

UNDERGRADUATE DEGREE PROGRAMS



Bay Atlantic University offers the following bachelor's degrees:

Bachelor of Arts

- Business Administration and Management
- Economics and Finance (not enrolling new students)
- Political Science and International Relations

Bachelor of Science

- Information Technology
- Software Engineering

Minors

- Artificial Intelligence Engineering
- Business Administration and Management
- Cloud Engineering
- Information Sciences
- Software Engineering

The Bachelor's (Undergraduate) degrees are earned by completing the program course requirements of 120 credits. Of these credits, 42 credits (14 courses) are General Education courses, 60 credits (20 courses) are core courses, and 18 credits (6 courses) are elective courses. These requirements are part of all undergraduate programs.

GENERAL EDUCATION

Bay Atlantic University is committed to providing a strong general education program to its undergraduate students. BAU views general education as a significant way of providing students with the foundational skills in writing, critical thinking, ethics, technology, mathematics, and the sciences that are needed for success in careers and as global citizens.

GENERAL EDUCATION LEARNING OBJECTIVES

After completing the general education requirements, students will be able to:

1. Demonstrate effective communication in various contexts, using appropriate verbal, non-verbal and written skills, to express ideas,

exchange information and engage in meaningful interactions.

2. Develop proficiency in numerical analysis, data interpretation, and scientific and mathematical reasoning to solve problems, make informed decisions, and interpret data in different contexts.
3. Critically analyze social issues, identify personal roles and responsibilities as global citizens, and actively engage in ethical decision-making to develop an understanding of social responsibility and the importance of creating a just and sustainable society.
4. Develop and demonstrate information and digital literacy.
5. Demonstrate critical and analytical thinking skills through a comprehensive exploration of issues that engage in thoughtful analysis, evaluation, and synthesis of information, ideas, and arguments across diverse disciplines and contexts.

General Education Requirements

Breadth of knowledge is a foundational element of the American higher education tradition. As such, all BAU undergraduate students are expected to complete the following general education requirements, *in addition to* the core requirements and electives. A student's core requirements may not apply toward general education requirements.

The requirements are categorized in three broad areas: Humanities, Mathematics & Sciences, and Social Sciences. In total, these general education requirements fulfill 42 credits.

To complete the Humanities requirement, students must complete 15 credits: three (3) writing courses (ENGL 121, ENGL 122, and ENGL 123), PHIL 200 (not counted for general education credit) and two other courses selected from the cluster.

To complete the Mathematics and the Sciences requirement, students must complete 12 credits (4 courses) in this cluster. College Algebra is required in addition to 9 credits (3 courses) that

may be selected from the cluster.

To complete the Social Sciences requirement, students must complete 15 credits (6 courses) in this cluster. UNIV 100, and UNIV 400 are required, and the remaining 12 credits (4 courses) can be selected from the cluster.

General Education: Course LISTING

Humanities Cluster			
Course Code	Course Name	Pre-requisites	Credit
ENGL 121	English Composition I*		3
ENGL 122	English Composition II*	ENGL 121	3
ENGL 123	Academic Writing*	ENGL 122	3
GNAI 180	Introduction to Generative AI & Prompt Engineering	ENGL 121	3
HIST 170	U.S. History		3
HIST 180	World History and Civilizations		3
HIST 200	Political Change & Islamic Reform		3
POLS 121	US Government		3
PHIL 200	Ethics ** (cannot be counted for gen ed)		3
SPAN 101	Elementary Spanish I		3
SPAN 121	Elementary Spanish II	SPAN 101	3
TURK 101	Elementary Turkish I		3
TURK 121	Elementary Turkish II	TURK 101	3
Mathematics and Sciences Cluster			
Course Code	Course Name	Pre-requisites	Credit
BIOL 100	Introduction to Biology		3
CHEM 100	Introduction to Chemistry		3
ENVS 105	Introduction to Environmental Science		3
ENVS 220	Environmental Sustainability		3
MATH103	College Mathematics		3
MATH104	College Algebra*	MATH103 or 2 years of HS algebra with a minimum grade of C	3
MATH 110	Introduction to Statistics		3
MATH 128	Linear Algebra		3
MATH 131	Calculus 1	MATH 104	3
MATH 132	Calculus II	MATH 131	3
MATH 140	Discrete Mathematics		3
MATH 212	Numerical Analysis	MATH 132	3

ASTR 101	Introduction to Astronomy		3
PHYS 200	Introduction to Physics	MATH 103	3
Social Sciences Cluster			
Course Code	Course Name	Pre-requisites	Credit
COMM 101	Fundamentals of Public Speaking		3
COMM 220	Interpersonal Communication		3
COMM 250	Literacy in the Age of Fake News		3
PSYC 101	Introduction to Psychology		3
SOCI 101	Introduction to Sociology		3
SOCI 170	Fundamentals of Criminology		3
UNIV 100	First Year Seminar*		1
UNIV 400	Senior Seminar*		2

*denotes a required course

**requirement of all undergraduate programs

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION & MANAGEMENT

The mission of this program is to prepare career focused students with comprehensive knowledge of business principles through teaching in key content areas of management, marketing, finance, accounting, economics, and law; in addition to exposure to how technology, ethical decision-making and other business elements are transforming workplaces locally and globally.

Graduates of this program will be qualified, but not limited to, entry level and mid-career positions like the following: Advertising Manager, Promotion Manager, Budget Analyst, Budget Coordinator, Budget Examiner, Business Analyst, Business Management Analyst, Business Process Consultant, and Management Consultant.

PROGRAM LEARNING OBJECTIVES

1. Understand fundamental concepts that influence the business world.
2. Practice an awareness of sound ethical values in various cultural and social environments.
3. Recognize the role of technology and information systems in data collection and quantitative analysis for business processes.
4. Employ analytical and critical thinking skills to conduct business research that informs decision making.
5. Demonstrate the integration of knowledge and professional skills across functional areas.
6. Demonstrate professional business communication skills for a global business environment.
7. Analyze internal business functions and capacity to determine appropriate growth and management strategies.

BUSINESS ADMINISTRATION & MANAGEMENT: COURSE LISTING

Core Requirements: 60 Credits (20 courses)

Course Code	Course Name	Pre-requisite	Credit
ACCT 112	Introduction to Financial Accounting		3
ACCT 114	Introduction to Managerial Accounting		3
BUSN 101	Introduction to Business		3
BUSN 210	Business Law		3
BUSN 375	Entrepreneurship		3
ECON 101	Introduction to Microeconomics		3
ECON 111	Introduction to Macroeconomics		3
ECON 353	Globalization and the World Economy	ECON101, ECON111	3
FINC 221	Introduction to Financial Management		3
FINC 455	International Finance	FINC 221	3
INTL 220	International Human Resources Management		3
MATH 110	Introduction to Statistics	MATH104	3
MGMT 200	Introduction to Project Management		3
MGMT 201	Leadership		3
MGMT 301	Organizational Behavior		3
MGMT 325	Operations Management	Math 110	3
MGMT 337	Strategic Management		3
MGMT 453	Cross-Cultural Management		3
MKTG 201	Introduction to Marketing		3
Phil 200	Ethics		3

Electives: 18 Credits (Choose 6 courses)

Course Code	Course Name	Pre-requisite	Credit
BUSN 301	Total Quality Control		3
ECON 251	International Economics	ECON 111	3
FINC 455	International Finance	FINC 221	3
MATH 335	Business Analytics Management	MATH 110	3
MGMT 303	Communications		3
MGMT 322	Problem Solving and Decision Making for Managers		3
MGMT 325	Operations Management	MATH110	3

MGMT 335	Project Management Knowledge Areas I	3
MGMT 336	Project Management Knowledge Areas II	3
MGMT 433	Negotiation	3
MGMT 453	Cross-Cultural Management	3
MKTG 321	Marketing Management	3
MKTG 435	Brand Management	3
MKTG 436	Principles of Advertising	3

Economics Concentration: 18 credits

Students must take all 6 courses

Course Code	Course Name	Pre-requisite	Credit
ECON 221	Intermediate Microeconomics	ECON101	3
ECON 222	Intermediate Macroeconomics	ECON111	3
ECON 251	International Economics	ECON111	3
ECON 371	The Development of Economic Thought	ECON101, ECON111	3
ECON 437	Econometrics I	MATH110	3
ECON 440	Economics of International Development	ECON101, ECON111	3

Finance Concentration: 18 credits

Students must take all 6 courses

Course Code	Course Name	Pre-requisite	Credit
FINC 222	Financial Markets and Institutions	FINC221	3
FINC 224	Corporate Finance I	ECON101, ECON111	3
FINC 373	Monetary Theory and Policy	ECON101, ECON111	3
FINC 421	Investment Strategies	FINC221	3
FINC 431	Derivative Markets	FINC221	3
FINC 455	International Finance	FINC221	3

Information Systems Concentration: 18 credits

Students must take all 6 courses

Course Code	Course Name	Pre-requisite	Credit
CMPS 211	Computer Networks		3
CMPS 318	Database Management Systems		3
CMPS 320	Computer Forensics		3
ISIT 224	Information Systems Analysis and Design		3
ISIT 226	Management Information Systems	ISIT 224	3
ISIT 401	Information Technology Audits & Controls	ISIT 224	3

BACHELOR OF ARTS IN ECONOMICS AND FINANCE

This program does not accept new students.

Bay Atlantic University is committed to providing a strong undergraduate program in Economics and Finance that teaches students the skills and knowledge they need to succeed in the workplace. In addition, the program is designed to produce well-rounded global citizens who can function effectively and ethically in society.

Economics studies the ways in which societies allocate scarce resources among various alternatives and the consequences of these decisions. The field of Finance, in turn, is concerned with how investment decisions are made by corporations and financial intermediaries and how financial markets operate locally and globally. The areas of inquiry in the economics and finance program include money and banking, international trade and finance, labor-market analysis, the study of emerging markets, and public finance, among others.

Students following a career in the field of Economics and Finance qualify for a wide array of jobs in business or government, including Business Economist, Statistician, Financial Planner, Investment Advisor, Program Analyst, Economics Research Analyst, Financial Risk Manager, Treasury Analyst, Media Analyst, Claims Officer, Project Manager, Asset Manager, Banker, Loan Officer, Broker, Policy Analyst, and Budget Analyst. The B.A. in Economics and Finance also provides an excellent background for admission into an M.B.A., a law degree program, or graduate training in economics, finance or public policy.

PROGRAM LEARNING OBJECTIVES

1. Describe the major concepts and theories of economics and finance.
2. Demonstrate quantitative analytic skills, including statistical analysis, in decision making and policy development.

3. Recognize the role of ethical practices and values in economic and finance industries.
4. Practice clear written and oral communication skills within the disciplines.
5. Apply economic theories and financial principles to contemporary real-world social and global issues.
6. Examine complex economic and financial issues and ideas.

ECONOMICS AND FINANCE: COURSE LISTING

Core Requirements: 60 Credits

Course Code	Course Name	Pre-requisite	Credit
ACCT 112	Introduction to Financial Accounting		3
ACCT 114	Introduction to Managerial Accounting		3
ECON 101	Introduction to Microeconomics		3
ECON 111	Introduction to Macroeconomics		3
ECON 221	Intermediate Microeconomics	ECON101	3
ECON 222	Intermediate Macroeconomics	ECON111	3
ECON 251	International Economics	ECON111	3
ECON 437	Econometrics I	MATH110	3
ECON 479	Health Care Economics	ECON101	3
ECON 481	Education and Economic Development	ECON111	3
ENGL 324	Technical Writing and Presentation Skills	ENGL123	3
FINC 221	Introduction to Financial Management		3
FINC 224	Corporate Finance I	ECON101, ECON111	3
FINC 225	Corporate Finance II	FINC224	3
FINC 331	Financial Analysis	FINC221	3
MATH 110	Introduction to Statistics	MATH104	3
MATH 131	Calculus 1	MATH 104	3
	Spreadsheet Applications for Business, Accounting, and Economics		3
MATH 225		MATH131	
MATH 335	Business Analytics	MATH110	3
PHIL 200	Ethics		3

Electives: 18 Credits (Choose 6 courses)

Course Code	Course Name	Pre-requisite	Credit
ECON 315	Political Economy	ECON111	3
ECON 336	Game Theory	ECON101, ECON111	3
ECON 353	Globalization and the World Economy	ECON101, ECON111	3
ECON 371	The Development of Economic Thought	ECON101, ECON111	3
ECON 432	Money and Markets	ECON101, ECON111	3
ECON 435	Public Finance and the Economy	ECON101, ECON111	3
ECON 438	Econometrics II	ECON437	3
ECON 440	Economics of International Development	ECON101, ECON111	3
ECON 456	International Financial Crises	ECON101, ECON111	3
ECON 473	Keynes vs Friedman	ECON101, ECON111	3
ECON 480	Labor Economics	ECON101, ECON111	3
FINC 222	Financial Markets and Institutions	FINC221	3
FINC 373	Monetary Theory and Policy	ECON101, ECON111	3
FINC 421	Investment Strategies	FINC221	3
FINC 431	Derivative Markets	FINC221	3
FINC 432	Financial Markets	FINC221	3
FINC 455	International Finance Operations	FINC221	3
MGMT 325	Management	MATH110	3
MGMT 453	Cross-Cultural Management		3

BACHELOR OF ARTS IN POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

The Political Science and International Relations program offers a diverse array of courses that cater to students with varied interests in politics, governance, diplomacy, and global affairs. From the theoretical foundations of political to practical studies in foreign policy, public affairs, security studies, and international relations, the curriculum ensures a comprehensive understanding of the political landscape. Students have the opportunity to explore regional studies, public policy, human rights, and emerging global challenges, while engaging in interdisciplinary themes that bridge history, sociology, and environmental studies. Combining scholarly rigor with practical insights, faculty equip students with the skills to critically analyze contemporary issues which present numerous political challenges.

PROGRAM LEARNING OBJECTIVES

Upon completing the program, students will be able to:

1. Identify and define major theories of political science and international relations.
2. Apply major theories of political science and international relations to real world issues
3. Analyze the interdependence between political ideas and the reality of political processes in the modern world.
4. Appraise the role played by major actors in the political process and in international affairs.
5. Evaluate complex topics by formulating fact-based opinions and judgements in written and oral form.
6. Understand the use of data in political science and international relations analysis
7. Demonstrate knowledge and capacity to engage in civic, social and political activities needed to be a responsible citizen.
8. Build an understanding of others whose identities, beliefs, behaviors, values and perspectives may differ from their own.

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS: COURSE LISTING

Core Requirements: 60 Credits (20 Courses)

Course Code	Course Name	Pre-requisite	Credit
ECON 101	Introduction to Microeconomics		3
ECON 111	Introduction to Macroeconomics		3
ECON 315	Political Economy	ECON 101, ECON 111	3
ECON 353	Globalization and the World Economy	ECON 101, ECON 111	3
INTL 161	United States Diplomatic History		3
INTL 257	International Relations		3
INTL 270	Global Public Health		3
INTL 272	United States Foreign Policy	INTL 257	3
INTL 339	International Organizations	INTL 257	3
INTL 348	Introduction to International Human Rights		3
INTL 354	International Development and Emerging Markets		3
INTL 370	Gender Development and Globalization		3
INTL 451	World Politics and World Order	POLS 101	3
INTL 459	International Security		3
PHIL 200	Ethics		3
POLS 101	Introduction to Politics and Political Science		3
POLS 121	Government and Politics of the United States	POLS 101	3

POLS 310	Public Administration	POLS 101	3
POLS 343	Public Policy		3
POLS 380	Research and Methods in Political Science	POLS 101	3

Electives: 18 Credits (Choose 6 courses)

Course Code	Course Name	Pre-requisites	Credit
INTL 300	Cybersecurity		3
INTL 340	Transnational Corporations		3
INTL 350	US and Europe	INTL 272	3
INTL 351	US and the Middle East	INTL 272	3
INTL 352	US and ASEAN	INTL 272	3
INTL 353	US and BRIC	INTL 272	3
INTL 355	Latin American Politics	INTL 272	3
INTL 388	Transnational Threats		3
INTL 430	International Crisis Diplomacy		3
INTL 460	Global Immigration and Asylum Policy	INTL 348	3
POLS 122	US Political History	POLS 121	3
POLS 215	Political Ideologies	POLS 101	3
POLS 253	Politics of Emerging Market Societies	INTL 257	3
POLS 321	Political Parties in America	POLS 121	3
POLS 335	Environmental Politics		3
POLS 210	Political Sociology		3
POLS 432	Religion and Politics		3
POLS 453	Political Behavior	POLS 101,	3
POLS 459	Global Perspectives on Democracy	INTL 348	3

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY PROGRAM

The purpose of this program is to educate, mentor, train, and develop students that can manage and supervise using effective communication skills, knowledge of evolving technologies, efficient project planning, and implementation techniques. Students will learn various technical aspects of technology, including computer programming languages, computer network infrastructure, computer applications, data storage and systems, and information security. The program will provide students with the opportunity to attain a degree that will enhance opportunities in management and supervisory positions within the information technology field.

This major will prepare students for job positions such as Computer Network Architect, Computer Support Specialist, Database Administrator, Information Security Analyst, Software Developer, Application Developer, Application Support Analyst, Applications Engineer, Associate Developer, Chief Information Officer (CIO), Cloud Architect, Cloud Consultant, Cloud Product and Project Manager, Cloud Services Developer, Cloud System Administrator, Computer and Information Systems Manager, Computer Programmer, Computer Systems Analyst, Customer Support Administrator, Customer Support Specialist, Data Center Support Specialist, Data Quality Manager, Database Administrator, Desktop Support Manager, Desktop Support Specialist, Developer, Director of Technology.

Program Learning Objectives

1. Demonstrate proficiency in various aspects of information technology skills, including computer programming languages, computer network infrastructure, database management systems, cybersecurity principles, and software development.
2. Examine technological problems and requirements for businesses to design and implement technology solutions using theoretical and practical applications of computing and mathematical knowledge.
3. Integrate fundamental digital components and infrastructures to implement computing solutions, including standalone, web-based, and mobile applications.
4. Communicate effectively orally and in writing with technical and non-technical stakeholders to professionally present articulate information and data literacy needs.
5. Assess technical skills and knowledge to pursue various professional technology certifications globally recognizable in the industry such as Certified Professional in Python Programming, CompTIA - IT Fundamentals (ITF+), ISACA – Data Science Fundamentals, etc.
6. Understand the role of responsible citizenship in the legitimate use of technology and digital data.

MINIMUM HARDWARE REQUIREMENTS

Students must have a computer system that meets the following general requirements: (Most computers are equipped with these components.)

- Memory/RAM (8 GB or Higher)
- Video Card
- Sound Card
- Speakers and Microphone
- Headphones (not required but recommended)
- Webcam
- USB Ports
- Network Card (10/100/1000 Mbps Ethernet)
- Wireless Network Card (2.4 and 5.0 GHz)
- Operating Systems:
 - Windows 10 64-bit or Later
 - Mac OS Catalina or Later

INFORMATION TECHNOLOGY PROGRAM COURSE LISTING

Core Requirements: 60 Credits (20 courses)

Course Code	Course	Pre-requisites	Credits
CMPS 122	Introduction to Programming I		3
CMPS 202	Data Structures and Algorithms I	CMPS 122	3
CMPS 211	Computer Networks		3
CMPS 222	Programming II	CMPS 122	3
CMPS 226	Introduction to Data Science		3
CMPS 318	Database Management Systems		3
CMPS 320	Computer Forensics		3
CMPS 350	Cyber Security Law		3
ISIT 224	Information Systems Analysis and Design		3
ISIT 225	Cloud Computing		3
ISIT 226	Management Information System	ISIT 224	3
ISIT 352	Web Development		3
ISIT 354	Software Architecture		3
ISIT 356	Software Quality and Testing		3
ISIT 357	Content Management Software		3
ISIT 360	Data Mining	CMPS 226	3
ISIT 401	Information Technology Audits & Controls	ISIT 226	3
MATH 110	Introduction to Statistics		3
MATH 140	Discrete Mathematics		3
PHIL 200	Ethics		3

Electives: 18 Credits (Choose 6 courses)

Course Code	Course	Pre-requisite	Credits
CMPS 205	Data Structures and Algorithms II	CMPS 202	3
CMPS 310	Introduction to Artificial Intelligence	CMPS 202	3
CMPS 322	Machine Learning and Pattern Recognition	CMPS 202	3
CMPS 337	Information Retrieval Systems	MATH 110 & CMPS 122	3
CMPS 426	Bioinformatics	MATH 110	3
CMPS 433	Game Programming	CMPS 205	3

CMPS 438	Exploratory Data Analytics	CMPS 226	3
CMPS 477	Image Processing	CMPS 230	3
ISIT 248	Mobile Development	CMPS 122	3
ISIT 328	Data Warehouse Design	CMPS 318	3
ISIT 340	Business Intelligence		3
ISIT 350	Advanced Web Application Design	CMPS 122	3
ISIT 355	Advanced Mobile Application Development	ISIT 248 or ISIT 350 or CMPS 222	3
ISIT 362	Social Network Analysis		3
ISIT 370	Agile Project Management	MGMT 200	3
MGMT 200	Introduction to Project Management		3

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING PROGRAM

The program is designed to prepare students to become highly skilled technicians in software engineering who can produce computing solutions for various scales of software development projects. The SWE program focuses on all aspects of the Software Development Life Cycle (SDLC), including requirement analysis, design, implementation, testing, and maintenance to ensure the software and system applications' usability, operation, and security. The engineering process covers all types of software, such as standalone applications, web applications, mobile applications, etc., from small-scale software to enterprise level to ensure the effectiveness and efficiency of digital products. The market for the workforce in the industry, commercially and academically, is continually growing worldwide, which places our graduates in very high demand. BAU is in one of the largest areas for a collection of technology and software companies, which graduates will tremendously benefit from while they pursue their degrees for experiences and after graduation for job opportunities. This major will prepare students for job positions such as Software Engineer, Front-End Engineer, Back-End Engineer, Full-Stack Engineer, DevOps Engineer, Software Developer, Mobile Application Developer, Analyst/Programmer, Web Developer, Software Testers, etc.

Program Learning Objectives

1. Understand the theories and methodologies used in software engineering and architecture in various Software Development Life Cycle (SDCL) models.
2. Apply the foundation and principle of software engineering and SDLC to solve real-world problems with programmatic and computing approaches.
3. Utilize advanced tools for managing, designing, implementing, analyzing, and enhancing software solutions for various domains and industries.

4. Integrate new and advanced technological disciplines into software development, such as artificial intelligence, data mining, machine learning, the Internet of Things (IoT), etc.
5. Develop reliable and cost-effective software applications to ensure usability, availability, integrity, and security using multiple technologies, including database management systems, network and communication protocols, cloud computing, software frameworks, etc.
6. Communicate effectively orally and in writing with technical and non-technical stakeholders regarding computing solutions, project management, and ethical considerations to information systems decisions.
7. Assess technical skills and knowledge to pursue various professional technology certifications globally recognizable in the industry, such as CSSLP – Certified Secure Software Lifecycle Professional, IEEE Professional Software Developer Certification, Oracle Database SQL Certified Associate Certification, Java Certified Foundations Associate, ISACA – Data Science Fundamentals Certification etc.
8. Understand the role of responsible citizenship in the legitimate use of technology and digital data.

MINIMUM HARDWARE REQUIREMENTS

Students must have a computer system that meets the following general requirements: (Most computers are equipped with these components.)

- Memory/RAM (8 GB or Higher)
 - Video Card
 - Sound Card
 - Speakers and Microphone
 - Headphones (not required but recommended)
 - Webcam
 - USB Ports
 - Network Card (10/100/1000 Mbps Ethernet)
-

- Wireless Network Card (2.4 and 5.0 GHz)
- Operating Systems:
 - Windows 10 64-bit or Later
 - Mac OS Catalina or Later

SOFTWARE ENGINEERING PROGRAM COURSE LISTING

Core Requirements: 60 Credits (20 courses)

Course Code	Course	Pre-requisites	Credits
CMPS 122	Introduction to Programming I		3
CMPS 202	Data Structures and Algorithms I	CMPS 122	3
CMPS 205	Data Structures and Algorithms I	CMPS 202	3
CMPS 211	Computer Networks		3
CMPS 222	Programming II	CMPS 122	3
CMPS 315	Operating Systems	CMPS 122	3
	Software Design and Implementation with Object-Oriented	CMPS 222	3
CMPS 324			
CMPS 433	Game Programming	CMPS 205	3
	Advanced Web		3
ISIT 350	Application Design	CMPS 122	
ISIT 351	Software Engineering	CMPS 122	3
ISIT 352	Web Development	CMPS 122	3
	Software User Interface Analysis and Design	CMPS 122	3
ISIT 353			
ISIT 354	Software Architecture		3
	Advanced Mobile Application Development	ISIT 248 or ISIT 350 or CMPS 222	3
ISIT 355			
ISIT 356	Software Quality and Testing	CMPS 122	3
	Agile Project Management	MGMT 200	3
ISIT 370			
MATH 110	Introduction to Statistics		3
MATH 140	Discrete Mathematics		3
	Introduction to Project Management		3
MGMT 200			
PHIL 200	Ethics		3

Electives: 18 Credits (Choose 6 courses)

Course Code	Course	Pre-requisite	Credits
	Introduction to Data Science		3
CMPS 226			
	Introduction to Artificial Intelligence	CMPS 202	3
CMPS 310			
CMPS 320	Computer Forensics		3
	Machine Learning and Pattern Recognition	CMPS 202	3
CMPS 322			
CMPS 350	Cyber Security Laws		3
	Information Systems Analysis and Design		3
ISIT 224			
	Management Information Systems	ISIT 224	3
ISIT 226			
	Cloud Data Storage Management	ISIT 225	3
ISIT 325			
ISIT 335	Cloud Security	ISIT 225	3
	Content Management Software		3
ISIT 357			
ISIT 360	Data Mining	CMPS 226	3

MINORS

In addition to undergraduate majors, the University offers a selection of minors designed to complement and broaden a student's primary field of study. Minors typically consist of 18 credits and must be completed in conjunction with a bachelor's degree. Minors provide an opportunity to develop additional expertise, explore interdisciplinary interests, or enhance career preparation. Students should consult with the academic advisor to ensure that course selections for a minor align with degree requirements and do not duplicate coursework in the major.

Bay Atlantic University offers the following Minors:

- Artificial Intelligence Engineering
- Business Administration and Management
- Cloud Engineering
- Information Sciences
- Software Engineering

All engineering minors have a minimum hardware requirement as listed below: Students must have a computer system that meets the following general requirements: (Most computers are equipped with these components.)

- Memory/RAM (8 GB or Higher)
- Video Card
- Sound Card
- Speakers and Microphone
- Headphones (not required but recommended)
- Webcam
- USB Ports
- Network Card (10/100/1000 Mbps Ethernet)
- Wireless Network Card (2.4 and 5.0 GHz)
- Operating Systems
 - Windows 10 64-bit or Later
 - MacOS Catalina or Later

MINOR IN ARTIFICIAL INTELLIGENCE ENGINEERING

Minor Requirements: 18 Credits (6 courses) A minimum grade of C required for all courses including the prerequisites.

COURSE LISTING

For students enrolled outside of Information Sciences:

Core Requirements: 15 Credits (5 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 122	Introduction to Programming I		3
CMPS 202	Data Structures and Algorithms I	CMPS 122	3
CMPS 310	Introduction to Artificial Intelligence	CMPS 202	3
CMPS 322	Machine Learning and Pattern Recognition	CMPS 202	3
CMPS 411	Fundamentals of Deep Learning	MATH 104 & CMPS 202	3

Elective Requirement: 3 Credits (1 course) Choose 1 from electives below:

Course Code	Course Name	Pre-requisite	Credit
CMPS 205	Data Structures and Algorithms II	CMPS 202	3
CMPS 337	Information Retrieval Systems	CMPS 122	3
CMPS 426	Bioinformatics	MATH 110	3
CMPS 337	Information Retrieval Systems	CMPS 122	3
CMPS 426	Bioinformatics	MATH 110	3

For students enrolled in Bachelor of Science in Information Technology:

Core Requirements: 9 Credits (3 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 310	Introduction to Artificial Intelligence	CMPS 202	3
CMPS 322	Machine Learning and Pattern Recognition	CMPS 202	3
CMPS 411	Fundamentals of Deep Learning	MATH 104 & CMPS 202	3

Elective Requirement: 9 Credits (3 course) Choose 3 from electives below:

Course Code	Course Name	Pre-requisite	Credit
CMPS 205	Data Structures and Algorithms II	CMPS 202	3
CMPS 332	Analysis of Algorithms	CMPS 205	3
CMPS 337	Information Retrieval Systems	CMPS 122	3
CMPS 426	Bioinformatics	MATH 110	3

For students enrolled in Bachelor of Science in Software Engineering:

Core Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 310	Introduction to Artificial Intelligence	CMPS 202	3
CMPS 322	Machine Learning and Pattern Recognition	CMPS 202	3
CMPS 411	Fundamentals of Deep Learning	MATH 104 & CMPS 202	3
CMPS 332	Analysis of Algorithms	CMPS 205	3
CMPS 337	Information Retrieval Systems	CMPS 122	3
CMPS 426	Bioinformatics	MATH 110	3

MINOR IN BUSINESS ADMINISTRATION AND MANAGEMENT

Minor Requirements: 18 Credits (6 courses).

COURSE LISTING

For students enrolled in Political Science and International Relations:

Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
ECON 101*	Introduction to Microeconomics		3
ECON 111*	Introduction to Macroeconomics		3
BUSN 101	Introduction to Business Administration		3
ACCT 112	Introduction to Financial Accounting		3
	200 - 300 Level Business Course		3

300 – 400 Level Business Course	3
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*Currently offered within the program. No more than 6 credits can be counted twice toward the minor.

For students enrolled in any Information Sciences program:

Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
BUSN 101	Introduction to Business Administration		3
ECON 101	Introduction to Microeconomics		3
ECON 111	Introduction to Macroeconomics		3
ACCT 112	Introduction to Financial Accounting		3
FINC 221 or MKTG 201	Introduction to Financial Management Introduction to Marketing		3
	Any 200 – 400 Level Business Course*		3

*No more than 6 credits can be counted twice toward the minor

MINOR IN CLOUD ENGINEERING

Minor Requirements: 18 Credits (6 courses) A minimum grade of C required for all courses including the prerequisites.

COURSE LISTING

For students enrolled outside of Information Sciences:

Core Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 122	Introduction to Programming I		3
CMPS 225	Cloud Computing		3
CMPS 315	Operating Systems	CMPS 122	3
ISIT 325	Cloud Data Storage	ISIT 225	3
ISIT 335	Cloud Security	ISIT 225	3
ISIT 345	Cloud System Administrator	ISIT 225 & CMPS 315	3

For students enrolled in Bachelor of Science in Information Technology:

Core Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 315	Operating Systems	CMPS 122	3
ISIT 325	Cloud Data Storage	ISIT 225	3
ISIT 328	Data Warehouse Design	CMPS 318	3
ISIT 335	Cloud Security	ISIT 225	3
ISIT 340	Business Intelligence		3

For students enrolled in Bachelor of Science in Software Engineering:

Core Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 225	Cloud Computing		3
CMPS 315	Operating Systems	CMPS 122	3
ISIT 325	Cloud Data Storage	ISIT 225	3
ISIT 335	Cloud Security	ISIT 225	3
ISIT 340	Business Intelligence		3
	Cloud System	ISIT 225 &	3
ISIT 345	Administrator	CMPS 315	

MINOR IN INFORMATION SCIENCE

Minor Requirements: 18 Credits (6 courses) A minimum grade of C required for all courses including the prerequisites.

COURSE LISTING

For students enrolled outside of Information Sciences:

Core Requirements: 6 Credits (2 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 122	Introduction to Programming I		3
CMPS 226	Introduction to Data Science		3

For students enrolled in Bachelor of Science in Software Engineering:

Core Requirements: 3 Credits (1 course)

Course Code	Course Name	Pre-requisite	Credit
CMPS 226	Introduction to Data Science		3

Elective Requirements: select the courses from the list below as electives to fulfill the 18 credits requirement of the minor:

Course Code	Course Name	Pre-requisite	Credit
CMPS 230	Information Visualization	CMPS 122	3
	Data Management		
CMPS 318	Systems		3
CMPS 426	Bioinformatics	MATH 110	3
	Exploratory Data		
CMPS 438	Analytics	CMPS 226	3
CMPS 477	Image Processing	CMPS 230	3
CMPS 480	Big Data	CMPS 318	
ISIT 328	Data Warehouse Design	CMPS 318	
ISIT 360	Data Mining	CMPS 226	

MINOR IN SOFTWARE ENGINEERING

Minor Requirements: 18 Credits (6 courses) A minimum grade of C required for all courses including the prerequisites.

COURSE LISTING

For students enrolled outside of Information Sciences:

Core Requirements: 15 Credits (5 courses)

Course Code	Course Name	Pre-requisite	Credit
CMPS 122	Introduction to Programming I		3
CMPS 222	Programming II	CMPS 122	3
ISIT 351	Software Engineering	CMPS 122	
	Software User Interface		
ISIT 353	Analysis and Design	CMPS 122	
	Software Design and Implementation with		
CMPS 324	Object-Oriented	CMPS 222	

Elective Requirements: 3 Credits (1 course) Choose 1 from electives below::

Course Code	Course Name	Pre-requisite	Credit
ISIT 248	Mobile Development	CMPS 122	3
	Advanced Web		
ISIT 350	Application Design	CMPS 122	3
	Advanced Mobile		
	Application		
ISIT 355	Development	CMPS 222	3

For students enrolled in Bachelor of Science
in Information Technology:

Core Requirements: 18 Credits (6 courses)

Course Code	Course Name	Pre-requisite	Credit
ISIT 351	Software Engineering	CMPS 122	3
ISIT 353	Software User Interface Analysis and Design	CMPS 122	3
CMPS 324	Software Design and Implementation with Object-Oriented	CMPS 222	3
ISIT 248	Mobile Development	CMPS 122	3
ISIT 350	Advanced Web Application Design	CMPS 122	3
ISIT 355	Advanced Mobile Application Development	CMPS 222	

COURSE DESCRIPTIONS



UNDERGRADUATE COURSE DESCRIPTIONS

ACCT 112: INTRODUCTION TO FINANCIAL ACCOUNTING (3 CREDITS)

The most important sources of information for analyzing an organization's financial health are the balance sheet, the income statement, and the statement of cash flows. This course examines each of these documents to determine the operational, financial, and investment decisions that the firm has made and evaluates their outcomes.

ACCT 114: MANAGERIAL ACCOUNTING (3 CREDITS)

The finances within an organization must first be understood to gain a better understanding of the business. Managerial accounting focuses on providing information to managers for use within the organization. This course will help to understand the essential financial components of businesses that are important for decision-making.

ASTR 101: INTRODUCTION TO ASTRONOMY (3 CREDITS)

This course introduces the fundamental concepts of astronomy, including the structure and formation of the universe, the solar system, stars, galaxies, and cosmic phenomena. Designed for non-science majors, this course emphasizes a conceptual understanding of astronomical principles with minimal mathematical complexity.

BIOL 100 INTRODUCTION TO BIOLOGY

This course introduces fundamental principles of Biology and the study of life. Students of Introduction to Biology will gain preliminary knowledge of the structure and function of living organisms. The aim of the course is to study and use the scientific method, scientific thinking, and quantitative reasoning to make informed decisions about experimental results in the field of Biology. Topics include (but not limited to) foundations of biochemistry, cell biology, evolution, genetics, biodiversity, ecosystems, and the interdependence of living organisms. This course includes virtual laboratory work.

BUSN 101: INTRODUCTION TO BUSINESS (3 CREDITS)

This course introduces the foundations of the forces within the business environment including the key functional areas within an organization.

BUSN 210: BUSINESS LAW (3 CREDITS)

This course provides the student with an introduction to the legal framework within which formal business organizations must operate. The course is a survey of the American legal system designed to develop a broad understanding of the fundamentals of business law including topics in law, courses and court procedures, crimes and torts, contracts, sales, and negotiable instruments.

BUSN 301: TOTAL QUALITY MANAGEMENT (3 CREDITS)

This course presents quality measurement and performance issues. The course emphasizes quality management process in business, marketing, and federal and nonprofit environment. Students learn how to manage process control, sampling plans and use of control charts. Topics in quality planning and assurance are covered.

BUSN 375: ENTREPRENEURSHIP (3 CREDITS)

Entrepreneurship is a mindset—a way of looking at things that is opportunity-focused and creative, while adding value for customers, investors, stakeholders, and society. This course introduces the fundamentals of entrepreneurship as a mindset that is practice-driven. Whether you already have an idea and are eager to start your own business, or simply want to learn more about what an entrepreneurial career would be like, this course exposes you to the challenges of entrepreneurship—from conceptualizing new ventures to developing and managing them.

CHEM 100: INTRODUCTION TO CHEMISTRY

This course introduces students to the basic principles of chemistry with an emphasis on microscopic structure and macroscopic properties of matter. Prior knowledge/study of chemistry is not required. Basic principles of chemical problem solving are introduced. These principles are shown with examples from the sciences, technology, and everyday life. Topics covered include (but are not limited to) structure of atoms, the periodic table, simple periodic properties of the elements, chemical bonding, molecular structure, properties of liquids, solutions and gases, chemical reactions. Virtual laboratory work is included.

CMPS 122: INTRODUCTION TO PROGRAMMING I (3 CREDITS)

An introductory course in programming, CMPS 122 exposes students to the concepts involved in using higher-level object-oriented programming language. The course will explain the programming process and give students lots of hands-on experience writing small programs during labs.

CMPS 202: DATA STRUCTURE & ALGORITHMS I (3 CREDITS) PREREQUISITE: CMPS 122

The objective of this course is to introduce algorithms, algorithm complexities, basic data structures, data organizations, sorting and searching algorithms. This course will also focus on the implementation details of the algorithms. Students will learn to analyze the efficiency of operations and algorithms executed on various data structures, including array, stack, queue, and linked list. The course will also cover recursion and iteration used in computer programming.

CMPS 205: DATA STRUCTURES & ALGORITHMS II (3 CREDITS) PREREQUISITE: CMPS 202

The objective of this course is to analyze the time and space requirements of important algorithms and structures. Various data structures, including trees, heaps, hash tables, and graphs will be introduced and analyzed. This course will also focus on the implementation details of the data structures and their specific algorithms.

CMPS 211: COMPUTER NETWORKS (3 CREDITS)

This course focuses on an introduction to the design and analysis of computer communication networks. Topics include application layer protocols, Internet protocols, network interfaces, local and wide area networks, wireless networks, bridging and routing, and networking frameworks (i.e., the Open Systems Interconnection (OSI) and Transmission Control Protocol/Internet Protocol (TCP/IP) models). This course prepares students with the knowledge fundamental to a career as a network administrator.

CMPS 222: PROGRAMMING II (3 CREDITS) – PREREQUISITE: CMPS 122

This course offers a continuation of the programming skills learned in CMPS 122. Students will learn more advanced applications of a programming language through lab work and independent assignments. Topics include Graphical User Interface, File I/O, Exception, Database Programming, Networking Basics, and Multi Thread Programming.

CMPS 226: INTRODUCTION TO DATA SCIENCE (3 CREDITS)

A first course in data science. Introduces data science as a field, describes the roles and services that various members of the community play and the life cycle of data science projects. Provides an overview of common types of data, where they come from, and the challenges that practitioners face in the modern world of “Big Data.” Introduces the interdisciplinary mixture of skills that the practice requires.

CMPS 230: INFORMATION VISUALIZATION (3 CREDITS) - PREREQUISITE: CMPS 122

This course introduces the foundation and the state of the art of information visualization that explores and reflects on the design, application, and evaluation of a diverse range of information systems. Students will demonstrate how a number of common types of information can be visually, intuitively and interactively represented. The course provides a first-hand experience of visualizing a variety of realistic data types.

CMPS 310: INTRODUCTION TO ARTIFICIAL INTELLIGENCE (3 CREDITS) - PREREQUISITE: CMPS 202

This course covers fundamental concepts and algorithms of artificial intelligence (AI) and its techniques, including search heuristics, knowledge representation, planning, reasoning, and learning to underline the design of intelligent computer systems. Students will learn to implement autonomous mechanisms that fully or partially observe involved factors for automatic decision-making. The course introduces students to various techniques, including search methods, machine learning, natural language processing, robotic mechanisms, and computer vision.

CMPS 315: OPERATING SYSTEMS (3 CREDITS) – PREREQUISITE: CMPS 122

This course examines the important problems in operating system design and implementation. The operating system provides an established, convenient, and efficient interface between user programs and the bare hardware of the computer on which they run. The operating system is responsible for sharing resources (e.g., disks, networks, and processors), providing common services needed by many different programs (e.g., file service, the ability to start or stop processes, and access to the printer), and protecting individual programs from interfering with one another. The course will start with a brief historical perspective of the evolution of operating

systems over the last fifty years and then cover the major components of most operating systems. This discussion will cover the tradeoffs that can be made between performance and functionality during the design and implementation of an operating system. Emphasis will be given to three major OS subsystems: process management (processes, threads, CPU scheduling, synchronization, and deadlock), memory management (segmentation, paging, swapping), and file systems; and on operating system support for distributed systems.

CMPS 318: DATABASE MANAGEMENT SYSTEMS (3 CREDITS)

Main objective is understanding database management systems and creating efficient database schemas according to normalization theory. This course covers E-R modelling, database design, relational databases, SQL, relational languages, query optimization, query processing and XML.

CMPS 320: COMPUTER FORENSICS (3 CREDITS)

Computer Forensics and Investigation presents principles and techniques of conducting computing investigations. Computer forensics involves obtaining and analyzing digital information for use as evidence in civil, criminal, or administrative cases. Topics include ethics, current computer forensics tools, digital evidence controls, processing crime and incident scenes, data acquisition, e-mail investigations, and becoming an expert witness. Hands-on experience, using a forensic software package will be part of the course.

CMPS 322: MACHINE LEARNING AND PATTERN RECOGNITION (3 CREDITS) PREREQUISITE: CMPS 202

Machine learning is one of the fastest growing areas of computer science, with far-reaching applications. The aim of this course is to introduce machine learning, and the algorithmic paradigms it offers, in a principled way. The course provides an extensive theoretical account of the fundamental ideas underlying machine learning and the mathematical derivations that transform these principles into practical algorithms. Following a presentation of the basics of the field, the course covers a wide array of central topics that have not been addressed by previous courses. These include a discussion of the computational complexity of learning and the concepts of convexity and stability; important algorithmic paradigms including stochastic gradient descent, neural networks, and structured output learning; and emerging theoretical concepts such as

the PAC-Bayes approach and compression-based bounds.

CMPS 324: SOFTWARE DESIGN AND IMPLEMENTATION WITH OBJECT-ORIENTED (3 CREDITS) PREREQUISITE: CMPS 222

This course covers in-depth object-oriented programming (OOP), including encapsulation, polymorphism, and inheritance for software design and implementation. Students will learn various advanced techniques of data abstraction, typing, access control, File/IO, exception handling, event handling, and concurrency. OOP project focuses on using advanced software design and development techniques.

CMPS 332 - ANALYSIS OF ALGORITHMS (3 CREDITS) – PREREQUISITE: CMPS 205

The objective of the course is to introduce the fundamental mathematical tools needed to analyze algorithms, basic algorithm design techniques, advanced data structures, and important algorithms from different problem domains.

CMPS 337: INFORMATION RETRIEVAL SYSTEMS (3 CREDITS) PREREQUISITES: MATH 110 & CMPS 122

The theoretical underpinnings of information retrieval are covered to give the student a solid base for further work with retrieval systems. Emphasis is given to the process of textual information for machine indexing and retrieval. Aspects of information retrieval covered include document description, query formulation, retrieval algorithms, query matching, and system evaluation.

CMPS 350: CYBER SECURITY LAW (3 CREDITS)

This course will provide a basic introduction to all aspects of cybersecurity, including business, policy and procedures, communications security, network security, security management, legal issues, political issues, and technical issues. This course serves as the introduction to the cyber security track in information security management, which allows students to recognize security frameworks, complexities of cyber laws, and various real-world implications.

CMPS 411: INTRODUCTION TO DEEP LEARNING (3 CREDITS) – PREREQUISITE: CMPS 202 & MATH 104

This course covers the context of deep learning associated with artificial intelligence and machine learning. Students will examine the theories and practices of neural networks, automatic encoders & decoders, natural language processing, and generative adversarial networks, including practicing the technical aspects of deep learning using innovative machine-learning software frameworks. The course also introduces to students various open-source tools such as Keras and TensorFlow for machine learning tasks and constructions of deep learning algorithms.

CMPS 426: BIOINFORMATICS (3 CREDITS) – PREREQUISITE: MATH 110

This course covers computational techniques for mining the large amount of information produced by recent advances in molecular biology, such as genome sequencing and microarray technologies. The methods by which computers are used to manipulate and analyze sequences and structures will also be taught. The outline of the course is arranged to give fundamental concepts of bioinformatics to the students.

CMPS 433: GAME PROGRAMMING (3 CREDITS) – PREREQUISITE: CMPS 205

This course will support students with the emerging trends, and frameworks of gamification, why it has a great potential to apply in IT projects, and how to use it effectively. The course allows students to develop a set of practical skills in using game elements using industrial case studies. Students will understand practical ways for improving a software development business particularly by understanding ways of creating an effective IT solution and exploring the intangible value in business landscapes. Unity game engine will be used as the development environment.

CMPS 438: EXPLORATORY DATA ANALYTICS (3 CREDITS) – PREREQUISITE: CMPS 226

In this course students learn the essential exploratory techniques for summarizing and analyzing data. The course discusses how to install and configure software necessary for a statistical programming environment. It covers practical issues in statistical computing, which includes programming in R and how to use R for effective data analysis. The course covers the plotting systems in R and some of the basic principles of constructing data graphics.

CMPS 477: IMAGE PROCESSING (3 CREDITS) – PREREQUISITE: CMPS 230

This course is an introduction to the fundamental concepts and techniques in basic digital image processing and their applications to solve real life problems. The topics covered include Digital Image Fundamentals, Image Transforms, Image Enhancement, Restoration and Compression, Morphological Image Processing, Nonlinear Image Processing, and Image Analysis. Application examples are also included.

CMPS 480: BIG DATA (3 CREDITS) – PREREQUISITE: CMPS 318

This course will provide insight into the basics of using "Big Data" to quantify operational implications of management choices. You will learn statistical models, mostly using R software, and analyze them to provide insight regarding the assumptions, value drivers, and risks present in a business situation. You will use your statistical models to explore different ways to think about uncertainty, guide decision-making, and persuasively communicate analytical results. Later in the course, by using the statistical tools learned, we will examine simple, introductory methods to text mining, building search engines and recommendation tools.

COMM 101: FUNDAMENTALS OF PUBLIC SPEAKING (3 CREDITS)

This foundational Public Speaking course is designed to equip students with skills and knowledge to communicate in a public setting confidently and effectively. This course provides students with the tools and techniques to deliver compelling speeches, engage audiences and convey a message with clarity and impact. Through theoretical concepts, practice exercises and interactive activities, students will learn various techniques of public speaking including speech preparation, delivery, managing stage fright, and connecting with different types of audiences.

COMM 220: INTERPERSONAL COMMUNICATION (3 CREDITS)

Interpersonal communication is a dynamic and essential skill for effective human interaction. This course is designed to provide students with a comprehensive understanding of the principles, theories, and practical applications of interpersonal communication in various contexts including the influence of technology on interpersonal communication, exploring the challenges and opportunities presented by digital communication platforms, social media, and virtual interactions.

Students will explore the fundamental components of interpersonal communication, including verbal and nonverbal communication, listening skills, perception, self-disclosure, conflict resolution and develop an awareness of how these elements influence relationships and impact the communication process. The course delves into various theoretical frameworks, such as social exchange theory, relational dialectics, and cultural perspectives equipping students to build and maintain healthy relationships, resolve conflicts constructively, adapt communication style to diverse contexts and engage in effective interpersonal communication in personal, professional, and societal settings.

COMM 250: MEDIA LITERACY IN THE AGE OF FAKE NEWS (3 CREDITS)

Media Literacy is the ability to access, analyze, evaluate and create media in a variety of forms, from print to video to the Internet. This course aims at building an understanding of the role of media in society as well as essential skills of inquiry and self-expression necessary for citizens of a democracy. Upon completion of the course, students are expected to become competent, critical and literate in all media forms so that they control the interpretation of what they see or hear rather than letting the interpretation control them.

ECON 101: INTRODUCTION TO MICROECONOMICS (3 CREDITS)

Microeconomics deals with the behavior of companies and individuals that determines the choices they make in the allocation of resources. This course examines the concepts of supply, demand, market equilibrium, and competition and the impact that external forces such as taxation, government policy, and globalization have on them.

ECON 111: INTRODUCTION TO MACROECONOMICS (3 CREDITS)

Macroeconomics deals with the total of all economic activity within a nation. This course examines such issues as economic growth, inflation, unemployment, savings, and investment to understand how these factors interact to impact the business cycle and overall national income.

ECON 221: INTERMEDIATE MICROECONOMICS (3 CREDITS) – PREREQUISITE: ECON 101

Building on the material covered in ECON 101, this course examines consumer behavior, production costs, and price and output analysis in both

competitive and monopolistic market situations.

ECON 222: INTERMEDIATE MACROECONOMICS (3 CREDITS) – PREREQUISITE: ECON 111

This course builds on the foundational principles of Macroeconomics to provide students with a deeper understanding of macroeconomic concepts and theories. The course provides tools of macroeconomics which are applied to the real economic policy issues. The course also examines topics such as economic growth, the monetary system, aggregate demand, and the Mundell-Fleming model to understand how macroeconomic theories are used to provide useful economic insights.

ECON 251: INTERNATIONAL ECONOMICS (3 CREDITS) – PREREQUISITE: ECON 111

Traditionally the economic relationship between nations was based on trade, but today the situation is complicated by financial (exchange rates, monetary and fiscal policies), political (protectionism, tariffs), and social (unemployment, migration) issues associated with trade. This course examines the economic impact of those factors on the economies of various nations.

ECON 315: POLITICAL ECONOMY (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

This course presents the theories and methodologies of studying the political economy alongside descriptions of relevant institutions. This course helps students understand and analyze the characteristics of domestic and global businesses, government policies, and inter-state relations and their effects on individuals, societies, and environments. The course will focus on the contemporary structure of the political economy and will discuss controversial topics, including different theories about optimal economic and social development in both mature and emerging economies.

ECON 336: GAME THEORY (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

The application of game theory to economics provides an insight into the decisions and choices that people make. This course will explore concepts such as Pareto Optimums and Nash Equilibriums that systematize the analysis of economic decision making. Basic theorems, selection strategy, rectangular games and solution techniques will be provided.

ECON 353: GLOBALIZATION & THE WORLD ECONOMY (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

This course seeks to examine the historic development of globalization and the many contemporary understandings of what exactly globalization means for the world, with a focus on economic development. The concept of globalization is a contested one, and in this course, students will learn about the different ideas and conceptualizations of globalization. The course will address the major debates relating to economic interdependence, development and growth, the patterns of international trade and investment, global financial markets, and the role of major multilateral political and economic institutions such as the UN, the World Bank and IMF in promoting globalization.

ECON 371: THE DEVELOPMENT OF ECONOMIC THOUGHT (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

The systematic analysis of the economy and the factors that affect it only dates back 250 years. This course explores the beginnings of that analysis, and the social, political, and technological factors that have shaped the thinking of economists over the past two centuries and have resulted in our current understanding of economics.

ECON 432: MONEY AND MARKETS (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

Monetary policy drives the allocation of funds to the various financial markets for bonds, stocks, and commodities; this allocation, in turn, has a determining effect on many economic parameters. This course examines how monetary policy (money supply, interest rate targets, Federal Reserve regulations) impacts GDP growth, interest rates, and inflation, and the role that monetary policy has played in recent asset price bubbles and financial crises.

ECON 435: PUBLIC FINANCE & THE ECONOMY (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

Although they may disagree about appropriate government policies, all economists would agree that those policies have an immense influence on the economy. This course examines how the methods that governments use to finance themselves (taxes, tariffs, debt) and the expenditures that they make (social spending, capital investment, and subsidies) can impact and distort a totally free-market economy

ECON 437: ECONOMETRICS I (3 CREDITS) – PREREQUISITE: MATH 110

Econometrics is a branch of economics concerned with the use of economic theory, mathematics, and statistics to estimate economic theories and test economic variables. The main objective of this course is to introduce students to econometric tools and their applications in economic analysis and policymaking. Throughout the semester, students will test economic theories, providing estimates of the coefficients of variables using real-world data. The focus of the course will be on simple Linear Regression, Multiple Linear regression, Panel Data, and Time Series analysis.

ECON 438: ECONOMETRICS II (3 CREDITS) – PREREQUISITE: ECON 437

The course deals with econometric methods and applications designed for the analysis of cross-section and panel data models. It can be viewed as a course in microeconometrics, since we cover methods that are most often used in empirical microeconomic research. The main topics covered are maximum likelihood & GMM methods, panel data models, semiparametric and nonparametric methods, limited dependent variable models, and qualitative response models. Single as well as simultaneous equations models will be treated. Important topical applications will be treated.

ECON 440: ECONOMICS OF INTERNATIONAL DEVELOPMENT (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

Developing countries have followed various paths to achieve a modern economy; some efforts (e.g. Singapore) have been extremely successful, while others (e.g. Zimbabwe) have been abject failures. This course examines those pathways to discover the institutions, policies, and practices that have determined the economic outcomes in various developing countries.

ECON 456: INTERNATIONAL FINANCIAL CRISES (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

For the past 25 years, the world seems to have lurched from one financial crisis to the next without respite. This course examines the causes and effects of some of the most dramatic past and current international financial crises: the Asian economic crisis of 1997, the Mexican economic crisis of 1982, Japan's Lost Decade, the collapse of the Russian ruble, the Great Recession, the Eurozone crisis, the Italian bank crisis, and Brexit.

ECON 473: KEYNES VS. FRIEDMAN (3 CREDITS)
– PREREQUISITE: ECON 101 & ECON 111

The last 100 years have seen a grand historical debate between two schools of economic thought represented by John Maynard Keynes and Milton Friedman. This course examines the origin of both schools and the cyclic ebb and flow between them: at first one side dominates but then fails to explain unprecedented economic circumstances; therefore, the other side becomes dominant, only to suffer the same fate.

ECON 479: HEALTH CARE ECONOMICS (3 CREDITS) – PREREQUISITE: ECON 101

Health policy is examined from an economic perspective. Basic economic theories and their relationships to the structure and function of the US health care system are explored. Alternative health care systems and health care reforms are also evaluated.

ECON 480: LABOR ECONOMICS– PREREQUISITE: ECON 101 & ECON 111

This course is about the study of labor markets, business-employment relations, and the different experiences of various workers based on gender, race, ethnicity, etc. Theories of labor supply, labor demand and wage determination are presented and empirical evidence on them is examined. Further topics include the determinants of wage differentials, the role of unions in wage determination, the impact of minimum wage legislation, human capital effects on employment and salaries, the economics of immigration, and how labor market discrimination affects wages and employment opportunities.

ECON 481: EDUCATION AND ECONOMIC DEVELOPMENT (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

This course is an introduction to the economics of education. The central aim of the course is to assist students in viewing the education “industry” and its educational processes through the perspective of economics. Several tools of economic analysis are used to address the links between education and economic growth, consumption, investment, employment, and equity. Students are afforded an opportunity to examine an important issue related to the economics of education, which helps them to become more knowledgeable about the economics of education literature and learn how to apply the tools of economic analysis to an important policy issue.

ENGL 095: ACADEMIC READING & SPEAKING

Academic study requires that undergraduate students read, comprehend and discuss academic texts. Students enrolled in this course will be taught how to present their own ideas clearly and concisely in an academic register. The aim of this course is to enhance/improve the reading and speaking abilities of students who are studying for an undergraduate degree at BAU. This will be accomplished by reading, analysis, discussion, and presentations by students of different types of academic texts. Course materials vary by instructor.

ENGL 121: ENGLISH COMPOSITION I (3 CREDITS)

This course teaches fundamental college writing skills in conjunction with developing the student’s ability to organize ideas and use critical thinking skills. The course will also review English grammar and writing mechanics. Students will learn to construct persuasive arguments and critical essays. The students will participate in the peer-review and editing processes; and learn proper use of APA style citations.

ENGL 122: ENGLISH COMPOSITION II (3 CREDITS) – PREREQUISITE: ENGL 121

This course is open to students with high scores on the BAU English composition test. ENGL 122 develops the student’s ability to organize ideas and use critical thinking skills. The course will also review English grammar and writing mechanics. Students will learn to construct persuasive arguments and critical essays. They will practice personal reflection; analyze literature, film, and journalism; participate in the peer-review and editing processes; and learn about proper use of citations. Course materials may vary by professor.

ENGL 123: ACADEMIC WRITING (3 CREDITS) - PREREQUISITE: ENGL 122

This course is open to students with high scores on the BAU English composition test, or students who have completed ENGL 121. Academic writing and research abilities are essential for college students and professionals. During this course, students will hone their research skills and complete a short research paper on a subject of their own choice. Throughout the course, students will participate in peer-review, learn to create research paper outlines and drafts, learn to use citations properly, and learn about research and writing resources at BAU and around D.C.

ENGL 324: TECHNICAL WRITING & PRESENTATION SKILLS FOR ECONOMICS & FINANCE (3 CREDITS) – PREREQUISITE: ENGL 123

Economists and finance managers communicate a great deal. Many are called upon to make presentations to conferences, to write opinion pieces for newspapers, and appear on television to analyze current events. In addition, they compose internal memos and reports that influence the direction of their organizations. This course is designed to familiarize students with the current communication trends in all those areas. Students will have the opportunity to develop their communication skills by learning the jargon of the discipline, focusing on real-world topics, videoing their presentations, and having their work product reviewed by peers.

ENVS 105: INTRODUCTION TO ENVIRONMENTAL SCIENCE (3 CREDITS)

According to the US National Oceanographic and Atmospheric Agency, 2016 was the warmest year on record. According to NASA, it was the warmest year for the last 125,000 years. How has human activity affected the climate so dramatically? This and other vital questions about pollution, how the environmental system operates, and the interaction between the oceans, the atmosphere, and the land will be addressed in this course.

ENVS 220: ENVIRONMENTAL SUSTAINABILITY (3 CREDITS)

There has been an increasing awareness of Environmental Sustainability. With shrinking and degrading natural resources and capital, humans face many direct and indirect consequences, such as food security, climate change, and epidemics. The solution encompasses striving for the well-being of people and the planet. Understanding why and how Environmental Sustainability can solve humanity's many challenges has become critically important. Sustainability initiatives drive social and environmental change and significantly contribute to our collective success. This course aligns with the United Nations 17 Sustainable Development Goals (SDGs). Environmental Sustainability is an applied Environmental Science course and builds on the foundational course ENVS 105: Introduction to Environmental Science. Course material will cover topics such as Trends in Human Population, Excessive Consumption and Materialism, Resilience and Socio-Ecological Systems, Ecological Overshoot and Collapse and Properties of Sustainable Societies.

FINC 221: INTRODUCTION TO FINANCIAL MANAGEMENT (3 CREDITS)

To maximize future profits, firms need to make several interrelated strategic financial decisions. This course examines the impact of decisions in corporate capitalization (debt vs. equity), operations (fixed-asset investments vs. outsourcing), budgeting of financial resources, and monitoring of assets and liabilities on the profitability of the firm.

FINC 222: FINANCIAL MARKETS AND INSTITUTIONS (3 CREDITS) – PREREQUISITE: FINC 221

This course introduces financial institutions and dynamics between the public and private sectors. It begins with an overview of the role of financial intermediation. Students learn of inherent risks and fragilities of international financial institutions, along with the safeguards that have been established to mitigate them, both nationally and internationally. It reviews the development of and interaction between international and domestic financial markets, as well as the evolving relationship between the public and private sectors.

FINC 224: CORPORATE FINANCE I (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

This is the first course of two consecutive corporate finance courses in the second year which aims to provide the student with the basic tools for making financial decisions. This course will introduce the student to basic financial theory and concepts of corporate finance. This course will also ensure an understanding of the relationship between financial theory and its practices. It will cover some of the theory and practice of decision-making within the corporation. More of the emphasis will be on financial valuation, capital budgeting and cash flow analysis.

FINC 225: CORPORATE FINANCE II (3 CREDITS) – PREREQUISITE: FINC 224

The purpose of this course is to introduce basic concepts of financial management with special attention to corporate financial decisions. The course will focus on (1) the capital budgeting process, (2) dividend and capital structure policies of the firm, (3) the basics of risk management, (4) how derivatives can be used to hedge financial risks, (5) the rationale for mergers, different types of mergers, and merger analysis, (6) the pros and cons of the hybrids from the standpoints of both issuers and investors, how to determine when to use them, and the factors that affect their values.

FINC 331: FINANCIAL ANALYSIS (3 CREDITS) – PREREQUISITE: FINC 221

An analysis of a firm's financial documents (Balance Sheet, Income Statement, Retaining Earnings and Statement of Cash Flows) can provide detailed insight into its financial health. Using this data as a platform, the course explores the use of trend analysis and financial models for financial planning to achieve greater stability, growth, and profitability insofar as share price increases.

FINC 373: MONETARY THEORY AND POLICY (3 CREDITS) – PREREQUISITE: ECON 101 & ECON 111

The objective of this course is to give students the understanding and the intuition regarding the possible monetary policy designs.

FINC 421: INVESTMENT STRATEGIES (3 CREDITS) – PREREQUISITE: FINC 221

The course is divided into two parts. The first part is an introduction to the organization and properties of international and national security markets such as NYSE, SEC, OTC and ISE (Istanbul Stock Exchange). The first part also covers short sales and margin transactions in ISE, capital increase and basic information about stock splits. The second part of the course begins with fundamental analysis, effective use of financial ratios, then puts emphasis on CAPM, APT, portfolio theory and firm valuation models. The main objective of this course is to study fundamental concepts of investment theory in financial markets and to analyze the financial statements of firms.

FINC 431: DERIVATIVE MARKETS (3 CREDITS) – PREREQUISITE: FINC 221

The main objective of this course is to provide students with a basic understanding of derivative-related financial instruments (forwards, futures and options) and their use in investment and corporate financial management.

FINC 432: FINANCIAL MARKETS (3 CREDITS) – PREREQUISITE: FINC 221

This course focuses on the role that financial markets play in business and in the economy and provides an understanding of the underlying institutions that either help financial markets work well or that interfere with the efficient performance of these markets. Topics include the valuation of various financial assets and an introduction to basic derivative markets (futures, forward, options). This course analyzes the most important factors leading to financial crises and following supervisory and

regulatory responses.

FINC 455: INTERNATIONAL FINANCE (3 CREDITS) – PREREQUISITE: FINC 221

In the age of globalization, an in-depth understanding of the international financial arena is critical to the operations of multinational corporations. This course explores various risk factors associated with foreign direct investment (FDI) activities: foreign exchange risk, political risk, and operational risk. In addition, the course examines how international capital markets, foreign government FDI regulations, international central bank policies, purchasing power parity (PPP), and Islamic banking impact FDI decisions.

FREN 101: ELEMENTARY FRENCH I (3 CREDITS)

An introduction to the French language for students with no prior experience. Students will practice reading, writing, listening, and speaking French. Cultural instruction on the Francophone world will also prove a foundational aspect of this course.

FREN 121: ELEMENTARY FRENCH II (3 CREDITS) – PREREQUISITE: FREN 101

A continuation of the reading, writing, listening, and speaking abilities introduced in FREN 101. Students will learn more about Francophone cultures. By the end of this course, students will be able to carry a conversation in French.

GNAI 180: INTRODUCTION TO GENERATIVE AI & PROMPT ENGINEERING (3 CREDITS) – PREREQUISITE: ENGL 121

This course is designed to introduce undergraduate students to the fundamental concepts and practices of Generative AI and Prompt Engineering through an active, hands-on learning approach. Students will explore the history, basic principles, and real-world applications of AI, with a focus on ethical considerations. By the end of the course, students will have developed basic skills in designing AI prompts, using AI tools, and understanding the broader implications of AI technologies in society.

HIST 170: UNITED STATES HISTORY (3 CREDITS)

This course will explore the history of the United States from its origins in the eighteenth century to 9/11. The course will explore topics such as indigenous cultures, colonialism, slavery, and immigration; the Enlightenment and early American democracy; capitalism, plantation labor, and industrialization; abolitionism, the Civil War, and Reconstruction; the World Wars, the Civil Rights Movement, and the Cold War; and, finally, the effects

of 9/11 on American society. Overall, students will leave the course with a firm understanding of the complex dynamics of race, gender, migration, politics, and economics in American society. Students will learn to think critically about primary and secondary sources, including works of writing, art, music, and literature, and will conduct independent research. They will also improve their written and oral communication abilities.

HIST 180: WORLD HISTORY AND CIVILIZATIONS (3 CREDITS)

This course develops a basic understanding of the history of major world cultures. The course provides a broad picture that deals with the nature and spread of the earliest civilizations in the Ancient Near East and the development of civilization in classical and medieval Europe, concerning their political, social, economic and religious life; focuses on the globalization process of the civilization. The course, therefore, provides an important overview of cultures and meetings between cultures and how these cultures constantly move towards an integrated society.

HIST 200: POLITICAL CHANGE & ISLAMIC REFORM (3 CREDITS)

The Islamic world particularly the Middle East has been in continuous political change for the last two decades. At the center of these dramatic changes is the challenge for Islamic reform particularly regarding how Islam plays into the daily lives of Muslim citizens. This course will review the efforts of Islamic reform from the early 19 century to the 21 century including teachings from the scholars like Muhammad Abduh in the late 19 century. The course will focus on the major three concepts advanced by Islamic thought of Equality, Freedom, and Justice. A special focus will be on how these concepts were interpreted and applied in both political and social contexts.

INTL 161: UNITED STATES DIPLOMATIC HISTORY (3 CREDITS)

Diplomacy is concerned with the management of relations between states and other non-state actors, such as international organizations, global NGOs, and more. Though diplomacy is often thought of as being concerned with peaceful activities, diplomatic activity often does occur within war or armed conflicts. The aim of this course is to introduce students to how international relations have been conducted throughout modern

history, while offering a diplomatic perspective on wars and conflicts.

The course covers major world wars and key chapters in international relations history, starting at the turn of the 20th century, and ending in present times. In this course, students will be able to analyze topics such as the Two World Wars, decolonization, the rise and fall of communism, and the Cold War.

INTL 220: INTERNATIONAL HUMAN RESOURCES MANAGEMENT (3 CREDITS)

This course surveys the principles and methods of effectively managing people in a work environment. It includes the recruitment, selection, development, utilization of, and accommodation of people by organizations. The course also focuses on how MNC manage HR and their responsibilities when doing business with their host countries. Employee motivation and contemporary personnel management issues are examined in terms of the impact they have on organizational effectiveness, goal attainment, sustainability, and overall performance.

INTL 257 INTERNATIONAL RELATIONS (3 CREDITS)

This course will introduce students to the main theories of international relations and facilitate critical applications of these theories to a range of substantive issue areas. After completing this course students will understand key concepts, theories, and empirical trends in IR. The 'map of the modern world component will ensure that students will learn political geography, including the location and capital cities of all countries of the world, and display cognizance of outstanding political/territorial disagreements and other controversies between states.

INTL 270: GLOBAL PUBLIC HEALTH (3 CREDITS)

This course introduces students to the role that public health plays in international affairs. Students will examine contemporary global health concerns and how these global health concerns affect society and politics, including infectious disease, obesity and hunger, women's reproductive health, access to medical care, and environmental factors. The course will then move on to discuss successful and unsuccessful attempts to solve these public health issues through diplomacy, foreign aid, and through the efforts of international organizations. Finally, students will conduct a research project on one global health issue and will propose a solution to that

problem.

INTL 272: UNITED STATES FOREIGN POLICY (3 CREDITS) – PREREQUISITE: INTL 257

This course will take a close look at United States foreign policy since 9/11. It will examine the United States' attitudes toward the Middle East, Asia, Africa, Europe, and Latin America, and the efforts it has made in diplomacy and through direct and proxy military engagement in Iraq, Afghanistan, Libya, Syria, and elsewhere. The course will also cover the role of the US in shaping global policies toward issues like terrorism, climate change, human rights (including women's rights and LGBT rights), illicit drug production and trades, free trade, the democratization of foreign states, and peacekeeping efforts. Students will also analyze major multilateral agreements made by the US, UN, NATO, and other nations and international organizations, such as the 2015 Iran Nuclear Deal and the 2016 Paris Climate Accord. Finally, students will gain an understanding of the transformation and continuity of foreign policy during the Bush, Obama, and Trump administrations. This course will include field trips to the US Department of State and other locations in the Washington, D.C. area.

INTL 300: CYBERSECURITY (3 CREDITS)

Cybersecurity has become a significant concern in all industries around the world. The interconnection of the Internet has provided a borderless realm of global connection, which increases possibilities of digital vulnerabilities to all entities (i.e., individuals, businesses, public and private sectors, and government agencies). International cyber security policies are essential factors that require a stable collaboration from different countries to form a robust defensive mechanism. This course focuses on conflicts and international issues regarding cyber security and explores potential strategies and policies that may encourage global entities for the development of international agreements for safer and more secure cyberspace. Students will learn various subjects from technological and policy aspects of cyber security regarding foreign affairs, including cyber warfare, cyber diplomacy, cybercrime, cyber law, and cyber intelligence, etc.

INTL 339: INTERNATIONAL ORGANIZATIONS (3 CREDITS) – PREREQUISITE: INTL 257

This course serves as an introduction to international organizations. Understanding international organizations is essential to understanding the complex interdependence of world politics. After

completing this course students will be able to: define and classify international organizations; recognize the fundamental theoretical approaches concerning the roles of international organizations in international politics; understand the historical and intellectual roots of the League of Nations and United Nations; and understand the basic organs, functions and roles of other significant international organizations, including the EU and NATO

INTL 340: TRANSNATIONAL CORPORATIONS (3 CREDITS)

Transnational corporations, which have their headquarters in one country but operate out of multiple, have been a staple of the global economy since the East India Companies of the seventeenth century. This course will consider the role of transnational corporations, such as Coca Cola, Walmart, Toyota, and others, in the modern global economy. It will also examine the political and social influence of corporations like United Fruit, which acted as agents of foreign powers.

INTL 348: INTRODUCTION TO INTERNATIONAL HUMAN RIGHTS (3 CREDITS)

This course will explore the philosophical and political meaning of fundamental human rights. It will analyze cases of human rights violations--such as jailing of journalists, dissidents and opposition leaders; genocide in the Holocaust, Rwanda, Kosovo, and Cambodia; the use and abuse of the death penalty; female genital mutilation; violations of workers' rights; and torture. It will also examine the role that states, international organizations, international tribunals, and individuals can play in ending human rights abuses. Course readings may include contemporary theories of human rights and case studies on the enforcement of rights around the world.

INTL 350: U.S. AND EUROPE (3 CREDITS) – PREREQUISITE: INTL 272

This class will examine the modern diplomatic relationship between the U.S. and Europe since the Cold War. It will consider the influence of NATO, the EU, the former Soviet Union, and the so-called "special relationship" between the US and the UK. Students will gain an understanding of the contemporary dynamics of these relationships and what predictions analysts make for the future.

INTL 351: U.S. & THE MIDDLE EAST (3 CREDITS)
PREREQUISITE: INTL 272

This course exams the historic and contemporary relationship between the United States and the Middle East (both as a whole and with respect to individual countries in the region), focusing on the post-World War II era. Students will gain a greater understanding of the domestic forces which contribute to the formulation of the US's Middle East policy, and will acquire a better perspective of the problems, challenges, and future potential of US-Middle East Relations, including such issues as support for the State of Israel, radical Islam, regional conflict, energy politics, and immigration and refugee crises.

INTL 352: U.S. AND ASEAN (3 CREDITS) –
PREREQUISITE: INTL 272

ASEAN, or the Association of Southeast Asian Nations, includes Indonesia, Malaysia, the Philippines, Singapore, Brunei, Cambodia, Thailand, Vietnam, Laos, and Myanmar. In this class, students will first learn about politics, economics, and social concerns in these up-and-coming nations, and their relationship with the United States.

INTL 353: U.S. AND BRIC (3 CREDITS) –
PREREQUISITE: INTL 272

Brazil, Russia, India, and China, or the “BRIC” nations, are four rapidly developing nations with major potential. In this class, students will examine the role of these nations in the modern world economy and will also understand the importance of the fall of Communism in global politics. Students will also look at the relationship of the United States with these countries.

INTL 354: INTERNATIONAL DEVELOPMENT AND
EMERGING MARKETS (3 CREDITS)

This course introduces the fundamentals of international development and analyzes the global environments in which this pursuit is conducted. It explores the history, evolving definitions, theories, management, and synergies of international development. This course describes the major international donors, bilateral and multilateral and their development strategies, budgets and goals. The course also explores tools of information, policy, and sustainability. Additionally, an overview of legal, ethical, and cultural competency issues in international development is provided.

INTL 355: LATIN AMERICAN POLITICS (3
CREDITS) – PREREQUISITE: INTL 272

In this course, students will examine the comparative politics of Mexico, Cuba, and other Latin American countries as a means of understanding the political issues of South America, Central America, and the Caribbean. Students will learn about the political structures of these countries, their economic development, migration, indigenous and women's rights, public health, Catholicism and evangelism, and other major socio-political concerns of these nations. Finally, students will learn about the roles of Mexico, Cuba, and other Latin American in non-governmental organizations like NAFTA and the UN, and their major foreign policy objectives.

INTL 370: GENDER, DEVELOPMENT &
GLOBALIZATION (3 CREDITS)

This course introduces major issues facing women and men around the world who are marginalized by inequitable structures and processes of globalization. Students will investigate case studies within the context of international development, drawing particularly on concepts regarding gender and development and critical globalization. Students will develop valuable social science research skills and will discuss and debate critical issues. Upon successful completion of the course students will be able to: analyze and describe dynamic relationships among global and local economies and socio-cultural processes; identify and describe processes and relationships that produce gender-based inequalities; apply key concepts in the fields of international development and gender and development; and utilize qualitative social science research methodologies.

INTL 388 TRANSNATIONAL THREATS (3
CREDITS)

What sorts of transnational security challenges do states face in the information age, and how do they manage these threats? Global threats such as nuclear proliferation, climate change, environmental degradation, refugee streams, or infectious diseases do not stop at national borders. Terrorist and criminal networks not only transcend international borders, but also go beyond traditional state jurisdictions and stove-piped hierarchies. This course will analyze the nature of the challenges and look at the policy, legal, and institutional mechanisms the United States and other countries have found/must find to manage and counter these threats.

INTL 430: INTERNATIONAL CRISIS DIPLOMACY (3 CREDITS)

This course will focus on the methods of crisis diplomacy by taking a close look at specific examples in the Middle East, Central America, and Southeast Asia. These crises might include political crises, terrorism, natural disasters, and economic crises. Students will learn about the practices of mitigating crises, preventing potential crises, and handling crisis aftermath through case studies, and will also learn about the potential roles of governments, non-governmental organizations, and international organizations in handling these situations. For the final exam, students will undertake a simulation to handle an international crisis.

INTL 451 WORLD POLITICS AND WORLD ORDER (3 CREDITS) – PREREQUISITE: POLS 101

World politics is the study of how states interact with each other. This course builds an understanding of our field, introducing the background, theoretical, and empirical tools necessary to understand international relations today. Students will learn about important findings in a variety of subfields, including war, international political economy, institutions, nuclear proliferation, and terrorism.

INTL 459: INTERNATIONAL SECURITY (3 CREDITS)

This course will familiarize students with some of the major theoretical issues in the study of international security, and some of the central challenges shaping current debates about security and the use of force. War and conflict have been central to international politics throughout history. The study of security investigates causes of war, strategies for avoiding conflict, and the impact of new technologies, actors, and ideas on calculations about the use of force. This course will also consider how international law has dealt with the legality of the use of force to settle international disputes. This course will give students a solid grounding in current theoretical issues and security challenges in the international arena. It will encourage them to think about how an understanding of these issues can help them address existing security problems affecting the world community.

INTL 460: GLOBAL IMMIGRATION & ASYLUM POLICY (3 CREDITS) – PREREQUISITE: INTL 348

According to the United Nations High Commission on Refugees, the 2010s have seen the highest numbers of refugees, displaced people, and stateless people in human history—nearly 80 million people total.

Whether driven by climate change, socio-political unrest, economics, or violence, these people universally have to navigate complex systems of immigration and asylum policies worldwide. For lawmakers, the influx of refugees and migrants presents the challenge of enacting swift policies that enforce human rights and transnational security. In this course, students will learn about some of the largest legal and political problems involving migrants and refugees today. In particular, the course will focus on Syrian refugees in the EU and Turkey; South Sudanese and Central African refugees in Uganda and Rwanda; Central American refugees in the US; and Rohingya refugees in Southeast Asia and Australia. Students will learn about the efforts of governments and non-governmental organizations to create and enact migration and asylum policies.

ISIT 112: INTRODUCTION TO INFORMATION TECHNOLOGY (3 CREDITS)

This course introduces basic issues in information science, including the nature of information, information technology, information security, information policy, information ethics, and the relationships between information technologies and the information context.

ISIT 224: INFORMATION SYSTEMS ANALYSIS AND DESIGN (3 CREDITS)

This course focuses on the techniques and methodologies used in Information Systems Analysis and Design to develop computer systems and applications. Students will learn and practice the four phases: planning, analysis, design, and implementation, which require students to conduct requirement analysis and build blueprints of systems according to operational and organizational technology needs. The course introduces students to the software tools and diagram representations for producing and documenting the process of system analysis and design. Students work individually and as a team to gain knowledge of change management and team collaboration.

ISIT 225: CLOUD COMPUTING (3 CREDITS)

The course examines various Application Programming Interfaces used in Amazon and Microsoft Cloud Computing, including the techniques for building, deploying, and maintaining machine images and applications. Students will learn how to use Cloud Computing as the infrastructure for existing and new services. This course will use open-source implementations of highly available clustering computational environments. Students will also learn

how to address non-trivial issues in Cloud Computing, such as load balancing, caching, distributed transactions, and identity and authorization management, hosted on Windows and Linux operating systems.

ISIT 226: MANAGEMENT INFORMATION SYSTEMS (3 CREDITS) – PREREQUISITE: ISIT 224

Managing information systems has become a task for all levels of managers and all function areas of the business. This course is designed to familiarize students with the concepts related to the utilization of information technology in business organizations. The course focuses both on technical and managerial aspects of information technology adoption in the organization. Topics such as information technology infrastructure, electronic commerce, information systems and business strategy, and ethical issues related to information systems will be covered in class.

ISIT 248: MOBILE DEVELOPMENT (3 CREDITS) – PREREQUISITE: CMPS122

This course introduces Android operating system for mobile phones and covers advanced topics of Android programming such as web services, multithreading, advanced database applications, multimedia operations, broadcast mechanism and using map services.

ISIT 325: CLOUD DATA STORAGE MANAGEMENT (3 CREDITS) - PREREQUISITE: ISIT 225

This course focuses on using technology and security to manage data storage installed on-premises and in the cloud at the enterprise level. Students will study various data storage and networking components to effectively manage data confidentiality, availability, and integrity. The course also covers using the Hadoop environment and database techniques (SQL and NoSQL) to handle massive data sets.

ISIT 328: DATA WAREHOUSE DESIGN (3 CREDITS) – PREREQUISITE: CMPS 318

This course aims to teach students with fundamental knowledge and skills in data warehouse design, including concepts, architectures, data modeling, security, and implementations. The importance of the role of the data warehouse in the decision-making based on strategic and operational objectives will be discussed. Students will also combine database and data warehouse concepts to produce valuable assets and decision support systems for an organization.

ISIT 335: CLOUD SECURITY (3 CREDITS) - PREREQUISITE: ISIT225

This course covers DevSecOps methodology to ensure and strengthen the security of digital resources and data in the cloud environment and infrastructure. Students will learn various theories and practices to assess risks associated with cloud computing and shared responsibility aspects. Activities for the course cover deployment of virtual infrastructures, execution of installation scripts, exploration of virtual switching, management of resources, maintenance of backups, and detection of fault analysis.

ISIT 340: BUSINESS INTELLIGENCE (3 CREDITS) – PREREQUISITE: ISIT 360

This course covers business intelligence concepts and methodologies including the definition of intelligent knowledge and know-how process to gain insight and perspective for businesses.

ISIT 350: ADVANCED WEB APPLICATION DESIGN (3 CREDITS) PREREQUISITE: CMPS 122

This course teaches advanced web application design using Java ServerFaces web framework. Understanding managed beans, page navigation rules, expression language, data validation and conversion, AJAX support, application security, building custom components and related topics will be covered within the scope of this course.

ISIT 351 SOFTWARE ENGINEERING (3 CREDITS) PREREQUISITE: CMPS 122

This course covers the concepts, methodologies, and digital tools for developing software systems and applications. The subjects focus on Software Development Life Cycles (SDLC) principles and Object-Oriented Software Design. Students will learn how to apply Unified Modeling Language (UML) notations and diagrams in the Software Modeling and Specifications. This course is writing intensive, which requires students to conduct a software project, including writing software documentation for developing a software application.

ISIT 352: WEB DEVELOPMENT (3 CREDITS) PREREQUISITE: CMPS 122

This course introduces essential topics of web programming using Java based technologies. Java Servlets and JavaServer Pages will be introduced for understanding the basics of web programming. After covering basic topics, Spring Web MVC framework will be introduced for more advanced tasks. JDBC based database operations will be also covered within the scope of this course. Students who successfully

complete this course will have the ability to create database driven dynamic web applications which can generate response to user requests.

ISIT 353 SOFTWARE USER INTERFACE ANALYSIS AND DESIGN (3 CREDITS) PREREQUISITE: CMPS 122

This course covers the principles and practices for Graphical User Interface (GUI) Development, including design and development. Students will learn to apply cognitive science and psychology to integrate GUI components, such as a menu, text field, checkbox, radio button, drop-down box, text area, icon, etc., that form effective and user-friendly interfaces. The course is programming intensive in GUI development for various types of software applications, including standalone user interfaces, web-based user interfaces, and mobile application interfaces, including analyzing, designing, developing, testing, and maintaining.

ISIT 354: SOFTWARE ARCHITECTURE (3 CREDITS)

This course provides students with an introduction to software architecture involving theory foundations, sub-fields, current research status, and practical methods. Students will learn the basic knowledge of software architecture to describe a system's architecture using formal language and innovative styles in developing a system and software application. The course focuses on various aspects of software architecture, such as model representation, component/interface design, architectural frameworks and patterns, and security principles. Students will learn to utilize software architecture for decision-making in choosing strategies, reusing patterns, developing a prototype, and producing documentation.

ISIT 355: ADVANCED MOBILE APPLICATION DEVELOPMENT (3 CREDITS) – PREREQUISITE: ISIT 248 OR ISIT 350 OR CMPS 222

This course covers advanced techniques in mobile applications with increasingly powerful mobile devices. Students will learn to develop applications that can run on browsers with web-enabled capabilities, compatible with the majority of mobile devices. This course will focus on modern trends, teaching students the unique design and deployment. Students will also address digital and ethical issues that must be considered when developing applications for mobile devices.

ISIT 356: SOFTWARE QUALITY AND TESTING (3 CREDITS) - PREREQUISITE: CMPS 122

This course provides an elementary introduction to software quality assurance and testing. Topics include: Why do software testing? The meaning of black-box testing and white-box testing; Software Testing throughout the Software Process; Software Testing and Extreme Programming; The Automation of Software Testing; Difficulties and Limitations of Software Testing; The Business of Software Testing; and Implementation of Automated Testing. Students gain intensive hands-on experiences as Software Tester, including planning and executing software testing projects.

ISIT 357: CONTENT MANAGEMENT SOFTWARE (3 CREDITS)

This course explores the use of the three most popular open-source web-based content management systems— WordPress, Joomla, and Drupal—to create dynamic and flexible websites and landing pages. Participants explore the fundamentals of planning dynamic websites, CMS database management, developing CSS-controlled site templates, and creating database-driven websites through the planning and creation of their own topic-based sites.

ISIT 360: DATA MINING (3 CREDITS) – PREREQUISITE: CMPS 226

Data Mining studies algorithms and computational paradigms that allow computers to find patterns and regularities in databases, perform prediction and forecasting, and generally improve their performance through interaction with data. It is currently regarded as the key element of a more general process called Knowledge Discovery that deals with extracting useful knowledge from raw data. The knowledge discovery process includes data selection, cleaning, coding, using different statistical and machine learning techniques, and visualization of the generated structures. The course will cover all these issues and will illustrate the whole process with examples. Special emphasis is on Machine Learning methods as they provide real knowledge discovery tools. Important related technologies, like data warehousing and on-line analytical processing (OLAP) will be also discussed. The students will use recent Data Mining software.

ISIT 362: SOCIAL NETWORK ANALYSIS (3 CREDITS)

The course presents mathematical methods and computational tools for Social Network Analysis (SNA). SNA was pioneered by sociologists, but recently became an interdisciplinary endeavor with contributions from mathematicians, computer scientists, physicists, economists etc., who brought in many new tools and techniques for network analysis. In this course we will start with basic statistical descriptions of networks, analyze network structure, roles and positions of nodes in networks, connectivity patterns and methods for community detection. In the second part of the course, we will discuss processes on networks and practical methods of network visualization.

ISIT 370: AGILE PROJECT MANAGEMENT (3 CREDITS) – PREREQUISITE: MGMT 200

This course covers an introduction to agile project management, including fundamental principles, frameworks, and practices of software project development. Students will learn iterative and incremental methods of development, emphasizing collaboration and adaptability. This course provides hands-on experiences via team-based projects focusing on planning, executing, and delivering software using Agile methodologies.

ISIT 401: INFORMATION TECHNOLOGY AUDITS & CONTROLS (3 CREDITS) – PREREQUISITE: ISIT 224

Management and boards continue to recognize the importance of effectively managing information technology (IT) assets — to meet business objectives and to thoughtfully manage IT related business risks. This course examines the key principles related to auditing information technology processes and related controls and is designed to meet the increasing needs of audit, compliance, security and risk management professionals.

MATH 103: COLLEGE MATHEMATICS (3 CREDITS)

Mathematical calculations underlie the development of theories, the evaluation of trends, and the assessment of progress in all aspects of society. It will cover linear, quadratic, and simultaneous equations and the graphing of lines, circles, exponential functions, and polynomial functions.

MATH 104: COLLEGE ALGEBRA (3 CREDITS) – PREREQUISITE: MATH103 OR 2 YEARS OF HIGH SCHOOL ALGEBRA WITH A C GRADE OR BETTER

This course covers matrix theory and linear algebra, emphasizing topics useful in other disciplines. Linear algebra is a branch of mathematics that studies systems of linear equations and the properties of matrices. The concepts of linear algebra are extremely useful in physics, economics and social sciences, natural sciences, and engineering. Due to its broad range of applications, linear algebra is one of the most widely taught subjects in college-level mathematics (and increasingly in high school).

MATH 110: INTRODUCTION TO STATISTICS (3 CREDITS)

This is an introductory statistics course that presents basic statistical concepts and methods in a manner that emphasizes understanding the principles of data collection and analysis rather than theory. Much of the course will be devoted to how statistics affect the business world.

MATH 128: LINEAR ALGEBRA (3 CREDITS)

Linear algebra is the study of linear systems of equations, vector spaces, and linear transformations. Solving systems of linear equations is a basic tool of many mathematical procedures used for solving problems in science and engineering.

MATH 131: CALCULUS I (3 CREDITS) – PREREQUISITE: MATH 104

This is an introductory course to provide students with an introduction to Calculus. The course covers topics such as rules of differentiation, the chain rule and implicit differentiation; derivatives of trigonometric, exponential, logarithmic, and inverse trigonometric functions; the Mean Value theorem; and indeterminate forms and L'Hopital's rule.

MATH 132: CALCULUS II (3 CREDITS) – PREREQUISITE: MATH 131

This course builds on skills learned in MATH 131. It covers subjects such as techniques in integration; applications of integration; conics, parametric curves, and polar curves; partial differentiation; and multiple integration.

MATH 140: DISCRETE MATHEMATICS (3 CREDITS)

The aim of the course is to give students the necessary background in discrete mathematical structures. Basic algorithms on discrete structures will be taught.

MATH 212: NUMERICAL ANALYSIS (3 CREDITS)
– PREREQUISITE: MATH 132

Numerical Analysis helps in transforming functions, derivatives, integrals, and differential equations as strings of numbers that can be calculated in the computer. The most important issue in Numerical Analysis is an understanding of the speed of convergence of the series expansions for the method used to approximate or solve a problem.

MATH 225: SPREADSHEET APPLICATIONS FOR BUSINESS, ACCOUNTING & ECONOMICS (3 CREDITS) – PREREQUISITE: MATH 131

This course equips students with practical, hands-on experience in using spreadsheet software, mainly Microsoft Excel, as a valuable tool in business, accounting, and economics. The focus will be on developing proficiency in creating, formatting, analyzing, and interpreting data using spreadsheet functions and tools. The course introduces a range of topics such as data entry and validation, financial modeling, budget preparation, statistical analysis, pivot tables, charting, and decision-making tools such as what-if analysis. Throughout the semester, students will learn how to apply spreadsheet techniques to real-world business issues, including cost and benefit analysis, revenue forecasting, payroll computation, inventory management, and economic data evaluation.

MATH 335: BUSINESS ANALYTICS (3 CREDITS) – PREREQUISITE: MATH 110

Business Analytics uses data from past performance and statistical methods to inform data-driven decision making. This course explores how big data analysis and predictive modeling can drive strategic decision making for enterprise optimization and government policy decisions.

MGMT 200: INTRODUCTION TO PROJECT MANAGEMENT (3 CREDITS)

Introduction to Project Management utilizes a simulated team project to manage a project's life cycle. Emphasis is placed on activity networks, managing resources, and creating control mechanisms that minimize risk. Project leadership is explored in the context of building effective project teams and maintaining stakeholder relationships.

MGMT 201: LEADERSHIP (3 CREDITS)

A recent management theory suggests that leadership consists of three overarching functions -- vision, communication, and implementation--under which all other functions can be slotted. This course

will examine the nature of these three functions in today's business and use Abraham Zaleznik's classic paper to distinguish between the roles of leaderships and managers. Following the dictum that studying leaders illustrates leadership, the course will analyze the characteristics of many leaders from different fields-- business, government, politics, society, and religion-- to distill the essence of leadership.

MGMT 301: ORGANIZATIONAL BEHAVIOR (3 CREDITS)

This course introduces basic organizational behavior concepts and their application in contemporary organizations. The course will include conceptual frameworks, case discussions, and skill-oriented activities. Topics include diversity in organizations, attitudes and job satisfaction, emotions and moods, personality and values, the structure and culture of organizations, and organizational change.

MGMT 303: MANAGEMENT COMMUNICATIONS (3 CREDITS)

The skills taught in this course are essential for surviving and succeeding in today's corporate world. You will learn to analyze, understand and write clear and concise business communiqués, develop skills for high level interpersonal communication and strengthen your oral presentation competence. The course introduces a range of business communication methods and examines the technologies available for conveying business messages.

MGMT 322: PROBLEM SOLVING AND DECISION MAKING FOR MANAGERS (3 CREDITS)

Every day a manager will be called upon to solve a difficult problem or make a significant decision. This course presents techniques for creative problem solving and structures to assist in decision making in various business environments and situations. The course will explore biases and how they can reduce the effectiveness of the decision-making process.

MGMT 325: OPERATIONS MANAGEMENT (3 CREDITS) PREREQUISITE: MATH 110

This course provides an understanding of operations management and its role within an organization. Students will be introduced to the principles and practices involved in designing, managing, and optimizing business processes to efficiently produce goods and services.

MGMT 335: PROJECT MANAGEMENT KNOWLEDGE AREAS I (3 CREDITS)

Building on the foundational principles in the Introduction to Project Management course, this course covers the control and tracking steps to ensure a project's on-time completion and within budget. The course focuses on the management of project HR, communication, risk, quality, and procurement.

MGMT 336: PROJECT MANAGEMENT KNOWLEDGE AREAS II (3 CREDITS) – PREREQUISITE: MGMT 335

This second course is a continuation of Project Management Knowledge I and addresses the scope for a project and developing a complete project overview statement. This course addresses the following areas: Project Integration Management, Project Scope Management, Project Time Management, Project Cost Management, and Project Quality Management.

MGMT 337: STRATEGIC MANAGEMENT (3 CREDITS)

The modern theory of strategic management involves the creation of a competitive advantage over competitors; this means uniquely creating value for a customer in a way that competitors cannot. The course creates a fusion between the two major competitive advantage theories: the external theory of Michael Porter and the internal theory of Jay Barney - leading to a holistic understanding of strategic management.

MGMT 433: NEGOTIATION (3 CREDITS)

Negotiation is the art and science of securing an agreement between two or more interdependent parties. This course focuses on understanding the behavior of individuals, groups, and organizations in the context of competitive situations. The objectives of the course are to help students to develop negotiation skills experientially and to understand negotiation in useful analytical frameworks. Considerable emphasis is placed on realistic negotiation exercises and role-playing. The exercises serve as catalysts for the evaluation and discussion of different types of negotiation situations. In-class discussions and lectures supplement the exercises.

MGMT 453: CROSS-CULTURAL MANAGEMENT (3 CREDITS)

Cross Cultural Management is a collaborative research seminar that examines what constitutes "effective" leadership across cultures. The underlying theme of this course is that the skills and behaviors

that are perceived as effective leadership characteristics in one culture are not necessarily those that will be effective in a different culture. By exploring the ways in which specific characteristics are valued differently by different cultures, the students acquire frameworks for assessing how to approach a work assignment in a culture that is not their own. This course is collaborative because the students are expected to provide some of the content. The weekly readings target aspects of cultural differentiation. Working within those topics, teams of students are asked to describe aspects of leadership in particular cultures based on their research and/or personal experiences. Students use both formal presentations and informal discussions to engage each other in learning about different cultural expectations. The goal of the course is to help prepare students for business assignments outside of their native countries.

MKTG 201: INTRODUCTION TO MARKETING (3 CREDITS)

The American Marketing Association defines marketing as: "the activity, set of institutions, and processes for creating, communicating, delivering, and exchanging offerings that have value for customers, clients, partners, and society at large." This course examines many of these marketing aspects starting with the basics of the 4 Ps (Place, Price, Product, Promotion), market segmentation, and branding. The course also explores the newest aspects of internet marketing by Amazon, Google, and Facebook.

MKTG 321: MARKETING MANAGEMENT (3 CREDITS) – PREREQUISITE: MKTG 201

The course focuses on formulating and implementing marketing management strategies and policies, a task undertaken in most companies at the strategic business unit level. The marketing management process is important at all levels of the organization, regardless of the title applied to the activity. The course provides students with a systematic framework for understanding marketing management and strategy.

MKTG 435: BRAND MANAGEMENT (3 CREDITS)

A company's brand is the most valuable asset that it owns. A recognized brand is the key to expanding sales and the product line. But brand management requires paying attention to many aspects of the product from brand recognition to brand loyalty. These various aspects add up to brand power: the ability of a company to demand and receive premium

shelf space, placement in movies, and celebrity endorsements. This course examines the different brand parameters and invokes marketing concepts to build brand power.

MKTG 436: PRINCIPLES OF ADVERTISING (3 CREDITS)

This course introduces the basic principles, theories, and applications of advertising. In addition, the course covers the foundations of integrated advertising, promotion, and marketing communication emphasizing the significance of utilizing all marketing activities in one clear message and voice. Elements of direct response, promotion, Internet, and public relations are also presented. Students will be able to demonstrate an understanding of the principles of advertising and practice creative and decision-making skills in developing an advertising campaign plan.

PHIL 200: ETHICS (3 CREDITS)

The purpose of this course is to open awareness to the complexity of ethical decision-making and prepare students to make choices from a standpoint of ethical consciousness. Students will learn to identify ethical problems in their program of study, assess the obligations of stakeholders, formulate arguments for those obligations, and propose feasible solutions to ethical problems. Diversity competence will also be stressed. Assignments, activities, and exams will cultivate reflection, analysis, creativity, and empowerment.

PHYS 200: INTRODUCTION TO PHYSICS (3 CREDITS) – PREREQUISITE: MATH 103

This course is primarily for non-science majors, a non-calculus-based introduction to Physics. The evolution of ideas, their historical continuity in the search for physical theories and worldviews of great physicists of the past are presented, together with the basic concepts of Physics. Topics include (but are not limited to) Mechanics and Thermodynamics, Electricity and Magnetism, Sound and Light, History and Methodology of Science. Virtual laboratory work is included.

POLS 101: INTRODUCTION TO POLITICAL SCIENCE (3 CREDITS)

This course is an introduction to the basic concepts and theories of political science. It begins with discussions of individual and human nature and elaborates on state and society. Some of the central themes of the course are human nature and the individual, the social contract, sovereignty, authority,

public opinion, elections, electoral systems, legislatures, executives, judiciaries, political violence, terrorism, and international relations.

POLS 121: UNITED STATES GOVERNMENT (3 CREDITS)

This course exams the theoretical influences, historical development, and political evolution of the United States of America, as they impact the governance of the country. Students will gain a greater understanding of the forces that shaped how the framework of government was established and has functioned over the past two and a half centuries. By studying the US Constitution and the structure of US government, political culture and political behavior, the development of the political party system, the role of interest groups in politics, and the relationship between the federal government and state and local governments, students will acquire a better perspective of the problems, challenges, and future potential of the US.

POLS 122: UNITED STATES POLITICAL HISTORY (3 CREDITS) – PREREQUISITE: POLS 121

Students will learn about the political history of the United States. Both domestic and international politics will be covered. Students will understand the events surrounding the creation of the United States and how the United States has maintained its democratic system for more than 200 years. Students will also understand the key events, trends, and leaders that have shaped the United States. It is important for students to understand both the domestic and international history of the United States to analyze contemporary world affairs. The United States is an important object of study both because it is one of the world's most successful democracies and because it is the world's most powerful nation. World events simply cannot be understood without knowledge of the United States and its history. This course will introduce students to the most important leaders, events, and ideas that have shaped American history and continue to influence the United States today.

POLS 210: POLITICAL SOCIOLOGY (3 CREDITS)

Political sociology is concerned with, above all, power relations in the social, political, and economic spheres. As such, we deal with different centers of power, both within the national unit and transnationally. This course introduces you to state structures, class structures and global structures. We will cover concepts such as power, representation, association, social capital, citizenship, collective action and issues such as state development, democratization, 'old' and 'new' social movements, and global networks. Equally crucial to this course is the understanding of interactions between society and polity.

POLS 215: POLITICAL IDEOLOGIES (3 CREDITS) – PREREQUISITE: POLS 101

Ideology is one of the most readily employed concepts in political science. Political ideologies originated in the modern era and have shaped our beliefs, values, and understanding of human nature, the organization of social and political institutions, and authority. This course is a survey of major political ideologies. We will examine the core concepts, assumptions, political programs, and historical development of such ideologies as: liberalism, conservatism, nationalism, socialism, communism, and fascism, among others. This course aims to help students think critically about the role ideology plays in informing political debate and assumptions concerning state and society.

POLS 251: INTRODUCTION OF COMPARATIVE POLITICS OF INDUSTRIALIZED SOCIETIES (3 CREDITS) – PREREQUISITE 101

This course provides a systematic study and comparison of political systems, with emphasis on recent trends in world politics. This course will introduce the basic concepts of comparative politics, examine liberal and illiberal regimes, and compare the governmental systems of developing, industrial, and post-industrial societies. Students will learn to identify the strengths and weaknesses of parliamentary and presidential systems of government, and of centralized, devolved, and federal state systems. We will also consider a variety of electoral systems.

POLS 253: POLITICS OF EMERGING MARKETS SOCIETIES (3 CREDITS) – PREREQUISITE: INTL 257

This course examines theoretical and empirical approaches to understanding the process of economic development. Topics include the role of the

state in alleviating or exacerbating poverty, the politics of industrial policy and planning, and the relationship between institutional change and growth. How over the past century have some of the world's poorest nations achieved wealth? How have others remained mired in poverty? What are the social consequences of alternative strategies of development? What about the quality of governance? POLS 253 will answer these questions and more.

POLS 310 PUBLIC ADMINISTRATION (3 CREDITS) – PREREQUISITE: POLS 101

This course provides an in-depth exploration of public administration, focusing on its theories, principles, and real-world applications in government and nonprofit sectors. Students will examine the role of bureaucracy, policy implementation, organizational behavior, and ethical decision-making in public service. Through case studies, discussions, and applied projects, the course emphasizes the challenges of governance, public accountability, and administrative reform. By the end of the semester, students will have a comprehensive understanding of how public administrators shape and execute policies that impact society.

POLS 321: POLITICAL PARTIES IN AMERICA (3 CREDITS) – PREREQUISITE: POLS 121

By the end of this course, students will have a deeper appreciation of the main drivers of US politics. They will have a solid understanding of the structure, operation, and definition of the US party system. They will have an appreciation for the historical origins of the two-party system. The course will also include discussions of the role of political parties on the national and state levels, party politics in the South, political machines, ethnic politics, and the national election process.

POLS 335: ENVIRONMENTAL POLITICS (3 CREDITS)

Environmental politics is a new but quickly growing field as debates about environmental degradation have intensified. Environmentalists are concerned about pollution, conservation, ecosystem destruction, natural resource depletion, and global warming which threaten our planet and future life on earth. State structures, the capitalist world economy, environmental organizations and social movements and their interaction in a global geography all affect the politics of the environment. In other words, these actors on the global scene have differing and often conflicting views on what the problem is and what to

do about it. Thus, environmental politics is controversial as well as vital. It is also global in nature as environmental problems recognize no national borders. This course will deal with all of these issues while introducing the students to relevant concepts and debates such as the tragedy of the commons, the global commons, sustainable development, ecological modernization, risk society, deep ecology, North-South issues and ideas of nature and progress.

POLS 343: PUBLIC POLICY (3 CREDITS)) – PREREQUISITE: POLS 101

Bringing together analysis of classic works alongside the most recent developments in the field, the course explores three key questions: What is public policy? Who participates in making, implementing, and assessing the impact of public policy? And when and how does public policy change over time? Course coverage includes the central institutions and actors of policy making, as well as implementation, evaluation, and governance of public policy. Discussions draw on examples from around the world to explore connections between public policy and areas like political economy and climate change, and key aspects of policy analysis.

POLS 380: RESEARCH AND METHODS IN POLITICAL SCIENCE (3 CREDITS) – PREREQUISITE: POLS 101

This course is designed to provide students with fundamental knowledge on the conduct of research in the field of political science. Students will be introduced to such topics as epistemology, research design, hypothesis development and testing, scope of research, quantitative and qualitative analysis, and their application and use in political science. The course will have a shared emphasis on both analysis and evaluation, as well as on the design of research and how scholars ask questions. Students will have multiple opportunities (in the form of weekly assignments, term project, and exams) to demonstrate their knowledge and comprehension of the material. The goal of the course is to provide students with the opportunity to create, plan, develop, and execute original research.

POLS 432: RELIGION AND POLITICS (3 CREDITS)

The aim of this course is to probe the relationship between religion and politics with a view to understanding the impact of modernization and industrialization on both. The course is composed of three parts. Part I introduces the major analytical approaches in the sociology of religion. Part II examines manifestations of the resurgence of religion

in politics in different regions of the world. Part III. Finally, focuses on Islam and politics, including the case of Turkey.

POLS 453: POLITICAL BEHAVIOR (3 CREDITS) – PREREQUISITE: POLS 101 & POLS 251

The objective of this course is to familiarize students with the factors that explain political behavior. The course is composed of three parts: the first part elaborates on the cultural approach to the formation of political interests and identities which shape political behavior; the second one will focus on the different existing theories in political science to explain voting behavior; the last part concentrates on the most significant political institutional determinants of voting behavior – party and electoral systems. The course will also focus on the influence of new social movements on political behavior.

POLS 459: GLOBAL PERSPECTIVES ON DEMOCRACY (3 CREDITS) – PREREQUISITE: INTL 348

What is democracy? Why is or is it not valuable? Why does democracy succeed in some countries and not in others? We will consider these and other major questions in POLS 459. Students will take a multidisciplinary approach by considering political philosophy, history, and political science to examine various interpretations and criticisms of democracy. In addition to comparing democratic and non-democratic structures of government and the ideas behind them, students will analyze real-world examples to assess the struggle of democratization worldwide. The course will begin with foundational discussions of Athenian democracy and American democracy. Students will spend the remainder of the course analyzing 20th and 21st century examples of the foundations of democratic and authoritarian states such as India, China, Japan, South Africa, the DR Congo, and Chile. Finally, students will compare the outcomes of the Arab Spring and contemporary threats to democracy worldwide.

PSYC 101: INTRODUCTION TO PSYCHOLOGY (3 CREDITS)

This course will provide students with an introduction to the key theories of psychology. The course will discuss topics such as neuroscience and cognition; the processes of learning, perception, and memory; language and social behavior; intelligence, personality, and development; and psychopathology.

SOCI 101: INTRODUCTION TO SOCIOLOGY (3 CREDITS)

In this introductory course, students will learn about the field of Sociology and how it helps us understand our world. We will discuss key themes of sociological study, including inequality, racism and ethnicity, gender and sexuality, age stratification, and culture. Students will also learn about a variety of research methodologies.

SOCI 170: FUNDAMENTALS OF CRIMINOLOGY (3 CREDITS)

This course provides an introduction to the field of criminology, exploring the nature, causes, and consequences of crime in society. Students will examine key criminological theories, research methods, and the role of social institutions in shaping criminal behavior. Topics include crime typologies, the criminal justice system, and contemporary issues in crime prevention and policy. Through critical analysis and discussion, students will develop a deeper understanding of the complexities of crime and justice in modern society.

SPAN 101: ELEMENTARY SPANISH I (3 CREDITS)

An introduction to the Spanish language for students with no prior experience. Students will practice reading, writing, listening, and speaking Spanish. Cultural instruction on Spain and Latin America will also prove a foundational aspect of this course.

SPAN 121: ELEMENTARY SPANISH II (3 CREDITS)

PREREQUISITE: SPAN 101

A continuation of the reading, writing, listening, and speaking abilities introduced in SPAN 101. Students will learn more about Spanish and Latin American cultures. By the end of this course, students will be able to carry a conversation in Spanish.

TURK 101: ELEMENTARY TURKISH (3 CREDITS)

An introduction to the Turkish language for students with no prior experience. Students will practice reading, writing, listening, and speaking Turkish. Instruction on Turkish culture will also prove a foundational aspect of this course.

TURK 121: ELEMENTARY TURKISH II (3 CREDITS)

– PREREQUISITE: TURK 101

A continuation of the reading, writing, listening, and speaking abilities introduced in TURK 101. Students will learn more about Turkish culture. By the end of this course, students will be able to carry a basic conversation in Turkish

UNIV 100: FIRST YEAR SEMINAR (1 CREDIT)

COURSE FEE: \$50.00

UNIV 100 helps new students make a successful transition to a university campus, both academically and personally. The course aims to foster a sense of belonging, promote engagement in the curricular and co-curricular life of the university, develop critical thinking skills and help clarify purpose, meaning and direction.

UNIV 400: SENIOR SEMINAR (2 CREDITS)

PREREQUISITE: 90 CREDITS

COURSE FEE: \$50.00

Senior Seminar serves as a culminating academic experience for undergraduate students across all programs at BAU. Students will demonstrate mastery of different program learning objectives and showcase their ability to apply disciplinary knowledge acquired in their course of study to real-world challenges. Students will engage in high-impact practices that include portfolio creation, a problem-solution paper and a professional presentations.