumphs experienced by a boy with autism? How does a woman with cancer feel about losing her hair? What’s it like for a transgendered person to be treated at a hospital? Through the use of film, music, art, poetry, and fiction, students feel and experience how illness or disease affects individuals; they also learn about illness from different perspectives, such as race, class, gender and sexual orientation. Lastly, this course provides many alternative perspectives on illness or the practice of medicine—outside the conventional views of medicine—concerning death, mental illness, grief and suicide.

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This course utilizes all open education resources (OERs) in order to keep the cost low for students and to keep current with new developments in this field of study.

HUM 325 Secrets: A Cyberculture Mystery Game 3 credits
Prerequisite: None
Do you want to have fun and learn at the same time? Take this course. Few forces in modern history have had such a wide-ranging effect on our contemporary identities as the global expansion of cybertecture. The Oxford dictionary defines it as, “The social conditions brought about by the widespread use of computer networks for communication, entertainment, and business.” This course provides you with an authentic learning experience and is unlike any other course you are likely to have encountered. Go on multiple quests; accumulate experience points, engage in lively Internet forums and work together to solve the Internet mystery at the heart of the course. Throughout your game play you will explore essential questions about how and why the Internet has changed and continues to change your sense of identity. You will create your own evolving digital story as you analyze, evaluate, and reflect on cyber-based phenomena such as social media, online games, Internet relationships, and engaging virtual realities represented by The Matrix and Snow Crash. Complete the course and you are a winner. Register now, and let the learning game begin!

HUM 350 War Stories 3 credits
Prerequisite: None
This course explores war through a compelling blend of literature, history, journalism, and film. Read stories from officers, the enlisted, prisoners of war, citizens, and even from the enemy. Read about a nurse’s experience from the Civil War or a Japanese soldier at Iwo Jima. Discuss controversial elements of war such as drone warfare or torture. Lastly, students will watch popular movies like Zero Dark Thirty and Lone Survivor.

Required books for the class are reasonably priced, and two books are free e-books.

INL 102 Information Literacy 1 credit
Prerequisite: None
This online self-paced course provides a broad overview of information literacy concepts. It introduces skills for locating, using, and evaluating various information resources, as well as discusses the legal and ethical uses of information. Students take five quizzes to help learn course content, and a Pass/Fail grade is determined by the final examination.

IT 200 Hardware and Software Essentials 3 credits
Prerequisite: None
Essentials (ITE) curriculum offers a hands-on, career-oriented learning experience with an emphasis on practical activities to help students develop fundamental computer and career skills. Essentials helps students prepare for entry-level career opportunities and the CompTIA A+ certification, which helps students differentiate themselves in the marketplace and advance their careers.

IT 210 Object Oriented Programming 3 credits
Prerequisite: Basic computer literacy. Knowledgeable about using computers and the Internet. Have a computer for course work. Knowledgeable about downloading programs from various Web sites. Knowledgeable about installing downloaded programs. During the first week of class, the student will be instructed on how to install JAVA and Net Beans in order to complete the programming assignments. Covers problem solving and algorithm development using the object-oriented programming language Java. Introduction to object-oriented features including encapsulation, inheritance, and polymorphism. Examines the development of processes of design, coding, debugging, and documentation. Focuses on techniques of good programming style.

IT 221 Introduction to Computers 3 credits
Prerequisite: None
This course provides students with a fundamental knowledge of the computer system and its components, including computer hardware and architecture, application software, operating systems, networks, and the Internet. Advanced topics such as information privacy and security,
database and data warehouse, data mining, and legal, ethical, and privacy issues in the information technology field will also be introduced in this course. Additionally, students will participate in learning activities to develop the needed skills to work with Microsoft Office suite.

**IT 240 Introduction to Programming** 3 credits  
*Prerequisite: None*  
This course is an introduction to the C++ programming language through a study of the concepts of program specification and design, algorithm development, and coding and testing using a modern software development environment. The student will grasp the basics of both procedural and non-procedural (Object Oriented) Programming. Topics covered include fundamentals of algorithms, problem solving, programming concepts, classes and methods, control structures, arrays, and strings. This course will serve not only as an introduction to programming in C++ but also as a preparation for a more advanced C++ course involving data structures and algorithmic development.

**IT 250 Business Data Communications** 3 credits  
*Prerequisite: None*  
This course offers an overview of the current theory and practice of business data communications and networks. It places emphasis on the role of the telecommunications industry in the growth of information societies and their reliance on knowledge and information services to stimulate economic growth. The course examines the seven-layered Open Systems Interconnection (OSI) reference model proposed by the International Standards Organization (ISO) and the notion of network architecture to manage information and communications.

**IT 321 Computer Systems Architecture** 3 credits  
*Prerequisite: TECH 205 Discrete Structures; IT 210 Object Oriented Programming or related course work*  
This course is an introduction to the basic components and structure of the computer. The course covers in detail basic Boolean algebra, fundamentals of computer design, instruction set principles, RISC/CISC processors, instruction and processor level parallelism, memory hierarchy, pipelining, assembly language, and parallel computer architectures. The course will also address the architecture and microprogramming of the processor.

**IT 360 Operating Systems** 3 credits  
*Prerequisite: IT 321 Computer Systems Architecture*  
This course offers an introduction to the basic components and structure of a generic operating system. It considers in detail processes, process management and synchronization, threads, interrupts and interrupt handling, memory management, virtual memory management, resource allocation, and an introduction to file systems, protection, and security.

**IT 370 Database Management Systems** 3 credits  
*Prerequisite: None*  
This course examines the technology and impact of the design of database systems on the organization. It covers the application, design, and implementation of database systems. Topics include an introduction to basic database concepts, database design principles including Entity-Relationship (E-R) diagrams and database normalization, SQL queries, transaction management, distributed databases, data warehousing, and database administration. The course focuses on the relational model.

**IT 371 Web Design and Development** 3 credits  
*Prerequisites: IT 210, IT 240, or any related programming course*  
The course will cover the fundamental principles of web programming and formatting. This will include learning the difference between client side and server side scripting technologies, effective use of web authoring tools and code development. The course will also cover web design standards and the need for integrating human-computer interaction principles in web design. The final project in the course will enable learners to apply current development and production practices to design web pages.
IT 375
Human Computer Interactive Design  3 credits
Prerequisite: None
This course examines human-computer interaction (HCI) and focuses on all aspects of user interface (UI)+ user experience (UX) design. Students will explore the fundamental concepts and methods involved in designing digital products, mobile applications, and websites. Students will be challenged to create a startup digital product in the form of a phone app, tablet app, or Web app/website. The course will be broken down into 8 stages (modules) which will break down the entire process that professional designers use every day to design the apps and/or websites that we love using today. Students will begin with the product brief (description, problem, audience, platform, etc.) and end with a high fidelity prototype of their newly designed mobile app or website. Each module will include assignments, discussions, and other activities related directly to that module.

IT 380 Overview of Computer Security  3 credits
Prerequisite: IT 250 Business Data Communications
This course will focus on providing you with insights, guidance, and best practices on the principles of information security. Students develop an understanding of the technologies and methods utilized to defend systems and networks. They learn to describe, evaluate, and operate a defensive network architecture employing multiple layers of protection, using technology appropriate for secure mission accomplishment. Students will also examine the various types of vulnerabilities (design and implementation weaknesses), their underlying causes, their identifying characteristics, the ways in which they are exploited, and potential mitigation strategies.

IT 390 Project Management  3 credits
Prerequisite: ENG 101 College Composition
This class is designed to train students in the principles of project management. Students study the skills required of a project manager as well as learn the methodologies, tools and processes used to succeed in this field. Interactive and self-study methods are used to enhance the students’ skills in planning and managing project scope, schedules, costs, quality, risks, communications, purchases, human resources and stakeholders. This course is writing intensive and has weekly writing assignments used to improve students’ ability to write professionally.

IT 402 Network Security  3 credits
Prerequisite: IT 350 Business Data Communications, IT 380 Overview of Computer Security or related course work
This course covers the foundations of network security and provides an in-depth review of commonly used security mechanisms and techniques, security threats and network-based attacks, applications of cryptography, authentication, access control, intrusion detection and response, security protocols (IPsec, SSL, Kerberos), denial of service, viruses and worms, software vulnerabilities, web security, wireless security, and privacy. Additionally the course covers important network security tools, applications, and methods for preventing breaches.

IT 404 Web Security  3 credits
Prerequisite: IT 380 Overview of Computer Security or related course work.
This course provides an overview of both Web application security concepts and software security concepts in general, including the current top 10 most critical Web application vulnerabilities identified by the Open Web Application Security Project (OWASP). Additionally the course deals with principles of securing common areas of functionality of Web applications and presents concepts regarding secure development and deployment methodologies, including Microsoft’s Security Development Lifecycle (SDL), OWASP’s Comprehensive Lightweight Application Security Process (CLASP), the Software Assurance Maturity Model (SAMM), and Building Security In Maturity Model (BSIMM).
IT 406 Computer Forensics 3 credits
Prerequisite: IT 380 Overview of Computer Security
This course emphasizes the technical and legal aspects of electronic evidence and the computer forensic investigative process. Topics include the discovery and recovery of electronic evidence stored on or transmitted by computers, networks, and cellular devices.

IT 408 Information Assurance Management 3 credits
Prerequisite: None
This course focuses on the protection of information systems against unauthorized access to or modification of information whether in storage, processing or transit, and against the denial of service to authorized users, including those measures necessary to detect, document, and counter such threats. Emphasizes importance of sensitivity to threats and vulnerabilities of information systems and the recognition of the need to protect data.

IT 410 Fundamentals of Cryptography 3 credits
Prerequisite: TECH 205 Discrete Structures or comparable course in discrete mathematics
In this course students will learn the history of cryptography and its role in information assurance. Students will examine the inner workings of various cryptographic models and techniques and will be able to identify the appropriate uses of symmetric and asymmetric encryption. Students will learn how to assign measures of strength based on cryptographic algorithms and keys. This course will focus on applied cryptography, and students will examine various situations and identify the level of cryptographic strength that is needed as well as the implementation factors related to its suitability for use. Lastly, students will understand the common pitfalls and weaknesses associated with the implementation of cryptography techniques, and will understand the challenges and limitations of various key management systems.

IT 418 Software Systems Analysis And Design 3 credits
Prerequisite: A programming language course.
The course will focus on the concepts and techniques of modern systems analysis and design. This includes traditional approaches to the system development life cycle and modeling of system requirements and design. The course will describe the role of the analyst in investigating current systems, defining IT requirements, working with technical and non-technical staff, and making recommendations. Some course topics include the system development environment, types of information systems, rapid application development, role of the systems analyst, initiating and planning a systems development project, determining systems requirements, process modeling, logic modeling, project documentation, understanding the elements of systems design, designing the user interface, designing system interfaces, and controls and security considerations.

IT 422 Advanced Networking 3 credits
Prerequisite: IT 250 Business Data, Communications or related course work
This course is a continuation of IT250 Business Data Communications. In this course, students will learn the concepts of routing and switching packets, the configuration and troubleshooting of static routing and dynamic routing scenarios using OSPF, and the configuration and securing of the LAN. LAN topics will include VLANs, Access Control Lists, DHCP, NAT and PAT. Hands-on labs will be used to practice network routing and switching techniques throughout the course.

IT 424 Network Operating Systems 3 credits
Prerequisite: A working knowledge of at least one operating system with Internet connectivity and basic computer networking including LANs, WANs and TCP/IP.
This course identifies the main functions of operating systems and network operating systems, and distinguishes between the two. Examines and compares the basic features of common network operating systems such as Novell NetWare,
all versions of Windows, Unix, and Linux. It discusses the common examples of network utility software and Internet software, software licensing agreements, and network security and backup/recovery issues.

**IT 425 Network Management** 3 credits

*Prerequisite: None*

This course will cover the essentials of network management and monitoring for enterprise networks. This includes the tools, protocols and operational procedures involved in administering and maintaining networks in organizations. The network management standards, technologies, security issues and best practices will be addressed. The knowledge gained will prepare learners to effectively manage and monitor networks by considering performance, security and quality of service issues. The course will consist of practical hands-on labs that will enable learners to apply the concepts of network management in real-time environments.

**IT 426 Wireless Technology** 3 credits

*Prerequisite: IT 350 Business Data Communications or related course work*

Describes the infrastructures, components and protocols of a wide range of wireless technologies. The course commences with a brief review of networking fundamentals including software and hardware used for interconnection of traditional wired networks. Examines existing wireless technologies such as global positioning satellite (GPS), cellular digital packet data (CDPD), general packet radio service (GPRS), infra-red (IR), the operation and protocols for simplex tone and data paging systems, and local multi-point communication systems (LMCS). Addresses additional technologies such as Bluetooth, digital audio broadcast (DAB), and IMT-2000.

**IT 428 Telecommunications Management**

*Prerequisite: A background in Data Communications and Computer Networking (or equivalent coursework/experience).*

Focuses on the management of diverse network systems involving a set of layered responsibilities, which ensure that network communications channels are continuously available and perform optimally from source to destination. Topics include differentiating between technical, financial and operational responsibilities, network capacity planning and traffic analysis techniques, measurement of network reliability and availability, basic hardware and software network diagnostic tools, network security issues, and network help desk operations.

**IT 430 Network System Design and Management** 3 credits

*Prerequisite: IT 350 Business Data Communications or related course work*

This course covers network design and management principles that network analysts, architects, engineers, and administrators must consider when planning, designing, implementing, and maintaining their network. Course topics include network management functions, network and system architectures, data and network communications technologies and protocols, server architectures and network operating systems, network security, and network and system administration. Additional topics covered that impact network design and management include network management tools and applications, wireless network architectures and applications, wireless network architectures, interoperability, cloud computing, and virtualization.

**IT 460 System Administration** 3 credits

*Prerequisite: IT 360 Operating Systems or similar course work*

This course provides learners with the knowledge and hands-on skills necessary to administer systems and its resources. Topics covered include directory services, user account management, file and print services, load balancing, security and user/client administration. Students will setup and manage a fully functioning computer network of systems. Furthermore, through hands-on (labs) assignments, students deal with challenges designed to help them install, configure and manage servers.
IT 495 Integrated Technology Assessment BIX 3 credits
Prerequisite: This is a required course in the B.S. Information Technology program; it is open only to B.S. Information Technology students who have completed all other Technology core requirements and most, if not all, General Education requirements.
This is the required capstone course for the Bachelor of Science in Information Technology program. It requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Bachelor of Science in Information Technology outcomes. The learning statements must be supported by documented evidence that demonstrate that the outcomes have been met.
All IT 495 students are required to complete an online examination designed to assess the basic knowledge and understanding achieved by senior undergraduates in information technology.

LA 298 Associate Degree Capstone 3 credits
Prerequisites: Completion of Written English, Ethics, Information Literacy requirements. Students must be within 12 credits of degree completion and obtain advisor approval.
The Associate Degree Capstone is a culminating and reflective experience based upon what the student has learned in her or his program. The course is focused on using critical thinking skills to analyze issues around diversity and ethics. Students will have the opportunity to demonstrate their communication skills by creating a PowerPoint presentation and a final project.
The course content is centered upon the four Liberal Arts degree outcomes of critical thinking, communication, diversity, and ethics, and upon a suite of competencies that relate directly to workforce needs and values. In this course students will broaden and refine their understanding of these outcomes and competencies, apply them in assignments, and reflect on how these concepts have shaped their college learning. All original writing and research will focus on a global issue related to at least one of the student’s degree depths/area(s) of focus (so awareness of one’s pathway to the degree is essential).
This is an intense course requiring significant scholarly research and writing and includes both individual and collaborative work. Assignments are scaffolded: that is, they build from one module to the next. Students should plan to dedicate a minimum of 13–20 hours each module for Capstone-related work; actual time will depend on your research, writing, and revision skills as well as remediation needs.
Students are strongly cautioned against attempting this Capstone course simultaneously with another Excelsior College course.

LA 498 Liberal Arts Capstone 3 credits
Prerequisites: Completion of Written English, Ethics, Information Literacy, and an Arts & Sciences depth required. Students must be within 15 credits of degree completion and obtain advisor approval.
This course is designed to evaluate students who are completing their bachelor’s degrees in Liberal Arts. The course content is centered upon the four Liberal Arts degree outcomes of critical thinking, communication, diversity, and ethics, and upon a suite of competencies that relate directly to workforce needs and values. In this course students will broaden and refine their understanding of these outcomes and competencies, apply them in assignments, and reflect on how these concepts have shaped their college learning. All original writing and research will focus on a global issue related to at least one of the student’s degree depths/area(s) of focus (so awareness of one’s pathway to the degree is essential).
This course uses all open educational resources, and does not require the purchase of a textbook.

LA 498HIS History Capstone 3 credits
Prerequisites: INL, WER, Ethics Requirement, and most of the history courses in the major. Students must be within 15 credits of degree completion and obtain advisor approval.
This capstone course is a culminating experience for students majoring in history. It brings together the knowledge and skills in preceding courses to demonstrate achievement of learning outcomes in the history program. Students analyze the methods used in the historical craft, including the practice of historiography. Students also examine
the various geographic, topical, and theoretical subfields of history and how they have been shaped and re-shaped over time. Students will exit the course with advanced historical and historiographical research and writing skills, prepared for further study at the graduate level or a wide variety of careers, including those in education, government, military, and business.

**LA 498HU Humanities Capstone** 3 credits

**Prerequisites:** Completion of the Ethics, Written English Requirement and Information Literacy, 12 upper level credits in the Humanities, arts and science depth complete. Students must be within 15 credits of degree completion and obtain advisor approval.

This course is the culminating experience for students pursuing a major in the Humanities. The course presents content from a rich array of disciplines, including art, music, communications, literature, philosophy, and religion. Work in this course will allow students to demonstrate their mastery of the four Humanities Program Learning Outcomes. Through a mixture of discussions, presentations, and written analysis, students will apply their previous learning in new ways, both analyzing and synthesizing fresh perspectives on their learning. This is a reading and writing intensive course that should serve as the culmination of the student’s work at the bachelor’s degree level.

**LA 498JS Judaic Studies Capstone** 3 credits

**Prerequisites:** Completion of Written English, Information Literacy, and Ethics requirements, 12 upper level credits in Judaic Studies courses/exams, arts and science depth complete. Students must be within 15 credits of degree completion and obtain advisor approval.

This senior-level course is the culminating experience for students completing a Liberal Arts degree with a depth or area of focus in Judaic Studies. Through a combination of formal essays and reflective/discussion activities, students will critically examine major texts and events and the concepts of diversity and ethics as viewed historically and today. This course seeks to integrate the theoretical and interpretive issues of the Jewish religion, history, and culture within the broader academic framework of the liberal arts.

**LA 498NS Natural Science Capstone** 3 credits

**Completion of INL, WER, the SLA Ethics course requirement and at least 12 upper level credits in the Natural Sciences. Students must be within 15 credits of degree completion.**

This course is the culminating experience for students completing a major in Natural Sciences. A senior level course designed for advanced students and working professionals who are seeking to tie it all together. The course stretches across the natural science fields to apply multiple theories and research approaches to current events from the perspective of a variety of disciplines, including but not limited to Geology, Chemistry, Physics and Biology. Students will use their critical thinking skills along with oral and written communication skills while reviewing and analyzing ethical questions and the concepts of diversity across the natural science disciplines. Through a mixture of discussions, presentations and written analysis, students apply their previous learning in new ways both analyzing and synthesizing new perspectives on their learning. This a reading and writing intense course that should serve as the culmination of the students’ work at the Bachelor’s degree level.

This is an intense eight-week course requiring significant research and writing from the student.

**LA 498PSY Psychology Capstone**

**Completion of Written English, Information Literacy, and Ethics requirements, 12 upper level credits in psychology, students must be within 15 credits of degree completion.**

This is a competency-based, senior level course designed for advanced students and working professionals seeking to complete their bachelor’s degree in psychology. Course content focuses on demonstrating the competencies associated with the psychology degree program student learning outcomes. Through a mixture of discussions, reflective writing, and multimedia presentations, students apply knowledge, skills, and abilities to showcase their learning and interests. This course requires students to research and connect psychological theory to real-world problems, as students think deeply about their academic and career goals.

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LA 498PTW Professional and Technical Writing Capstone 3 credits

Prerequisites: Completion of Written English requirements, including ENG 202 Business Writing or equivalent, Ethics, and Information Literacy required. Students must be within 15 credits of degree completion and obtain advisor approval.

This course is designed to evaluate students who are completing their bachelor’s degrees in Liberal Arts with a concentration in Professional and Technical Writing. The course content is centered upon the four Liberal Arts degree outcomes of critical thinking, communication, diversity, and ethics; the two additional Professional and Technical Writing outcomes of using multiple media for communication and composing and revising documents in a collaborative environment; and upon a suite of competencies that relate directly to workforce needs and values. In this course, students will broaden and refine their understanding of these outcomes and competencies, apply them in assignments, and reflect on how these concepts have shaped their college learning. All original writing and research will focus on a global communication issue.

This is an intense, 8-week course requiring significant scholarly research and writing and includes both individual and collaborative work. Students should plan to dedicate a minimum of 15–20 hours each week for capstone-related work; actual time will depend on the student’s research, writing, and revision skills, as well as remediation needs.

Students are strongly cautioned against attempting this capstone course simultaneously with another Excelsior College course.

LA 498SS Social Science Capstone 3 credits

Prerequisites: Completion of INL, WER, Ethics Requirement, and 12 upper level credits in the Social Sciences. Students must be within 15 credits of degree completion and obtain advisor approval.

This course is the culminating experience for students completing a major in Social Sciences. This is a senior-level course designed for advanced students and working professionals who are seeking to make important connections among social science discipline areas. The course applies social science theory and best practices of evidence analysis to current events and reviews the theoretical foundations of the economics, political science and sociology disciplines. Students will evaluate the usefulness of these disciplines in analyzing social problems, and apply them to specific social policy dilemmas. Through a mixture of discussions and written analyses, students will review major theories, organize, and relate theoretical principles to evidence about real-world problems and gain experience analyzing decision making challenges that attend important social policy subjects.

This course uses open educational resources, and does not require the purchase of a textbook.

MAT 101 Mathematics for Everyday Life 3 credits

Prerequisite: None

The goal of this course is to help students develop mathematical reasoning and problem solving skills that will serve them well in their lives both in and out of school. Topics will include the important real-world applications of measurement units, managing money, statistics in the media, exponential and logarithmic scaling, and mathematics in the arts and nature. Providing correct solutions to routine problems is not the goal; more important is the ability to communicate effectively about mathematical reasoning and to solve realistic, practical problems both collaboratively with other students and individually.

MAT 105 Essential Algebra and Statistics 3 credits

Prerequisite: None

This course is an introductory overview of statistics and the algebraic skills you need to succeed in working with statistics. The course has a dual focus: The first focus will be on both statistical calculations and on the interpretation of statistics and the concepts that underlie them. The second focus will be on essential algebraic skills for further study of statistics. These concepts and
skills will prepare you for more advanced courses in statistics.

MAT 105 is a preparatory course and does not satisfy the statistics core requirement for any degree program at Excelsior College.

**MAT 114 Intermediate Algebra** 3 credits

*Suggested Prerequisite: Knowledge of Elementary Algebra.*

This course covers an intermediate level of algebra in order to prepare students for subsequent courses in mathematics. Major topics include real numbers and algebraic expressions, equations and inequalities, functions and graphs, systems of equations and inequalities, polynomial expressions and functions, rational and radical expressions, and quadratic equations and functions.

**MAT 116 Precalculus Algebra** 3 credits

*Suggested prerequisites: MAT 114 Intermediate Algebra or equivalent*

This course is designed to serve as either the final algebra course for Liberal Arts majors who do not need calculus or as a preparatory course for Business, Science, and other majors who will go on to take calculus. Major topics in this course include Functions and Graphs; Polynomial and Rational Functions; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Sequences; and Summation Notation.

This course replaces MAT 117 and is cross listed with Excelsior College Examination MATx116. Credit for only one of these courses or exams will be applied toward graduation.

**MAT 118 Trigonometry** 3 credits

*Suggested prerequisites: MAT 114 Intermediate Algebra or equivalent*

This course serves as a preparatory course for students who will go on to take Calculus or Applied Technical Calculus courses. It is designed to emphasize topics which are fundamental to the study of calculus and includes applications relevant to the study of engineering and technology. Major topics include Trigonometric Functions, Inverse Functions and their Graphs; Right and Oblique Triangle Trigonometry; Polar Coordinates; and Applications of Trigonometry. Also includes an algebra review.

**MAT 201 Statistics** 3 credits

*Suggested Prerequisites: MAT 114 Intermediate Algebra or MAT 105 Essential Algebra and Statistics*

This course develops the statistical skills of collecting, organizing, summarizing, and analyzing information to draw conclusions or answer questions. Major topics include descriptive statistics, frequency distributions, probability, binomial and normal distributions, statistical inference, linear regression, and correlation.

MAT 201 duplicates BUS 233 Business Statistics, MAT 215 Statistics for Health Care Professionals, and the Excelsior College Examination MATx210. Credit in only one of these courses/exams will be applied toward graduation.

**MAT 215 Statistics for Health Care Professionals** 3 credits

*Suggested Prerequisite: MAT 114 Intermediate Algebra or MAT 105 Essential Algebra and Statistics*

This course is designed to provide students with the statistical tools that are appropriate for health care professionals in evidence-based practice. Topics include descriptive statistics for qualitative and quantitative data (both univariate and bivariate), basic probability and normal distributions, and statistical inference: estimation, hypothesis tests for means and proportions, comparison of two or more means, and chi-square tests.

MAT 215 duplicates MAT 201 Statistics, BUS 233 Business Statistics, and the Excelsior College Examination MATx210. Credit in only one of these courses/exams will be applied toward graduation.

**MIL 230 United States Military History** 3 credits

*Prerequisite: None*

To better understand the current and future challenges of new and dangerous warfare tactics, this course will describe and analyze military strategy as well as the causes of war throughout the evolution of the United States Military. Additionally, it will examine how the military has confronted social changes and diversity and
analyze the ethical challenges of a new operational environment.

This course replaces MIL 130. Credit for only one of these courses will be applied toward graduation.

**MIL 301 Great Military Leaders** 3 credits  
Prerequisite: None  
Great Military Leaders presents an overview of military leadership and great military leaders throughout history who have left a mark of excellence in world history. The course examines the qualities of military leaders and analyzes specific leadership traits that contributed to military leaders’ excellence in leadership. Through this analysis, the students will be able to compare and contrast leadership throughout history and isolate those leadership traits and qualities that make a great leader and then apply those traits and qualities to new situations.

**MIL 312 Military Leadership: Skills for the 21st Century** 3 credits  
Prerequisite: None  
This course introduces students to contemporary military leadership through a focus on decision-making, ethical leadership, an examination of the elements of national power in the 21st Century, and analysis of challenges and opportunities in a dynamic global context.

**MIL 346/PBH 346 Post Traumatic Stress Disorder: A Gathering Storm** 3 credits  
Prerequisite: None  
Exposure to life-threatening events and violence is all too common in today’s world. This course introduces students to the effects of trauma on human health and relationships; specifically focusing on the effects of PTSD on individuals, families, communities, and global society. Students will explore the history and prevalence of PTSD, root causes, physical and psychological symptoms, and the influences of culture and resilience. Students will study PTSD as it relates to different forms of trauma; including trauma resulting from accidents and unexpected life-threatening events, interpersonal violence and sexual assault, critical incidents, natural disasters, and military combat.

This course is cross-listed with PBH 346. Credit for only one of these courses will be applied toward graduation.

**MIL 498 Military Studies Capstone** 3 credits  
The capstone course is restricted to students majoring in Military Leadership with senior standing. Students must have completed all other required courses for the major, completed both the information literacy and written English requirements. Students must also be within 15 credits of degree completion and obtain advisor approval to register for this course.

The Military Leadership Capstone exposes students to relevant theories of military leadership, their applications to military operations, and leaders throughout history. By examining military leadership within the context of historical and political settings, students will develop a comprehensive knowledge of traits and characteristics that will contribute to their own leadership abilities. This course addresses all aspects of military leadership, how it is applied, what worked and what failed and why, and explores the diplomatic, economic, political, and social aspects of conflict and war. Students will improve their ability to think critically, and learn to become agile and adaptive leaders and decision makers.

**MUS 210 History of Rock and Roll** 3 credits  
Prerequisite: None  
This course provides an introduction to the genre of rock and roll, its form and derivations, and rock and roll artists and bands spanning the years 1955 to 1970. Through reading and numerous listening examples, this course will look at the state of American popular music after World War II, the inception of rock and roll in the 1950s, the growth of youth culture in America, and the growing popularity of rock and roll through radio, film, and television.

**NS 110 Science in Today’s World** 3 credits  
Prerequisite: None  
The purpose of this course is to give the student an overview of current and emerging trends in science and technology so that s/he will be able to make informed decisions and be an informed consumer. The course will introduce the scientific method and terminology used in reporting scientific results. A survey of current topical science issues will be covered as examples. This
course will also prepare the student to read accounts about scientific, technological, and medical advances in the press and assess the scientific conclusions presented.

**NS 115 Introduction to Astronomy** 3 credits

*Prerequisite: None*

This is an introduction to modern astronomy. The topic sequencing allows, after a brief look at a few key physical principles and the history of their development, a look at the cosmos on an increasingly large scale. The course begins with a detailed study of our solar system as well as a discussion of the many extra-solar star systems that are being discovered almost daily. Examined next are the nature of stars, how they are born, live, and die, and how they constitute the fundamental building blocks of one of the most important of cosmic structures, the galaxy. The study of galaxy formation and evolution leads to a brief discussion of current research in cosmology, including the as-of-yet undiscovered nature of dark energy and dark matter.

This course replaces PHYS 110. Credit for only one of these courses will be applied toward graduation.

**NS 120 Weather and Climate** 3 credits

*Prerequisite: None*

This is a course designed to provide the student with a basic understanding of the dynamic, thermodynamic, and kinematic principles that control atmospheric processes and form daily and climatic weather events. The significance of atmospheric composition, global circulation, and energy and moisture transfer will be covered, as well as familiarity with standard weather observations. These foundations will allow the student to engage in interactive discussions, using critical thinking, to describe basic meteorological processes and comprehend safety needs during severe weather. A view into the intricacies of weather forecasting, descriptions of regional climates, and potential impacts of global climate change will be included.

**NS 130 Are We Alone? Life in the Universe** 3 credits

*Prerequisite: The student should be comfortable performing simple algebraic calculations using calculators or spreadsheet software*

This course will provide students with an overview of the various physical and chemical processes fundamental to the formation of solar-systems and the conditions needed for life as we know it to develop and evolve. The student will be introduced to the instruments and methodologies used by astronomers to detect planets around stars other than the sun. Students will conduct virtual laboratory explorations to identify the type of stars most likely to harbor planets suitable for organic life as we know it. These explorations will require some basic mathematical calculations, which students will learn to perform with the help of spreadsheet software.

**NUC 210 Health Physics and Radiation Protection** 3 credits

*Prerequisite: Knowledge of high school level algebra, trigonometry, biology, chemistry, and physics*

This course provides a fundamental grounding in the theory and principles of radiation protection relevant to nuclear power plant operations. The course covers the following broad topics: radioactivity and radiation interactions, biological effects of ionizing radiation, radiological approximations and calculations, radiation sources and detectors, radiation protection standards and 10 CFR 20, external and internal dosimetry, workplace and environmental monitoring, radiation protection principles, and handling radiological emergencies.

**NUC 211 Radiation Measurement Lab** 1 credit

*Prerequisite: TECH 150 Power Plant Mathematics or equivalent, PHYS 201 Physics I, PHYS 202 Physics I Laboratory or equivalent, NUC 220 Nuclear Plant Chemistry or equivalent, NUC 230 Atomic Physics or equivalent; can be taken concurrently with NUC 210.*

This course provides experience in the use of instruments for the detection and analysis of
radiation. Instruments included in the course are gas-filled detectors, scintillation counters, semiconductor detectors, radiation spectroscopy, neutron detectors, dosimetry, external dosimetry, and counting statistics.

**NUC 240 Atomic and Nuclear Physics** 1 credit

**Prerequisites:** PHYS 201 Physics I, PHYS 202 Physics I lab, and TECH 201 Foundations of Technology Problem Solving I, or equivalent

This course includes the study of the structure of the atom and of the nucleus, of atomic and nuclear energy states, wave-particle duality, electron and nucleon spin, multi-electron atoms, atomic spectra, atomic bonding, electron motion, nuclear reactions, radioactivity, fission, and fusion. It examines the theories postulated and proven that formed the branch of physics known as atomic physics in the late 19th century and early 20th century and became the foundation for the development of nuclear physics and electronics shortly thereafter. This course will enhance learning of reactor physics, radiation safety, electronics, materials science, and chemistry in future courses as well as in your professional and military career.

**NUC 245 Thermodynamics** 3 credits

**Prerequisites:** PHYS 201 Physics I, PHYS 202 Physics I lab, and TECH 201 Foundations of Technology Problem Solving I, or equivalent

This course provides students with the understanding of thermodynamics principles and how thermodynamic principles apply to systems, including the importance of understanding thermodynamic principles for nuclear power plant operations. Topics include zeroth Law, First Law, Second Law, closed system, open system, entropy, Mollier Diagram, the Carnot and Rankine cycles, and efficiency for the Carnot, Rankine, and power cycles.

**NUC 250 Introduction to Heat Transfer and Fluid Mechanics** 3 credits

**Prerequisites:** MAT 116 Precalculus Algebra, PHYS 201 Physics I, and PHYS 202 Physics I Lab, or equivalent.

This course provides a fundamental grounding in the principles of heat, heat transfer, and fluid mechanics, as they apply to power plant operation. While designed to meet the requirements of the Nuclear Uniform Curriculum Program, specifically Section 1.1.5 Heat Transfer and Fluid Flow of ACAD 08-006 for Non-Licensed Nuclear Operators, this course has broad applicability for anyone interested in power plant technology, regardless of the heat source used. The course covers the following broad topics: Temperature, its measurement, and pressure-temperature relationships in power plant steam and water systems; heat, its various forms, mechanisms and mechanics of heat transfer, and the related power plant components used to transfer heat; and fluid mechanics as they relate to heat and heat transport in power plant steam systems and power plant water systems.

**NUC 255 Electrical Theory** 3 credits

**Prerequisites:** MAT 116 Precalculus Algebra and MAT 118 Trigonometry, or equivalent coursework or knowledge.

This course is an introduction to analysis of direct current (DC) and alternating current (AC) electrical systems. Topics covered are: Electrical charge, DC and AC current, voltage, capacitance, inductance, energy, power, Kirchhoff’s laws, loop and nodal analysis, steady-state and transient analysis, digital logic, voltage regulation and amplification using diodes, transistors, and operational amplifiers, and DC and AC motor operations.

**NUC 260 Power Plant Components** 3 credits

**Prerequisite:** None

This course covers the theory, construction, and application of mechanical components such as (but not limited to): Air compressors, heat exchangers and condensers, pumps, filtration systems, valves, and turbines. It also covers the theory, construction, and application of the following industrial components and systems: Diesel engines, air conditioning, refrigeration, heating and ventilation systems, electrical generators and motors, electrical distribution systems, valve actuators and electronics and other systems and processes that are plant specific.
NUC 271  
Fundamentals of Reactor Safety  
3 credits

Prerequisite: None

The course provides an overview of nuclear reactor plant safety design topics, including basic concepts relating to regulatory requirements, reactor plant safety analysis, reactor protection systems, plant procedural structure, and emergency planning. Additionally, the course explores significant industry events, including those at Three Mile Island, Chernobyl, and Fukushima, as well as the impact of the 9/11 terrorism event. Course subject matter references the Pressurized Water Reactor nuclear plant design.

NUC 280 Leading Change in the Nuclear Industry  
3 credits

Prerequisite: BUS 311 Organizational Behavior or equivalent

This course provides learners with the theory and knowledge necessary to lead change in the nuclear industry. Topics include leadership theories associated with organizational change, visionary leadership, changing behaviors, resistance to change, and conflict. Furthermore, discussions will focus on change management processes relevant to the nuclear industry to ensure safe and efficient operation of nuclear facilities.

NUC 285 Leadership Communications in the Nuclear Industry  
3 credits

Prerequisite: None

This course provides the knowledge and skills to formulate strategies for effectively communicating with stakeholders in the nuclear industry. Learners will be able to identify appropriate media and methods of communication as well as develop feedback and monitoring strategies to ensure that the communications are effective. Additionally, the learners analyze communication strategies and provide an oral presentation of a proposed strategy.

NUC 283 Material Science  
3 credits

Prerequisites: General Physics and Calculus I

This course is a study of how materials are used in nuclear engineering applications. Topics include basic nuclear plant operation overview, atomic bonding, crystalline and non-crystalline structures, diffusion, phase diagrams, mechanical and thermal behavior, failure analysis and prevention, structural materials, ceramics, corrosion, radiation effects on materials, materials commonly used in reactor core and nuclear plant design, and material problems associated with reactor core operation.

NUC 330 Reactor Core Fundamentals  
3 credits

Prerequisites: Calculus, Physics I with lab, Atomic Physics, and Nuclear Physics

This course is an introduction to the theory behind operational neutron chain reaction systems. Specific topics in the course include neutron cross sections, fast, epithermal, and thermal neutron fluxes, reaction rates, the fission process, neutron production, neutron multiplication, the six-factor formula, reactivity, subcritical multiplication, prompt and delayed neutron fractions, reactor period, reactivity coefficients, control rod worth, and fission product poisons.

NUC 350 Plant Systems Overview  
3 credits

Prerequisites: NUC 245 Thermodynamics, NUC 250 Introduction to Heat Transfer and Fluids, and NUC 330 Reactor Core Fundamentals, or equivalent

This course provides an overview of the design, layout, and function of major systems associated with the two nuclear power plant designs currently used for U.S. power production: Pressurized water reactor (PWR) and boiling water reactor (BWR). The course is designed to examine a typical nuclear power plant, system by system, focusing on major system components, controls, and design features. Emphasis is also placed on plant system interconnections and system functions relative to nuclear safety. Web-based PWR and BWR simulation learning tools are utilized to apply and reinforce course material through dynamic learning activities.
NUC 360 Nuclear Leadership—Risk Management/Leadership Courage 3 credits
Prerequisites: NUC 280 Leading Change in the Nuclear Industry and NUC 285 Leadership Communication in the Nuclear Industry
This course covers the knowledge and skills necessary to integrate leadership into operational decisions associated with nuclear power plants. Students will be able to develop teams and integrate them into the framework of a commercial nuclear business. This will include developing and demonstrating appropriate business acumen as well as demonstrating an understanding of risk in decision making processes. In addition, the course will focus on helping students develop leadership styles appropriate to improving the effectiveness of their future organizations.

NUC 495 Integrated Technology Assessment BNX 3 credits
Prerequisites: Complete core requirements for the Bachelor of Science in Nuclear Engineering Technology degree program.
The Nuclear Engineering Technology Capstone is an in-depth, student-centered course that requires the integration of theory and practical experience. Students will integrate and apply the theory, technical skills, and professional skills they have learned to offer solutions to a specific nuclear industry event. The course-embedded project deals with the Fukushima Nuclear Accident event as an engineering technical problem, potential consequences if the primary containment failed, and recommendation for a design that would mitigate or prevent future events in which the student will conduct research by exploring, evaluating, and theorizing a solution in a final paper. The capstone course is designed to develop the technical and non-technical competencies of students in an integrated fashion.

NUR 414/HSC 414 Budget and Finance in Health Care Organizations 3 credits
Prerequisite: None
This course guides students through an examination of financial principles and techniques used by managers in health care facilities. Budget preparation and management, and analysis in the context of the evolving health care environment are the focus of this course. This course is required for students enrolled in the Nursing Management Certificate Program, Bachelor of Science in Health Care Management, the Management emphasis of the Bachelor of Science in Health Sciences, and is used to fulfill nursing elective credit requirements for the Bachelor of Science in nursing program.

This course is cross listed with HSC 414. Credit for only one of these courses will be applied toward graduation.

NUR 418/HSC 418 Human Resource Management in Health Care Organizations 3 credits
Prerequisite: None
This course explores the human resource function of the manager in a health care organization. It covers a wide range of topics including staffing, worker safety and security, general employment practices, organizational development and employee relations. Upon completion of the course, students will be able to implement/integrate evidence-based human resource strategies into the day-to-day management of their departments. Nursing students need to register under NUR 418.

This course is cross listed with HSC 418. Credit for only one of these courses will be applied toward graduation.

NUR 431/HSC 431 Introduction to the Health Care Delivery System 3 credits
Prerequisite: None
This course provides a comprehensive overview of the U.S. health care delivery system and the forces that influence it. Students will examine the continuum of health care delivery from prevention through individualized clinical health care, including the importance of interprofessional collaboration. Students will explore historical influences on today’s U.S. health care delivery system and will have the opportunity to investigate the roles of government, finance, regulators, and providers in the health and public health arenas. The inter-connectedness of the U.S. health care delivery system with global health care systems will be explored.

This course is cross listed with HSC 431. Credit for only one of these courses will be applied toward graduation.
PBH 303
Special Issues in Public Health  3 credits
Prerequisite: None
Public health is all around us and affects our lives daily, from the food we eat, the air we breathe, the water we drink, how we drive and where we live. This course will introduce students to special issues in public health by providing an overview of the issue and its historical perspectives leading up to modern applications and challenges. A population-based frame of reference to the control of disease and prevention of disability in the realm of chronic diseases, infectious diseases and environmental health will be provided. Tools (including informatics and current health policies and laws) essential to the practice of public health will be described. The course will address disparities and inequities in health of vulnerable populations. Finally, an overview of the organizational functions of health systems, and healthcare costs and financing will be presented.

PBH 306
Our Environment, Our Health: An Introduction to Environmental Health  3 credits
Prerequisite: None
This course is designed to introduce students to the basic principles of environmental health and the history and accomplishments of the field. During this course, students will explore the impact of environmental exposures on human health and the impact that humans have on the environment. Students will learn about environmental health issues and determinants of health impacting the population on a global scale. These issues include the human health effects of exposure to physical, chemical, and biological agents, the effects of indoor and outdoor pollution, the impact of climate change on human health, the global environmental burden of disease, and health equity.

PBH 311
Health Disparities: Causes and Consequences  3 credits
Prerequisite: None
The need for a public health workforce trained in equity-based approaches to social determinants of health has increased and is driven by a significant body of literature. In this course students will learn principles and concepts of health equity and social determinants of health and relevant models and frameworks. Students will critically examine health disparities in the context of health equity.

PBH 320
Substance Abuse—Impact on Individual, Family, Community  3 credits
Prerequisite: None
Alcohol/Substance abuse is a major public health issue. This course introduces students to the impact of alcohol/substance abuse on the individual, family and society. During the course, students will be required to differentiate between abuse and dependence, identify negative consequences, and discuss treatment issues. Students will evaluate various treatment models and settings and develop an awareness of which models are appropriate given the readiness of an individual to engage in treatment. Through the course work, students will have the opportunity to see the progression of the consequences of substance abuse in a real family from the perspective of the individual, the family and society. Students will develop a greater understanding of the public health concern around substance abuse.

PBH 321
Introduction to Epidemiology  3 credits
Prerequisite: None
Epidemiology is the study of the distribution and determinants of health and illness at the population level, including the application of epidemiology in controlling the issue or illness. During this course, students are introduced to the basic concepts, principles and application of epidemiology to aid in understanding procedures for studying, preventing, and controlling diseases, environmental health hazards, and accidents. Current real-world public health scenarios will be discussed and applied to the material.

PBH 323
Principles of Public Health  3 credits
Prerequisite: None
This course introduces students to key concepts, and principles in public health. Students will learn about the history of public health and the
important role and responsibilities public health practitioners have in improving quality of life for populations. Topics covered in this course include, but are not limited to, the built environment, chronic and infectious diseases, health disparities, ethics, and preparedness.

**PBH 346/MIL 346 Post Traumatic Stress Disorder: A Gathering Storm** 3 credits
*Prerequisite: None*
Exposure to life-threatening events and violence is all too common in today's world. This course introduces students to the effects of trauma on human health and relationships; specifically focusing on the effects of PTSD on individuals, families, communities, and global society. Students will explore the history and prevalence of PTSD, root causes, physical and psychological symptoms, and the influences of culture and resilience. Students will study PTSD as it relates to different forms of trauma; including trauma resulting from accidents and unexpected life-threatening events, interpersonal violence and sexual assault, critical incidents, natural disasters, and military combat.

This course is cross listed with MIL 346. Credit for only one of these courses will be applied toward graduation.

**PBH 348/SOC 348 Violence and the American Family: Public Health and Social Issues** 3 credits
*Prerequisite: None*
Violence is a prevalent and dangerous social issue leading to physical and psychological injury and death. This course examines violence as it effects families across the lifespan and includes topics such as child abuse, incest, bullying, dating violence, intimate partner violence and elder abuse. Throughout the course, students will explore these various types of violence and their impact on family dynamics and the physical psychosocial and mental health of individuals and families. Students will also investigate community response to family violence and effective strategies for prevention and treatment.

This course is cross listed with SOC 348. Credit for only one of these courses will be applied toward graduation.

**PBH 401 Health Education and Promotion for Diverse Communities** 3 credits
*Prerequisite: None*
This course will introduce students to the professional field of health promotion and education by examining the role of health educators, the settings where health educators are employed, the theoretical and philosophical perspectives of health education, and the ethics of the profession. During the course, students will develop an understanding of cultural competence in the role of health promotion and education in assessing, planning, implementing, and evaluating health challenges that affect culturally and racially diverse communities.

This course is cross listed with SOC 421. Credit for only one of these courses will be applied toward graduation.

**PBH 421/SOC 421 Global Health** 3 credits
*Prerequisite: None*
This course provides a comprehensive overview of community-level, societal, and geopolitical factors that influence global health in developing countries. Students will explore interdisciplinary perspectives of global health regarding health care systems, environmental health and disasters, trends in communicable and non-communicable diseases, and cutting-edge improvements in global health interventions. Students will examine similarities and contrasts across cultures and environment, with attention to issues of health equity and shifting ideologies in global health.

This course is cross listed with SOC 421. Credit for only one of these courses will be applied toward graduation.

**PBH 422 Contemporary Issues in Developmental Disabilities** 3 credits
*Prerequisite: None*
This course introduces students to the unique physical, psychosocial, and emotional care needs of people living with developmental disabilities. The course focuses on a broad spectrum of developmental disabilities, including autistic spectrum disorders, Cerebral Palsy, Down's syndrome, and others. Using systems theory and the strengths perspective as a foundation, students will analyze needs and services from infancy through older adulthood with focus on the individual, family and community perspectives. General issues
related to developmentally and culturally appropriate communication, service delivery systems, advocacy, and social policy as relates to community integration will be investigated.

**PBH 439 Planning and Evaluating Health Programs**

*Prerequisite: None*

Program planning and evaluation are essential competencies of public health practice. While program planning assures the efficient and effective development and implementation of public health programs, evaluation can aid in making crucial decisions on whether to continue, modify or eliminate those programs. Evaluation also helps policymakers and program implementers make accountability decisions around program management and administration. This course will introduce students to the basic concepts of program planning while providing a detailed overview of evaluation methodology used in public health programs and policy interventions. Students will learn to apply the critical principles of program planning and evaluation methodology as they relate to the practice of public health.

**PBH 468 Public Health Capstone** 5 credits

*Prerequisite: Students must have completed all other requirements of the professional and additional credit components degree including the written English requirement, and be within 9 credits of completing the arts and sciences component.*

This capstone course requires students to integrate academic work, knowledge, skills and experiential learning to validate comprehension of foundational public health principles. The capstone is designed to guide student development of a multi-component project that demonstrates understanding of basic elements of public health practice and research. Students will be evaluated on their ability to apply the scientific method of examination to a public health issue.

**PHIL 200 Introduction to Philosophy** 3 credits

*Prerequisite: None*

Sooner or later most of us ask the “big questions” of life. Take this introductory course to explore some of the most important questions, issues, and debates in Western philosophy. We’ll read selections from Socrates, Plato, Aristotle, Kant and Descartes, as well as more contemporary thinkers. Topics include morality, the mind, free will, God, death, and the meaning of life. This course provides the unusual opportunity to think rigorously about fundamental matters—it introduces you to a way of thinking that Socrates thought was worth dying for.

**PHL 312/HSC 312 Ethics of Health Care**

*Prerequisite: None*

This interdisciplinary course guides students through a systematic analysis of contemporary ethical issues in health care. During the course, students will be required to differentiate ethical issues from other types of issues, demonstrate sound moral reasoning, and summarize the historical, legal, and healthcare policy dimensions of current health care issues of ethical concern.

This course is cross listed with HSC 312. Credit for only one of these courses will be applied toward graduation.

**PHYS 201 Physics I** 3 credits

*Prerequisites: MAT 116 PreCalculus Algebra and MAT 118 Trigonometry, or equivalent*

This is the first course of a 2-course, algebra-based Physics sequence. The material covered in the course is divided into four conceptual areas of Physics: 1) Forces and Motion, 2) Conservation Laws, 3) Properties of Matter, and 4) Oscillations and Waves. Some of the mathematics to be applied in the course will be reviewed as needed. This course is recommended for technical coursework and careers.

PHYS 201 duplicates the Excelsior College Examination PHYx140 Physics. Students will receive credit for either the course or the examination, as both will not be applied toward graduation.

**PHYS 202 Physics I Laboratory** 1 credit

*Suggested Prerequisite: PHYS 201 Physics I or equivalent first or taken concurrently (strongly recommended)*

The course covers a wide range of basic topics in Physics I in a simulated laboratory setting. The activities are chosen to give students the...
opportunity to experiment, observe, measure, record, discover, and understand the close relationship between the experimental observations and principles under study.

**PHYS 203 Physics II** 3 credits

*Prerequisite: PHYS 201 Physics I or equivalent*

This is the second course of a 2-course, algebra-based Physics sequence. The material covered in the course is divided into three conceptual areas of Physics: 1) Electricity and Magnetism 2) Optics, and 3) Modern Physics. Some of the mathematics to be applied in the course will be reviewed as needed. This course is recommended for technical coursework and careers.

PHYS 203 duplicates the Excelsior College Examination PHYx140 Physics. Students will receive credit for either the course or the examination, as both will not be applied toward graduation.

**PHYS 204 Physics II Laboratory** 1 credit

*Strongly recommended Prerequisite: PHYS 203 Physics II or equivalent, or taken concurrently.*

The course covers a wide range of basic topics in Physics II in a simulated laboratory setting. The activities are chosen to give students the opportunity to experiment, observe, measure, record, discover, and understand the close relationship between the experimental observations and principles under study.

This course replaces POL 103. Credit for only one of these courses will be applied toward graduation.

**POL 221 The Causes of War** 3 credits

*Prerequisite: None*

This course covers the vast subject of the causes of war. How and why do wars start? What causes leaders to choose to go to war and why do societies go along? War as a human experience and choice by societal leaders is explored throughout the ages and through a close reading of leading strategic scholars. Students will critique how diplomacy and war interact, while various theories of war causation are introduced. A basic proposition is confronted—is war an inevitable product of human nature, or is it instead an outgrowth of aggressive and undemocratic states, or even simply the chaos of the international arena? Theory and history then collide through applied studies of the First World War, the Korean War, the Iran-Iraq War, the two Gulf Wars, and the ongoing War on Terror. The course concludes by examining the likely sources of future conflicts emanating from technology changes and rising actors like China.

This course uses open educational resources, and does not require the purchase of a textbook.

**POL 310/CJ 310 Family Law** 3 credits

*Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent*

This course examines the relationship between the American family, judicial, and social service systems. Topics include defining the contemporary family, marriage, parent-child relationships, divorce, property division, child custody and support issues, cohabitation, paternity, adoption, assisted conception, and the juvenile justice and social service delivery systems.

This course is cross listed with CJ 310. Credit for only one of these courses will be applied toward graduation.

**POL 311 Public Policy Issues** 3 credits

*Prerequisite: None*

This course serves as an introduction to American public policy, illuminating for students how the policymaking process actually works in the
American governing system. Students will focus first on the nature of American public policy, the historical, cultural and political frameworks that influence the creation, applicable scope and administration of policy. Next, students will confront the actual making of public policy, the processes whereby policy is formed, debated and enacted by legislatures and executive branches at the federal level. Students will then explore contemporary substantive topics in American public policy, evaluating some of the more pressing issues in public policy. Finally, students will evaluate what public policy challenges are on the American horizon and how best we all might make policy changes to improve the quality and operations of America's democratic society.

**POL 320 The Geopolitics of Energy and Global Climate Change**  
3 credits

*Prerequisite: None*

Energy consumption is the lifeblood of the US and global economy, yet we seldom investigate the costs involved in making a gallon of gas cheaper than a gallon of milk. When you fill up your tank, have you ever wondered where the fuel comes from or what it takes to make this necessary energy source so readily available? When you hear about costly wars or domestic strife in energy-rich regions like Russia or the Middle East, do you question how these might be related? Beyond the near constant power rivalry over energy, even alternative energy technologies, global climate change looms as an almost incalculable cost. In this course, you develop a geopolitical lens onto energy and climate change by looking at powerful state, military and corporate actors, each pursuing its own, often conflicting, objectives. You examine how these actors influence energy geopolitics and climate change, such as in dealing with the security implications of increased sea levels, storm intensities, Arctic melt and drought. In this course, you examine the political realities of energy today and the possibilities of different tomorrows.

**POL 351 War and Peace after the Cold War**  
3 credits

*Prerequisite: None*

This course analyzes key actors and trends in international relations since the end of the Cold War in 1989–1991. The course explores how cooperation accompanying the end of the Cold War faded into an 'Age of Terror' and great power rivalry. Students look at conflict and cooperation throughout the post-Cold War period, and use the leading international relations theories to evaluate important events, including: the end of the Cold War; the Balkans Wars; the rise of the interdependent global economy; Islamic Fundamentalism and the War on Terror; Russia-China-US competition emerging since 2008; and, the fate of American dominance of world politics. The course ends with the contemporary debate over America’s role as global leader amidst challenges from ascending states like China and non-state threats from terrorist groups and global health and climate dilemmas.

This course uses open educational resources, and does not require the purchase of a textbook.

This course replaces POL 350. Credit for only one of these courses will be applied toward graduation.

This course is a dual-level course. Students wishing to earn undergraduate credit should register for POL 351. Students planning to complete graduate level credit should register for MLS 551. Students will not be permitted to have credit for both courses. Students in MLS 551 should anticipate additional reading and writing requirements throughout duration of the course. Students should contact an Academic Advisor to plan for the best course to complete remaining requirements.

**POL 363 Order and Disorder in the Middle East and North Africa**  
3 credits

*Prerequisite: None*

This course examines the international relations of the Middle East and North Africa from the late 19th century to the present. The focus is on contemporary relations among the states and peoples of this broad region, from Casablanca in Morocco to the bustling port of Gwadar just across Iran’s border in Pakistan. The course investigates the problems that the largely Islamic peoples of this region face in their struggles for economic and
political development within a global system dominated by extra-regional states, such as the United States. For example, in 2011, Egypt had a popular revolt supported by the US which ended the military authoritarian system of Hosni Mubarak, then after a brief experiment with democratic elections and representative rule by the Muslim Brotherhood, the military again established an authoritarian system. This government still rules and is backed by the wealthy Sunni Gulf states led by Saudi Arabia. Students will analyze how Egypt’s experience fits with patterns of multidecadal social and political tumult spanning the region since the revolutions of 1979, examining key countries and events, such as: Egypt, Libya, Syria and Iraq and their ongoing wars; the Arab-Israeli conflict; Islamic fundamentalism; the rise of ISIS; and the “Arab Spring.” Students will evaluate the region’s centrality in world affairs and assess the many similarities and differences among the peoples and political institutions of the region.

POL 370 American Political Behavior 3 credits

Prerequisite: None

This course analyzes contemporary American political behavior, exploring the role that current social and political trends play in affecting political alignments and institutional performance. The first part of the course focuses on the causes of the decline in Americans’ participation in social organizations the effect of this decline on the political system. The course explores how the rise of social media and recent demographic shifts have affected political outcomes, particularly national voting results in an age of rising populism epitomized by Donald Trump and Bernie Sanders in the 2016 election cycle. The course uses social capital theory to assess some of these trends and evaluates generational variations and their effect on electoral patterns, particularly among emerging demographic coalitions. The course concludes by examining the youngest generation of voters the millennial generation—to assess political shifts over the past decade in American politics.

This course uses open educational resources, and does not require the purchase of a textbook.

POL 390 The Rise of China in a Pacific Century 3 credits

Prerequisite: None

This course examines China’s rising global stature within the broader phenomena of a 21st century whose course of events is increasingly determined by the politics of the Pacific theater. In particular, the course analyzes China’s growing economic and military capabilities in this dynamic region comprising the majority of the world’s population and economic activity. The course explores several questions, including a primary one. Can China’s continued growth in relative power and influence be accommodated successfully through peaceful political processes? The theory and historical experience of rising powers is defined, and then China’s unique path in the aftermath of World War II, the Chinese Civil War and the Cold War periods will be comparatively assessed. Arguably, China is already the dominant actor in world politics. For example, since 2009, China has deployed the largest high-speed rail system in the world and now hosts the world’s single greatest annual market for cars and light trucks, where even General Motors sells more units than in the US. Both developments illustrate the potential displacement of the US as the key economic actor in the international system and the centrality of Sino-American relations to global economic stability, which in turn affects diplomatic and military relations. Almost no contemporary global issue can be examined or resolved without not only reference to China but also consideration for China’s preferred policies. By the end of the course, students will be able to critically assess China’s central role across many dimensions of contemporary world affairs, and with greater cultural sensitivity, students will explain how the Chinese themselves view their rise and their unique pathway to increased global power and status.

This course uses open educational resources, and does not require the purchase of a textbook.
PSY 101 Introduction to Psychology I 3 credits
Prerequisite: None
This course provides a broad overview of the field of psychology and lays a foundation for further study. Topics include the historical roots of psychology, psychological research methods, biological mechanisms, influencing psychological processes, human development, cognition and learning, memory, intelligence and intelligence testing, basic theories of personality, psychological disorders, therapeutic approaches, and the role of psychology in everyday life and society. Concepts learned in this course can be applied in any career to better understand behavior, thought, and emotion.

This course uses a lower cost interactive webtext instead of textbooks.

This course duplicates PSYx101 Introduction to Psychology. Credit for only one of these will be applied toward graduation.

PSY 220 Psychology of Personality 3 credits
Suggested prerequisite: PSY 101 Introduction to Psychology or equivalent
This course provides an overview of personality psychology and related issues. Students will explore the history and systems of personality, analyze current theories and evidence associated with personality psychology, and learn how personality is assessed and researched. Learners examine individual differences, including the way gender, race, religion, and national origin impact personality development and expression. Special emphasis is placed on personality in the workplace to help learners identify careers appropriate for their personality and better understand the traits that are highly valued by employers.

This course uses a lower cost interactive webtext instead of textbooks.

This course duplicates PSYx101: Introduction to Psychology. Credit for only one of these will be applied toward graduation.

PSY 235 Lifespan Developmental Psychology 3 credits
Suggested prerequisite: PSY 101 Introduction to Psychology or equivalent
This course introduces developmental science and the concept of human development being a product of the interaction between each individual and the environment. This course examines the development of learning, emotion, personality and cognition across the lifespan. Students will explore, analyze, and present theories and evidence associated with developmental science from conception through death. Concepts learned in this course can be applied to any career focusing on health or human services, and can help learners raise healthier children and live in more functional families.

This course uses a lower cost interactive webtext instead of textbooks.

This course duplicates PSYx210 Life Span Developmental Psychology. Credit for only one of these will be applied toward graduation.

PSY 280 Abnormal Psychology 3 credits
Suggested Prerequisite: PSY 101 or equivalent
In this course students will explore the history and models of abnormal behavior, analyze and present theories and empirical research associated with abnormal psychology, and discuss contemporary clinical assessment and treatment. Students will learn the characteristics of mental health diagnoses and use case studies to demonstrate synthesis of course material. Special attention is devoted to the impact of mental disorders on family, friends, coworkers, and the community. The concepts learned in this course can be applied to any career in which it is important to have insight into problematic behaviors. Note: This course uses a lower cost interactive webtext instead of textbooks.

This course uses a lower cost interactive webtext instead of textbooks.

This course duplicates PSYx310 Abnormal Psychology. Credit for only one of these will be applied toward graduation.
PSY 300
Investigative Methods for Psychology  3 credits
Suggested Prerequisite: PSY 101 Introduction to Psychology I or equivalent
This course introduces the design, implementation, and interpretation of psychological research. We study the basic mechanics of psychological research, including the scientific method, and how to measure constructs, attitudes, and cognitive processes. The manipulation of variables and ethical considerations related to psychological research are addressed. In addition to learning how research is conducted, we discuss how research is interpreted. Importantly, we focus on how statistical analysis is used to understand patterns in data and how those patterns can be interpreted. Concepts learned in this course can be applied to jobs and careers where it is necessary to think critically to gather information or use research findings.

This course uses a lower cost interactive webtext instead of textbooks.

This course duplicates PSYx365 Research Methods In Psychology. Credit for only one of these will be applied toward graduation.

PSY 316/HSC 316
Mind, Body and Health  3 credits
Prerequisite: None
This course examines the psychology of behavior as it relates to health and fitness. You will learn how stress and lifestyle, physical activity, and diet influence human health and fitness. We will examine health and fitness across the life-span, as well as how behavior impacts health and behavioral changes to improve health outcomes. We will study research to understand evidence-based practices that health practitioners use to promote healthy behavior. And learn how theories inform methods for influencing behavioral changes. You will develop a holistic plan for diet and physical fitness for various target populations. This course is appropriate for professionals working in personal health training or other health-related or psychology-related fields.

This course is cross listed with HSC 316. Credit for only one of these courses will be applied toward graduation.

PSY 330 Educational Psychology  3 credits
Suggested prerequisites: PSY 101 Introduction to Psychology I or equivalent
This course provides students with an overview of educational psychology, an applied field which examines how people of all ages learn. Topics covered include social context and socio-emotional development, cognitive and language development, sociocultural diversity, approaches to learning, managing the classroom, planning instruction, use of technology in teaching, assessment, and motivation. The concepts learned in this course can be applied to any career in which teaching or training is performed.

PSY 331/HSC 331/SOC 331
Psychosocial Impact of Chronic Illness on Person and Environment  3 credits
Prerequisite: None
Chronic illness affects individuals, families, communities, and society. Students will learn how to critically examine these complex interactions from both theoretical and practical perspectives. This course explores the psychological and social aspects of chronic illnesses, with an emphasis on empowerment of people living with them. Students will also develop an understanding of stigma in the experience of chronic illness. Emphasis will be placed on connecting individuals, families, and communities with resources to successfully manage chronic conditions.

This course is cross listed with HSC 331 and SOC 331. Credit for only one of these courses will be applied toward graduation.

PSY 340 Psychology of Learning  3 credits
Suggested prerequisites: PSY 101 Introduction to Psychology I or equivalent
What does it mean to “learn”? This course provides an overview of the major theories that explain the dynamics of behavior and learning in humans and animals. Topics include classical and operant conditioning, social learning, learning occurring through the media, memory, and forgetting. This course has a focus of making course concepts meaningful by helping students create connections between learning and career outcomes. The concepts learned in this course can be applied to any
PSY 360 Social Psychology 3 credits

*Suggested prerequisites: PSY 101 Introduction to Psychology I or equivalent*

This course analyzes how people influence and are influenced by the real or imagined presence or others and how people interact with and relate to those around them. Topics include research in social psychology, social cognition, social perception and judgment, attitudes and attitude change, conformity and obedience, group behavior, attraction and intimate relationships, helping behavior, aggression, prejudice, and the application of social psychology to other fields including the legal system. The concepts learned in this course can be applied to all careers in which one works with and in teams, as well as work where it is important to influence or persuade others.

This course uses open educational resources, and does not require the purchase of a textbook.

PSY 362 Psychology of Human Sexuality 3 credits

*Suggested prerequisite: PSY 101 Introduction to Psychology I or equivalent*

Sexuality plays a major role in each individual’s life throughout the lifespan. This course is a critical inquiry through the lenses of theory and research into the psychosocial and physiological aspects of sexuality. Topics include the psychology of love, intimacy and relationships, sexually transmitted infections, sexual assault, gender identity, sexual orientation, and sociocultural influences impacting sexuality. This course increases student knowledge, ability, and skill in thinking about and discussing human sexuality in different contexts. The concepts explored and practiced in this course can be applied to any career in the health or human services.

This course replaces PSY 320. Credit for only one of these courses will be applied toward graduation.

This course also duplicates the Excelsior College Examination PSYx365. Students will receive credit for either the course or the examination, as both will not be applied toward graduation.

This course is a dual-level course. Students wishing to earn undergraduate credit should register for PSY 360. Students planning to complete graduate level credit should register for MLS 560. Students will not be permitted to have credit for both courses. Students in MLS 560 should anticipate additional reading and writing requirements throughout the duration of the course. Students should contact an Academic Advisor to plan for the best course to complete remaining requirements.

PSY 363 Psychology of Strategic Sales 3 credits

*Suggested prerequisite: PSY 101 Introduction to Psychology*

This course introduces the basic concepts and skills of applying psychological principles to persuasion and sales. Specific topics covered include the psychology of consumer behavior, sales ethics, psychology of the behavior of sales personnel, sales motivation, negotiation techniques, psychology of sales management, psychology of online selling, and managing long-term customer relationships. Learners investigate and examine the power of psychology in persuasion while analyzing how the sales process is rooted in psychological theories and empirical research. The concepts learned in this course can be applied to any career in which good persuasive skills are need, including those in which it is necessary to sell ideas, products, or experiences.

This course uses open educational resources, and does not require the purchase of a textbook.
development, motivating employees, performance appraisals, working in teams, healthy work-life balance, leadership, and organizational change. The concepts learned in this course can be applied to any career and are particularly useful for those who aspire to or currently work in management, administrative, or other leadership positions.

**PSY 365 Psychology Of Diversity** 3 credits  
*Suggested prerequisite: PSY 101 Intro to Psychology or equivalent*  
This course introduces students to a study of understanding how people think, feel, behave, and interact within diverse social contexts. Fully understanding the psychology of diversity requires consideration of the historical, political, educational, economic, and societal factors that influence psychological processes and people’s responses to diversity. Students will study both differences and similarities that are at the intersections of gender, race, ethnicity, sexual orientation, weight, age, language, veteran status, and other factors. Readings, including recent journal articles, provide a greater understanding of diversity and the interrelationship between diversity and psychology, and an appreciation for the value of diversity. Students develop a better understanding of themselves and the world around them in an appreciation for a global society. The concepts learned in this course can be applied to any career in which it is valuable to have a better understanding of how to successfully leverage the benefits of diversity.

**PSY 380 Biopsychology** 3 credits  
*Suggested prerequisite: PSY 101 Introduction to Psychology I or equivalent*  
This course examines how neurons work individually and together to enable behavior, feelings, and thoughts. The structures and functions of the nervous system are examined to provide the biological bases of behavioral development, perception, learning, memory, cognition, motivation, language, sleep, and psychological disorders. The concepts learned in this course can be applied to any health science or human service career.

**PSY 420 Human Motivation** 3 credits  
*Suggested prerequisite: PSY 101 Introduction to Psychology I or equivalent and at least one 300-level course in psychology*  
Motivation can be thought of as what energizes and directs human behavior, and when studying motivation, researchers attempt to ask questions: a) What causes behavior?, and b) What causes behavior to vary in intensity? This course examines the major issues and theories that describe and explain human motivation across the globe. Individuals’ behavior is examined from biological, psychological, and social perspectives. Students will analyze and integrate information from empirical research in psychology, in order to develop an understanding of motivation that is applicable to all individuals, including students’ own lives. The concepts learned in this course can be applied to across a multitude of settings including leading, managing, counseling, nursing, teaching, and parenting.
PSY 440 History And Systems 3 credits
Suggested prerequisites: PSY 101 Introduction to Psychology I and a minimum of two upper level psychology courses
This course provides an overview of historical perspectives and theoretical developments that have contributed to the modern discipline of psychology throughout the world. In addition, students will study the terminology, theoretical systems and theorists. Major perspectives will be discussed, including Gestalt psychology, structuralism, behaviorism, psychoanalysis, and cognitive psychology. Students also study psychology of social change and the development of modern psychological branches and applications. The concepts learned in this course are particularly relevant for learners making connections across different fields and disciplines in psychology.

REL 200 World Religions 3 credits
Prerequisite: None
World Religions is a historical and comparative survey of the major religious systems of the world, including but not limited to contemporary nature/culture religions, as well as Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, and Islam.

REL 332/SOC 332 Religion And Society 3 credits
Prerequisite: None
This course examines the underlying social origins, functions, and consequences of religious belief systems and associated religious organizations. Careful attention is given to religious conflict in the contemporary world with comparative studies of religious myths and theologies in political, economic, and historical contexts. This course is cross listed with SOC 332. Credit for only one of these courses will be applied toward graduation.

SOC 101 Introduction To Sociology 3 credits
Prerequisite: None
This course offers an introduction to the major concepts, theoretical perspectives, research methods, and scholarship in sociology. Sociology is the scientific study of human social behavior, and this course examines several important sociological topics, including: culture; socialization; deviance; social inequality; social institutions; and social change. This course also explores various socio-historical and socio-cultural frameworks across the world, promoting an appreciation for unique cultural identities and institutions. Students will improve their analysis, understanding and interpretation of contemporary social issues in this rapidly changing world. This course encourages the practice of “doing” sociology through exploration of students’ everyday social world, and the often invisible and taken-for-granted social forces that shape it.

SOC 110 Introduction To Interdisciplinary Social Science 3 credits
Prerequisite: None
This course introduces students to the study of the leading disciplines that make up the social sciences, particularly: economics, political science, psychology, and sociology. Students will explore the origins of the leading social science disciplines, important theories related to them, and begin the course-long project of comparing, contrasting, and combining their approaches to the primary, interdisciplinary subject of the course human behavior and organization. In learning about each discipline, students will gain a greater understanding of the common interests and research concerns of all social scientists. One of these common features among social scientists is the desire to identify patterns and solve problems. The nature and purpose of inquiry is common to all social sciences—how and why do individuals and groups behave as they do? Are causes of these behaviors possible to find, thus making it possible to solve their worst forms and consequences? The course emphasizes an interdisciplinary approach to the study of human behavior and organization, and shows the importance of using many different social science fields to understand and solve contemporary problems, whether at the local or global level of human society.

This course uses open educational resources, and does not require the purchase of a textbook.
SOC 201 Family 3 credits
Prerequisite: None
Most of us grew up in a family. It is such an ancient and universal institution that the term itself is the root of familiarity, which means “that which we know deeply and experience every day.” How can we study something critically that we know so well? Through this course, students gain a deeper understanding of family by examining their personal experience within a larger social and historical context. Students will explore social science knowledge about families in contemporary America, learning about theories of family and their applicability to family life and dynamics. Students examine contemporary issues such as the effects of the economy, family structure, and parent/child relationships on the overall healthy functioning of family life. The key is to treat our personal intuitions with a heavy dose of distrust; to question all of our assumptions, and to evaluate scientifically all the evidence we have—including our personal experiences. Our deepest beliefs about the family are not necessarily an accurate reflection of the reality of family life. The primary focus of this course, therefore, will be to shed light on the multitude of challenges facing families today, from dating and sex, to marriage and divorce; from child-bearing and child-raising, to caring for elders. Many students have experienced these challenges personally, or know other people who have experienced them, and all will gain from investigating these subjects in a forthright manner.

This course replaces SOC 316. Credit for only one of these courses will be applied toward graduation.

SOC 221/HSC 221 Why We Overeat: Perspectives On Nutrition 3 credits
Prerequisite: None
This course examines the mechanisms of America's number one public health issue—the obesity epidemic and why our nutritional needs no longer drive our dietary habits. Rather, the food industry stimulates our appetites by creating low-priced products using the highly addictive ingredients of sugar, fat, and salt. This sets in motion a cycle of desire and consumption that leads to a nation of overeaters. Students explore other, environmental factors such as increased access to motor vehicles, mechanization of work, less emphasis on physical activity at school and at home, and the emergence of the Internet and television as principal sources of entertainment and sedentary lifestyles. This course reviews the individual and societal factors that have resulted in the obesity epidemic and provides helpful tools to find solutions.

This course is cross listed with HSC 221. Credit for only one of these courses will be applied toward graduation.

SOC 230 Introduction To Human Services 3 credits
Prerequisite: None
The course introduces the principles, practices, and functions of the human services field and profession. Students will examine the history, current trends and policies related to the human services field, as well as key legal and ethical issues confronting human services professionals. The roles of the human services professional as well as the client will be defined and explored through detailed examination of the delivery of human services. Students will demonstrate their mastery of the history and background of the clinician ethics; and the organization of case files. Students will gain an invaluable and practical understanding of the counseling professions that will serve as a building block for developing further expertise in the counseling field within the human services profession.
Human Services movement as well as the helping process itself by developing their own basic skills and intervention strategies. Students will then evaluate models of human service delivery and explore legal and ethical considerations in human services delivery. Students begin developing their competencies regarding the ethical standards of Human Services professionals as well as taking their first academic steps in this vital profession.

**SOC 240/HSC 240**  
**Addictions In America**  
3 credits

*Prerequisite: None*

This course helps students develop a greater understanding of a variety of addictions. Using an eco-systems approach, the addictive process and recovery will be studied, including the reciprocal interaction between addicted individuals and their various social systems. Students will examine substance abuse and behavioral compulsions in considerable detail with a focus on addiction in various populations as well as the business of drugs and prevention. Attention will be given to the biological and genetic factors in the etiology of addiction, family issues, and community responses. The consequences of addictions will be studied at the individual, family, and community levels. This course draws on current research in the field of addictions, and emphasizes critical analysis of contemporary controversies. This course builds on the foundations of health and human services knowledge and skills to help students better understand this complex problem affecting American society.

This course uses open educational resources, and does not require the purchase of a textbook.

**SOC 247**  
**Sports In American Society**  
3 credits

*Prerequisite: None*

Were sports an important part of your life as young person? Have you made sports part of how you raise your own children or interact with other youth in your life? In many ways sports are not just a metaphor for life, but are the very beating heart of our social life. Because sports are such an important part of US society, we seldom reflect on how or why it became such a force, why we engage it—as participants, fans, parents, or coaches—and how, even if we hate sports, it shapes so much of what goes on around us every day. In this course, we explore how sport dates back to the earliest of civilizations, always revealing and demonstrating various layers of identity and power within society. Simply put, sport is an institution that affects virtually all aspects of society. In this course, you will examine sports and the institution of sport from a variety of social science perspectives, including from historical, political, economic and sociological viewpoints. You will find the broader meaning that sport has for those who participate and those who watch.

This course uses open educational resources, and does not require the purchase of a textbook.

**SOC 301/CJ 301**  
**Juvenile Delinquency and Justice**  
3 credits

*Prerequisite: None*

This course explores the judicial processes employed in handling minor criminal offenders; those generally under the age of 18 years. These include arrest, legal guardian responsibilities, sealed court records, case adjudication, sentencing and juvenile corrections. Also covered are the biological, psychological, and sociocultural aspects of delinquency and its causes, potential deterrence and rehabilitation modalities.

This course is cross listed with CJ 301. Credit for only one of these courses will be applied toward graduation.

**SOC 309**  
**Ethics and Social Policy in Human Services**  
3 credits

*Suggested Prerequisite: SOC 230 Introduction to Human Services or equivalent.*

In this course, students develop their competency and eventual expertise in the ethical principles and practices essential to any human services organization. Students review the social policy milieu affecting the ethical provision of human services, including their development,
implementation, and evaluation at the federal, state, and local levels. Students explore current topics in social policy related to the ethical practice of human services delivery. They do so by utilizing the National Organization for Human Services (NOHS) Ethical Standards and applying them to select decision-making processes and issues related to delivering human services to clients. The course serves as an advanced seminar in the human services concentration.

**SOC 314/HSC 314 Sociology of Health and Illness** 3 credits  
**Prerequisite:** None  
This course examines the influence of social and structural forces on health, illness, and the health care system in the US. Through scholarly readings, experiential learning activities, and reflective dialogue, you will explore the foundations of medical sociology, social causes and consequences of health and illness, the social behavior of health care personnel and patients, the social role of the hospital; and, the complex issues surrounding health care reform, health care delivery, and social policy.

This course is cross listed with HSC 314. Credit for only one of these courses will be applied toward graduation.

**SOC 318 Sociology of the Workplace** 3 credits  
**Prerequisite:** None  
What is the meaning and nature of work in contemporary America? What does it mean to have a job compared to a career, and what individual and societal understandings do we attach to the “value of work”? This course explores these questions and examines the history of work, contemporary workplace issues, governmental statistics and social science theories used to study work. Whether the workplace refers to the home, the corporate office, or the factory floor, you will learn the methods, theories and statistics used to study work, the workplace, and the relationships among the workplace, workers and the broader social world. You will address current and relevant issues related to work and the workplace, including: the meaning of work; discrimination and inequality; technology in the workplace; work and family; and globalization’s effects on the American worker and workplace.

**SOC 319 Understanding Society: The Theories of Karl Marx, W.E.B. Du Bois and Others** 3 credits  
**Prerequisite:** None  
Have you ever wondered why American society is structured the way it is, rewarding some individuals and social groups over others, or particular economic activities over other obviously more vital ones (e.g., finance over firemen)? In this course, you will familiarize yourself with selected classical and contemporary social theories so that you can make sense of the world all around you. You will learn about the historical context in which classical social theory developed—specifically, the enormous industrial, social, and political changes in 18th and 19th century Europe, and then study how contemporary social theory developed in the United States across the whole of the 20th century, the “American Century.” The US emerged and gradually established itself as the economic and political leader of the free world by mid-century. The US government and leading institutions used this advantaged position after World War II to encourage social scientists to analyze the American economic, social, and political systems with all their successes, strengths, and seemingly never-ending social problems. You will explore these interrelated historical processes and the theories evolved to try and explain modern American life. In so doing, you will challenge your own social skills and civic awareness, and improve your global citizenship credentials and practices.

**SOC 320/HSC 320 Health Care Issues in Culturally Diverse Populations** 3 credits  
**Prerequisite:** None  
This course introduces students to the concepts of culture and cultural diversity as they relate to health, illness, and the health care delivery system. There are many types of diversity that exist in our global society. We will examine the roles that belief systems, values, and health practices play in people’s interactions with health providers. Common myths and assumptions will be explored. We will also investigate strategies that health professionals can implement to create more inclusive services.

This course is cross listed with HSC 320. Credit for only one of these courses will be applied toward graduation.
SOC 323/CJ 323 Deviant Behavior 3 credits

Suggested prerequisites: SOC 101 Introduction to Sociology, SOC 110 Introduction to Interdisciplinary Social Science, or equivalent.

This course will familiarize students with theories and applications of deviance, deviant behavior, and the social interactional process of being deviant. Students will read original texts and begin to understand the larger body of social interaction research in sociology and anthropology that has given rise to contemporary theories of deviance and learn to relate these concepts to other works in the social sciences and criminal justice. Students will also learn to apply the ideas from their theoretical reading to contemporary life and to their own personal and professional experiences. In addition to reading, writing and discussion, students will engage in a short field activity, during which time they will have the opportunity to make their own scientific observations of deviant behavior.

This course is cross listed with CJ 323. Credit for only one of these courses will be applied toward graduation.

SOC 324/CJ 324 Criminology 3 credits

Suggested prerequisites: CJ 101 Intro to Criminal Justice or equivalent

This course provides an in-depth study of the nature and causes of crime and criminal behavior. Using a multidisciplinary approach, the course focuses on criminal topologies and criminological theories. Topics range from crime causation to the extent of crime, victimization, and social and psychological theories. Learners will address various types of criminality such as violence, property crimes, and public offenses, as well as the application of these theories to criminal justice policies and procedures.

This course is cross listed with CJ 324. Credit for only one of these courses will be applied toward graduation.

SOC 331/HSC 331/PSY 331 Psychosocial Impact of Chronic Illness on Person and Environment 3 credits

Prerequisite: None

Chronic illness affects individuals, families, communities, and society. Students will learn how to critically examine these complex interactions from both theoretical and practical perspectives. This course explores the psychological and social aspects of chronic illnesses, with an emphasis on empowerment of individuals living with them. Students will develop an understanding of stigma in the experience of chronic illness. Emphasis will be placed on connecting individuals, families, and communities with resources to successfully manage chronic conditions.

This course is cross listed with PSY 331 and HSC 331. Credit for only one of these courses will be applied toward graduation.

SOC 332/REL 332 Religion and Society 3 credits

Prerequisite: None

This course examines the underlying social origins, functions, and consequences of religious belief systems and associated religious organizations. Careful attention is given to religious conflict in the contemporary world with comparative studies of religious myths and theologies in political, economic, and historical contexts.

This course is cross listed with REL 332. Credit for only one of these courses will be applied toward graduation.

SOC 341/ECON 341 Globalization 3 credits

Prerequisite: None

This course analyzes the political, economic, social and cultural features of globalization, providing a broad understanding of the processes and realities that underpin contemporary global economics and society. Students assess the effect of economic globalization and examine cultural globalization through study of various media influences as well as leading religions. Students
will also explore the links among individual identity, global economic forces, environmental challenges, and other global problems.

This course is cross listed with ECON 341. Credit for only one of these courses will be applied toward graduation.

**SOC 348/PBH 348 Violence and the American Family: Public Health and Social Issues**

3 credits  
*Prerequisite: None*

Violence is a prevalent and dangerous social issue leading to physical and psychological injury and death. This course examines violence as it affects families across the lifespan and includes topics such as child abuse, incest, bullying, dating violence, intimate partner violence and elder abuse. Throughout the course, students will explore these various types of violence and their impact on family dynamics and the physical psychosocial and mental health of individuals and families. Students will also investigate community response to family violence and effective strategies for prevention and treatment.

This course is cross listed with PBH 348. Credit for only one of these courses will be applied toward graduation.

**SOC 350 Environmental Issues and Society**

3 credits  
*Prerequisite: None*

This course examines the relationship among ecosystems, social systems, and the human impact upon the environment. Students review the definition of the environment and its boundaries, how social groups shape and are shaped by the environment, differential access to environmental resources, and why some are victims of environmental injustices. The course emphasizes a critical social and ecological analysis of the American and global societies’ effects on the earth. Key areas of study are consumption, economic development, population and health, and environmental movements.

**SOC 355/PBH 355 Sexual Diversity in Health**

3 credits  
*Prerequisite: None*

This course explores the health and well-being of sexually diverse populations and their families. Sexual and gender diversity includes people who identify as lesbian, gay, bisexual, transgender, queer, as well as other individuals who live outside the gender binary. Students will examine health conditions and behaviors unique to this population across the life span. Students evaluate the biopsychosocial, spiritual, and legal ramifications that promote health disparities and minority stress. Students will learn culturally sensitive strategies for engaging in person-centered care.

This course is cross listed with PBH 355. Credit for only one of these courses will be applied toward graduation.

**SOC 420 Environmental Policy and Management**

3 credits  
*Prerequisite: None*

The course addresses environmental policy with a specific focus on regulation and management of environmental resources. Students analyze the role of American politics, economics, and culture in shaping domestic and international environmental policies. Environmental policy design, regulatory policy instruments, regulatory federalism, enforcement, compliance, and management will be addressed. These subjects will be explored through case studies, readings, and discussions of selected environmental regulatory policies and programs.

**SOC 421/PBH 421 Global Health**

3 credits  
*Prerequisite: None*

This course provides a comprehensive overview of community-level, societal, and geopolitical factors that influence global health in developing countries. Students will explore interdisciplinary perspectives of global health regarding health care systems, environmental health and disasters, trends in communicable and non-communicable diseases, and cutting-edge improvements in global health interventions. Students will examine similarities and contrasts across cultures and
environment, with attention to issues of health equity and shifting ideologies in global health.

This course is cross listed with PBH 421. Credit for only one of these courses will be applied toward graduation.

SOC 432/CJ 432 Drugs and Crime 3 credits

*Prerequisite: None*

This course analyzes the historical, political, economic, social, psychological, and cultural factors that influence the use of illicit, misused, or abused substances. The coursework will include a study of the influence these factors have on the social and legal responses to drug use, including legislation, law enforcement, drug courts, and associated policies and procedures.

This course is cross listed with CJ 432. Credit for only one of these courses will be applied toward graduation.

SOC 465 Social Science Research 3 credits

*Prerequisite: None*

In this course students investigate how social scientists evaluate society, with its various organizations and ills. You will learn research techniques and methods social scientists use for scholarly and policy investigation. Taking a practical approach, students will develop useful research skills and learn how to apply various methods to assess and solve social science research problems. Different types of research methods are reviewed, including: surveys, field research, case studies, large-n statistics, policy analysis etc. Students will evaluate the usefulness and limitations of various methods in the social and behavioral sciences, and, as a result, be able to apply these skills to a wide variety of vital tasks in the contemporary work world. Students will explore how data and research are produced, helping them to be wiser consumers and citizens in this "age of information.”

SPA 220/HSC 220 Spanish Communication for the Health Care Professions 4 credits

*Prerequisite: None*

This course introduces novice Spanish language concepts and will prepare students to speak, listen, write, and read in Spanish within a cultural context. Students will develop the cultural competencies needed to care for the Spanish-speaking individuals in a variety of health care situations. And will learn when it is necessary to use an interpreter. The course presents grammar, vocabulary, and pronunciation as crucial tools for effective communication.

This course is cross listed with HSC 220. Credit for only one of these courses will be applied toward graduation.

TECH 200 Technical Writing 3 credits

*Prerequisite: ENG 101 or equivalent course.*

This course will introduce students to writing technical problem statements, presenting information to target audiences, conducting research with proper citation, preparing written arguments, and written exercises in voice, tone, and style for the technologist. Students will learn effective technical approaches in written and digital communications (email, presentations, technical reporting, and technical instructions).

TECH 201 Foundations of Technology Problem Solving I 4 credits

*Prerequisites: MAT 116 Precalculus Algebra and MAT 118 Trigonometry or equivalent is required.*

This course introduces the basic concepts of calculus and their applications in engineering technology. It discusses use of limits, derivatives, and integrals to solve problems related to different engineering technology disciplines.

TECH 202 Foundations of Technology Problem Solving II 4 credits

*Prerequisites: TECH 201 Foundations of Technology Problem Solving I or a 4 credit hour course in introductory calculus/calculus I.*

This course is a continuation of TECH 201. It focuses on the applications of calculus in engineering technology. Topics include techniques of integration, multi-variable functions, sequences and series, polar coordinates, introduction to ordinary differential equations, eigen-value solutions, and Laplace transform methods.
TECH 205 Discrete Structures 3 credits
Prerequisites: Students must have completed at least one of the following math courses (TECH 201, MAT 201, BUS 233) prior to taking TECH 205.
This course provides the mathematical foundations for information technology and other technology fields. Topics covered in this course include logic, relations, functions, recursion, induction, set theory, patterns of inference, elementary combinatorics, algorithm complexity, and graph theory. Applications of discrete structures such as social network analysis and/or language modeling are also introduced and discussed in this course.

TECH 225
Applied Instrumentation and Control 3 credits
Prerequisite: Knowledge in Basic Algebra, Trigonometry, and AC/DC Circuits
This course focuses on instrumentation; temperature, pressure, and flow measurements; transducers; pneumatic and hydraulic systems; programmable logic controllers; and process control. In this course the students will have the opportunities to explore the characteristics and operations of different types of transducers and measuring instruments. The importance of system models as well as their relationship between process control will also be covered in this course.

TECH 230 Technology and Society 3 credits
Prerequisite: None
This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change and the evaluation of the implications of technology. Upon completion, students should be able to critically evaluate the implications of technology upon society.

TECH 233
Electrical Power Distribution 3 credits
Prerequisite: None
This course provides an overview of the design, operation, and technical details of modern power distribution systems, including generating equipment, transmission lines, plant distribution, and protective devices. It includes calculations of fault current, system load analysis, rates, and power economics.

TECH 250 Renewable Energy Overview I: Solar and Geothermal 3 credits
Suggested Prerequisite: In order to comprehend the course materials it is recommended the students understand AC/DC electric theory.
This course offers an overview of solar (photovoltaic) energy, solar thermal energy, and geothermal energy. It also describes green building technologies (sustainable systems design). Political, economic, and environmental impact will also be discussed.

TECH 251
Renewable Energy II: Wind And Water 3 credits
Suggested prerequisite: In order to comprehend the course materials it is recommended the students understand AC/DC electric theory.
This course offers an overview of wind energy and water energy in both commercial and non-commercial applications. It continues discussion from TECH 250 regarding sustainable system design regarding green building technologies. Political, economic, and environmental impact will also be discussed.

TECH 290 Integrated Technology Assessment AAST 3 credits
Prerequisite: This is a required course in the Associate in Applied Science in Technical Studies program; it is only open to Associate in Applied Science in Technical Studies students who have completed most, if not all degree requirements and should be taken in the final term.
This course is an online portfolio development experience that requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Associate of Applied Science in Technical Studies (AAS-T) degree outcomes. The learning statements must be supported by documented evidence that demonstrates that the outcomes have been met. Students learn how to develop an online portfolio during the first module of the course and then work under the guidance of a faculty mentor during
the remainder of the semester to compose learning statements, compile appropriate evidence, and create the Integrated Technology Assessment report.

**TECH 295 Integrated Technology Assessment AST**

*Prerequisite: This is a required course in the A.S. Technology program. It is open only to A.S. Technology students who have completed all other Technology core requirements and most, if not all, General Education requirements.*

This is the required capstone course for the Associate in Science in Technology program. It requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Associate in Science in Technology outcomes. The learning statements must be supported by documented evidence that demonstrates meeting the outcomes, and culminate in the Integrated Technology Assessment report.

**TECH 330 Economic Analysis for Technologists** 3 credits

*Prerequisite: College Algebra or Statistics.*

*Required Knowledge: The course is highly quantitative. Strong algebra skills and the ability to create spreadsheets, especially EXCEL, are required for this course. College algebra, basic statistics or equivalent are required. Knowledge of micro or macro economics is recommended.*

This course studies the application of economics and decision theory to the evaluation of engineering alternatives in planning, developing, constructing, and managing engineering projects. Students will learn the tools necessary to optimize multiple projects coupled with limited time, limited help, limited money, and limited resources.

**TECH 340 Introduction to Energy Utilization** 3 credits

*Prerequisite: None*

This course assesses how factors in the supply and demand of energy have influenced the landscape of the energy sector within and outside of the United States. It critically analyzes how economic, political, environmental, and social implications, at both the macro and micro levels, have affected technological advancements related to energy. Renewable energy sources include wind, photovoltaics, fuel cells, and biomass were also presented as well as information regarding state-of-the-art renewable energy technologies for the electric power and transportation industries.

**TECH 490 Technology Management Capstone: Integrated Technology Assessment (ITA)**

*Prerequisite: This is a required course in the Bachelor of Professional Studies (BPS) in Technology Management Degree Program; it is only open to Bachelor of Professional Studies (BPS) in Technology Management students who have completed most, if not all degree requirements and should be taken in the final term.*

This course is an online portfolio development experience that requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Bachelor of Professional Studies (BPS) in Technology Management degree outcomes. The learning statements must be supported by documented evidence that demonstrates that the outcomes have been met. Students learn how to develop an online portfolio during the first module of the course and then work under the guidance of a faculty mentor during the remainder of the semester to compose learning statements, compile appropriate evidence, and create the Integrated Technology Assessment report.

**TECH 495 Integrated Technology Assessment BST** 3 credits

*Prerequisite: This is a required course in the Bachelor of Science in Technology (BST) Degree Program; it is only open to Bachelor of Science in Technology (BST) students who have completed most, if not all degree requirements and should be taken in the final term.*

This course is an online portfolio development experience that requires students to reflect on their past academic and professional experiences and use the information gained from this reflective exercise to develop learning statements related to the Bachelor of Science in Technology
(BST) degree outcomes. The learning statements must be supported by documented evidence that demonstrates that the outcomes have been met. Students learn how to develop an online portfolio during the first module of the course and then work under the guidance of a faculty mentor during the remainder of the semester to compose learning statements, compile appropriate evidence, and create the Integrated Technology Assessment report.
# Maximum Credit Awarded for Licenses and Certifications for Undergraduate Health Sciences Degrees

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