CURRICULA

MAJORS

- Accounting
- Applied Technology
- Biotechnology
- Business Administration
- Communication Studies
- Computer Science
- Criminal Justice
- Cybersecurity Management and Policy
- Cybersecurity Technology
- Data Science
- East Asian Studies
- English
- Environmental Health and Safety
- Finance
- General Studies
- Gerontology and Aging Services
- Graphic Communication
- Health Services Management
- History
- Homeland Security
- Humanities
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- Laboratory Management
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- Nursing for Registered Nurses
- Political Science
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- Public Safety Administration
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- Web and Digital Design

MINORS

- Accounting
- African American Studies
- Art
- Art History
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- Business Administration
- Communication Studies
- Computer Science
- Criminal Justice
- Cybersecurity
- Data Science
- Diversity Awareness
- East Asian Studies
- Economics
- Emergency Management
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- Environmental Health and Safety
- Finance
- Fire Service Administration
- Forensics
- Gerontology and Aging Services
- Health Services Management
- History
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- Human Resource Management
- Law for Business
- Management Information Systems
- Marketing
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- Natural Science
- Personal Financial Planning
- Philosophy
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- Sociology
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- Web and Digital Design
- Women, Gender, and Sexuality Studies

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Accounting

You may seek either an academic major or minor in accounting.

Major in Accounting

The major in accounting combines theory and practice to help prepare you to analyze and report on the economic activities of organizations. You'll develop skills in managerial accounting, budgeting, accounting systems, internal controls, financial analysis, financial reporting, internal and external auditing, taxation, and international accounting.

What You'll Learn

Through your coursework, you will learn how to

- Communicate with financial and nonfinancial audiences in a concise manner to facilitate financial decisions
- Create financial and business reports based on research and data analysis
- Apply accounting and business management principles to inform decision-making and risk management
- Evaluate current business technology designed to help personnel work collaboratively and to facilitate the decision-making process
- Exercise professional skepticism in the application of analytical, critical-thinking, and problem-solving skills
- Employ standards to identify, test, and validate processes, systems, and financial data
- Illustrate ethical decision-making models for addressing current and emerging business issues
- Present a framework and plan for fraud detection and deterrence analysis, implementation, and evaluation
- Perform a range of functions, including budgeting, reporting, and auditing, to manage federal agency finances
- Propose a plan for improved use of business intelligence, data management, and analytics

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order:

- Certified Fraud Examiner (CFE)
- Certified Government Auditing Professional (CGAP)
- Certified Government Financial Manager (CGFM)
- Certified Information Systems Auditor (CISA)
- Certified Internal Auditor (CIA)
- Certified Management Accountant/Certified Financial Manager (CMA/CFM)
- Certified Public Accountant (CPA)*

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in accounting, an accelerated pathway between UMGC undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Accounting and Financial Management, CyberAccounting, or Management with a specialization in accounting at UMGC by 6 credits (two courses). Details are on p. 22.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN ACCOUNTING

	Credits
Required Major Core Courses	**36**
Required Related Courses	**27**
Remaining General Education, Minor, and Elective Courses	**57**
Total	**120**

Major Requirements

To complete a major in accounting, you must take a total of 63 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

ACCT 220	Principles of Accounting I (3)
ACCT 221	Principles of Accounting II (3)
ACCT 310	Intermediate Accounting I (3)
ACCT 311	Intermediate Accounting II (3)
ACCT 321	Cost Accounting Data Analytics (3)
ACCT 323	Federal Income Tax I (3)
ACCT 326	Accounting Information Systems (3)
ACCT 410	Accounting for Government and Not-for-Profit Organizations (3)
	or any upper-level ACCT course

* Requirements for CPA certification vary from state to state. See p. 362 or *umgc.edu/professional-licensure* for more information.

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ACCT 422 Auditing Theory and Practice (3)

ACCT 424 Advanced Accounting (3)

ACCT 436 Internal Auditing (3)
or any upper-level ACCT course

ACCT 438 Fraud and Forensic Accounting (3)
or any upper-level ACCT course

REQUIRED RELATED COURSES (27 CREDITS)

The following required courses (12 credits) may be applied to general education requirements:

ECON 201 Principles of Macroeconomics (3)

ECON 203 Principles of Microeconomics (3)

STAT 200 Introduction to Statistics (3)

WRTG 293 Introduction to Professional Writing (3)
or COMM 390 Writing for Managers
or WRTG 394 Advanced Business Writing

The following required courses (15 credits) may be applied to elective requirements:

BMGT 364 Management and Organization Theory (3)

BMGT 380 Business Law I (3)

FINC 330 Business Finance (3)

MRKT 310 Marketing Principles (3)

ACCT 411 Ethics and Professionalism in Accounting (3)
or BMGT 496 Business Ethics

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education and credit earned. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN ACCOUNTING	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
DATA 200 Data Literacy Foundations (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3) *and* NUTR 101 Nutrition Laboratory (1)	General education/biological and physical sciences
ACCT 220 Principles of Accounting I (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
WRTG 293 Introduction to Professional Writing (3)	**Related** and general education/ communications
ACCT 221 Principles of Accounting II (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
NSCI 100 Introduction to Physical Science (3)	General education/biological and physical sciences
ECON 201 Principles of Macroeconomics (3)	**Related** and general education/ behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
CSIA 300 Cybersecurity for Leaders and Managers (3)	Recommended elective
ECON 203 Principles of Microeconomics (3)	**Related** and general education/ behavioral and social sciences
ACCT 310 Intermediate Accounting I (3)	**Major**
FINC 330 Business Finance (3)	**Related** and elective
ACCT 311 Intermediate Accounting II (3)	**Major**
DATA 320 Introduction to Data Analytics (3)	Recommended elective
ACCT 326 Accounting Information Systems (3)	**Major**
IFSM 330 Business Intelligence and Data Analytics (3)	Recommended elective
ACCT 321 Cost Accounting Data Analytics (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications

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Accounting, continued

DATA 335 Data Visualization (3)	Recommended elective
ACCT 323 Federal Income Tax I (3)	**Major**
ACCT 411 Ethics and Professionalism in Accounting (3)	**Related** and elective
CSIA 310 Cybersecurity Processes and Technologies (3)	Recommended elective
ACCT 410 Accounting for Government and Not-for-Profit Organizations (3)	**Major**
BMGT 364 Management and Organization Theory (3)	**Related** and elective
MRKT 310 Marketing Principles (3)	**Related** and elective
ACCT 422 Auditing Theory and Practice (3)	**Major**
BMGT 380 Business Law I (3)	**Related** and elective
CSIA 350 Cybersecurity in Business and Industry (3)	Recommended elective
ACCT 424 Advanced Accounting (3)	**Major**
FINC 328 Small Business Finance (3)	Recommended elective
ACCT 436 Internal Auditing (3)	**Major**
BMGT 335 Small Business Management (3)	Recommended elective
IFSM 438 Information Systems Project Management (3)	Recommended elective
ACCT 438 Fraud and Forensic Accounting (3)	**Major**
CAPL 398A Career Planning Management (1)	Elective

Minor in Accounting

The accounting minor complements the skills you gain in your major discipline by providing a study of how the accounting environment measures and communicates the economic activities of organizations to enable stakeholders to make informed decisions regarding the allocation of limited resources.

Courses in the Minor (15 Credits)

A minor in accounting requires the completion of 15 credits of coursework in accounting. Any ACCT courses apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

African American Studies

You may seek an academic minor in African American studies.

Minor in African American Studies

The African American studies minor complements the skills you gain in your major discipline by offering an interdisciplinary approach to the study of the contemporary life, history, and culture of African Americans.

Courses in the Minor (15 Credits)

A minor in African American studies requires the completion of 15 credits of coursework focusing on African American issues, chosen from the following:

AASP 201	Introduction to African American Studies
ENGL 363	African American Authors from the Colonial Era to 1900
ENGL 364	African American Authors from 1900 to the Present
HIST 461	African American History: 1865 to the Present
SOCY 423	Race and Ethnicity: A Global Perspective

Any African American studies course

It is recommended that you take AASP 201 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Applied Technology

You may seek an academic major in applied technology.

Major in Applied Technology

The major in applied technology is designed to allow you to actively develop skills across different types of computing technologies. It offers great flexibility in credit options and course choices, allowing you to apply knowledge from prior work experience, as well as existing skills and abilities in multiple areas of technology. In this program, you are encouraged to cross-fertilize ideas, leading to a multidimensional and enriched approach to solving problems. You'll learn foundational skills in computer technology and be able to customize your learning plan based on your individual interests and market-aligned career needs.

What You'll Learn

Through your coursework, you will learn how to

- Apply critical thinking and quantitative reasoning skills while using computing technologies and methodologies
- Combine concepts and practices in modern information technology (IT) and information systems (IS) with fundamental concepts in other fields to develop computing-based multidimensional approaches to problem-solving
- Develop oral and written communication skills to present computing-based solutions to complex problems
- Analyze insights about personal and professional goals

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

Overall requirements for a bachelor's degree in applied technology differ slightly from those listed on pp. 32–35. You must meet the 30-credit requirement for coursework taken at UMGC, but those credits may be earned in any combination across major, general education, and elective courses.

BS IN APPLIED TECHNOLOGY

	Credits
General Education Courses	41
Major Courses	30
Minor and Elective Courses	49
Total	120

Major Requirements

To complete a major in applied technology, you must take a total of 30 credits in required coursework, as follows:

REQUIREMENTS FOR THE MAJOR (30 CREDITS)

- 9 credits of coursework in a primary computing focus area, at least 3 credits of which must be upper level.
- 18 credits from any discipline areas (the credits may be earned in multiple disciplines, even more than two).
- APTC 495 Applied Technology Capstone (3)

Course Sequencing

Contact an advisor or a success coach if you have any questions about your academic advisement report.

Art

You may seek an academic minor in art.

Minor in Art

The art minor complements the skills you gain in your major discipline by offering an aesthetic and personal exploration of imagery, media, and composition through a balance of art theory and practice.

Courses in the Minor (15 Credits)

A minor in art requires the completion of the following courses:

ARTT 110 Introduction to Drawing (3)
ARTT 152 Basics of Photography (3)
ARTT 210 Intermediate Drawing (3)
ARTT 320 Painting I (3)
ARTT 428 Advanced Painting (3)

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Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 6 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Art History

You may seek an academic minor in art history.

Minor in Art History

The art history minor complements the skills you gain in your major discipline by helping to develop skills in historical and cultural interpretation and critical analysis of works of architecture, sculpture, painting, and the applied arts.

Courses in the Minor (15 Credits)

A minor in art history requires the completion of the following courses:

ARTH 204	Film and American Culture Studies (3)
ARTH 334	Understanding Movies (3)
ARTH 372	History of Western Art I (3)
ARTH 373	History of Western Art II (3)
ARTH 375	History of Graphic Art (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Biology

You may seek an academic minor in biology.

Minor in Biology

The biology minor complements the skills you gain in your major discipline by helping to provide an underlying scientific base on which to build a career in the life sciences, allied health fields, bioinformatics, environmental management, science journalism, or science education.

Courses in the Minor (15 Credits)

A minor in biology requires the completion of 15 credits of coursework in biology. All BIOL courses apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Biotechnology

The bachelor's degree program in biotechnology has program-specific admission requirements (listed on p. 9) that you must meet before enrolling in any program courses.

You must have completed 11 credits of approved coursework in genetics and biotechnology applications and techniques—within an Associate of Applied Science degree program at a community college with which UMGC has an articulation agreement or within another appropriate transfer program—to pursue an academic major in biotechnology. Consult an advisor or a success coach before choosing this major.

Major in Biotechnology

The major in biotechnology combines laboratory skills and applied coursework with a biotechnology internship experience and upper-level study.

For this program, you are required to have already gained technical and scientific knowledge of biotechnology through coursework and direct experience in the field. Contact an advisor or a success coach to confirm your eligibility.

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What You'll Learn

Through your coursework, you will learn how to

- Practice ethical standards of integrity, honesty, and fairness in scientific practices and professional conduct
- Communicate orally and in writing in a clear, well-organized manner that effectively informs and clarifies scientific principles and lab techniques
- Offer technical support, customer assistance, and cost-benefit analyses regarding biotechnical approaches to the development of products and services
- Use scientific procedures and current and emerging technologies to conduct safe and hygienic laboratory experiments and collect validated and documented data
- Comply with and adhere to national, state, and local standards, policies, protocols, and regulations for laboratory and manufacturing activity
- Apply scientific knowledge and principles, quantitative methods, and technology to think critically and solve complex problems in biotechnology

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN BIOTECHNOLOGY

	Credits
Required Major Core Courses	**36**
Required Related Courses	**17**
Remaining General Education, Minor, and Elective Courses	**67**
Total	**120**

Major Requirements

To complete a major in biotechnology, you must take a total of 53 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

The following lower-level courses, accepted in transfer (11 credits):

General genetics with genetics laboratory (4)

Biotechnology applications and techniques with laboratory (7)—Chosen from the following academic areas: biotechnology, biochemistry, cell biology, chemistry, genetics, immunology, microbiology, molecular biology, physics, and virology

The following required courses (25 credits):

BIOL 230	General Microbiology (4)
BIOL 325	Inquiries in Biological Science (3)
BIOL 350	Molecular and Cellular Biology (3)
BIOL 357	Bioinformatics (3)
NSCI 301	Laboratory Management and Safety (3)
BIOL 486A/B	Workplace Learning in Biology (6)
BIOL 495	Life Sciences Capstone (3)

REQUIRED RELATED COURSES (17 CREDITS)

The following required courses (8 credits) may be applied to general education requirements:

BIOL 105	Principles of Biology I (4)
CHEM 103	General Chemistry I (4)

Required science coursework (9 credits) may be applied to elective requirements. Courses may be chosen from the following:

CHEM 113	General Chemistry II
PHYS 121	Fundamentals of Physics I
PHYS 122	Fundamentals of Physics II

Any other approved coursework in biotechnology, biochemistry, cell biology, chemistry, genetics, immunology, microbiology, molecular biology, physics, and virology

Course Sequencing

Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Business Administration

You may seek either an academic major or minor in business administration.

Major in Business Administration

In the business administration major, you'll gain a well-rounded education that provides foundational, workplace-relevant management skills, organizational theory, and operational knowledge.

UMGC's career-focused bachelor's degree program in business administration is designed to help you compete for the jobs of today and tomorrow by building a comprehensive base of knowledge. This major will help you prepare for a variety of positions in for-profit, nonprofit, and public-sector organizations.

What You'll Learn

Through your coursework, you will learn how to

- Plan and communicate a shared vision for the organization that will drive strategy, assist with decision-making, and position the organization competitively
- Design and create management and leadership plans
- Evaluate qualitative and quantitative data
- Communicate effectively across all levels of an organization
- Develop, communicate, and implement policies and procedures to reduce cost and organizational risk and promote ethical practices
- Manage people, time, and resources by using effective employment practices, encouraging team building, and mentoring junior members of the staff
- Design and execute personal and employee development systems to enhance job performance and leadership skills

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN BUSINESS ADMINISTRATION

	Credits
Required Major Core Courses	33
Required Related Courses	12
Remaining General Education, Minor, and Elective Courses	75
Total	120

Major Requirements

To complete a major in business administration, you must take a total of 45 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

BMGT 110	Introduction to Business and Management (3)
ACCT 220	Principles of Accounting I (3)
ACCT 221	Principles of Accounting II (3)
BMGT 364	Management and Organization Theory (3)
BMGT 365	Organizational Leadership (3)
MRKT 310	Marketing Principles (3)
BMGT 380	Business Law I (3)
HRMN 300	Human Resource Management (3)
FINC 330	Business Finance (3)
BMGT 496	Business Ethics (3)
BMGT 495	Strategic Management (3)

REQUIRED RELATED COURSES (12 CREDITS)

The following required courses may be applied to general education requirements:

ECON 201	Principles of Macroeconomics (3)
ECON 203	Principles of Microeconomics (3)
IFSM 300	Information Systems in Organizations (3)
STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BS IN BUSINESS ADMINISTRATION	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
BMGT 110 Introduction to Business and Management (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
IFSM 300 Information Systems in Organizations (3)	**Related** and general education/ research and computing literacy
ACCT 220 Principles of Accounting I (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
ECON 201 Principles of Macroeconomics (3)	**Related** and general education/ behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 203 Principles of Microeconomics (3)	**Related** and general education/ behavioral and social sciences
ACCT 221 Principles of Accounting II (3)	**Major**
Elective (3)	Elective
BMGT 364 Management and Organization Theory (3)	**Major**
Elective (3)	Elective
BMGT 365 Organizational Leadership (3)	**Major**
Elective (3)	Elective
MRKT 310 Marketing Principles (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
Elective (3)	Elective
BMGT 380 Business Law I (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HRMN 300 Human Resource Management (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
FINC 330 Business Finance (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 496 Business Ethics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
BMGT 495 Strategic Management (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Business Administration

The business administration minor complements the skills you gain in your major discipline by providing a study of principles and techniques used in organizing, planning, managing, and leading within various organizations.

Courses in the Minor (15 Credits)

A minor in business administration requires the completion of 15 credits of coursework in business administration. Any ACCT, BMGT, FINC, HMGT, HRMN, and MRKT courses apply. It is recommended that you take BMGT 364 as the first course in the minor (if you have not already applied the course to other requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Communication Studies

You may seek either an academic major or minor in communication studies.

Major in Communication Studies

Whether you're interested in journalism, public relations, business, or digital communications, you can build a firm base of knowledge while you earn a bachelor's degree in communication studies at UMGC. In this major, you'll learn about and apply communication theories and best practices to communicate about events and ideas to various populations. In addition, you'll learn to work with individuals and groups professionally and manage communications within ethical, legal, and financial parameters.

What You'll Learn

Through your coursework, you will learn how to

- Interpret, evaluate, and apply conventions of communication scholarship
- Apply critical reasoning skills to finding, evaluating, interpreting, using, and delivering information
- Apply ethical communication principles and practices to finding, evaluating, interpreting, creating, and delivering messages
- Create written messages tailored to specific audiences, purposes, and contexts
- Create oral and multimedia presentations tailored to specific audiences, purposes, and contexts
- Access, analyze, evaluate, design, create, and act on messages in a variety of media contexts
- Demonstrate techniques for mindful hearing, attending, understanding, responding, and remembering in a variety of contexts
- Observe, analyze, and adapt cognitive, affective, and behavioral communication in a variety of contexts
- Leverage the principles of small-group communication to complete tasks
- Apply organizational communication frameworks to the management of upward, downward, and horizontal oral, visual, and written communication in workplace contexts

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BA IN COMMUNICATION STUDIES

	Credits
General Education Courses	41
Required Major Core Courses	33
Minor and Elective Courses	46
Total	120

Major Requirements

To complete a major in communication studies, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

SPCH 100	Foundations of Oral Communication (3) *or any SPCH course*
COMM 207	Understanding Visual Communication (3) *or any COMM course*
JOUR 201	Introduction to News Writing (3)
COMM 300	Communication Theory (3)
COMM 302	Mass Communication and Media Studies (3)
SPCH 324	Communication and Gender (3)
JOUR 330	Public Relations Theory (3) *or any upper-level JOUR course*
COMM 400	Mass Media Law (3) *or any upper-level COMM course*
SPCH 470	Effective Listening (3) *or any upper-level SPCH course*
COMM 390	Writing for Managers (3) *or any upper-level COMM course*
COMM 495	Communication Studies Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BA IN COMMUNICATION STUDIES	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/ communications
SPCH 100 Foundations of Oral Communication (3)	**Major**
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
COMM 207 Understanding Visual Communication (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/ communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
COMM 202 Media and Society (3)	General education/ communications
JOUR 201 Introduction to News Writing (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
COMM 300 Communication Theory (3)	**Major**
Elective (3)	Elective
COMM 302 Mass Communication and Media Studies (3)	**Major**
Elective (3)	Elective
SPCH 324 Communication and Gender (3)	**Major**
Elective (3)	Elective
JOUR 330 Public Relations Theory (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/ communications
Elective (3)	Elective
COMM 400 Mass Media Law (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
SPCH 470 Effective Listening (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
COMM 390 Writing for Managers (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
COMM 495 Communication Studies Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Communication Studies

The communication studies minor complements the skills you gain in your major discipline by helping you develop specialized skills in workplace communication, including visual, written, and oral communication skills and a greater understanding of human interaction.

Courses in the Minor (15 Credits)

A minor in communication studies requires the completion of 15 credits of coursework in communication studies. All COMM, JOUR, SPCH, and WRTG courses apply. It is recommended that you take COMM 300 early in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Computer Science

You may seek either an academic major or minor in computer science.

Major in Computer Science

With a bachelor's degree in computer science, you'll be able to plan, design, and optimize computer software and hardware systems for commercial and government environments. This versatile major provides you with a foundation in programming languages, software development, complex algorithms, and graphics and visualization.

What You'll Learn

Through your coursework, you will learn how to

- Develop the analytical and problem-solving skills necessary to design, implement, test, and debug computer programs
- Apply mathematical principles, computer science theory, and software development fundamentals to design and build effective computing-based solutions
- Design and implement a computing-based solution to meet a given set of requirements, standards, and guidelines
- Evaluate alternative computing architectures, algorithms, and systems to make informed decisions that optimize system performance
- Communicate effectively with a range of audiences in a variety of professional contexts
- Recognize local, national, and international technical standards and legal, ethical, and intellectual property regulations in computing practice

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in computer science, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Arts in Teaching by 12 credits (three courses, including the noncredit introductory course UCSP 615). Details are on p. 24.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN COMPUTER SCIENCE

	Credits
Required Major Core Courses	**36**
Required Related Courses	**14**
Remaining General Education, Minor, and Elective Courses	**70**
Total	**120**

Major Requirements

To complete a major in computer science, you must take a total of 50 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

CMSC 115	Introductory Programming (3)
CMSC 215	Intermediate Programming (3)
CMSC 310	Computer Systems and Architecture (3)
CMIT 265	Fundamentals of Networking (3)
CMSC 315	Data Structures and Analysis (3)
CMSC 320	Relational Database Concepts and Applications (3)
CMSC 330	Advanced Programming Languages (3)
CMSC 335	Object-Oriented and Concurrent Programming (3)
CMSC 345	Software Engineering Principles and Techniques (3)
CMSC 430	Compiler Theory and Design (3)
CMSC 451	Design and Analysis of Computer Algorithms (3)
CMSC 495	Computer Science Capstone (3)

REQUIRED RELATED COURSES (14 CREDITS)

The following required courses (7 credits) may be applied to general education requirements:

MATH 140	Calculus I (4)
CMSC 105	Introduction to Problem-Solving and Algorithm Design (3)

The following required courses (7 credits) may be applied to elective requirements:

MATH 141	Calculus II (4)
CMSC 150	Introduction to Discrete Structures (3)

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Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN COMPUTER SCIENCE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMSC 105 Introduction to Problem-Solving and Algorithm Design (3)	**Related** and general education/ research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CMSC 115 Introductory Programming (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 140 Calculus I (4)	**Related** and general education/ mathematics
WRTG 112 Academic Writing II (3)	General education/communications
CMSC 215 Intermediate Programming (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
CMSC 150 Introduction to Discrete Structures (3)	**Related** and elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CMSC 310 Computer Systems and Architecture (3)	**Major**
MATH 141 Calculus II (4)	**Related** and elective
CMIT 265 Fundamentals of Networking (3)	**Major**
Elective (3)	Elective
CMSC 315 Data Structures and Analysis (3)	**Major**
Elective (3)	Elective
CMSC 320 Relational Database Concepts and Applications (3)	**Major**
CMSC 330 Advanced Programming Languages (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
CMSC 335 Object-Oriented and Concurrent Programming (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMSC 345 Software Engineering Principles and Techniques (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CMSC 430 Compiler Theory and Design (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMSC 451 Design and Analysis of Computer Algorithms (3)	**Major**
Elective (3)	Elective
CMSC 495 Computer Science Capstone (3)	**Major**/capstone
Elective (2)	Elective

Minor in Computer Science

The computer science minor complements the skills you gain in your major discipline by providing the foundations for designing and programming computer applications in support of many occupations and developing a process for solving challenging computer problems.

Courses in the Minor (15 Credits)

A minor in computer science requires the completion of 15 credits in computer science coursework, including the following two-course sequence in programming:

CMSC 115 Introductory Programming (3)
CMSC 215 Intermediate Programming (3)

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The remaining 9 credits may be chosen from any upper-level (i.e., numbered 300 or above) CMSC courses.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the national academic honor society for the computing and information disciplines, is available on p. 332.

Technology Requirements

Courses in the computer science program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

Criminal Justice

You may seek either an academic major or minor in criminal justice.

Major in Criminal Justice

The criminal justice curriculum at UMGC is uniquely designed to provide you with an understanding of crime and criminal behavior, the roles of practitioners within the criminal justice system, and the critical-thinking and ethical decision-making strategies necessary to meet the professional demands of the field of criminal justice.

What You'll Learn

Through your coursework, you will learn how to

- Evaluate the roles and responsibilities of police, courts, and corrections within the American criminal justice system
- Utilize ethical reasoning, analytical skills, and professional knowledge to investigate the implications of criminal justice policies or procedures on diverse social groups
- Articulate the importance of research in the social sciences
- Evaluate criminal justice public policies using analytical competencies
- Apply the principles of the various criminal bodies of law (i.e., substantive, procedural, and evidentiary) that currently regulate the American criminal justice system

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in criminal justice, an accelerated pathway between UMGC's undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Management with a specialization in criminal justice management at UMGC by 6 credits (two courses). Details are on p. 22.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BS IN CRIMINAL JUSTICE

	Credits
General Education Courses	**41**
Required Major Core Courses	**33**
Minor and Elective Courses	**46**
Total	**120**

Major Requirements

To complete a major in criminal justice, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

CCJS 100 Introduction to Criminal Justice (3)
CCJS 230 Criminal Law in Action (3)
CCJS 340 Law Enforcement Administration (3)
CCJS 345 Introduction to Security Management (3)
CCJS 350 Juvenile Delinquency (3)
or any upper-level CCJS course
CCJS 360 Victimology (3)
or any upper-level CCJS course
CCJS 380 Ethical Behavior in Criminal Justice (3)
CCJS 341 Criminal Investigation (3)
CCJS 352 Drugs and Crime (3)
or any upper-level CCJS course
CCJS 497 Correctional Administration (3)
CCJS 495 Criminal Justice Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN CRIMINAL JUSTICE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111P Program and Career Exploration in Public Safety (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CCJS 100 Introduction to Criminal Justice (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/ communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
CCJS 230 Criminal Law in Action (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
HIST 125 Technological Transformations (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CCJS 340 Law Enforcement Administration (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CCJS 345 Introduction to Security Management (3)	**Major**
Elective (3)	Elective
CCJS 350 Juvenile Delinquency (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
CCJS 360 Victimology (3)	**Major**
Elective (3)	Elective

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Criminal Justice, continued

Elective (3)	Elective
CCJS 380 Ethical Behavior in Criminal Justice (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CCJS 341 Criminal Investigation (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CCJS 352 Drugs and Crime (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CCJS 497 Correctional Administration (3)	**Major**
Elective (3)	Elective
CCJS 495 Criminal Justice Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Criminal Justice

The criminal justice minor complements the skills you gain in your major discipline by providing a study of crime, law enforcement, courts, corrections, security, and investigative forensics.

Courses in the Minor (15 Credits)

A minor in criminal justice requires the completion of 15 credits of coursework in criminal justice. Any CCJS courses apply. It is recommended that you take CCJS 100 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Cybersecurity

Minor in Cybersecurity

The cybersecurity minor complements the skills you gain in your major discipline by providing a study of the principles, issues, and technologies pertinent to the cybersecurity field.

Courses in the Minor (15 Credits)

A minor in cybersecurity requires the completion of 15 credits of coursework in cybersecurity. All CSIA and CMIT courses apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Technology Requirements

Courses in the cybersecurity program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

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Cybersecurity Management and Policy

You may seek an academic major in cybersecurity management and policy.

Major in Cybersecurity Management and Policy

In UMGC's bachelor's degree program in cybersecurity management and policy, you can prepare to become a leader in the protection of data. This innovative, world-class program uses a multidisciplinary approach—drawing from fields such as management, law, science, business, technology, and psychology—to provide you with the most current knowledge and skills for protecting critical cyber infrastructure and assets.

UMGC was named a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) by the National Security Agency and the Department of Homeland Security.

What You'll Learn

Through your coursework, you will learn how to

- Integrate cybersecurity best practices and guidance to formulate protection strategies for an organization's critical information and assets
- Apply ethical principles to the development of cybersecurity plans, policies, and programs in industry and government organizations
- Evaluate the applicability of laws, regulations, standards, and frameworks to improve organizational resilience and governance of cybersecurity capabilities
- Apply business analysis principles to identify, assess, and mitigate organizational risk, including acquisition and supply chain risk, arising from diverse sources
- Apply risk management frameworks to identify cybersecurity needs and integrate best practices to improve cybersecurity positions for municipal, state, federal, and international government agencies and organizations
- Integrate continuous monitoring and real-time security solutions to improve situational awareness and deployment of countermeasures within an organization
- Evaluate technology applications to support the cybersecurity goals and objectives of an organization
- Investigate the effects (good or bad) of emerging technology applications on cybersecurity
- Participate in the incident response and recovery process for an organization
- Apply the principles of professional communications and technical writing to effectively communicate about cybersecurity in organizational settings

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order:

- CompTIA Network+
- CompTIA Security+
- EC-Council Certified Chief Information Security Officer (CCISO)
- EC-Council Certified Incident Handler (ECIH)
- EC-Council Certified Secure Computer User (CSCU)
- EC-Council Certified Threat Intelligence Analyst (CTIA)
- EC-Council Information Security Manager (EISM)
- IAPP Certified Information Privacy Professional/US (CIPP/US)
- $(ISC)^2$ Certified Authorization Professional (CAP)
- $(ISC)^2$ Certified Information Systems Security Professional (CISSP)
- Professional Business Analyst (PMI-PBA)

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN CYBERSECURITY MANAGEMENT AND POLICY

	Credits
General Education Courses	41
Required Major Core Courses	33
Minor and Elective Courses	46
Total	120

Major Requirements

To complete a major in cybersecurity management and policy, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

CSIA 300	Cybersecurity for Leaders and Managers (3)
IFSM 304	Ethics in Information Technology (3)

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CMIT 265	Fundamentals of Networking (3)
CMIT 320	Network Security (3)
CSIA 310	Cybersecurity Processes and Technologies (3)
CSIA 350	Cybersecurity in Business and Industry (3)
CSIA 360	Cybersecurity in Government Organizations (3)
CSIA 413	Cybersecurity Policy, Plans, and Programs (3)
CSIA 459	Evaluating Emerging Technologies (3)
CMIT 425	Advanced Information Systems Security (3)
CSIA 485	Cybersecurity Management and Policy Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN CYBERSECURITY MANAGEMENT AND POLICY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	**Prerequisite** and general education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CSIA 300 Cybersecurity for Leaders and Managers (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 107 College Algebra (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
IFSM 304 Ethics in Information Technology (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CMIT 265 Fundamentals of Networking (3)	**Major**
Elective (3)	Elective
CMIT 320 Network Security (3)	**Major**
Elective (3)	Elective
CSIA 310 Cybersecurity Processes and Technologies (3)	**Major**
Elective (3)	Elective
CSIA 350 Cybersecurity in Business and Industry (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/ communications
Elective (3)	Elective
CSIA 360 Cybersecurity in Government Organizations (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CSIA 413 Cybersecurity Policy, Plans, and Programs (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CSIA 459 Evaluating Emerging Technologies (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMIT 425 Advanced Information Systems Security (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CSIA 485 Cybersecurity Management and Policy Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

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Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the international honor society for the computing and information disciplines, is available on p. 332.

Technology Requirements

Courses in the cybersecurity management and policy program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

Cybersecurity Technology

You may seek an academic major in cybersecurity technology.

Major in Cybersecurity Technology

In UMGC's award-winning program in cybersecurity technology, you'll learn the operational procedures and technologies to design, implement, administer, secure, and troubleshoot corporate networks while applying cybersecurity principles operationally.

Designed to combine the benefits of a traditional college education with hands-on training in state-of-the-art computer technology, the cybersecurity technology curriculum integrates technical skills with communication skills and superior general education knowledge.

UMGC was named a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) by the National Security Agency and the Department of Homeland Security. UMGC is also a designated National Center of Digital Forensics Academic Excellence (CDFAE) institution.

What You'll Learn

Through your coursework, you will learn how to

- Design, implement, and administer local-area and wide-area networks to satisfy organizational goals
- Resolve IT system problems and meet the needs of end users by applying troubleshooting methodologies
- Apply relevant policies and procedures to effectively secure and monitor IT systems
- Communicate IT knowledge effectively using a wide range of presentation styles
- Meet organizational goals using effective workforce skills, best practices, and ethical principles

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order:

- AWS Certified Cloud Practitioner—Foundational
- AWS Certified Solutions Architect—Associate
- CERT Computer Security Incident Handler (CSIH)
- Cisco Certified Network Associate (CCNAv7)
- Cisco Certified Network Professional (CCNP-ENARSI)
- Cisco Certified Network Professional (CCNP-ENCOR)
- CompTIA A+
- CompTIA Cloud+
- CompTIA Cybersecurity Analyst (CySA+)
- CompTIA Linux+ and LPIC-1
- CompTIA Network+
- CompTIA PenTest+
- CompTIA Security+
- EC-Council Certified Ethical Hacker (CEH)
- $(ISC)^2$ Certified Cloud Security Professional (CCSP)
- $(ISC)^2$ Certified Information Systems Security Professional (CISSP)
- ISFCE Certified Computer Examiner (CCE)
- Microsoft 365 Certified: Enterprise Administrator Expert
- Microsoft 365 Certified: Modern Desktop Administrator Associate
- Microsoft Certified: Azure Fundamentals (AZ-900)

The cybersecurity technology curriculum is closely aligned to industry standards and certifications. Changes related to leading industry certifications may lead to adjustments in course offerings. Visit the program web page for updates.

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in cybersecurity technology, an accelerated pathway between the undergraduate and graduate programs in this field allows you to earn 6 credits toward the Master of Science in Cloud Computing Systems, Cyber Operations, Cybersecurity Management and Policy, Cybersecurity Technology, or Digital Forensics and Cyber Investigation and/or a certificate in Cloud Computing and Networking, Cyber Operations, Cybersecurity Management and Policy, Cybersecurity Technology, or Digital Forensics and Cyber Investigation. Details are on p. 22.

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Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN CYBERSECURITY TECHNOLOGY

	Credits
General Education Courses	**41**
Required Major Core Courses	**33**
Minor and Elective Courses	**46**
Total	**120**

Major Requirements

To complete a major in cybersecurity technology, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

CMIT 202 Fundamentals of Computer Troubleshooting (3)
CMIT 265 Fundamentals of Networking (3)
CMIT 291 Introduction to Linux (3)
CMIT 320 Network Security (3)
CMIT 321 Ethical Hacking (3)
CMIT 326 Cloud Technologies (3)
CMIT 351 Switching, Routing, and Wireless Essentials (3)
CMIT 495 Cybersecurity Technology Capstone (3)

Three upper-level courses chosen from any upper-level CMIT courses and CCJS 321 (9)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN CYBERSECURITY TECHNOLOGY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CMIT 202 Fundamentals of Computer Troubleshooting (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 107 College Algebra (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
CMIT 265 Fundamentals of Networking (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CMIT 291 Introduction to Linux (3)	**Major**
CMIT 320 Network Security (3)	**Major**
Elective (3)	Elective
CMIT 321 Ethical Hacking (3)	**Major**
Elective (3)	Elective
CMIT 351 Switching, Routing, and Wireless Essentials (3)	**Major**
Elective (3)	Elective
CMIT 326 Cloud Technologies (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
Elective (3)	Elective

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Cybersecurity Technology, continued

Elective (3)	Elective
CMIT 421 Threat Management and Vulnerability Assessment (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMIT 386 Penetration Testing and Cyber Red Teaming (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CCJS 321 Digital Forensics in the Criminal Justice System (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CMIT 495 Cybersecurity Technology Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the international honor society for the computing and information disciplines, is available on p. 332.

Technology Requirements

Courses in the cybersecurity technology program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

Data Science

You may seek either an academic major or minor in data science.

Major in Data Science

The major in data science is designed to meet the growing need for highly skilled professionals who can transform increasing amounts of data into actionable insights. The program provides hands-on experience with a number of the most frequently used analytical tools and methods, offering opportunities to manage and manipulate data; create data visualizations; build predictive models using different machine learning techniques; apply artificial intelligence (AI) and natural language processing techniques to gain insights from free text, images, and videos; and make strategic data-driven recommendations that directly affect business outcomes. You'll acquire fundamental knowledge and skills in data science that will help you adapt to future changes in tools, technology, and the marketplace.

What You'll Learn

Through your coursework, you will learn how to

- Communicate effectively orally and in writing, meeting expectations for content, purpose, organization, audience, and format
- Implement all stages of data science methodology, including data extraction, data cleaning, data load, and transformation
- Execute best practices, using diverse technologies, in data science, business intelligence, machine learning, and artificial intelligence
- Analyze social, global, and ethical issues and their implications as they relate to the use of existing and emerging data science, machine learning, and AI technologies
- Evaluate a business problem or opportunity to determine the extent data science can provide a viable solution, and translate the business problem into a viable project to meet organizational strategic and operational needs
- Incorporate data security, data privacy, and risk management best practices in the planning, development, and implementation of data science solutions
- Build and deploy the machine learning process throughout its life cycle in full compliance with best practices for tool evaluation, model selection, and model validation
- Leverage big data analytics and AI technology to create solutions for stream analytics, text processing, natural language understanding, AI, and cognitive applications

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INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order.

- AWS Certified Machine Learning
- Microsoft Certified: Data Analyst Associate
- Tableau Desktop Certified Associate
- Tableau Desktop Specialist

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in data science, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Science in Data Analytics by 6 credits. Details are on p. 23.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN DATA SCIENCE

	Credits
Required Major Core Courses	**39**
Required Related Courses	**6**
Remaining General Education, Minor, and Elective Courses	**75**
Total	**120**

Major Requirements

To complete a major in data science, you must take a total of 45 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (39 CREDITS)

STAT 200 Introduction to Statistics (3)
DATA 230 Mathematics for Data Science (3)
DATA 300 Foundations of Data Science (3)
CSIA 300 Cybersecurity for Leaders and Managers (3)
DATA 320 Introduction to Data Analytics (3)
IFSM 330 Business Intelligence and Data Analytics (3)
DATA 335 Data Visualization (3)
DATA 430 Foundations of Machine Learning (3)
DATA 440 Advanced Machine Learning (3)
DATA 445 Advanced Data Science (3)
DATA 450 Data Ethics (3)
DATA 460 Artificial Intelligence Solutions (3)
DATA 495 Data Science Capstone (3)

REQUIRED RELATED COURSES (6 CREDITS)

The following required courses may be applied to general education requirements:

DATA 200 Data Literacy Foundations (3)
MATH 115 Pre-Calculus (3)
or a more advanced MATH course

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN DATA SCIENCE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/ communications
MATH 115 Pre-Calculus I (3)	**Related** and general education/ mathematics
DATA 200 Data Literacy Foundations (3)	**Related** and general education/ research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
NUTR 101 Nutrition Laboratory (1)	Recommended elective
STAT 200 Introduction to Statistics (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
DATA 230 Mathematics for Data Science (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/ communications

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Data Science, continued

DATA 300 Foundations of Data Science (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
NSCI 103 Fundamentals of Physical Science (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CSIA 300 Cybersecurity for Leaders and Managers (3)	**Major**
Elective (3)	Elective
DATA 320 Introduction to Data Analytics (3)	**Major**
Elective (3)	Elective
IFSM 330 Business Intelligence and Data Analytics (3)	**Major**
Elective (3)	Elective
DATA 335 Data Visualization (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/ communications
Elective (3)	Elective
DATA 430 Foundations of Machine Learning (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
DATA 440 Advanced Machine Learning (3)	**Major**
Elective (3)	Elective
DATA 445 Advanced Data Science (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
DATA 450 Data Ethics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
DATA 460 Artificial Intelligence Solutions (3)	**Major**
Elective (3)	Elective
DATA 495 Data Science Capstone (3)	**Major**/capstone

Technology Requirements

Courses in the data science program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

Minor in Data Science

The data science minor complements the skills you gain in your major discipline by helping you develop specialized skills in data science, business intelligence, machine learning, and artificial intelligence.

Courses in the Minor (15 Credits)

The minor in data science requires the completion of 15 credits of coursework. Courses allowable for the major in data science apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

Technology requirements are the same as for the major (see above). For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Diversity Awareness

You may seek an academic minor in diversity awareness.

Minor in Diversity Awareness

The diversity awareness minor complements the skills you gain in your major discipline by providing an interdisciplinary perspective on diversity in contemporary society, conceptually grounded in social science, to promote and cultivate the intercultural awareness and effective communication skills that are necessary in today's professional and social settings.

Courses in the Minor (15 Credits)

A minor in diversity awareness requires the completion of 15 credits of coursework, chosen from the following courses:

ANTH 346	Anthropology of Language and Communication
BEHS 220	Diversity Awareness
BEHS 250	Social Justice Movements
BEHS 320	Disability Studies
BEHS 343	Parenting Today
ENGL 459	Contemporary Global Literatures
GERO 311	Gender and Aging
GERO 427	Culture and Aging
PSYC 338	Psychology of Gender
PSYC 354	Cross-Cultural Psychology
SOCY 325	The Sociology of Gender
SOCY 423	Race and Ethnicity: A Global Perspective
SOCY 426	Sociology of Religion
SPCH 324	Communication and Gender
SPCH 482	Intercultural Communication
WMST 200	Introduction to Women, Gender, and Sexuality Studies

It is recommended that you take BEHS 220 or BEHS 250 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

East Asian Studies

You may seek either an academic major or minor in East Asian studies.

Major in East Asian Studies

UMGC's East Asian studies major provides an overview of the history, economics, politics, culture, and languages of the East Asian region, including China, Korea, and Japan. In this program, you'll examine East Asia's rich past and continuing contributions to the global community.

This program is ideal for those who live or work in East Asia, know East Asian languages, or regularly interact with people from East Asian countries.

What You'll Learn

Through your coursework, you will learn how to

- Interpret, communicate, educate, and advise others based on your understanding, research, and analysis of the social, historical, and cultural contexts of East Asia
- Use your knowledge of East Asia to identify, create, facilitate, and promote opportunities for interaction and cooperation between East Asia and the global community
- Apply your knowledge of East Asian diversity, values, and expectations to perform in a culturally appropriate way in personal and professional settings
- Write and speak an East Asian language, integrating interpersonal skills and cultural knowledge

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BA IN EAST ASIAN STUDIES

	Credits
General Education Courses	**41**
Major Core Courses	**30**
Minor and Elective Courses	**49**
Total	**120**

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Major Requirements

To complete a major in East Asian studies, you must take a total of 30 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

ASTD 284 Foundations of East Asian Civilization (3)

ASTD 285 Introduction to Modern East Asia (3)

PHIL 348 Religions of the East (3)

ASTD 485 East Asian Studies Capstone (3)

East Asian language courses (9)—Chosen from CHIN or JAPN courses numbered 111, 112, 114, or higher

Upper-level East Asian content courses (9)—Chosen from ASTD, CHIN, JAPN, KORN, Asian HIST, and Asian GVPT courses and ANTH 417; focused study on China or Japan is recommended, as follows:

China

HIST 480 History of China to 1912

ASTD 370 Interpreting Contemporary China

ANTH 417 Peoples and Cultures of East Asia

Japan

HIST 482 History of Japan to 1800

JAPN 333 Japanese Society and Culture

ANTH 417 Peoples and Cultures of East Asia

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Alternate options are available for this major based on academic and professional interests. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BA IN EAST ASIAN STUDIES	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
CHIN 111 Elementary Chinese I *or* **JAPN 111** Elementary Japanese I (3)	**Major**
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
ASTD 284 Foundations of East Asian Civilization (3)	**Major**
CHIN 112 Elementary Chinese II *or* **JAPN 112** Elementary Japanese II (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
CHIN 114 Elementary Chinese III *or* **JAPN 114** Elementary Japanese III (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/communications
ASTD 285 Introduction to Modern East Asia (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
PHIL 348 Religions of the East (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective

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East Asian Studies, continued

Elective (3)	Elective
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
HIST 480 History of China to 1912 *or* **HIST 482** History of Japan to 1800 (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ASTD 370 Interpreting Contemporary China *or* **JAPN 333** Japanese Society and Culture (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ANTH 417 Peoples and Cultures of East Asia (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
ASTD 485 East Asian Studies Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in East Asian Studies

The East Asian studies minor complements the skills you gain in your major discipline by providing an interdisciplinary study of the cultural, historical, political, and contemporary business realities of the Asian/Pacific world.

Courses in the Minor (15 Credits)

A minor in East Asian studies requires the completion of 15 credits of coursework in East Asian studies, which must include ASTD 284 and ASTD 285. Courses allowable for the major in East Asian studies apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Economics

You may seek an academic minor in economics.

Minor in Economics

The economics minor complements the skills you gain in your major discipline by providing a study of the forces that determine production and distribution, price levels, and income distribution, as well as other economic factors that influence the quality of life.

Courses in the Minor (15 Credits)

A minor in economics requires the completion of 15 credits of coursework in economics, chosen from the following courses:

ECON 201	Principles of Macroeconomics
ECON 203	Principles of Microeconomics
ECON 305	Intermediate Macroeconomic Theory and Policy
ECON 306	Intermediate Microeconomic Theory
ECON 330	Business and Economics of Sustainability
ECON 430	Money and Banking

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Emergency Management

You may seek an academic minor in emergency management.

Minor in Emergency Management

The emergency management minor complements the skills you gain in your major discipline by providing knowledge of emergency management, including disaster planning and operations, continuity of operations, risk management, and allocation of limited resources.

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a minor in emergency management, an accelerated pathway between UMGC's undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Management with a specialization in emergency management at UMGC by 6 credits (two courses). Details are on p. 23.

Courses in the Minor (15 Credits)

A minor in emergency management requires the completion of the following courses:

EMGT 302	Concepts of Emergency Management (3)
EMGT 304	Emergency Response Preparedness and Planning (3)
EMGT 312	Social Dimensions of Disaster (3)
EMGT 310	Continuity of Operations Planning and Implementation (3)
EMGT 314	Terrorism Issues in Emergency Management (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

English

You may seek either an academic major or minor in English.

Major in English

Like other liberal arts majors, a major in English at UMGC offers a solid base of critical thinking on which to build a career or further graduate study. In-demand skills in research and writing that have a wide application in the job market are also honed. If you are intrigued by literature, the English major may be right for you.

What You'll Learn

Through your coursework, you will learn how to

- Demonstrate knowledge of a range of English-language literary texts, genres, and terms
- Analyze literary texts to explain stylistic, historical, sociocultural, and ethical significance
- Apply critical theory to literary texts to enhance interpretation and analysis
- Conduct effective research across a range of media
- Create writing that effectively argues, persuades, illuminates, and/or informs
- Create presentations in various media to demonstrate the results of academic inquiry

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in English, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Arts in Teaching at UMGC by 12 credits (three courses, including the noncredit introductory course UCSP 615). Details are on p. 24.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BA IN ENGLISH

	Credits
General Education Courses	41
Required Major Core Courses	33
Minor and Elective Courses	46
Total	120

Major Requirements

To complete a major in English, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

ENGL 240 Introduction to Fiction, Poetry, and Drama (3)
ENGL 250 Introduction to Women's Literature (3)
ENGL 303 Critical Approaches to Literature (3)
ENGL 310 Renaissance Literature (3)
ENGL 430 Early American Literature (3)
ENGL 459 Contemporary Global Literature (3)
ENGL 495 English Literature Capstone (3)

Any upper-level ENGL courses (12)—Focused study in American literature or British literature is recommended, as follows:

American Literature

ENGL 363 African American Authors from the Colonial Era to 1900
ENGL 364 African American Authors from 1900 to the Present
ENGL 433 Modern American Literature
ENGL 441 Postmodern American Literature: 1945 to 1999

British Literature

ENGL 311 The Long 18th-Century British Literature
ENGL 312 19th-Century British Literature
ENGL 386 History of the English Language
ENGL 406 Shakespeare Studies

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BA IN ENGLISH	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 112 Academic Writing II (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
ENGL 102 Composition and Literature (3)	General education/communications
ENGL 281 Standard English Grammar (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
ENGL 240 Introduction to Fiction, Poetry, and Drama (3)	**Major**
ENGL 250 Introduction to Women's Literature (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
ENGL 303 Critical Approaches to Literature (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENGL 310 Renaissance Literature (3)	**Major**
Elective (3)	Elective
ENGL 363 African American Authors from the Colonial Era to 1900 *or* **ENGL 311** The Long 18th-Century British Literature (3)	**Major**

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English, continued

WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
ENGL 364 African American Authors from 1900 to the Present *or* **ENGL 312** 19th-Century British Literature (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENGL 430 Early American Literature (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENGL 433 Modern American Literature *or* **ENGL 386** History of the English Language (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENGL 441 Postmodern American Literature: 1945 to 1999 *or* **ENGL 406** Shakespeare Studies (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
ENGL 459 Contemporary Global Literatures (3)	**Major**
ENGL 495 English Literature Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in English

The English minor complements the skills you gain in your major discipline by providing exposure to literary analysis, critical thinking and reading, and the study of the relationship of literature to contemporary intellectual issues.

Courses in the Minor (15 Credits)

A minor in English requires the completion of the following courses:

ENGL 240 Introduction to Fiction, Poetry, and Drama (3)

ENGL 250 Introduction to Women's Literature (3)

ENGL 303 Critical Approaches to Literature (3)

Any upper-level ENGL courses (6)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Environmental Health and Safety

You may seek either an academic major or minor in environmental health and safety.

Major in Environmental Health and Safety

In UMGC's environmental health and safety program, you'll learn to implement evidence-based professional practices to support a safe and healthy work environment.

What You'll Learn

Through your coursework, you will learn how to

- Use information-gathering skills and professional judgment to recommend solutions for broadly defined technical or scientific problems in environmental health and safety
- Apply cognitive and technical skills to anticipate, recognize, and critically evaluate hazards and risk factors
- Select effective control methods to generate practical evidence-based solutions while following legislative and industry standards
- Develop strategies for ongoing professional development and learning to inform evidence-based practice in a continually changing global environment
- Model a range of written and oral communication formats to explain technical information and concepts to various audiences
- Choose collaborative and ethical practices to build the relationships necessary to address contemporary environmental health and safety issues

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BS IN ENVIRONMENTAL HEALTH AND SAFETY

	Credits
Required Major Core Courses	**36**
Required Related Courses	**6**
Remaining General Education, Minor, and Elective Courses	**78**
Total	**120**

Major Requirements

To complete a major in environmental health and safety, you must take a total of 41 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

ENHS 300 Environmental Systems (3)
ENHS 305 Environmental Health and Safety Regulations (3)
ENHS 310 Hazardous Substances and Toxicology (3)
ENHS 315 Risk Assessment in Environmental Health and Safety (3)
ENHS 320 Incident Response and Investigation (3)
ENHS 325 Fire Prevention and Protection (3)
ENHS 330 Safety and Security Management (3)
ENHS 335 Occupational Health and Industrial Hygiene (3)
ENHS 340 Environmental Technology and Control (3)
ENHS 400 Ergonomics and Human Factors (3)
ENHS 405 Pollution Prevention Strategies (3)
ENHS 495 Environmental Health and Safety Capstone (3)

REQUIRED RELATED COURSES (6 CREDITS)

The following required courses may be applied to general education requirements.

CHEM 297 Environmental Chemistry (3)
MATH 115 Pre-Calculus (3)
or a more advanced MATH course

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN ENVIRONMENTAL HEALTH AND SAFETY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111S Program and Career Exploration in Health and Sciences (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
SPCH 125 Introduction to Interpersonal Communication (3)	General education/communications
MATH 115 Pre-Calculus (3)	**Related** and general education/ mathematics
ENHS 300 Environmental Systems (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/communications
CHEM 297 Environmental Chemistry (3)	**Related** and general education/ biological and physical sciences
DATA 200 Data Literacy Foundations (3)	General education/research and computing literacy
ENHS 305 Environmental Health and Safety Regulations (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
PSYC 100 Introduction to Psychology (3)	General education/behavioral and social sciences
ARTT 152 Basics of Photography (3)	General education/arts and humanities
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
ENHS 310 Hazardous Substances and Toxicology (3)	**Major**
Elective (3)	Elective
ENHS 315 Risk Assessment in Environmental Health and Safety (3)	**Major**
Elective (3)	Elective
ENHS 320 Incident Response and Investigation(3)	**Major**
Elective (3)	Elective
ENHS 325 Fire Prevention and Protection (3)	**Major**

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Environmental Health and Safety, continued

WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
ENHS 330 Safety and Security Management (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENHS 335 Occupational Health and Industrial Hygiene (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENHS 340 Environmental Technology and Control (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENHS 400 Ergonomics and Human Factors (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENHS 405 Pollution Prevention Strategies (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
ENHS 495 Environment Health and Safety Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Environmental Health and Safety

The environmental health and safety minor complements the skills you gain in your major discipline by providing an interdisciplinary study of techniques and practices to support a safe and healthy work environment.

Courses in the Minor (15 Credits)

A minor in environmental health and safety requires the completion of the following courses:

ENHS 300 Environmental Systems (3)
ENHS 305 Environmental Health and Safety Regulations (3)
ENHS 310 Hazardous Substances and Toxicology (3)
ENHS 330 Safety and Security Management (3)
ENHS 335 Occupational Health and Industrial Hygiene (3)

It is recommended that you take ENHS 300 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Finance

You may seek either an academic major or minor in finance.

Major in Finance

In UMGC's bachelor's degree program in finance, you'll develop the expertise to apply finance theory to real-world situations. Our program combines a foundation in the principles of business, economics, and accounting with an in-depth focus on the details of finance and financial management via intensive case studies. It can also serve as a significant first step toward earning important certifications in the field.

What You'll Learn

Through your coursework, you will learn how to

- Examine and describe the impact of the legal, regulatory, and environmental influences on the monetary system on planning, forecasting, and making financial decisions
- Evaluate financial information such as financial statements, financial ratios, and cash flows and apply that information to the analysis of business problems
- Analyze and interpret financial concepts to make basic institutional and functional business decisions
- Apply the basic principles of security markets to create, evaluate, and manage security portfolios
- Demonstrate the ability to communicate business concepts professionally
- Recognize the inherent conflict of interest in many business decisions
- Synthesize financial data by applying appropriate technology tools to solve business problems

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INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order.

- Certified Financial Planner (CFP)
- Certified Management Accountant (CMA)

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN FINANCE

	Credits
Required Major Core Courses	**39**
Required Related Courses	**9**
Remaining General Education, Minor, and Elective Courses	**72**
Total	**120**

Major Requirements

To complete a major in finance, you must take a total of 48 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (39 CREDITS)

BMGT 364	Management and Organization Theory (3)
ACCT 220	Principles of Accounting I (3)
ACCT 221	Principles of Accounting II (3)
FINC 330	Business Finance (3)
FINC 335	Fintech, Financial Institutions, and Markets (3)
FINC 340	Investments (3)
FINC 351	Risk Management (3)
FINC 421	Financial Analysis (3)
FINC 430	Financial Management (3)
FINC 440	Security Analysis and Valuation (3)
FINC 460	International Finance (3)
ECON 430	Money and Banking (3)
FINC 495	Contemporary Issues in Finance Practice (3)

REQUIRED RELATED COURSES (9 CREDITS)

The following required courses may be applied to general education requirements:

ECON 201	Principles of Macroeconomics (3)
ECON 203	Principles of Microeconomics (3)
STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN FINANCE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3) *and* NUTR 101 Nutrition Laboratory (1)	General education/biological and physical sciences
BMGT 364 Management and Organization Theory (3)	**Major**
WRTG 112 Academic Writing II (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/mathematics
WRTG 293 Introduction to Professional Writing (3)	General education/communications
ACCT 220 Principles of Accounting I (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
NSCI 100 Introduction to Physical Science (4)	General education/biological and physical sciences
ECON 201 Principles of Macroeconomics (3)	**Related** and general education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities

Continued

Finance, continued

DATA 200 Data Literacy (3)	Recommended elective
ECON 203 Principles of Microeconomics (3)	**Related** and general education/ behavioral and social sciences
ACCT 221 Principles of Accounting II (3)	**Major**
IFSM 330 Business Intelligence and Data Analytics (3)	Recommended elective
FINC 330 Business Finance (3)	**Major**
FINC 335 Fintech, Financial Institutions, and Markets (3)	**Major**
FINC 340 Investments (3)	**Major**
DATA 320 Introduction to Data Analytics (3)	Recommended elective
FINC 351 Risk Management (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
DATA 335 Data Visualization (3)	Recommended elective
FINC 421 Financial Analysis (3)	**Major**
DATA 300 Foundations of Data Science (3)	Recommended elective
Elective (3)	Elective
FINC 430 Financial Management (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
FINC 440 Security Analysis and Valuation (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
FINC 460 International Finance (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ECON 430 Money and Banking (3)	**Major**
Elective (3)	Elective
FINC 495 Contemporary Issues in Finance Practice (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Finance

The finance minor complements the skills you gain in your major discipline by providing a study of the institutions, theory, and practice associated with the allocation of financial resources within the private sector.

Courses in the Minor (15 Credits)

A minor in finance requires the completion of 15 credits of coursework in finance. All FINC courses apply. It is recommended that you take FINC 330, FINC 335, and FINC 340 as the first courses in the minor (if you have not already applied the courses toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Fire Service Administration

You may seek an academic minor in fire service administration.

Minor in Fire Service Administration

The fire service administration minor complements the skills you gain in your major discipline by providing knowledge of disaster planning and the administration of fire-protection services, including organization, planning, operating procedures, management, and allocation of limited resources.

Courses in the Minor (15 Credits)

A minor in fire service administration requires the completion of the following courses:

FSCN 302	Fire and Emergency Services Administration (3)
FSCN 304	Personnel Management for Fire and Emergency Services (3)
FSCN 305	Fire Prevention Organization and Management (3)
FSCN 413	Community Risk Reduction for the Fire and Emergency Services (3)
FSCN 416	Emergency Services Training and Education (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Forensics

You may seek an academic minor in forensics.

Minor in Forensics

The minor in forensics complements the skills you gain in your major discipline by providing interdisciplinary study in selected areas of criminal justice, natural science, social science, investigation and security, information and computer systems, psychology, and sociology. It combines laboratory and field skills in the collection and analysis of physical evidence with further study in the various subfields of forensics.

Courses in the Minor (15 Credits)

A minor in forensics requires the completion of 15 credits of coursework in forensics, chosen from the following:

CCJS 101	Introduction to Investigative Forensics
CCJS 234	Criminal Procedure and Evidence
CCJS 301	Criminalistics I: The Comparative Disciplines
CCJS 302	Criminalistics II: The Scientific Disciplines
CCJS 342	Crime Scene Investigation
CCJS 390	Cybercrime and Security
CCJS 420	Medical and Legal Investigations of Death
CCJS 421	Principles of Digital Analysis
CCJS 440	Fingerprint Analysis
CCJS 441	Firearms and Toolmarks Analysis

It is recommended that you take CCJS 101 and CCJS 234 as the first courses for the minor (if you have not already applied the courses toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

General Studies

You may seek an academic major in general studies.

Major in General Studies

The bachelor's degree program in general studies allows you to take an active role in designing your educational experience through a flexible curriculum while maximizing your ability to transfer previously earned credit. This personalized learning path, coupled with a focus on your specific interests and areas of study, provides a solid, well-rounded foundation in preparation for a variety of careers.

What You'll Learn

Through your coursework, you will learn how to

- Improve oral and written communication skills
- Apply critical-thinking and problem-solving skills
- Analyze insights about personal and professional goals
- Apply skills and knowledge from different academic disciplines
- Synthesize concepts and theories in core content courses and focus areas

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

Overall requirements for a bachelor's degree in general studies differ slightly from those listed on pp. 32–35. You must meet the 30-credit requirement for coursework taken at UMGC, but those credits may be earned in any combination across major, general education, and elective courses.

BS IN GENERAL STUDIES

	Credits
General Education Courses	41
Major Core Courses	30
Minor and Elective Courses	49
Total	120

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Major Requirements

To complete a major in general studies, you must take a total of 30 credits in required coursework, as follows

REQUIREMENTS FOR THE MAJOR (30 CREDITS)

- 6 credits of coursework in one discipline area (e.g., HRMN)
- 6 credits from a second discipline area (e.g., PSYC)
- 15 credits from any discipline area(s)
- CAPL 495 General Studies Capstone (3)

Note: No more than 21 credits of coursework in a single discipline area may be applied to the major.

Gerontology and Aging Services

You may seek either an academic major or minor in gerontology and aging services.

Major in Gerontology and Aging Services

In the gerontology and aging services program at UMGC, you'll gain a foundation in the physiological, psychological, social, and health aspects of aging, coupled with an understanding of programs, services, and policies that affect how we age and live as older adults. You'll gain hands-on experiences in the aging services sector in preparation for a career that improves quality of life for this important and growing segment of the population.

What You'll Learn

Through your coursework, you will learn how to

- Access, interpret, and apply research findings related to biological, psychological, and social processes in the context of aging
- Analyze the impact of factors such as race, ethnicity, gender, and social class on the aging process
- Analyze the development of policies related to aging and their impact on services and organizations for older adults, both locally and nationally
- Apply knowledge to work with older adults in a chosen area of practice
- Practice within the legal and ethical standards of the aging services field

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN GERONTOLOGY AND AGING SERVICES

	Credits
Required Major Core Courses	33
Required Related Course	3
Remaining General Education, Minor, and Elective Courses	84
Total	120

Major Requirements

To complete a major in gerontology and aging services, you must take a total of 36 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

GERO 100	Contemporary Issues in Aging (3)
GERO 301	Service/Program Management (3)
GERO 302	Health and Aging (3)
GERO 306	Programs, Services, and Policies (3)
GERO 311	Gender and Aging (3)
GERO 320	Psychosocial Aspects of Aging (3)
GERO 338	Health Promotion in Older Adults (3)
GERO 342	Long-Term Care Administration (3)
GERO 390	The Business of Aging (3)
GERO 427	Culture and Aging (3)
GERO 486A	Workplace Learning in Gerontology and Aging Services (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements.

STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be

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unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold.**

BS IN GERONTOLOGY AND AGING SERVICES	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111S Program and Career Exploration in Health and Sciences (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 201 Concepts and Applications of Information Technology (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
GERO 100 Contemporary Issues in Aging (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
WRTG 112 Academic Writing II (3)	General education/communications
GERO 301 Service/Program Management (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
GERO 302 Health and Aging (3)	**Major**
Elective (3)	Elective
GERO 306 Programs, Services, and Policies (3)	**Major**
Elective (3)	Elective
GERO 311 Gender and Aging (3)	**Major**
Elective (3)	Elective
GERO 320 Psychosocial Aspects of Aging (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
GERO 338 Health Promotion in Older Adults (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GERO 342 Long-Term Care Administration (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GERO 390 The Business of Aging (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GERO 427 Culture and Aging (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
GERO 486A Workplace Learning in Gerontology and Aging Services (3)	**Major**
CAPL 398A Career Planning Management (1)	Elective

Minor in Gerontology and Aging Services

The gerontology and aging services minor complements the skills you gain in your major discipline by examining aging from a multidisciplinary perspective that integrates biological, sociological, psychological, and historical perspectives. It provides you with the opportunity to study complex processes and aspects of aging and the field of gerontology.

Courses in the Minor (15 Credits)

A minor in gerontology and aging services requires the completion of 15 credits of coursework in gerontology. BEHS 380 and all GERO courses apply. It is recommended that you take GERO 100 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Graphic Communication

You may seek an academic major in graphic communication.

Major in Graphic Communication

UMGC's graphic communication major is a portfolio-intensive program that can help you master the skills and technology needed to compete in today's rapidly changing visual arts and communication environment. With a graphic communication degree, along with an updated portfolio aimed toward your ideal clients, you can apply your creative streak toward a career in business, government, or industry as a graphic designer, manager, or communications specialist.

What You'll Learn

Through your coursework, you will learn how to

- Produce effective visual communications by applying principles of composition, layout, color theory, and context
- Plan, design, and create interactive solutions, such as user interfaces, motion graphics, mobile applications, and web designs
- Use professional, analytical, collaborative, and technical design skills to support team goals, roles, and responsibilities
- Define and direct creative strategy in a business environment by combining scope, messaging, and evaluation of success in an overarching design campaign

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BA IN GRAPHIC COMMUNICATION

	Credits
General Education Courses	41
Required Major Core Courses	33
Minor and Elective Courses	46
Total	120

Major Requirements

To complete a major in graphic communication, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

GRCO 100	Introduction to Graphic Communication (3)
ARTT 110	Introduction to Drawing (3)
ARTT 120	Design I: Arrangement and Color (3)
ARTT 210	Intermediate Drawing (3)
GRCO 230	Typography and Layout (3)
GRCO 350	Intermediate Graphic Communication: Portfolio Development (3)
GRCO 354	Digital Media (3)
GRCO 355	Digital Media II (3)
GRCO 450	Advanced Graphic Communication: Professional Branding (3)
GRCO 479	Motion Graphics (3)
GRCO 495	Graphic Communication Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BA IN GRAPHIC COMMUNICATION	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
GRCO 100 Introduction to Graphic Communication (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
ARTT 110 Introduction to Drawing (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 375 History of Graphic Art (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
ARTT 120 Design I: Arrangement and Color (3)	**Major**
Elective (3)	Elective
ARTT 210 Intermediate Drawing (3)	**Major**
Elective (3)	Elective
GRCO 230 Typography and Layout (3)	**Major**
Elective (3)	Elective
GRCO 350 Intermediate Graphic Communication: Portfolio Development (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
GRCO 354 Digital Media (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GRCO 355 Digital Media II (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GRCO 450 Advanced Graphic Communication: Professional Branding (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GRCO 479 Motion Graphics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
GRCO 495 Graphic Communication Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

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Health Services Management

You may seek either an academic major or minor in health services management.

Major in Health Services Management

A major in health services management can provide you with grounding in the core knowledge and competencies for effective management in the dynamic healthcare environment, teaching you to think comprehensively and strategically about healthcare trends so you can lead innovation. It is ideal for entry-level and midcareer professionals.

What You'll Learn

Through your coursework, you will learn how to

- Exercise sound business and financial management principles in healthcare settings through process mapping and strategic planning
- Apply technological advances and emerging trends in the U.S. healthcare system to achieve organizational goals and practices
- Identify, analyze, and evaluate quantitative and qualitative healthcare data and information for effective decision-making in various healthcare settings
- Evaluate legal and ethical issues associated with the planning and delivery of healthcare services
- Analyze policies related to healthcare management

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the Certified Health Data Analyst (CHDA) exam.

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in health services management, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Science in Healthcare Administration or Health Information Management and Technology at UMGC by 6 credits (two courses). Details are on p. 23.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN HEALTH SERVICES MANAGEMENT

	Credits
Required Major Core Courses	**33**
Required Related Courses	**6**
Remaining General Education, Minor, and Elective Courses	**81**
Total	**120**

Major Requirements

To complete a major in health services management, you must take a total of 39 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

HMGT 300	Introduction to the U.S. Healthcare Sector (3)
HMGT 307	Managerial Epidemiology and Decision-Making in Healthcare (3)
HMGT 310	Healthcare Policies (3)
HMGT 320	Management in Healthcare Organizations (3)
HMGT 322	Healthcare Financial Management (3)
HMGT 335	Healthcare Marketing (3)
HMGT 372	Legal and Ethical Issues in Healthcare (3)
HMGT 400	Research and Data Analysis in Healthcare (3)
HMGT 420	Healthcare Facilities Management (3)
HMGT 435	Healthcare Economics (3)
HMGT 495	Strategic Planning and Leadership in Healthcare (3)

REQUIRED RELATED COURSES (6 CREDITS)

The following required courses may be applied to general education requirements:

IFSM 305	Information Systems in Healthcare Organizations (3)
STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an

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advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN HEALTH SERVICES MANAGEMENT	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111S Program and Career Exploration in Health and Sciences (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
IFSM 305 Information Systems in Healthcare Organizations (3)	**Related** and general education/ research and computing literacy
WRTG 112 Academic Writing II (3)	General education/communications
HMGT 300 Introduction to the U.S. Healthcare Sector (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
HMGT 307 Managerial Epidemiology and Decision-Making in Healthcare (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
HMGT 310 Healthcare Policies (3)	**Major**
HRMN 300 Human Resource Management (3)	Recommended elective
HMGT 320 Management in Healthcare Organizations (3)	**Major**
Elective (3)	Elective
HMGT 322 Healthcare Financial Management (3)	**Major**
GERO 427 Culture and Aging (3)	Recommended elective
HMGT 335 Healthcare Marketing (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
Elective (3)	Elective
HMGT 372 Legal and Ethical Issues in Healthcare (3)	**Major**
EMGT 302 Concepts in Emergency Management (3)	Recommended elective
Elective (3)	Elective
HMGT 400 Research and Data Analysis in Healthcare (3)	**Major**
COMM 300 Communication Theory (3)	Recommended elective
Elective (3)	Elective
HMGT 420 Healthcare Facilities Management (3)	**Major**
CSIA 300 Cybersecurity for Leaders and Managers (3)	Recommended elective
Elective (3)	Elective
HMGT 435 Healthcare Economics (3)	**Major**
Elective (3)	Elective
BMGT 317 Methods of Decision-Making and Problem-Solving (3)	Recommended elective
Elective (3)	Elective
Elective (3)	Elective
BEHS 380 End of Life: Issues and Perspectives (3)	Recommended elective
HMGT 495 Strategic Planning and Leadership in Healthcare (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Health Services Management

The minor in health services management complements the skills you gain in your major discipline by enhancing the knowledge, skills, and competencies required by the changing health services environment. The minor covers a wide range of topics designed to help you deal with the challenges of management and leadership in this dynamic field.

Courses in the Minor (15 Credits)

A minor in health services management requires the completion of 15 credits of coursework in health services management, chosen from any HMGT courses and GERO 342. It is recommended that you take HMGT 300 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the

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minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Phi Delta, the national academic honor society of the Association of University Programs in Health Administration, is available on p. 332.

History

You may seek either an academic major or minor in history.

Major in History

Like other liberal arts majors, a major in history offers a solid base of critical thinking on which to build a career or further graduate study.

One of the very first schools to offer a degree program in history online, UMGC brings you nearly two decades of experience in teaching history in an online environment. Plus, if you're based in the Washington, D.C., area, you'll have myriad opportunities to find internships and part-time and full-time jobs in the field via public institutions and federal positions. Our alumni have gone on to work at such agencies as the National Archives and the National Park Service.

What You'll Learn

Through your coursework, you will learn how to

- Research, interpret, and present historical knowledge
- Write and speak clearly and appropriately about historical information for diverse audiences
- Engage in history as a moral and ethical practice, recognizing a wide range of backgrounds and perspectives
- Apply historical precedents to contemporary life and develop self-reflection
- Achieve a deep understanding of the different peoples, events, and cultures that have shaped human civilization

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in history, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Arts in Teaching at UMGC by 12 credits (three courses, including the noncredit introductory course UCSP 615). Details are on p. 24.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BA IN HISTORY

	Credits
General Education Courses	**41**
Required Major Core Courses	**33**
Minor and Elective Courses	**46**
Total	**120**

Major Requirements

To complete a major in history you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

HIST 115	World History I (3) *or HIST 141 Western Civilization I*
HIST 116	World History II (3) *or HIST 142 Western Civilization II*
HIST 156	History of the United States to 1865 (3)
HIST 157	History of the United States Since 1865 (3)
HIST 289	Historical Methods (3)
HIST 309	Historical Writing (3)
HIST 495	History Capstone (3)

Any upper-level HIST courses (12)—Focused study in U.S. or world history recommended, as follows:

U.S. History

HIST 316L	The American West
HIST 365	Modern America
HIST 377	U.S. Women's History: 1870 to 2000
HIST 461	African American History: 1865 to the Present

World History

HIST 326	The Roman Republic
HIST 337	Europe and the World
HIST 392	History of the Contemporary Middle East
HIST 480	History of China to 1912

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Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BA IN HISTORY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3) *and* NUTR 101 Nutrition Laboratory (1)	General education/biological and physical sciences
HIST 115 World History I (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
HIST 116 World History II (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
GEOL 100 Physical Geology (3)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
HIST 125 Technological Transformations (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
HIST 156 History of the United States to 1865 (3)	**Major**
Elective (3)	Elective
HIST 157 History of the United States Since 1865 (3)	**Major**
Elective (3)	Elective
HIST 289 Historical Methods (3)	**Major**
Elective (3)	Elective
HIST 309 Historical Writing (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
HIST 316L The American West *or* **HIST 326** The Roman Republic (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HIST 365 Modern America *or* **HIST 337** Europe and the World (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HIST 377 U.S. Women's History: 1870 to 2000 *or* **HIST 392** History of the Contemporary Middle East (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HIST 461 African American History: 1865 to the Present *or* **HIST 480** History of China to 1912 (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
HIST 495 History Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in History

The history minor complements the skills you gain in your major discipline by offering a historical perspective and by helping you develop critical-thinking skills and an appreciation of the major contributions of various events and individuals to human civilization.

Courses in the Minor (15 Credits)

A minor in history requires the completion of 15 credits of coursework in history, as follows:

A 100-level HIST course (3)
(Courses counted toward this requirement include HIST 115, HIST 116, HIST 141, HIST 142, HIST 156, and HIST 157.)

HIST 289 Historical Methods (3)

Any upper-level HIST courses (9)

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Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Homeland Security

You may seek either an academic major or minor in homeland security.

Major in Homeland Security

The UMGC homeland security program is uniquely designed to provide you with an understanding of the homeland security sector. The curriculum covers international and domestic terrorism, emerging technologies, cyber threats, infrastructure protection, emergency preparedness and response, private-sector partnerships, global pandemics, natural disasters, strategic planning, policies, intelligence operations, and international engagement. In this program, you'll develop the necessary critical-thinking, ethical decision-making, risk analysis, and communication skills to meet the professional demands of leadership and management in the homeland security profession.

What You'll Learn

Through your coursework, you will learn how to

- Distinguish policies and procedures in the homeland security sector that demonstrate leadership and management
- Apply professional and ethical decision-making skills to increase knowledge of strategic and operational homeland security goals and interface with internal and external stakeholders
- Assess the critical technologies essential for the protection and recovery of critical infrastructure and for ensuring the nation's cybersecurity against all hostile threats
- Assess terrorist threats, cyber and insider threats, critical infrastructure vulnerabilities, and emerging asymmetric threats to U.S. national security
- Evaluate the roles and relationships of homeland security partners and stakeholders supporting homeland security operations

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in homeland security, an accelerated pathway between UMGC's undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Management or in Information Technology with a specialization in homeland security at UMGC by 6 credits (two courses). Details are on p. 23.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN HOMELAND SECURITY

	Credits
Required Major Core Courses	**33**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**84**
Total	**120**

Major Requirements

To complete a major in homeland security you must take a total of 36 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

HMLS 302	Introduction to Homeland Security (3)
HMLS 310	Homeland Security Response to Critical Incidents (3)
HMLS 406	Legal and Political Issues in Homeland Security (3)
HMLS 408	Infrastructure in Homeland Security (3)
HMLS 414	Homeland Security and Intelligence (3)
HMLS 416	Homeland Security and International Relations (3)
PSAD 410	Public Safety Research and Technology (3)
PSAD 414	Public Safety Administration Ethics (3)
PSAD 416	Public Safety Leadership (3)
HMLS 304	Strategic Planning in Homeland Security (3)
HMLS 495	Homeland Security Capstone (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements:

IFSM 300	Information Systems in Organizations (3)

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Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN HOMELAND SECURITY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111P Program and Career Exploration in Public Safety (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
HMLS 302 Introduction to Homeland Security (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
IFSM 300 Information Systems in Organizations (3)	**Related** and general education/ research and computing literacy
HMLS 406 Legal and Political Issues in Homeland Security (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
HMLS 310 Homeland Security Response to Critical Incidents (3)	**Major**
Elective (3)	Elective
HMLS 408 Infrastructure in Homeland Security (3)	**Major**
Elective (3)	Elective
HMLS 414 Homeland Security and Intelligence (3)	**Major**
Elective (3)	Elective
HMLS 416 Homeland Security and International Relations (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
PSAD 410 Public Safety Research and Technology (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PSAD 414 Public Safety Administration Ethics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PSAD 416 Public Safety Leadership (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HMLS 304 Strategic Planning in Homeland Security (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
HMLS 495 Homeland Security Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Homeland Security

The homeland security minor complements the skills you gain in your major discipline by providing knowledge of infrastructure protection, cyber threats, international and domestic terrorism, emergency preparedness and response, and strategic planning and policies.

Courses in the Minor (15 Credits)

A minor in homeland security requires the completion of the following courses:

HMLS 302	Introduction to Homeland Security (3)
HMLS 406	Legal and Political Issues of Homeland Security (3)
HMLS 408	Infrastructure in Homeland Security (3)

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HMLS 414 Homeland Security and Intelligence (3)

HMLS 416 Homeland Security and International Relations (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Humanities

You may seek an academic major in humanities.

Major in Humanities

Like other liberal arts majors, a major in humanities offers a solid base of critical thinking on which to build a career or further study. This major will broaden your understanding of yourself and your interaction with the world and provide a perspective on cultural and intellectual heritage while offering tools to use that knowledge in the real world.

You'll explore how individuals and groups understand their existence, their place within their cultures, and their responsibility to others and the physical world.

What You'll Learn

Through your coursework, you will learn how to

- Integrate theories, methods, and concepts from multiple humanities disciplines, such as philosophy, history, art, literature, music, and religious studies
- Evaluate the adequacy and justifiability of propositions, theories, assumptions, and arguments
- Communicate the results of critical reflection into personal positions on social, cultural, and ethical issues
- Apply sound ethical reasoning in contemporary contexts
- Develop cultural understanding by exploring the cultural heritage of sites, events, people, and communities

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BA IN HUMANITIES

	Credits
General Education Courses	**41**
Required Major Core Course	**33**
Minor and Elective Courses	**46**
Total	**120**

Major Requirements

To complete a major in humanities, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

HUMN 100 Introduction to Humanities (3)

PHIL 100 Introduction to Philosophy (3)

PHIL 140 Introduction to Moral Philosophy and Ethical Reasoning (3)

HIST 115 World History I (3)
or HIST 116 World History II
or HIST 141 Western Civilization I
or HIST 142 Western Civilization II

MUSC 210 Music as Cultural Expression (3)
or any MUSC course

ARTH 372 History of Western Art 1 (3)
or any upper-level ARTH course

PHIL 304 Contemporary Social Justice Issues (3)
or any upper-level PHIL course

HUMN 351 Myth in the World (3)
or any upper-level HUMN course

PHIL 349 Religions of the West (3)
or any upper-level PHIL course

ENGL 406 Shakespeare Studies (3)
or any upper-level ENGL course

HUMN 495 Humanities Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BA IN HUMANITIES	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
HUMN 100 Introduction to Humanities (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
PHIL 100 Introduction to Philosophy (3)	**Major**
ENGL 240 Introduction to Fiction, Poetry, and Drama (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
PHIL 140 Introduction to Moral Philosophy and Ethical Reasoning (3)	**Major**
Elective (3)	Elective
HIST 115 World History I (3)	**Major**
Elective (3)	Elective
MUSC 210 Music as Cultural Expression (3)	**Major**
Elective (3)	Elective
ARTH 372 History of Western Art I (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
PHIL 304 Contemporary Social Justice Issues (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HUMN 351 Myth in the World (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PHIL 349 Religions of the West (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ENGL 406 Shakespeare Studies (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
HUMN 495 Humanities Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

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Human Resource Management

You may seek either an academic major or minor in human resource management.

Major in Human Resource Management

With a degree in human resource management from UMGC, you'll find employment opportunities in nearly every industry. Our bachelor's degree program is ideal for those who have some experience in HR, as well as those who want to transition into the HR profession.

You'll gain a comprehensive understanding of human resource functions—such as resource planning; recruitment, selection, placement, and orientation of employees; training and career development; labor relations; performance appraisal and rewards programs; and development of personnel policies and procedures—in private- and public-sector settings. Additionally, you'll explore the ways that human behavior, laws, labor relations, and diversity issues can intersect and affect a company's culture and ultimately its progress.

What You'll Learn

Through your coursework, you will learn how to

- Apply business knowledge, best practices, and ethical leadership skills to make effective business decisions
- Apply knowledge of human behavior, labor relations, and current laws and regulations to evaluate whether a working environment is safe, fair, and compliant with regulations
- Develop a plan to create and implement a total rewards program that aligns employee and organizational goals and objectives
- Create, implement, and assess training, development, and rewards programs that foster employee and organizational learning and development
- Recognize the diversity of cultures and worldviews that inform human behavior and respond constructively to differences in workplaces, communities, and organizations
- Use technology to research, collect, analyze, and interpret data and effectively communicate information in a professional manner
- Evaluate current issues in talent acquisition, selection, strategic planning, and performance-appraisal systems

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order:

- Global Professional in Human Resources (GPHR)
- Professional in Human Resources (PHR)
- SHRM-Certified Professional (SHRM-CP)

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in human resource management, an accelerated pathway between UMGC undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Management with a specialization in human resource management at UMGC by 6 credits (two courses). Details are on p. 23.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN HUMAN RESOURCE MANAGEMENT

	Credits
Required Major Core Courses	**36**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**81**
Total	**120**

Major Requirements

To complete a major in human resource management, you must take a total of 39 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

HRMN 300	Human Resource Management (3)
HRMN 302	Organizational Communication (3)
HRMN 362	Labor Relations (3)
HRMN 367	Organizational Culture and Change (3)
HRMN 395	The Total Rewards Approach to Compensation Management (3)

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HRMN 400 Talent Acquisition and Management (3)

HRMN 406 Employee Training and Development (3)
or HRMN 410 HR Information Systems and Metrics Analysis

BMGT 364 Management and Organization Theory (3)

FINC 331 Finance for the Nonfinancial Manager (3)

HRMN 408 Employment Law for Business (3)

HRMN 467 Global Human Resource Management (3)

HRMN 495 Contemporary Issues in Human Resource Management Practice (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements:

IFSM 300 Information Systems in Organizations (3)

ALTERNATE CREDIT

If you are a Society for Human Resource Management (SHRM)-certified professional (SHRM-CP or SHRM-SCP) and your certification is current and valid, you may receive up to 9 credits for HRMN 300 Human Resource Management (3), HRMN 302 Organizational Communication (3), and HRMN 367 Organizational Culture and Change (3). Advisors or success coaches can provide more information.

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN HUMAN RESOURCE MANAGEMENT	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
HRMN 300 Human Resource Management (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
IFSM 300 Information Systems in Organizations (3)	**Related** and general education/research and computing literacy
HRMN 302 Organizational Communication (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
HRMN 362 Labor Relations (3)	**Major**
Elective (3)	Elective
HRMN 367 Organizational Culture and Change (3)	**Major**
Elective (3)	Elective
HRMN 395 The Total Rewards Approach to Compensation Management (3)	**Major**
Elective (3)	Elective
HRMN 400 Talent Acquisition and Management (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
Elective (3)	Elective

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Human Resource Management, continued

HRMN 406 Employee Training and Development *or* **HRMN 410** HR Information Systems and Metrics Analysis (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 364 Management and Organization Theory (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
FINC 331 Finance for the Nonfinancial Manager (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HRMN 408 Employment Law for Business (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
HRMN 467 Global Human Resource Management (3)	**Major**
Elective (3)	Elective
HRMN 495 Contemporary Issues in Human Resource Management Practice (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Human Resource Management

The human resource management minor complements the skills you gain in your major discipline by examining the human resource functions in a private- or public-sector organizational setting. These functions include human resource planning; recruitment, selection, and placement; employee appraisal and compensation; employee training and career development; management of labor relations; and development of a human resource department implementation plan.

Courses in the Minor (15 Credits)

A minor in human resource management requires the completion of 15 credits of coursework in human resource management. Any HRMN courses apply. It is recommended that you take HRMN 300 and 400 for the minor (if you have not already applied the courses elsewhere in the degree).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Laboratory Management

The bachelor's degree program in laboratory management has program-specific admission requirements (listed on p. 9) that you must meet before enrolling in any program courses.

If you have completed virtually all the required lower-level coursework for the laboratory management major—within an Associate of Applied Science degree program at a community college with which UMGC has an articulation agreement or within another appropriate transfer program—you may seek an academic major in laboratory management. Consult an advisor or a success coach before electing this major.

Major in Laboratory Management

UMGC's program in laboratory management is unique in Maryland: no other university in the state offers a bachelor's degree program in laboratory management. Yet the need within the biotechnology industry for employees with both scientific and management skills is great.

The laboratory management major will help you prepare to coordinate the activities that contribute to a well-ordered laboratory by combining an in-depth study of scientific concepts and procedures with hands-on laboratory management practice.

What You'll Learn

Through your coursework, you will learn how to

- Create a healthy, safe, and productive workplace by appropriately hiring, training, supporting, and evaluating laboratory personnel
- Plan, organize, and direct the daily work activities of a laboratory setting by working independently and as a member of a team
- Communicate in a clear, well-organized manner that effectively persuades, informs, and clarifies ideas, information, and laboratory techniques/procedures to staff, the scientific community, and the public
- Practice ethical standards of integrity, honesty, and fairness as a laboratory manager

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- Monitor and maintain laboratory-related documentation, equipment, and supplies necessary for conducting efficient, safe, cost-effective, and hygienic laboratory operations
- Manage scientific and laboratory practices and procedures by complying with and adhering to national, state, and local standards, policies, protocols, and regulations

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN LABORATORY MANAGEMENT

	Credits
Required Major Core Courses	**36**
Required Related Courses	**14**
Remaining General Education, Minor, and Elective Courses	**70**
Total	**120**

Major Requirements

To complete a major in laboratory management, you must take a total of 50 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

Lower-level coursework in biology, biochemistry, biotechnology, chemistry, microbiology, or molecular biology, including 12 credits in lab science (15)

BIOL 325	Inquiries in Biological Science (3)
BMGT 364	Management and Organization Theory (3)
FINC 331	Finance for the Nonfinancial Manager (3)
NSCI 301	Laboratory Management and Safety (3)
BIOL 486A/B	Workplace Learning in Biology (6) *or any related internship through Workplace Learning*
BIOL 495	Life Sciences Capstone (3)

REQUIRED RELATED COURSEWORK (14 CREDITS)

The following recommended courses (8 credits) may be applied to general education requirements:

BIOL 105	Principles of Biology I (4)
BIOL 230	General Microbiology (4)

Remaining required science coursework (6 credits) may be applied to elective requirements. Courses may be chosen from the following:

CHEM 103	General Chemistry I
CHEM 113	General Chemistry II
PHYS 121	Fundamentals of Physics I
PHYS 122	Fundamentals of Physics II

Any other approved coursework in biotechnology, biochemistry, cell biology, chemistry, genetics, immunology, microbiology, molecular biology, physics, and virology

Course Sequencing

Contact an advisor or a success coach if you have any questions about your academic advisement report.

Law for Business

You may seek an academic minor in law for business.

Minor in Law for Business

The law for business minor complements the knowledge and skills you gain in your major discipline by providing opportunities to achieve substantive knowledge and practical skill competencies in selected areas of law relevant to business.

Courses in the Minor (15 Credits)

A minor in law for business requires the completion of 15 credits of coursework chosen from the following:

BMGT 380	Business Law I
BMGT 381	Business Law II
COMM 400	Mass Media Law
HRMN 408	Employment Law for Business
LGST 200	Techniques of Legal Research
LGST 201	Legal Writing
LGST 312	Torts
LGST 325	Litigation
LGST 340	Contract Law

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Legal Studies

You may seek an academic major in legal studies.

Major in Legal Studies

The legal studies curriculum at UMGC is designed to provide you with a background in contemporary American civil and criminal law, legal systems and institutions, and legal theory and practice. In this major, you'll be able to develop the knowledge and skills necessary in the legal workplace, including fact identification and analysis, legal research and writing, and field-related digital competence.

What You'll Learn

Through your coursework, you will learn how to

- Determine how the application of the American civil and criminal justice systems can further social justice
- Research appropriate standard and internet-based legal resources to identify relevant, current, and presiding legal authority
- Develop legal documents that incorporate critical thinking and legal reasoning to inform, evaluate, and advocate with respect to specific legal issues
- Analyze the relevant legal concepts, authorities, regulations, and ethical codes required to support the resolution of legal disputes

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN LEGAL STUDIES

	Credits
General Education Courses	**41**
Required Major Core Courses	**33**
Minor and Elective Courses	**46**
Total	**120**

Major Requirements

To complete a major in legal studies, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

LGST 101	Introduction to Law (3)
LGST 200	Techniques of Legal Research (3)
LGST 201	Legal Writing (3)
LGST 204	Legal Ethics (3)
LGST 301	Advanced Legal Writing (3)
LGST 312	Torts (3)
LGST 315	Domestic Relations (3)
LGST 320	Criminal Law and Procedures (3)
LGST 325	Litigation (3)
LGST 340	Contract Law (3)
LGST 495	Legal Studies Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN LEGAL STUDIES

Recommended and Required Courses	Requirement(s) Fulfilled
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111P Program and Career Exploration in Public Safety (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMSC 100 Social Networking and Cybersecurity Best Practices (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
LGST 101 Introduction to Law (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications

Continued

Legal Studies, continued

LGST 200 Techniques of Legal Research (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
LGST 201 Legal Writing (3)	**Major**
Elective (3)	Elective
LGST 204 Legal Ethics (3)	**Major**
Elective (3)	Elective
LGST 301 Advanced Legal Writing (3)	**Major**
Elective (3)	Elective
LGST 312 Torts (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
Elective (3)	Elective
LGST 315 Domestic Relations (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
LGST 320 Criminal Law and Procedures (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
LGST 325 Litigation (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
LGST 340 Contract Law (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
LGST 495 Legal Studies Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Management Information Systems

You may seek either an academic major or minor in management information systems.

Major in Management Information Systems

Management information systems are a critical part of the strategic decision-making process in virtually all of today's public and private organizations. Managers who can lead the teams that integrate information systems with general business processes are in high demand.

Developed by chief information officers and other high-level IT professionals, the bachelor's degree program in management information systems at UMGC is well suited for those looking to move into a management position in information systems and bridge the gap between an organization's functional users and technical developers.

What You'll Learn

Through your coursework, you will learn how to

- Communicate effectively, orally and in writing, meeting expectations for content, purpose, organization, audience, and format
- Utilize diverse technologies to achieve project-level or organizational information systems objectives, within diverse areas, including cybersecurity, project management, software development, data analytics, and business process analysis
- Apply appropriate management, analysis, and measurement methods and tools for information systems and technology to meet organizational strategic and operational needs
- Utilize business intelligence and data analytics tools and techniques to generate actionable insights that support achievement of strategic or operational objectives
- Analyze recent and projected developments, implications, and applications of existing and emerging technologies, taking into account ethical issues and global and multinational corporate perspectives
- Incorporate cybersecurity and risk management best practices in the planning, development, and use of information systems

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- Develop clear and concise technical and functional requirements, including the use of data and process models, for information systems development and implementation
- Create information technology strategic and implementation plans that support organizational strategies and activities and improve processes and outcomes
- Develop organizational policies, standards, and communications to inform end users about relevant IT operations issues, including ethical issues and accountabilities
- Collaborate with team members to plan, evaluate, and document technology solutions

INDUSTRY CERTIFICATION

This program is designed to help prepare you for the following certification exams, listed in alphabetical order.

- Agile Certified Practitioner (PMI-ACP)®*
- Certified Associate in Project Management (CAPM)®*
- Project Management Professional (PMP)®*

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in management information systems, an accelerated pathway between UMGC's undergraduate and graduate programs in that field allows you to reduce your total coursework for the Master of Science in Information Technology at UMGC by 6 credits (two courses). Details are on p. 23.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN MANAGEMENT INFORMATION SYSTEMS

	Credits
Required Major Core Courses	**33**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**84**
Total	**120**

Major Requirements

To complete a major in management information systems, you must take a total of 36 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

IFSM 300	Information Systems in Organizations (3)
IFSM 301	Foundations of Management Information Systems (3)
IFSM 304	Ethics in Information Technology (3)
CSIA 300	Cybersecurity for Leaders and Managers (3)
IFSM 310	Software and Hardware Infrastructure Concepts (3)
IFSM 311	Enterprise Architecture (3)
IFSM 330	Business Intelligence and Data Analytics (3)
IFSM 370	Telecommunications in Information Systems (3)
IFSM 438	Information Systems Project Management (3)
IFSM 461	Systems Analysis and Design (3)
IFSM 495	Management Information Systems Capstone (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements:

CMSC 105	Introduction to Problem-Solving and Algorithm Design (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

* PMI-ACP®, CAPM®, and PMP® are registered marks of the Project Management Institute.

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Major core and related requirements are listed in **bold**.

BS IN MANAGEMENT INFORMATION SYSTEMS	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
IFSM 300 Information Systems in Organizations (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	General education/mathematics
CMSC 105 Introduction to Problem-Solving and Algorithm Design (3)	**Related** and general education/ research and computing literacy
IFSM 301 Foundations of Management Information Systems (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
IFSM 304 Ethics in Information Technology (3)	**Major**
Elective (3)	Elective
CSIA 300 Cybersecurity for Leaders and Managers (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
IFSM 310 Software and Hardware Infrastructure Concepts (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
IFSM 330 Business Intelligence and Data Analytics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
IFSM 311 Enterprise Architecture (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
IFSM 370 Telecommunications in Information Systems (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
IFSM 438 Information Systems Project Management (3)	**Major**
Elective (3)	Elective
IFSM 461 Systems Analysis and Design (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
IFSM 495 Management Information Systems Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the national academic honor society for the computing and information disciplines, is available on p. 332.

Minor in Management Information Systems

The management information systems minor complements the skills you gain in your major discipline by helping you develop your abilities to conceptualize and manage the design and implementation of high-quality information systems.

Courses in the Minor (15 Credits)

A minor in management information systems requires the completion of 15 credits of coursework in information systems management. All IFSM courses apply.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Management Studies

You may seek an academic major in management studies.

Major in Management Studies

Today, many business, government, public service, and technical environments require knowledge of management principles from multiple disciplines. UMGC's program in management studies can help you gain that expertise through a course of study focused on decision-making, problem-solving, and leadership.

What You'll Learn

Through your coursework, you will learn how to

- Apply leadership skills to promote communication, ethical behavior, and quality performance
- Implement employment practices, encourage team building, and mentor staff members
- Communicate effectively with culturally diverse audiences using a variety of formats and technologies
- Assess and develop performance measures, feedback, and coaching that facilitate employee development
- Employ self-reflection and mindfulness of individual and cultural differences when interacting with others
- Research, plan, and develop processes and procedures that ensure organizational performance

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN MANAGEMENT STUDIES

	Credits
Required Major Core Courses	**33**
Required Related Courses	**9**
Remaining General Education, Minor, and Elective Courses	**78**
Total	**120**

Major Requirements

To complete a major in management studies, you must take a total of 42 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

BMGT 160	Principles of Management (3)
ACCT 301	Accounting for Nonaccounting Managers (3) *or ACCT 220 Principles of Accounting I*
BMGT 364	Management and Organization Theory (3)
BMGT 365	Organizational Leadership (3) *or any upper-level ACCT, BMGT, FINC, HRMN, or MRKT course*
BMGT 464	Organizational Behavior (3) *or BMGT 465 Organizational Change Management*
BMGT 317	Methods of Decision-Making and Problem-Solving (3)
BMGT 305	Knowledge Management (3)
BMGT 304	Managing E-Commerce in Organizations (3) *or any upper-level ACCT, BMGT, FINC, HRMN, or MRKT course*
BMGT 484	Organizational Collaboration (3)
BMGT 496	Business Ethics (3)
BMGT 485	Applied Management (3)

REQUIRED RELATED COURSES (9 CREDITS)

The following required courses may be applied to general education requirements.

ECON 201	Principles of Macroeconomics (3) *or ECON 203 Principles of Microeconomics*
IFSM 300	Information Systems in Organizations (3)
STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BS IN MANAGEMENT STUDIES	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
BMGT 160 Principles of Management (3)	**Major**
COMM 390 Writing for Managers (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
IFSM 300 Information Systems in Organizations (3)	**Related** and general education/ research and computing literacy
ACCT 301 Accounting for Nonaccounting Managers (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 201 Principles of Macroeconomics (3)	**Related** and general education/ behavioral and social sciences
BMGT 364 Management and Organization Theory (3)	**Major**
Elective (3)	Elective
BMGT 365 Organizational Leadership (3)	**Major**
Elective (3)	Elective
BMGT 304 Managing E-Commerce in Organizations (3)	**Major**
Elective (3)	Elective
BMGT 305 Knowledge Management (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
Elective (3)	Elective
BMGT 484 Organizational Collaboration (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 317 Methods of Decision-Making and Problem-Solving (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 464 Organizational Behavior (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 496 Business Ethics (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
BMGT 485 Applied Management (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

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Marketing

You may seek either an academic major or minor in marketing.

Major in Marketing

The major in marketing offers an introduction to the fundamental concepts and strategies that constitute successful marketing management. It is designed to provide a thorough understanding of how to identify, retain, and grow profitable customer segments; create effective promotional programs; and develop integrated marketing communication tools, both in domestic and global markets. The program incorporates digital marketing strategies to meet the requirements of the modern marketplace.

What You'll Learn

Through your coursework, you will learn how to

- Apply strategic marketing skills, such as scenario planning, market intelligence, customer profiles, and digital planning, to successfully market products or services
- Develop marketing insights with data derived from internal and external sources
- Design effective integrated marketing communication plans using traditional, digital, and social media channels
- Develop multichannel campaigns for nonprofit organizations through fundraising, recruiting volunteers, and promoting alliances using traditional and digital marketing channels
- Create consumer-driven marketing strategies for a consistent consumer experience across multiple marketing channels
- Develop successful customer relationships and enhance customer loyalty using appropriate marketing technologies
- Create marketing strategies to meet the challenges of a competitive global market

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN MARKETING

	Credits
General Education Courses	41
Required Major Core Courses	36
Minor and Elective Courses	43
Total	120

Major Requirements

To complete a major in marketing, you must take a total of 36 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (36 CREDITS)

BMGT 110	Introduction to Business and Management (3)
BMGT 330	Entrepreneurship and New Venture Planning (3)
MRKT 310	Marketing Principles (3)
MRKT 354	Integrated Marketing Communications (3)
MRKT 394	Managing Customer Relationships (3)
MRKT 410	Consumer Behavior (3)
MRKT 412	Marketing Research (3)
MRKT 458	Social Media Marketing (3)
MRKT 311	Digital Marketing Principles (3) *or any upper-level MRKT course*
MRKT 314	Nonprofit Marketing (3) *or any upper-level MRKT course*
MRKT 454	Global Marketing (3) *or any upper-level MRKT course*
MRKT 495	Strategic Marketing Management (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BS IN MARKETING	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111B Program and Career Exploration in Business (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
MRKT 310 Marketing Principles (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
IFSM 300 Information Systems in Organizations (3)	General education/research and computing literacy
BMGT 110 Introduction to Business and Management (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
ECON 201 Principles of Macroeconomics (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 203 Principles of Microeconomics (3)	General education/behavioral and social sciences
MRKT 354 Integrated Marketing Communications (3)	**Major**
Elective (3)	Elective
BMGT 330 Entrepreneurship and New Venture Planning (3)	**Major**
Elective (3)	Elective
MRKT 394 Managing Customer Relationships (3)	**Major**
Elective (3)	Elective
MRKT 410 Consumer Behavior (3)	**Major**
WRTG 394 Advanced Business Writing (3)	General education/communications
Elective (3)	Elective
MRKT 458 Social Media Marketing (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
MRKT 412 Marketing Research (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
MRKT 311 Digital Marketing *or* any upper-level MRKT course (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
MRKT 314 Nonprofit Marketing *or* any upper-level MRKT course (3)	**Major**
Elective (3)	Elective
MRKT 454 Global Marketing *or* any upper-level MRKT course (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
MRKT 495 Strategic Marketing Management (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Marketing

The marketing minor complements the skills you gain in your major discipline by enhancing the knowledge and skills related to marketing situations and processes and the emerging global marketplace.

Courses in the Minor (15 Credits)

A minor in marketing requires the completion of 15 credits of coursework in marketing. All MRKT courses apply. It is recommended that you take MRKT 310 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Mathematical Sciences

You may seek an academic minor in mathematical sciences.

Minor in Mathematical Sciences

The mathematical sciences minor complements the skills you gain in your major discipline by helping you develop skills in solving mathematical problems and addressing complex and technical materials and by providing a mathematical background to support study in other areas, such as business and management, computer and information technology, and the biological and social sciences.

Courses in the Minor (18 Credits)

A minor in mathematical sciences requires the completion of 18 credits of coursework, including 15 credits in MATH courses numbered 140 or higher and at least 3 credits in MATH or STAT courses at the 300 or 400 level.

No more than two courses may satisfy requirements for both the academic major and the minor. Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Natural Science

You may seek an academic minor in natural science.

Minor in Natural Science

The natural science minor complements the skills you gain in your major by providing an underlying scientific basis on which to build a career in natural science, life science, physical science, and the allied health fields, as well as bioinformatics, environmental management, science journalism, and science education.

Courses in the Minor (17 Credits)

A minor in natural science requires the completion of 17 credits of coursework in natural science, chosen from any courses in astronomy, biology, chemistry, geology, natural science, and physics.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Nursing for Registered Nurses

The nursing for registered nurses program has specific admission requirements (listed on p. 9) that you must meet before enrolling in any required major courses.

If you have an associate degree in nursing or have completed a registered nursing education program that is recognized by the appropriate state board of nursing and you reside in and have an active, unencumbered nursing license in an approved state,* you may seek an academic major in nursing for registered nurses. This program is not intended to prepare you for initial professional licensure.**

Major in Nursing for Registered Nurses

UMGC's bachelor's degree program in nursing for registered nurses provides a pathway for career advancement in clinical management and leadership or public health nursing, as well as preparation for graduate study, by building on your established clinical and practical experiences. Accredited by the Commission on Collegiate Nursing Education (CCNE), this program will help equip you to assume the role of the professional nurse in diverse and challenging settings, take on responsibility for client care, and provide exceptional evidence-based nursing care to patients.

What You'll Learn

Through your coursework, you will learn how to

- Demonstrate clinical reasoning in selecting and applying healthcare approaches for individuals, families, and communities
- Evaluate and apply research to promote evidence-based nursing practice
- Apply management and leadership concepts in various settings to promote health
- Evaluate and communicate the effects of health policy and healthcare systems on the nursing profession and the delivery of care
- Demonstrate an understanding of the value of continuous personal and professional development as healthcare evolves

* See *umgc.edu/nursing* for the most up-to-date list of approved states.
** See *umgc.edu/professional-licensure* for more information about professional licensure.

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Accreditation

The baccalaureate degree in nursing for registered nurses at UMGC is accredited by the Commission on Collegiate Nursing Education, 655 K Street NW, Suite 750, Washington, DC 20001-2399 (202-887-6791).

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BSN IN NURSING FOR REGISTERED NURSES

	Credits
Required Major Core Courses	**30**
Required Related Courses	**21**
Remaining General Education, Minor, and Elective Courses	**69**
Total	**120**

Major Requirements

To complete a major in nursing for registered nurses, you must take a total of 51 credits of required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

NURS 300 Science and Research in Nursing (3)
NURS 305 Informatics and Technology in Nursing Practice (3)
NURS 362 Health Assessment for Registered Nurses (4)
NURS 350 Global Health Issues (3)
HMGT 372 Legal and Ethical Issues in Healthcare (3)
NURS 410 Applying Evidence-Based Practice in Nursing (3)
NURS 420 Advocacy and Politics in Nursing (3)
NURS 462 Nursing Care of the Family and Community (4)
NURS 485 Leadership and Management in Professional Nursing Practice (4)

REQUIRED RELATED COURSES (21 CREDITS)

The following required courses (16 credits) may be applied to general education requirements and may be taken at UMGC (if available) or accepted in transfer.

STAT 200 Introduction to Statistics (3)
PSYC 100 Introduction to Psychology (3)
SOCY 100 Introduction to Sociology (3)
BIOL 230 General Microbiology (4)
Anatomy and physiology I with lab (4)

The following required course (4 credits) may be applied to elective requirements and may be taken at UMGC (if available) or accepted in transfer.

Anatomy and physiology II with lab (4)

Course Sequencing

Contact an advisor or a success coach if you have any questions about your academic advisement report.

Personal Financial Planning

You may seek an academic minor in personal financial planning.

Minor in Personal Financial Planning

The personal financial planning minor complements the skills you gain in your major discipline by providing a study of financial management and planning designed to help prepare you for the Certified Financial Planner (CFP) exam.*

This minor is designed primarily for students majoring in finance. If you are majoring in another field, you may need to take several courses to fulfill prerequisites. Consult an advisor or a success coach for more information.

Courses in the Minor (15 Credits)

A minor in personal financial planning requires the completion of the following courses:

FINC 321 Fundamentals of Building Wealth (3)
FINC 352 Life and Health Insurance (3)
ACCT 323 Federal Income Tax I (3)

* The two-part education requirement for CFP certification includes both completing coursework on financial planning through a CFP Board Registered Program, such as the UMGC personal financial planning minor, and holding a bachelor's degree or higher in any discipline from an accredited college or university. You must complete the coursework before you can take the CFP exam. You have five years from the date you pass the CFP exam to complete the bachelor's degree requirement.

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FINC 355 Retirement and Estate Planning (3)

FINC 490 Financial Plan Development (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Philosophy

You may seek an academic minor in philosophy.

Minor in Philosophy

The philosophy minor complements the skills you gain in your major discipline by providing a study of the relationships between personal opinions and real-world issues faced by members of a pluralistic, open society.

Courses in the Minor (15 Credits)

A minor in philosophy requires the completion of the following courses:

PHIL 100 Introduction to Philosophy (3)

PHIL 110 Practical Reasoning (3)

PHIL 304 Contemporary Social Justice Issues (3)

PHIL 336 Ideas Shaping the 21st Century (3)

PHIL 348 Religions of the East (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Political Science

You may seek either an academic major or minor in political science.

Major in Political Science

With a major in political science, you'll develop a comprehensive understanding of U.S. government and global politics. By analyzing political structures, theory, and problems, you'll learn to interpret complex political problems in both the public and private sectors and propose potential solutions. You'll also have an opportunity to enhance your professionalism and fine-tune your communication and organizational skills.

What You'll Learn

Through your coursework, you will learn how to

- Identify the characteristics of political science and its subfields
- Distinguish between major concepts, theories, and research methods in political science
- Explain key domestic and international systems, institutions, and organizations, including their purposes, functions, and impacts on domestic and global politics and policies
- Describe ethical issues in political science that inform a commitment to integrity in personal, professional, and political practice
- Explain the importance of diversity, equity, and identity within sociopolitical, economic, and cultural contexts, both domestically and internationally
- Apply new information, terminology, and research in political science and other relevant fields
- Analyze qualitatively and quantitatively based reports and articles for validity, methodology, applicability, and conclusions
- Produce well-reasoned research within the major theoretical/conceptual frameworks of political science, using appropriate research skills, including statistical methods as needed
- Express oneself clearly, accurately, logically, cohesively, and critically, in the language of political science, about international and domestic political issues
- Demonstrate strong critical thinking and analytical writing skills

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BS IN POLITICAL SCIENCE

	Credits
General Education Courses	**41**
Required Major Core Courses	**30**
Minor and Elective Courses	**49**
Total	**120**

Major Requirements

To complete a major in political science, you must take a total of 30 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

GVPT 100 Introduction to Political Science (3)

GVPT 101 Introduction to Political Theory (3)

GVPT 170 American Government (3)
or GVPT 200 International Political Relations

GVPT 210 Introduction to Public Policy and Public Administration (3)

GVPT 280 Comparative Politics and Governments (3)

GVPT 306 Global Political Economy (3)

GVPT 403 Law, Morality, and War (3)
or any upper-level GVPT course

GVPT 406 Global Terrorism (3)

GVPT 457 American Foreign Relations (3)
or any upper-level GVPT course

GVPT 495 Political Science Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN POLITICAL SCIENCE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111C Program and Career Exploration in Communication/ Humanities (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMSC 100 Social Networking and Cybersecurity Best Practices (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
GVPT 100 Introduction to Political Science (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
GVPT 101 Introduction to Political Theory (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
HIST 125 Technological Transformations (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
GVPT 170 American Government (3)	**Major**
Elective (3)	Elective
GVPT 210 Introduction to Public Policy and Public Administration (3)	**Major**
GVPT 280 Comparative Politics and Governments (3)	**Major**
Elective (3)	Elective
GVPT 306 Global Political Economy (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
WRTG 391 Advanced Research Writing (3)	General education/communications

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Political Science, continued

Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
GVPT 403 Law, Morality, and War (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GVPT 406 Global Terrorism (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
GVPT 457 American Foreign Relations (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
GVPT 495 Political Science Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Political Science

The political science minor complements the skills you gain in your major discipline by providing a systematic study of politics and government. It exposes you to the basic concepts, theories, policies, and roles of government at local, state, and national levels in domestic and foreign settings.

Courses in the Minor (15 Credits)

A minor in political science requires the completion of 15 credits of coursework in government and politics. All GVPT courses apply. It is recommended that you take GVPT 100, GVPT 101, or GVPT 170 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Psychology

You may seek either an academic major or minor in psychology.

Major in Psychology

UMGC's bachelor's degree program in psychology will help prepare you for graduate study or a multitude of careers in the field. While acquiring a knowledge base of theory, research, and practice in psychological sciences, you'll hone your quantitative skills, written and oral communication proficiencies, analytical and scientific reasoning, and ability to analyze human behavior.

What You'll Learn

Through your coursework, you will learn how to

- Apply relevant concepts, theories, empirical findings, and historical trends to personal, organizational, and social issues
- Model scientific reasoning by designing, participating in, and evaluating psychological research
- Implement critical and creative thinking, skeptical inquiry, technology-based information literacy, and the scientific approach to solve problems related to current and emerging trends in psychology
- Use ethical principles of psychology to evaluate psychological science and practice within professional and personal settings
- Communicate ideas, concepts, arguments, and perspectives during effective interactions with diverse groups in a variety of contexts
- Analyze the complexity of human diversity and how it influences our understanding of behavior
- Apply psychology content and skills to career readiness, lifetime learning goals, and workforce contributions

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BS IN PSYCHOLOGY

	Credits
Required Major Core Courses	**33**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**84**
Total	**120**

Major Requirements

To complete a major in psychology, you must take a total of 36 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

PSYC 100 Introduction to Psychology (3)
PSYC 220 Social Psychology (3)
PSYC 251 Lifespan Development (3)
or any upper-level PSYC course
PSYC 300 Research Methods in Psychology (3)
PSYC 301 Biological Basis of Behavior (3)
PSYC 310 Sensation and Perception (3)
or any upper-level PSYC course
PSYC 335 Theories of Personality (3)
PSYC 341 Memory and Cognition (3)
or any upper-level PSYC course
PSYC 353 Abnormal Psychology (3)
PSYC 436 Introduction to Clinical Psychology (3)
PSYC 495 Psychology Capstone (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements:

STAT 200 Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN PSYCHOLOGY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111S Program and Career Exploration in Health and Sciences (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
PSYC 100 Introduction to Psychology (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
WRTG 112 Academic Writing II (3)	General education/communications
PSYC 220 Social Psychology (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
PSYC 251 Lifespan Development *or* any upper-level PSYC course (3)	**Major**
Elective (3)	Elective
PSYC 300 Research Methods in Psychology *or* any upper-level PSYC course (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PSYC 301 Biological Basis of Behavior (3)	**Major**
Elective (3)	Elective
PSYC 310 Sensation and Perception (3)	**Major**
Elective (3)	Elective

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Psychology, continued

PSYC 335 Theories of Personality (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
PSYC 341 Memory and Cognition (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
PSYC 353 Abnormal Psychology (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PSYC 436 Introduction to Clinical Psychology (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
PSYC 495 Psychology Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Minor in Psychology

The psychology minor complements the skills you gain in your major discipline by investigating the nature of the mind and behavior, including the biological basis of behavior; perception, memory, and cognition; the influence of environmental and social forces on the individual, personality, and lifespan development and adjustment; research methods; and statistical analysis.

Courses in the Minor (15 Credits)

A minor in psychology requires the completion of 15 credits of coursework in psychology, as follows.

One of the following foundation courses (3):

PSYC 100 Introduction to Psychology

PSYC 300 Research Methods in Psychology

STAT 200 Introduction to Statistics

One course from each of the following groupings:

Biological (3): PSYC 301, PSYC 310, PSYC 341

Social (3): PSYC 220, PSYC 251, PSYC 354

Professional (3): PSYC 335, PSYC 353, PSYC 436

An additional PSYC course (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Public Safety Administration

You may seek either an academic major or minor in public safety administration.

Major in Public Safety Administration

The public safety administration curriculum at UMGC is designed to provide you with a foundation of knowledge and expand your understanding of the unique aspects of administration in the field of public safety. In this program, you'll study public safety's professional and legal frameworks as well as administrators' responsibilities related to risk management, mitigation, and liability. You'll also examine ethical decision-making processes and distinguish the attributes of exceptional public safety leaders.

What You'll Learn

Through your coursework, you will learn how to

- Analyze the unique aspects and best professional practices associated with the field of public safety administration within the United States
- Analyze the legal framework within the United States that outlines the obligations and limitations of public safety entities with respect to their employees, constituents, and the public at large
- Evaluate the challenges associated with the professional obligation to address concurrent public safety emergencies and the challenges associated with the development of effective corresponding mitigation plans
- Evaluate the unique ethical framework associated with the field of public safety administration and the corresponding decision-making process required of public safety professionals
- Assess the leadership attributes most commonly associated with exceptional professionals within the field of public safety administration

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

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BS IN PUBLIC SAFETY ADMINISTRATION

	Credits
Required Major Core Courses	**30**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**87**
Total	**120**

Major Requirements

To complete a major in public safety administration, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

PSAD 302	Introduction to Public Safety Administration (3)
PSAD 304	Contemporary Public Safety Practices (3)
PSAD 306	Public Safety Planning (3)
PSAD 408	Public Safety Legal Issues and Public Policy (3)
PSAD 410	Public Safety Research and Technology (3)
PSAD 414	Public Safety Administration Ethics (3)
PSAD 416	Public Safety Leadership (3)
FINC 331	Finance for the Nonfinancial Manager (3)
BMGT 317	Methods of Decision-Making and Problem-Solving (3)
PSAD 495	Public Safety Leadership Capstone (3)

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements.

IFSM 300	Information Systems in Organizations (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN PUBLIC SAFETY ADMINISTRATION	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111P Program and Career Exploration in Public Safety (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
WRTG 112 Academic Writing II (3)	General education/communications
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
PSAD 302 Introduction to Public Safety Administration (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 105 Topics for Mathematical Literacy (3)	General education/mathematics
IFSM 300 Information Systems in Organizations (3)	**Related** and general education/ research and computing literacy
PSAD 304 Contemporary Public Safety Practices (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
PSAD 306 Public Safety Planning (3)	**Major**
Elective (3)	Elective
PSAD 408 Public Safety Legal Issues and Public Policy (3)	**Major**
Elective (3)	Elective
PSAD 410 Public Safety Research and Technology (3)	**Major**
Elective (3)	Elective
PSAD 414 Public Safety Administration Ethics (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications

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Public Safety Administration, continued

Elective (3)	Elective
PSAD 416 Public Safety Leadership (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
FINC 331 Finance for the Nonfinancial Manager (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
BMGT 317 Methods of Decision-Making and Problem-Solving (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
PSAD 495 Public Safety Leadership Capstone (3)	**Major**/capstone
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CAPL 398A Career Planning Management (1)	Elective

Minor in Public Safety Administration

The public safety administration minor complements the skills you gain in your major discipline by providing a background in the field of public safety. The minor exposes you to the principles of strategic planning, risk management, public policy, and ethics as related to public safety administration.

Courses in the Minor (15 Credits)

A minor in public safety administration requires the completion of 15 credits of coursework in public safety administration. All PSAD courses apply. It is recommended that you take PSAD 302 as your first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Small Business Management and Entrepreneurship

You may seek an academic minor in small business management and entrepreneurship.

Minor in Small Business Management and Entrepreneurship

The small business management and entrepreneurship minor complements the skills you gain in your major discipline by helping you develop your ability to start and operate a successful small business and look for opportunities to create patterns of innovation within your organization. If you are planning to start or manage a small business, such as a family-owned business, a franchise, a virtual business, or a home enterprise, you'll find this minor helpful.

Courses in the Minor (15 Credits)

A minor in small business management and entrepreneurship requires the completion of the following courses:

BMGT 304	Managing E-Commerce in Organizations (3)
BMGT 330	Entrepreneurship and New Venture Planning (3)
BMGT 335	Small Business Management (3)
BMGT 364	Management and Organization Theory (3)
FINC 328	Small Business Finance (3)

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Social Science

You may seek an academic major in social science.

Major in Social Science

In UMGC's bachelor's degree program in social science, you'll gain a breadth of knowledge through interdisciplinary study that encompasses perspectives from the fields of anthropology, behavioral sciences, gerontology, psychology, and sociology. You'll also have the opportunity to drill down and focus closely on one of these fields.

What You'll Learn

Through your coursework, you will learn how to

- Analyze how quantitative and qualitative methods are used in social science research
- Communicate social science concepts and research findings effectively to a variety of audiences
- Examine how micro- and macro-level factors are linked in the social lives of individuals, communities, and societies
- Analyze complex social issues using theoretical approaches, critical-thinking skills, information literacy, technology, or interdisciplinary perspectives
- Evaluate social science research using ethical principles and standards for professional conduct
- Apply concepts of diversity, social factors, and global multicultural perspectives to examine practical problems in the workplace and society

Accelerated Pathway

If you complete your undergraduate degree at UMGC with a major in social science, an accelerated pathway between UMGC's undergraduate and graduate programs allows you to reduce your total coursework for the Master of Arts in Teaching by 12 credits (three courses, including the noncredit introductory course UCSP 615). Details are on p. 24.

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN SOCIAL SCIENCE

	Credits
Required Major Core Courses	**30**
Required Related Course	**3**
Remaining General Education, Minor, and Elective Courses	**87**
Total	**120**

Major Requirements

To complete a major in social science, you must take a total of 30 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

Two of the following introductory (100-level) social science courses (6):

ANTH 102	Introduction to Cultural Anthropology
GERO 100	Contemporary Issues in Aging
PSYC 100	Introduction to Psychology
SOCY 100	Introduction to Sociology

The following courses:

BEHS 210	Introduction to Social Sciences (3)
BEHS 300	Research Methods in Social Sciences (3)
BEHS 495	Social Sciences Capstone (3)

One of the following courses (3):

BEHS 220	Diversity Awareness
BEHS 250	Social Justice Movements

Four upper-level ANTH, BEHS, GERO, PSYC, and SOCY courses (12)—Focused study in anthropology, gerontology, psychology, or sociology is recommended, as follows:

Anthropology

ANTH 345	World Prehistory and Archaeology
ANTH 346	Anthropology of Language and Communication
ANTH 350	Health, Illness, and Healing
ANTH 351	Anthropology in Forensic Investigations

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Gerontology

GERO 302	Health and Aging
GERO 311	Gender and Aging
GERO 427	Culture and Aging
GERO 320	Psychosocial Aspects of Aging

Psychology

PSYC 338	Psychology of Gender
PSYC 354	Cross-Cultural Psychology
PSYC 386	Psychology of Stress
PSYC 437	Positive Psychology

Sociology

SOCY 313	The Individual and Society
SOCY 325	The Sociology of Gender
SOCY 423	Race and Ethnicity: A Global Perspective
SOCY 350	Contemporary Social Problems

REQUIRED RELATED COURSE (3 CREDITS)

The following required course may be applied to general education requirements:

STAT 200	Introduction to Statistics (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN SOCIAL SCIENCE	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111S Program and Career Exploration in Health and Sciences (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
ANTH 102 Introduction to Cultural Anthropology *or* **GERO 100** Contemporary Issues in Aging *or* **PSYC 100** Introduction to Psychology *or* **SOCY 100** Introduction to Sociology (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
STAT 200 Introduction to Statistics (3)	**Related** and general education/ mathematics
WRTG 112 Academic Writing II (3)	General education/communications
ANTH 102 Introduction to Cultural Anthropology *or* **GERO 100** Contemporary Issues in Aging *or* **PSYC 100** Introduction to Psychology *or* **SOCY 100** Introduction to Sociology (3)	**Major**
HUMN 100 Introduction to Humanities (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
BEHS 210 Introduction to Social Sciences (3)	**Major**
Elective (3)	Elective
BEHS 220 Diversity Awareness *or* **BEHS 250** Social Justice Movements (3)	**Major**
Elective (3)	Elective

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Social Science, continued

BEHS 300 Research Methods in Social Sciences (3)	**Major**
Elective (3)	Elective
ANTH 345 World Prehistory and Archaeology *or* **GERO 302** Health and Aging *or* **PSYC 338** Psychology of Gender *or* **SOCY 313** The Individual and Society (3)	**Major**
WRTG 391 Advanced Research Writing (3)	General education/communications
Elective (3)	Elective
ANTH 346 Anthropology of Language and Communication *or* **GERO 311** Gender and Aging *or* **PSYC 354** Cross-Cultural Psychology *or* **SOCY 325** The Sociology of Gender (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ANTH 350 Health, Illness, and Healing *or* **GERO 427** Culture and Aging *or* **PSYC 386** Psychology of Stress *or* **SOCY 423** Race and Ethnicity: A Global Perspective (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
ANTH 351 Anthropology in Forensic Investigations *or* **GERO 320** Psychosocial Aspects of Aging *or* **PSYC 437** Positive Psychology *or* **SOCY 350** Contemporary Social Problems (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
BEHS 495 Social Sciences Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Sociology

You may seek an academic minor in sociology.

Minor in Sociology

The sociology minor complements the skills you gain in your major discipline by providing a study of contemporary sociological theory and research and applying it to social issues, including globalization, social inequality, diversity, healthcare, education, family, work, and religion.

Courses in the Minor (15 Credits)

A minor in sociology requires the completion of 15 credits of coursework in sociology. All SOCY courses apply. It is recommended that you take SOCY 100 as the first course in the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Software Development and Security

You may seek an academic major in software development and security.

Major in Software Development and Security

The major in software development and security at UMGC is designed to teach you programming languages and best practices in software development that are in demand today in the workplace. Study also focuses on the critical element of software security, providing skills in how to find and address possible vulnerabilities.

UMGC was named a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) by the National Security Agency and the Department of Homeland Security.

What You'll Learn

Through your coursework, you will learn how to

- Work individually or in a team to design, develop, implement, and test secure software using leading industry practices and standards to meet user requirements
- Plan, manage, document, and communicate all phases of a secure software development project as part of a software development team
- Use appropriate tools to assess and analyze existing applications for weaknesses and vulnerabilities and implement techniques for mitigating security threats and risks
- Identify and respond to threats and attacks to minimize risk and protect privacy

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN SOFTWARE DEVELOPMENT AND SECURITY

	Credits
General Education Courses	41
Required Major Core Courses	33
Minor and Elective Courses	46
Total	120

Major Requirements

To complete a major in software development and security, you must take a total of 33 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (33 CREDITS)

CMSC 115	Introductory Programming (3)
CMSC 215	Intermediate Programming (3)
CMSC 320	Relational Database Concepts and Applications (3)
SDEV 300	Building Secure Python Applications (3)
SDEV 325	Detecting Software Vulnerabilities (3)
SDEV 350	Database Security (3)
SDEV 360	Secure Software Engineering (3)
SDEV 400	Secure Programming in the Cloud (3)
SDEV 425	Mitigating Software Vulnerabilities (3)
SDEV 460	Software Security Testing (3)
CMSC 495	Computer Science Capstone (3)

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

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Major core and related requirements are listed in **bold**.

BS IN SOFTWARE DEVELOPMENT AND SECURITY	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMSC 105 Introduction to Problem-Solving and Algorithm Design (3)	**Prerequisite** and general education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CMSC 115 Introductory Programming (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 107 College Algebra (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
CMSC 215 Intermediate Programming (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
NSCI 103 Fundamentals of Physical Science (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CMSC 320 Relational Database Concepts and Applications (3)	**Major**
Elective (3)	Elective
SDEV 300 Building Secure Python Applications (3)	**Major**
Elective (3)	Elective
SDEV 325 Detecting Software Vulnerabilities (3)	**Major**
Elective (3)	Elective
SDEV 350 Database Security (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
SDEV 360 Secure Software Engineering (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
SDEV 400 Secure Programming in the Cloud (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
SDEV 425 Mitigating Software Vulnerabilities (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
SDEV 460 Software Security Testing (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CMSC 495 Computer Science Capstone (3)	**Major**/capstone
CAPL 398A Career Planning Management (1)	Elective

Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the international honor society for the computing and information disciplines, is available on p. 332.

Technology Requirements

Courses in the software development and security program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

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Speech Communication

You may seek an academic minor in speech communication if you are not completing a major in communication studies.

Minor in Speech Communication

The minor in speech communication complements the skills you gain in your major discipline by helping you develop communication skills, particularly oral communication, as well as providing a greater understanding of human interaction in a variety of personal and professional contexts.

Courses in the Minor (15 Credits)

A minor in speech communication requires the completion of 15 credits of coursework in speech communication. All SPCH and COMM courses apply, but at least 9 credits must be earned in SPCH courses. It is recommended that you take COMM 300 and SPCH 100 as the first courses for the minor (if you have not already applied the courses toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Terrorism and Critical Infrastructure

You may seek an academic minor in terrorism and critical infrastructure.

Minor in Terrorism and Critical Infrastructure

The terrorism and critical infrastructure minor complements the knowledge and skills you develop in your major discipline by offering you an understanding of the principal components of protecting both public and private critical infrastructure from acts of terrorism.

Courses in the Minor (15 Credits)

A minor in terrorism and critical infrastructure requires the completion of 15 credits of coursework focusing on terrorism and critical infrastructure, chosen from the following courses:

CCJS 341	Criminal Investigation
CCJS 390	Cybercrime and Security
GVPT 406	Global Terrorism
GVPT 407	State Terrorism
GVPT 408	Counterterrorism
GVPT 409	Terrorism, Antiterrorism, and Homeland Security
HIST 392	History of the Contemporary Middle East
HMLS 302	Introduction to Homeland Security
HMLS 406	Legal and Political Issues of Homeland Security
HMLS 408	Infrastructure in Homeland Security

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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Web and Digital Design

You may seek either an academic major or minor in web and digital design.

Major in Web and Digital Design

You can follow your interests and prepare for a career in digital design with UMGC's bachelor's degree program in web and digital design, which allows you to explore design using various digital media and web technologies. In this major, you'll learn how to create digital works using industry-standard software and incorporating design theory and efficient workflows. Through your coursework, you can gain hands-on experience in web design, virtual reality, augmented reality, electronic publishing, motion graphics, multimedia, animation, and graphic design.

What You'll Learn

Through your coursework, you will learn how to

- Create digital products, such as graphics, interactive digital media, and web applications, that utilize current or emerging technologies to meet customer requirements and usability standards
- Apply sound business principles and project management techniques to manage a digital media or web design project from conceptualization to deployment
- Utilize scripting and programming languages to develop interactive digital media or web applications that meet technical specifications and quality standards
- Assess the cultural, ethical, and legal implications of producing and distributing interactive digital media, products, or platforms
- Communicate clearly and effectively with diverse stakeholders about technology and digital media

Degree Requirements

See pp. 32–35 for information on major, general education, and minor and elective requirements, as well as overall requirements for completing a bachelor's degree.

BS IN WEB AND DIGITAL DESIGN

	Credits
General Education Courses	41
Required Major Core Courses	30
Minor and Elective Courses	49
Total	120

Major Requirements

To complete a major in web and digital design, you must take a total of 30 credits in required coursework, as follows:

REQUIRED MAJOR CORE COURSES (30 CREDITS)

CMST 290 Introduction to Interactive Design (3)
CMST 295 Fundamentals of Digital Design (3)
CMST 495 Web and Digital Design Capstone (3)

Any upper-level CMST courses (21)—Focused study in web design, digital design, or augmented/virtual reality is recommended, as follows:

Web Design

CMST 385 Principles of Web Design and Technology I
CMST 386 Principles of Web Design and Technology II
CMST 325 Image Editing
CMST 320 Illustration Graphics
CMST 355 Content Management Systems
CMST 388 Fundamentals of JavaScript
CMST 488 Advanced JavaScript

Digital Design

CMST 310 Fundamentals of Electronic Publishing
CMST 311 Advanced Electronic Publishing
CMST 325 Image Editing
CMST 320 Illustration Graphics
CMST 425 Advanced Image Editing
CMST 341 Principles of Multimedia I
CMST 351 Motion Graphics I

Augmented/Virtual Reality

CMST 308 User Experience and Interface Design
CMST 315 Game Design I
CMST 330 Virtual Reality Design I
CMST 331 Augmented Reality Design I
CMST 390 3D Modeling

Course Sequencing

The following table is designed to provide an optimal order for taking both required and recommended general education, major, and elective courses for this program. Your plan will be unique to you, based on your previous education. Contact an advisor or a success coach if you have any questions about your academic advisement report.

Major core and related requirements are listed in **bold**.

BS IN WEB AND DIGITAL DESIGN	
Recommended and Required Courses	**Requirement(s) Fulfilled**
LIBS 150 Introduction to Research (1)	General education/research and computing literacy
PACE 111T Program and Career Exploration in Technology (3)	General education/research and computing literacy
WRTG 111 Academic Writing I (3)	General education/communications
CMST 301 Digital Media and Society (3)	General education/research and computing literacy
NUTR 100 Elements of Nutrition (3)	General education/biological and physical sciences
CMST 290 Introduction to Interactive Design (3)	**Major**
SPCH 100 Foundations of Oral Communication (3)	General education/communications
MATH 107 College Algebra (3)	General education/mathematics
WRTG 112 Academic Writing II (3)	General education/communications
CMST 295 Fundamentals of Digital Design (3)	**Major**
HIST 125 Technological Transformations (3)	General education/arts and humanities
BIOL 103 Introduction to Biology (4)	General education/biological and physical sciences
BEHS 103 Technology in Contemporary Society (3)	General education/behavioral and social sciences
ARTH 334 Understanding Movies (3)	General education/arts and humanities
Elective (3)	Elective
ECON 103 Economics in the Information Age (3)	General education/behavioral and social sciences
CMST 385 Principles of Web Design and Technology I *or* **CMST 310** Fundamentals of Electronic Publishing *or* **CMST 308** User Experience and Interface Design (3)	**Major**
Elective (3)	Elective
CMST 386 Principles of Web Design and Technology II *or* **CMST 311** Advanced Electronic Publishing *or* **CMST 315** Game Design I (3)	**Major**
Elective (3)	Elective
CMST 325 Image Editing (3)	**Major**
Elective (3)	Elective
CMST 320 Illustration Graphics (3)	**Major**
WRTG 393 Advanced Technical Writing (3)	General education/communications
Elective (3)	Elective
CMST 388 Fundamentals of JavaScript *or* **CMST 425** Advanced Image Editing *or* **CMST 330** Virtual Reality Design I (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMST 355 Content Management Systems *or* **CMST 341** Principles of Multimedia I *or* **CMST 331** Augmented Reality Design I (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMST 488 Advanced JavaScript *or* **CMST 351** Motion Graphics I *or* **CMST 390** 3D Modeling (3)	**Major**
Elective (3)	Elective
Elective (3)	Elective
CMST 495 Web and Digital Design Capstone (3)	**Major**/capstone
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
Elective (3)	Elective
CAPL 398A Career Planning Management (1)	Elective

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Honor Society

Information on eligibility for membership in the UMGC chapter of Upsilon Pi Epsilon, the international honor society for the computing and information disciplines, is available on p 332.

Technology Requirements

Courses in the web and digital design program may have computing needs beyond the minimum technology requirements found on p. 26. Review the course descriptions to determine the technology requirements for the classes in which you are enrolling.

Minor in Web and Digital Design

The web and digital design minor complements the skills you gain in your major discipline by providing a study of the principles, best practices, and technologies that govern the design of digital media.

Courses in the Minor (15 Credits)

A minor in web and digital design requires the completion of 15 credits of coursework in computer studies. You must complete either CMST 290 or CMST 295. The remaining credits may be chosen from any CMST courses.

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

Technology requirements are the same as for the major (see above). For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

Women, Gender, and Sexuality Studies

You may seek an academic minor in women, gender, and sexuality studies.

Minor in Women, Gender, and Sexuality Studies

The women, gender, and sexuality studies minor complements the skills you gain in your major discipline by providing an interdisciplinary study of the history, status, and experiences of women.

Courses in the Minor (15 Credits)

A minor in women, gender, and sexuality studies requires the completion of 15 credits of coursework in women, gender, and sexuality studies, chosen from the following courses:

Any WMST courses

BEHS 220	Diversity Awareness
BEHS 250	Social Justice Movements
BEHS 343	Parenting Today
BEHS 453	Domestic Violence
ENGL 250	Introduction to Women's Literature
GERO 311	Gender and Aging
HIST 377	U.S. Women's History: 1870 to 2000
PSYC 332	Psychology of Human Sexuality
PSYC 338	Psychology of Gender
SOCY 325	The Sociology of Gender
SOCY 443	Sociology of the Family
SOCY 462	Women in the Military
SPCH 324	Communication and Gender

It is recommended that you take WMST 200 as the first course for the minor (if you have not already applied the course toward other degree requirements).

Courses already applied toward other degree requirements (e.g., major or general education) may not be applied toward the minor. At least 9 credits must be earned in upper-level courses (numbered 300 or above). Prerequisites apply for all courses.

For a listing of all the requirements for the bachelor's degree, refer to your major and pp. 32–35.

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