

# Course Schedule | Online Spring | 2012

## Accounting

### Financial Accounting I 3 credits

This course focuses on the relationships between business activities and events and the impact they have on financial statements from a prepare/user-of-accounting perspective. Students study financial transactions for both service and merchandising businesses and relate the transactions to a company's assets, liabilities, owners' equity, revenues, expenses, and cash flow. Areas of study include the basic accounting model, the process of the accounting cycle, accounting principles and terminology, financial statement analysis, and computerized accounting applications.

Prerequisite: ENG 100 or appropriate placement score, MAT 090

#### Online

Course	Sec	Day	Time	Room	Instructor
ACC 101	B1	Course	Offered on line	On line	Murphy, C

### Managerial Accounting 3 credits

This course examines information used by executives and managers who work in business. Students study manufacturing accounting, budgeting forecasting, and financial statement analysis. Using computer applications, working in groups, and through classroom exercises, students learn to use and interpret accounting data as the basis for managerial decision-making and planning.

Prerequisite: ACC 102

#### Online

Course	Sec	Day	Time	Room	Instructor
ACC 222	B1	Course	Offered on line	On line	Murphy, C

## Allied Health

### Introduction to Medical Terminology 3 credits

This course provides a basic foundation for students interested in the allied health field. Emphasis is on analyzing word parts and learning basic prefixes, suffixes and word roots. The course also highlights the body systems: basic anatomy and physiology, including terms used in diseases and surgical procedures.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ALH 102	B1	Course	Offered on line	On line	Grenache

### Introduction to Pharmacology for Allied Health Professions 3 credits

This course provides a foundation with knowledge in pharmacology, a historical view of pharmacology and explores the fundamental pharmacological concepts such as pharmacokinetics and pharmacodynamics. Students study drug classifications, their actions, indications for use, contraindications and adverse effects. Natural alternatives and herbal remedies are included. This course is designed for all students with an interest in the Allied Health Professions, as well as the general public.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ALH 103	B1	Course	Offered on line	On line	Yoder

## Anthropology

### Cultural Anthropology 3 credits

The course introduces the concepts of cultural adaptation in small-scale and large-scale societies. It focuses on the integration of fundamental cultural institutions including economics, political organizations, family, and religion. Students learn how to explain why specific cultural differences and similarities occur and persist in the United States and other countries. Students develop an understanding of culture contact, culture change, and the role of anthropology in the modern world.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ANT 111	B1	Course	Offered on line	On Line	Weiss

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## Applied Arts

### Digital Design Concepts I 3 credits

This course explores the fundamentals of digital design and its application in two-dimensional space. Students learn the principals and elements of design and color theory to create vector drawing and graphics associated with digital media. Students complete assignments using industry-standard software and hardware.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
APA 114	B1	Course	Offered on line	On line	Newman

\*\*Not restr to APA majors.Req.Adobe Illustrator/Mac w/OSX 10.3 or later or Windows PC/XP or later. APA lab, s/w avail.Further info: mnewman@qcc.mass.edu.

### Digital Photography 3 credits

This course covers the digital camera, including the artistic, theoretical, technical, and career aspects of photography. Students learn the relationship between the key features of light, composition, film usage, computer manipulation, scanning, resolution, and the final digital print. Students must have access to a single lens reflex (SLR) 35mm camera or a medium-to-high resolution digital camera. Students learn how to use the manual controls of any 35mm SLR camera or digital camera; use computer technology to scan, digitize, and manipulate images; and, prepare images for professional display using Adobe PhotoShop software on the Macintosh operating system.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
APA 161	B1	Course	Offered on line	On line	Solaperto

\*\*Not restr to APA majors.Req. access to digital camera,Adobe Photoshop 7 or later,Mac OS 10.3 or Windows XP or later.Further info: johns@qcc.mass.edu

## Art

### Art Appreciation 3 credits

This course introduces the major art forms and ways to relate to them. Through the use of videos, DVDs and field trips, students learn about the diversity found in art and the impact that artistic works have. Students learn how to appreciate art by developing the skills necessary to view it through intelligent and informed evaluations.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ART 101	B1	Course	Offered on line	On line	Parente
ART 101	B2	Course	Offered on line	On line	Parente

### Contemporary Art 3 credits

This course covers the underlying social, political, environmental, and humanistic influences that affect contemporary artistic styles and ways artists have expressed those influences. Students examine the development of diverse styles in contemporary art by exploring the evolution of modern artistic trends from 1940 to the present.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ART 121	B1	Course	Offered on line	On Line	Parente

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# Course Schedule | Online Spring | 2012

## Biology

### Introduction to Plant Biology 4 credits

This course introduces the formal concepts of the science of botany as well as the impact that plants have on humans and earth. Topics include plant structure, plant growth, diversity of plants, life cycles and natural history, major plant environments of the world, and the economic influence that plants have on our species. Students gain enhanced appreciation of the importance of plants in our lives and present the fundamental concepts used in the study of plants. In the laboratory component, students learn basic scientific investigation of the plant world.

Prerequisite: "C" or better in MAT 095 on the departmental final exam or appropriate placement score; Coreq: ENG 101

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 104	B1	Course	Offered on line	On line	Flynn, D

\*\*Includes ONLINE LAB

### Principles of Ecology 4 credits

This course examines the fundamental concepts of ecology. Topics include ecosystem formation within the context of habitat, population, community, biodiversity, evolution, global change and conservation. The laboratory component emphasizes the basic concepts of field research.

Prerequisite: "C" or better in MAT 095 on the departmental final exam or appropriate placement score; Coreq: ENG 101

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 105	B1	Course	Offered on line	On line	Crowell-Murray

\*\*Includes ONLINE LAB

### Anatomy & Physiology I 4 credits

This course examines the organization of the human body at the tissue, organ, and system level. Students study the structure and function of the integumentary, skeletal, muscular, and nervous systems with emphasis on concepts of homeostasis, the complementary nature of structure and function, and the interrelationships of systems.

Prerequisite: BIO 101 or Advanced placement Biology; Coreq: ENG 101

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 111	B1	Course	Offered on line	On line	Chamberlin

\*\*Requires BIO 111L-01, 02, 03, 04, 05 06 or 07

BIO 111	B2	Course	Offered on line	On line	Fegreus-Reynolds
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\*\*Requires BIO 111L-01, 02, 03, 04, 05 06 or 07

### Anatomy & Physiology II 4 credits

Students study the structure and function of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. The course emphasizes the roles that systems play in immunity and in fluid, electrolyte, and pH balance.

Prerequisite: BIO 111

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 112	B1	Course	Offered on line	On line	Chamberlin

\*\*Requires ON-CAMPUS LAB, BIO 112L-01, 02, 03 or 04

### Introduction to the Human Body 4 credits

This course focuses on the basic structure and function of the human body and major principles of microbiology. Topics include the anatomy and physiology of the various systems as well as concepts from microbiology that pertain to disease transmission and prevention.

Prerequisite: Will not satisfy lab science requirement; ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 140	B1	Course	Offered on line	On line	Chamberlin

BIO 140	B2	Course	Offered on line	On line	Sheridan
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### Nutrition 3 credits

This course covers the nutrients including proteins, minerals, and vitamins; their sources; their digestion, absorption, and cellular function. Students also examine nutrition in pregnancy and lactation; nutrition of the elderly; obesity; fad diets; and food preservation.

Prerequisite: BIO 101 or BIO 111

#### Online

Course	Sec	Day	Time	Room	Instructor
BIO 241	B1	Course	Offered on line	On line	Crowell-Murray

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# Course Schedule | Online Spring | 2012

## Business Administration

### Integrated Communications for Business 3 credits

This course emphasizes the creation, preparation and perfecting of effective business communication. Students write and edit letters, memos, proposals, short reports, e-mails, resumes, cover letters, and oral presentations using word processing, spreadsheets, and presentation software. Students create a portfolio of their semester's work.

Prerequisite: CIS 111, ENG 101

#### Online

Course	Sec	Day	Time	Room	Instructor
BUS 201	B1	Course	Offered on line	On line	Bergenholtz

### Project Management 3 credits

This course provides students with the framework needed to define the scope; plan the activities, resources and timeframe; execute and manage the implementation; and evaluate the success of projects in all areas of business and industry. Students will learn techniques to assist them in managing project quality, scope, time, cost, human resources, communications, risk, procurement, and integration in the business environment. Students will prepare to sit for Project Management Institute's (PMI's) Project Management Professional exam.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
BUS 205	B1	Course	Offered on line	On line	Sekhar

## Business Law

### Business Law I 3 credits

This course examines law and society; the operation of law as it reflects the mores of human relations; and the ethics of business, criminal, and tort law with special emphasis on the law of contracts. Topics include the general principles of the law assigned, the nature of the United States legal system, the trial process, and the sources of law available. Students analyze court decisions and learn to apply the law both in fact situations and in reasoning in gray areas.

#### Online

Course	Sec	Day	Time	Room	Instructor
BSL 101	B1	Course	Offered on line	On line	McLean, J

### E-Business Law & Ethics 3 credits

This course introduces legal, clerical, and cyberlegal issues as they relate to the e-business world of today. Students learn the general laws as they pertain to business with special focus on laws which pertain to e-commerce contracting, copyright, and trademark infringement. The topics of Internet crime, free speech, privacy under the U.S. Constitution, and libel and other torts are also covered. The emphasis of the course is on ethical decision-making and socially responsible and appropriate practices involving technology.

Corequisite: CIS 111

#### Online

Course	Sec	Day	Time	Room	Instructor
BSL 103	B1	Course	Offered on line	On line	O'Brien, W

## Chemistry

### Introduction to Chemistry 3 credits

This course is a foundation course for studies in biology and chemistry. Students manipulate significant figures and scientific notation; study density, energy, and their calculations; learn basic atomic structure and the periodic table; and write and solve formulas, equations, and related problems. They examine gases, chemical bonding, equilibrium, redox reactions, and rate chemistry; and, demonstrate knowledge of solutions, acid-base chemistry, and related calculations.

Prerequisite: MAT 095 or MAT 096

#### Online

Course	Sec	Day	Time	Room	Instructor
CHM 090	B1	Course	Offered on line	On line	Giotto

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## Computer Information Systems

### Intro to Information Technology **3 credits**

This course provides an overview of the core aspects of information technology. The topics include: computer hardware, operating systems, application software, networks, information security, interactive media, and programming. The course focuses on defining how each IT area relates to, and interacts with, each other. Upon completion of the course, students have the knowledge necessary for further study in IT as well as understanding of the impact of technology on society and organizations of all types. Knowledge and competencies in this course are in National Career Cluster Core IT Standards published by the Educational Development Center (EDC). Prerequisite: (Replaces former CIS 104 & CIS 124)

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 105	B1	Course	Offered on line	On line	Dwyer, Ke

### Intro to Microcomputer Applications **3 credits**

This course focuses on basic working knowledge and hands-on experiences in word processing, spreadsheet processing, database processing, and presentation software. Students acquire an overview of computer concepts, the most common business office operating systems, the Internet, and the World Wide Web.

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 111	B1	Course	Offered on line	On line	Pilch
CIS 111	B2	Course	Offered on line	On line	Pilch
CIS 111	B3	Course	Offered on line	On line	Leonard, L
CIS 111	B4	Course	Offered on line	On line	Smith, L

### Adv Microcomputer Applications **3 credits**

This course is a continuation of CIS 111. Students learn advanced database and spreadsheet processing through the use of realistic business situations. They also learn how to use presentation software to create professional-looking documents. Prerequisite: CIS 111

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 112	B1	Course	Offered on line	On line	Pilch
CIS 112	B2	Course	Offered on line	On line	Perry

### Intro to Computer Applications in Telecom **3 credits**

This course focuses on a basic orientation to computer hardware and the use of software applications in telecommunications. Students study the Windows environment, and use integrated software packages for word processing, database management, spreadsheets, and telecommunications. Through lectures, interactive learning, and demonstrations students learn how to solve problems and transfer information via electronic media. They write reports, documents, and presentations and import and export documents between different software applications.

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 115	B1	Course	Offered on line	On line	Izuchi

### Intro to Programming with C++ **3 credits**

This course focuses on the basic concept of programming, utilization of the executable codes, and implementation of these codes in problem solving. Students learn the concept of solving problems through the design and implementation of algorithmic solutions using the C++ programming language. Topics include the programming process, structured programming techniques, and basic logic formations. Practical business applications are emphasized throughout the course.

Corequisite: CIS 111

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 121	B1	Course	Offered on line	On line	Vicente

### Web Page Development I **3 credits**

This course focuses on the basics of Web site design using the latest version of XHTML and CSS. Topics include text formatting, color, image maps, tables, frames, client-side forms, and insertion of audio and video files. Java Applets will be introduced. Students work on individual or team projects to create Web sites.

Prerequisite: CIS 111

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 134	B1	Course	Offered on line	On line	Trivedi, C

### JAVA II **3 credits**

This course is a continuation of CIS 226 and focuses on higher-level visual object-oriented programming using the Java language. Students learn to design, write, and execute Java applications and applets using graphic user interface (GUI) components through lectures, hands-on programming exercises, and projects. Other topics include exception handling, classes and methods, objects and inheritance, and problem solving through the use of algorithmic analysis.

Prerequisite: CIS 226

#### Online

Course	Sec	Day	Time	Room	Instructor
CIS 227	B1	Course	Offered on line	On line	Vicente

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# Course Schedule | Online Spring | 2012

## Systems Analysis & Design

3 credits

This course provides practical experience in feasibility studies, data gathering, analysis, and design of a business information system. Students study the various techniques that can be utilized, conduct a feasibility study, learn valid data collection processes, analyze existing systems, and design new information systems.

Prerequisite: CIS 121 or 3 credits of any programming language

### Online

Course	Sec	Day	Time	Room	Instructor
CIS 241	B1	Course	Offered on line	On line	Desilets

## Computer Science

### IT Help Desk Concepts

2 credits

This course focuses on key information needed by user support professionals, including decision making, communicating successfully with a client, determining the client's specific needs, and writing for the end user. Students are introduced to the latest in support industry trends, such as the use of Web and e-mail-based support and automated help desk software. Career paths for user-support workers are researched and discussed. This course details real-life scenarios of working professionals and issues in the IT help desk environment.

Prerequisite: CSC 141

### Online

Course	Sec	Day	Time	Room	Instructor
CSC 105	B1	Course	Offered on line	On line	Izuchi

### Windows Client Operating Systems

4 credits

This course provides the student with an introduction to Microsoft client or desktop operating systems. Hands-on activities in the laboratory closely parallel classroom discussion to give the student practical experience with the use and management of multiple desktop operating systems. Topics include operating system installation and configuration, file systems, resource management, user management, and security. This course focuses on current Microsoft desktop operating systems and prepares the student to sit for the corresponding Microsoft Certified Professional certification examination.

### Online

Course	Sec	Day	Time	Room	Instructor
CSC 141	B1	Course T	Offered on line 2:00-4:50PM	On line/203S	Lauer, B

\*\*Includes LAB on campus

### Computer Hardware and Support

4 credits

This course is a comprehensive study of the topics students need to learn in order to service, maintain, upgrade, and optimize personal computers. The course is designed to prepare students to take advantage of the growing need for personal computer repair and maintenance technicians. This course prepares students to sit for CompTIA's A+ certification examination.

Corequisite: CSC 141

### Online

Course	Sec	Day	Time	Room	Instructor
CSC 233	B1	Course F	Offered online 2:00-4:50PM	On line/203S	Izuchi

\*\*Includes LAB on campus

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# Course Schedule | Online Spring | 2012

## Computer Systems Engineering Technology

### IT Security

3 credits

This course provides students with knowledge of the basic information security goals of availability, integrity, accuracy, and confidentiality. Vocabulary and terminology specific to the field of information security are discussed. Detection of exposures and vulnerabilities with their appropriate countermeasures, planning, and administrative controls are also discussed. Students become competent in the five areas of security, including general security, communications security, infrastructure security, cryptography, and operational/organizational security. Students prepare to sit for CompTIA's Security+ exam.

Prerequisite: CSC 141, CSC 234

#### Online

Course	Sec	Day	Time	Room	Instructor
CST 205	B1	Course	Offered on line	On line	Lauer, B

### Internetworking Principles and Protocols

3 credits

This course presents a detailed overview of the implementation of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite. It prepares students with the necessary concepts and skills needed to configure, manage, and troubleshoot the TCP/IP environment. Upon completion of the course, students are able to configure TCP/IP clients and resources, configure and manage TCP/IP services, and troubleshoot network problems using TCP/IP utilities.

Prerequisite: CSC 234

#### Online

Course	Sec	Day	Time	Room	Instructor
CST 231	B1	Course	Offered on line	On line	Lauer, B

\*\*Includes ONLINE LAB

### UNIX Operating Systems

4 credits

This course provides students with a strong foundation in UNIX operating systems. Students explore the implementation of UNIX in a networked environment as a file/print server in an end-user environment and also as a special-purpose server, such as Web, e-mail, and database servers. Topics include installation and rebuilding of the operating system kernel, configuration, system administration and maintenance, and troubleshooting. This course focuses on topics that prepare students to sit for CompTIA's Linux+ certification exam.

Corequisite: SC 141

#### Online

Course	Sec	Day	Time	Room	Instructor
CST 245	B1	Course F	Offered online 11:00-1:50PM	On line/203S	Lauer, B

\*\*Includes LAB on campus

## Criminal Justice

### Introduction to Criminal Justice

3 credits

This course covers the philosophies and historical background of the American criminal justice system. Students discuss the organization, operation, and processes of the components of the justice system: police, courts, and corrections. Students study the nature of crime, the characteristics of criminals and victims, and several contemporary issues confronting each part of the system, such as the use of force by the police, changes in sentencing practices, and the growth in the prison population.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 101	B1	Course	Offered on line	On line	McCarthy, W
CRJ 101	B2	Course	Offered on line	On line	Joubert, S

### Response to Terrorism

3 credits

This course covers the fundamentals of preparing an organization and community for terrorism in the 21st century. Areas of study include the concept of threat assessment, prevention, mitigation, and response. Students learn about crisis and consequence management, and the methods used to plan for and respond to domestic terrorist incidents involving nuclear, biological, or chemical weapons of mass destruction.

#### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 102	B1	Course	Offered on line	On line	McCarthy, W
CRJ 102	B2	Course	Offered on line	On line	McCarthy, W

### Criminal Law

3 credits

This course examines the American court system from the perspective of the various ways in which antisocial or criminal behavior is stemmed or prevented by this formal mechanism of social control. Areas of study include common law, morality, decency, crimes against persons and property, and the history of several landmark cases. Students learn the statutory definitions of crime, the importance of constitutional proscriptions, and the motivations and origins of criminal behavior.

Corequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 111	B1	Course	Offered on line	On line	Yesihak
CRJ 111	B2	Course	Offered on line	On line	Yesihak

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## Constitutional Law

3 credits

This course focuses on the Bill of Rights; the Due Process clause of the Fourteenth Amendment; and, the laws of arrest, search and seizure, right to counsel, self-incrimination, and entrapment. Areas of study include judicial interpretations, civil rights, and individual liberties. Students learn the constitutional framework for criminal justice procedures and policies. The course provides a basis for understanding the principles and reasons on which the U.S. Constitution is based and the application of U.S. Supreme Court decisions.

Corequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 113	B1	Course	Offered on line	On line	Yesihak

## Contemporary Corrections

3 credits

This course examines the history, philosophy, and components of the American corrections system. Areas of study include the origins of correctional systems in the U.S. and the development of the major programs that make up the correctional system—jails, probation, intermediate punishments, prisons, and parole. Students learn about life in prison, the management of correctional programs, the increases in imprisonment over the last two decades, rehabilitation, and controversial issues such as the death penalty.

Prerequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 123	B1	Course	Offered on line	On line	Joubert, S

## Criminal Investigation

3 credits

This course covers the fundamentals of investigation. Students learn the duties and responsibilities of an investigator, interview and interrogation techniques, search methods, techniques of protecting a crime scene, and the collection and preservation of evidence. Areas of study include the modus operandi system, scientific aids, electronic information gathering systems, court preparation, and case follow-up. Students learn the basics of technical writing as it applies to criminal investigation.

Prerequisite: ENG 101

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 207	B1	Course	Offered on line	On line	McCarthy, W
CRJ 207	B2	Course	Offered on line	On line	McCarthy, W

## Technologies in Criminal Justice

3 credits

This course examines the application of developing technologies in the field of criminal justice. Students learn forensic science techniques, computer applications for disasters and emergencies, record management systems, crime mapping, and automated fingerprint identification systems. The course also covers computerized booking systems, integrated criminal justice information systems, less than lethal weapons, and "interoperable" wireless communications. Students explore the relationships of these new technologies and how they influence changes in criminal justice agency policy and procedure.

Prerequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 208	B1	Course	Offered on line	On line	Joubert, S
CRJ 208	B2	Course	Offered on line	On line	Gigliotti, A

## Evidence & Court Procedure

3 credits

This course examines the adjudication process and the influence of both case law and established practices of the courts. Areas of study include due process; evidentiary rules; burden of proof; hearsay; and offender, victim, and witness recall. Students learn the relevance of constitutional law to the adjudication process and examine the processing of a real case to understand the strengths and weaknesses of the current judicial process.

Prerequisite: ENG 101

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 211	B1	Course	Offered on line	On line	Yesihak
CRJ 211	B2	Course	Offered on line	On line	Yesihak

## Theories in Criminology

3 credits

This course focuses on various criminological theories. Areas of study include early explanations of criminal behavior and their modern counterparts. Areas of study include an overview of criminological theories regarding various types of violent crimes, property crimes, business and government crimes, drug-related crimes, and fraud-related crimes. Students learn these basic theories and their relationship to criminal investigations.

Prerequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
CRJ 213	B1	Course	Offered on line	On line	Yesihak
CRJ 213	B2	Course	Offered on line	On line	Yesihak

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# Course Schedule | Online Spring | 2012

## Economics

### Principles of Macroeconomics 3 credits

The course examines the broad and general aspects of an economy and covers the traditional macroeconomic elements of an introductory economics program. Students study the theories of supply and demand, national income, fiscal and monetary policy, cyclical fluctuations, economic growth, inflation, employment, and international trade. Students learn how to understand and interpret statements and policies made by both national and world leaders.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ECO 215	B1	Course	Offered on line	On Line	Cutone

### Principles of Microeconomics 3 credits

The course examines particular aspects of an economy and covers the traditional microeconomic elements of an introductory economics program. Students study pricing, input/output costs, resource allocation, farm policy, income distribution, and environmental issues. Students gain an understanding of various market structures as they relate to the national economy.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ECO 216	B1	Course	Offered on line	On Line	Cutone

## EMT Paramedic Technology

### Advanced Pre-Hospital Care 4 credits

The first half of this course focuses on pathophysiology common to all disease processes: shock, acid-base, and airway. The second half covers the pathophysiology of the pulmonary, nervous, gastrointestinal, and genitourinary systems. It reviews IV fluid administration and medical math, briefly reviews the anatomy and physiology of each topic covered, and uses a scenario-based approach to assessment and management.

Prerequisite: EMT 108, EMT 109, EMT 110, EMT 112, EMT 114. Coreq: BIO 112 or BIO 140, EMT 116, EMT 117, EMT 118, EMT 119

#### Online

Course	Sec	Day	Time	Room	Instructor
EMT 115	B1	Course	Offered on line	On line	TBD

### Topics in Advanced Life Support 3 credits

This course includes the assessment and management of the toxicological emergencies, infectious diseases, a detailed review of hematology, endocrine emergencies, anaphylaxis, and environmental emergencies. Also included are a written research paper and an oral presentation by each student further expanding on topics within the syllabus.

Prerequisite: EMT 108, EMT 109, EMT 110, EMT 112, EMT 114; Coreq: BIO 112 or BIO 140, EMT 115, EMT 116, EMT 117, EMT 118

#### Online

Course	Sec	Day	Time	Room	Instructor
EMT 119	B1	Course	Offered on line	On line	TBD

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# Course Schedule | Online Spring | 2012

## English

### Introduction to English Composition 3 credits

This course is an introduction to college-level essay writing emphasizing the writing process from planning and drafting through revising and editing. Students refine their style of writing by focusing on sentence structure and language usage and write essays displaying unity, support and coherence. Students practice expository writing using a variety of rhetorical strategies. The exploration of writing is examined through reading and analyzing essay models. Students develop a familiarity with research tools.

Prerequisite: Passing ENG 091 with a grade of "C" or higher and passing the ENG 096 departmental writing final examination essay or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
ENG 100	B1	Course	Offered on line	On line	Beaudry, Am
ENG 100	B2	Course	Offered on line	On line	Martin, Ma
ENG 100	B3	Course	Offered on line	On line	Zuegg, B
ENG 100	B4	Course	Offered on line	On line	Martin, Ma
ENG 100	B5	Course	Offered on line	On line	Martin, Ma

### English Comp & Lit I 3 credits

This course focuses on how to develop essential writing skills including organization, correctness, and support of ideas. A research project is required to produce a documented essay that integrates materials from Internet and traditional sources according to standard disciplinary format. Students develop and sharpen the interpretive and analytical skills necessary to evaluate the soundness and appropriateness of sources for their work.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
ENG 101	B1	Course	Offered on line	On line	Frederickson
ENG 101	B2	Course	Offered on line	On Line	Brand, J
ENG 101	B3	Course	Offered on line	On line	Anderson, K
ENG 101	B4	Course	Offered on line	On line	Frederickson
ENG 101	B5	Course	Offered on line	On line	Brand, J
ENG 101	B6	Course	Offered on line	On line	Bates, M
ENG 101	B7	Course	Offered on line	On line	Brand, J
ENG 101	B8	Course	Offered on line	On line	Brand, J
ENG 101	B9	Course	Offered on line	On line	Clemmer
ENG 101	BA	Course	Offered on line	On line	Clemmer

### English Comp & Lit II 3 credits

This course employs literary texts to provide examples for students to continue and refine writing and reading skills. Assigned readings include plays, poems, novels, short stories, epic narratives, personal essays, and satire. Writing assignments emphasize students' close reading skills and their interpretation and analysis of creative works.

Prerequisite: ENG 101

#### Online

Course	Sec	Day	Time	Room	Instructor
ENG 102	B1	Course	Offered on line	On line	Frederickson
ENG 102	B2	Course	Offered on line	On line	Anderson, K
ENG 102	B3	Course	Offered on line	On line	McPherson
ENG 102	B4	Course	Offered on line	On line	Anderson, K
ENG 102	B5	Course	Offered on line	On line	Frederickson
ENG 102	B6	Course	Offered on line	On line	Grochowalski
ENG 102	B7	Course	Offered on line	On line	Anderson, K
ENG 102	B8	Course	Offered on line	On line	Terrill
ENG 102	B9	Course	Offered on line	On line	Terrill

### Children's Literature 3 credits

This course introduces students to the nature, variety, and artistry of children's stories. Students examine various modes of the genre and investigate why stories are necessary and popular teaching vehicles for the intellectual growth and development of children. Students discuss and explore numerous tales, fables, myths, and literary archetypes. Special emphasis is placed on selected visually orientated stories and their context in today's society. Students write individual reports and interact in panel discussions, commentary, and discussions of the merits of contemporary works.

Prerequisite: ENG 102

#### Online

Course	Sec	Day	Time	Room	Instructor
ENG 200	B1	Course	Offered on line	On line	Beaudry, Am
ENG 200	B2	Course	Offered on line	On line	Beaudry, Am

### Creative Writing 3 credits

This course centers on weekly student writing of poems, short stories, plays or personal essays. Specific Projects will be determined by individual and group interests. Group discussion of works-in-process will aid the student to achieve a significant creative writing project for the semester. Examples of creative excellence will be read and discussed, with some attention to critical and aesthetic theory.

Prerequisite: ENG 102

#### Online

Course	Sec	Day	Time	Room	Instructor
ENG 202	B1	Course	Offered on line	On line	Grochowalski

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# Course Schedule | Online Spring | 2012

## Technical and Workplace Writing 3 credits

This course covers the theory and practice of writing appropriate to the workplace. While the course is designed for students interested in technical applications, it is useful for anyone who intends to enter an occupation that requires writing assignments such as resumes, reports, or proposals, instructions, web pages, abstracts, technical descriptions, and letters and memos in either traditional or electronic format. Other technically-oriented assignments may be included as well. Students explore concepts such as critical thinking, empathy, style, tone, persuasion, precision, simplicity, readability, ethics, etiquette, graphics, electronic and hard copy elements of design, and collaborative writing. Students develop a portfolio to show prospective employers.

Prerequisite: ENG 102

### Online

Course	Sec	Day	Time	Room	Instructor
ENG 205	B1	Course	Offered on line	On line	Grochowalski
ENG 205	B2	Course	Offered on line	On line	Grochowalski

## American Literature I 3 credits

This course examines American literature from approximately 1600–1870, covering poetry, fiction, essays, and autobiography. Students explore literary movements and major authors of major American time periods including the Puritan, colonial, Revolutionary, Romantic, Transcendentalist, and abolitionist eras. Students examine how writers influenced both their own times and subsequent generations.

Prerequisite: ENG 102

### Online

Course	Sec	Day	Time	Room	Instructor
ENG 251	B1	Course	Offered on line	On line	Rayshick

## Fire Science

### Principles of Emergency Service 3 credits

This course introduces fire protection systems and fire strategy and tactics. Students explore career opportunities in fire protection and related fields, and the philosophy and history of fire protection and fire service. Students learn about fire loss analysis, the organization and function of the public and private fire protection services, and the basic chemistry and physics of fire. The course examines fire departments as part of the local government, laws and regulations affecting the fire service, fire service nomenclature, and specific fire protection functions.

### Online

Course	Sec	Day	Time	Room	Instructor
FSC 101	B1	Course	Offered on line	On line	Schmohl

### Fire Fighting Tactics & Strategy 3 credits

This course reviews fire chemistry, equipment, and personnel. Students learn basic fire fighting tactics and strategies, methods of attack, and preplanning to prevent fire problems. Fire situations are presented for analysis and study of accepted fire fighting practices.

### Online

Course	Sec	Day	Time	Room	Instructor
FSC 131	B1	Course	Offered on line	On line	Cady

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## Gerontology

### Introduction to Aging 3 credits

This course focuses on issues in gerontology and normal psychological, social, and physical changes in the older adult. Students examine relevant theories in aging: disengagement, activity, developmental, and the concept of Shrinking Life Space. Students learn about problems facing the older person, such as isolation, dependency, illness, and institutionalization. External forces impinging on the aging individual will also receive attention. The course methodology includes guest lecturers from the community, visits to geriatric institutions, and experiences with the elderly population.

Prerequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
GRT 101	B1	Course	Offered on line	On line	West, Do

## History

### World History I: Beginning to 1500 3 credits

This course examines the world's ancient and pre-modern peoples, cultures, and civilizations. It emphasizes themes such as the development of agriculture and rise of civilization, formation of empires, development of religions, and economic and cultural interaction between regions of the world.

Prerequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
HST 104	B1	Course	Offered on line	On Line	Gould, D

## Hotel & Restaurant Management

### Hospitality Law & Ethics 3 credits

This course examines the US laws that most impact hospitality operations in the areas of lodging, beverage service, foodservice, casino management, and convention planning. Using case studies, students learn hospitality management policies in order to minimize legal liability; the responsibilities and legal rights under the law for innkeepers, bartenders and employers; and the consequences of failing to meet those responsibilities.

### Online

Course	Sec	Day	Time	Room	Instructor
HRM 121	B1	Course	Offered on line	On line	Hutchinson

# Course Schedule | Online Spring | 2012

## Human Services

### Introduction to Human Services 3 credits

This course focuses on the historical, political and social aspects of human services. Students gain core knowledge of common problems in living, consumer populations, helping models. Students learn about the agencies and services available in the Worcester area and identify strategies for effective delivery of human services. Upon completion students will be able to explain the value of participant empowerment, access appropriate supportive services, and expeditiously navigate the human service system.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
HUS 101	B1	Course	Offered on line	On line	Clements

### Cultural Competence for Human Service Workers 3 credits

This course prepares human service workers in developing awareness and skills to provide culturally competent services to meet the needs of a changing population. Students examine three core principles: the worker must be self-reflective and examine biases within themselves and their profession; the worker must have core knowledge about minority group value systems, beliefs about health and personal problems, histories, traditions and natural systems of support inherent in one's culture; and the worker must be able to demonstrate an integration of this knowledge and personal reflection with practice skills.

Prerequisite: ENG 101, HUS 101, SOC 101

#### Online

Course	Sec	Day	Time	Room	Instructor
HUS 221	B1	Course	Offered on line	On line	West, Do

## Humanities

### Critical Thinking & Problem Solving 3 credits

This course focuses on the development of reasoning and problem solving skills by analyzing controversial public issues and practical everyday problems. Students explore problem solving strategies, argumentation, cultural differences in reasoning, inductive and deductive logic, cause and effect reasoning and the role of perception in thinking. Other topics include studying the scientific method, propaganda, manipulation of language in advertising and political speeches, and the use of emotional appeals in public discourse. Students write argumentative essays to explore different facets of the course topics.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
HUM 101	B1	Course	Offered on line	On line	Rayshick
HUM 101	B2	Course	Offered on line	On line	LaFontaine, T
HUM 101	B3	Course	Offered on line	On line	LaFontaine, T
HUM 101	B4	Course	Offered on line	On line	LaFontaine, T
HUM 101	B5	Course	Offered on line	On line	LaFontaine, T
HUM 101	B6	Course	Offered on line	On line	LaFontaine, T

### Internet Communications 3 credits

This course examines humans' relationship to cyberspace by analyzing the content and development of Web sites, search services, and e-mail. Students focus on material published in the humanities and evaluate sources from online databases to write a research project. Course topics include privacy and security issues, cyber ethics, copyright, online learning, censorship, Internet access, and Internet standards. Students create an online portfolio of course projects to demonstrate their ability to navigate the Internet with efficiency and to gain awareness of its power and limitations.

Prerequisite: ENG 100 and computer literacy

#### Online

Course	Sec	Day	Time	Room	Instructor
HUM 142	B1	Course	Offered on line	On line	Booth, S
HUM 142	B2	Course	Offered on line	On line	Booth, S

## Interdisciplinary Studies

### Ethical Issues in Business & the Professions 3 credits

This course is designed to examine the ethics of professional conduct, evaluate business practices and organizations, using the case study methods and confront students' ethical challenges facing the professional in the light of current business goals, values, and practices in relation to the constantly changing societal expectations.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
IDS 113	B1	Course	Offered on line	On line	Johnson, Ca

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## Liberal Arts

### Introduction to Liberal Arts 3 credits

This course introduces the liberal arts intellectual tradition, the purpose of which is to help students on the journey of learning how to learn. It draws from the humanities, mathematics, natural, social, and behavioral sciences. Students examine a broad range of knowledge and possible professions, explore how human knowledge has developed and grown through history, and develop the ability to discuss multicultural relationships and connections among the various liberal arts through written and oral participation and reading from original sources.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
LIB 101	B1	Course	Offered on line	On line	Frederickson

## Management

### Introduction to Business 3 credits

This course provides a broad overview of the business world. Students learn to apply basic business concepts and principles to a variety of business situations. Topics include business terminology, the legal forms of business organizations, the impact of the economy on business, and the basic functions of management including marketing, banking and financing, accounting, and technology.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
MGT 101	B1	Course	Offered on line	On line	Garceau
MGT 101	B2	Course	Offered on line	On line	McLean, J

### Principles of Management 3 credits

This course examines the primary functions of management. Students increase self-awareness; develop personal and interpersonal skills, lead group activities, and organize discussions. They learn how to analyze various business situations, defend possible solutions to problems, and communicate their ideas in effective written and oral formats.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
MGT 211	B1	Course	Offered on line	On line	Garceau
MGT 211	B2	Course	Offered on line	On line	Lucci

### Human Resource Management 3 credits

This course focuses on the role of the human resources department, its function in the organization and how it supports the success of people at work. Students learn how companies recruit and select new employees, determine who gets promoted, and how salary and job performance measurement decisions are made. Students learn the importance of benefits and non-financial factors in selecting an employer, the impact of laws that protect employee rights, and how employees should use the HR staff for guidance on career development, education and training opportunities, grievances, coping with change, and personal issues that affect their jobs.

Prerequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
MGT 215	B1	Course	Offered on line	On line	Lucci

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# Course Schedule | Online Spring | 2012

## Entrepreneurship

3 credits

This course examines entrepreneurship — the ability to organize, manage, own, and assume the risk of a business venture. Students gain an understanding of the role of the entrepreneur, learn how to develop a business plan, and become familiar with business and management functions as they relate to the operations of a business. The areas of finance, marketing, law, tax, insurance, and credit are examined. In addition, students learn the competitive, economic, and personnel considerations necessary to organizing and owning a business.

Prerequisite: ENG 100

### Online

Course	Sec	Day	Time	Room	Instructor
MGT 216	B1	Course	Offered on line	On line	McLean, J

## Marketing

### Principles of Marketing

3 credits

This course presents an overview of marketing management in modern organizations including an introduction to the concept of marketing, the role of marketing in society and the firm, marketing terms, and the various factors that influence marketing decision-making. Students learn how to apply those factors to analyze customers, competition, marketing strengths, and marketing weaknesses. Students study market research and selection, consumer buying behavior, and product development including pricing, promotion, distribution, and global marketing strategies.

Prerequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MRK 201	B1	Course	Offered on line	on line	Lucci
MRK 201	B2	Course	Offered on line	On line	Lucci

### Advertising

3 credits

This course focuses on the role and importance of advertising in the marketing plan of an organization. Students learn how to prepare a detailed advertising plan using the most appropriate media. Topics covered include the history of advertising, selecting effective media, creating an advertising message using the selected media, and how an advertising agency functions.

Prerequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MRK 231	B1	Course	Offered on line	On line	McCarthy, D

## Mathematics

### Basic Mathematics Skills

3 credits

This course is designed for students with little or no background in mathematics. Major topics include the following: whole numbers, fractions, decimals, percents, ratios, proportions, basic statistics (finding mean and reading graphs, charts and tables) and an introduction to algebra. Technology tools are utilized in this course. All students are required to participate in a unified comprehensive final exam to be administered during final exam week and achieve a "C" or better on this exam (or appropriate placement on the placement exam) in order to move on to the next level of math courses.

Prerequisite: Appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 090	B1	Course	Offered on line	On Line	Potvin, E
MAT 090	B2	Course	Offered on line	On Line	Potvin, E

### Beginning Algebra

3 credits

This course covers all basic operations of real numbers, linear and literal equations, graphing lines (using tables, x and y-intercepts), the arithmetic of polynomial expressions including properties of exponents, solving and graphing linear inequalities, perimeters and areas of basic figures, scientific notation and intrasystem metric conversions. Technology tools are utilized in this course. All students are required to participate in a unified comprehensive final exam to be administered during final exam week and achieve a "C" or better on this exam (or appropriate placement on the placement exam) in order to move on to the next level of math courses.

Prerequisite: MAT 090 with a "C" or better on the MAT 090 departmental final exam or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 095	B1	Course	Offered on line	On Line	Rinaldi, C
MAT 095	B2	Course	Offered on line	On Line	D'Alessandro

### Math Skills for Allied Health Careers

3 credits

This course focuses on practical and useful applications of mathematics for students intending to enter the health science fields. Students examine mathematical topics as they relate to health application. Topics include: basic arithmetic computations in health applications; review of algebra; systems of measurement; medication labels; prescriptions, and syringe calculations; modeling health applications with ratios and proportions; dosage calculations; basics of statistics; and logarithms, ionic solutions and pH.

Prerequisite: MAT 095 with a grade of "C" or better on the MAT 095 departmental final exam or by appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 098	B1	Course	Offered on line	On Line	Flaherty, Jr.

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# Course Schedule | Online Spring | 2012

## Intermediate Algebra

3 credits

This course covers major topics in the study of algebra. Students learn to factor polynomials (common factor, grouping, difference of squares and trinomials), perform arithmetic operations on rational expressions and complex fractions, and solve rational, quadratic (by factoring and formula) and literal equations. The course also covers applications including the use of the Pythagorean theorem, understanding the definition of radical expressions, simplifying radical expressions containing numerical and variable radicands, graphing linear equations using slope-intercept concepts, and solving 2x2 systems of linear equations by graphing and elimination. Technology tools are utilized in this course. All students are required to participate in a unified comprehensive final exam to be administered during final exam week and achieve a "C" or better on this exam (or appropriate placement on the placement exam) in order to move on to the next level of math courses.

Prerequisite: MAT 095 with a "C" or better on the MAT 095 departmental final exam or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 099	B1	Course	Offered on line	On Line	Robichaud
MAT 099	B2	Course	Offered on line	On Line	Robichaud
MAT 099	B3	Course	Offered on line	On Line	Woolhouse
MAT 099	B4	Course	Offered on line	On Line	Woolhouse
MAT 099	B5	Course	Offered on line	On Line	Grimaldo, An

## College Algebra

3 credits

This course continues the areas of study presented in Intermediate Algebra with more advanced treatment. Students perform arithmetic operations on rational expressions; solve equations with fractions; factor expressions; simplify complex fractions; simplify exponential expressions, roots, radicals, and rational exponents; solve linear systems using several techniques; use the midpoint and distance formulas; recognize and graph the equation of a circle; solve linear and absolute value inequalities; solve quadratic equations by completing the square and by using the quadratic formula; solve equations containing radicals or absolute values; and perform arithmetic operations on radical expressions and complex numbers.

Prerequisite: MAT 099 with a "C" or better on the MAT 099 departmental final exam or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 100	B1	Course	Offered on line	On Line	Rinaldi, C
MAT 100	B2	Course	Offered on line	On Line	Zona
MAT 100	B3	Course	Offered on line	On Line	Rinaldi, C

## Topics in Mathematics

3 credits

This course explores various areas in contemporary mathematics and consists of two components: required topics and optional topics. Required topics include mathematical patterns and problem solving, consumer finance, probability, statistics and Euclidean and transformational geometry. Optional topics may be chosen from the following: linear functions and applications; numeration systems; sets; logic; graph theory; election theory; apportionment; tessellations and fractals; and cryptography; in addition, instructors may also choose to expand upon the required topics.

Prerequisite: MAT 099 with a "C" or better on the MAT 099 departmental final exam or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 121	B1	Course	Offered on line	On Line	Grimaldo, An

## Statistics

3 credits

This course covers the essentials of statistics. Students learn descriptive and inferential statistics; charts (histograms, frequency polygons, ogives, and pie charts); measures of central tendency (mean, median, mode, and weighted mean); and measures of dispersion (range, variance, and standard deviation). Additional areas of study include discrete and continuous random variables; basic probability theory; the binomial distribution and its application in binomial experiments; standard and non-standard normal distributions; the Central Limit Theorem; confidence intervals for means, proportions, and variances; linear correlation and regression; and the one sample hypotheses test for mean (large and small sample), proportions, and variances.

Prerequisite: MAT 099 with a "C" or better on the MAT 099 departmental final exam or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 122	B1	Course	Offered on line	On Line	Vicente
MAT 122	B2	Course	Offered on line	On Line	Asadoorian

## College Mathematics I: Precalculus

3 credits

This course focuses on the knowledge and skills necessary for advanced mathematics. Students expand binomial expressions using the binomial theorem; solve non-linear, and rational inequalities and write their solutions using interval notation; determine and write linear equations in several forms; explain the concept of function; graph functions using symmetry test; recognize and graph functions, including constant, linear, quadratic, polynomial, rational, exponential, and logarithmic functions; use function transformation techniques; perform composition and arithmetic operations on functions; find and graph inverses of functions; use properties of logarithms; and solve logarithmic and exponential equations.

Prerequisite: MAT 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 123	B1	Course	Offered on line	On line	Zona

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# Course Schedule | Online Spring | 2012

## College Mathematics II: Trigonometry 3 credits

Students solve right and oblique triangles and related applications; perform vector computations and use vector concepts to solve applications; determine the values of trigonometric ratios of angles and the values of inverse trigonometric ratios of real numbers; work with angles measured in degrees-minutes-seconds or radians; solve uniform circular motion problems; learn the traditional trigonometric identities and use them to prove other identities; perform transformations of basic trigonometric graphs; write equations to describe specific instances of harmonic motion; and solve trigonometric equations.

Prerequisite: MAT 123

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 124	B1	Course	Offered on line	On Line	Woolhouse

## Applied Calculus 3 credits

This course begins with a review of the basic concepts of functions and function notation. After introducing the limit and continuity theorems on an intuitive basis, the study of differentiation begins. Typical derivative formulae are applied to polynomial, rational, implicit, exponential and logarithmic functions. Application topics include extrema, related rates, biochemical reaction, cost-benefit analysis, growth and decay, maximizing revenue, elasticity of demand, inflation, amortization, drug concentration, drug reaction, and continuous probability models. The basic rules of integration and the substitution method are introduced along with Riemann Sums and the Fundamental Theorem of Calculus. This course is designed for students considering a major in business, pharmaceutical, social, and life sciences.

Prerequisite: MAT 123

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 231	B1	Course	Offered on line	On Line	Horton, L

## Calculus I 4 credits

This course begins with a review of basic concepts of functions and functional notation. After introducing the limit and continuity theorems on an intuitive basis, the study of differentiation begins. Typical derivative formulae are applied to polynomial, rational, trigonometric, inverse trigonometric, implicit, exponential and logarithmic functions. Application topics include extrema, related rates, curve sketching, compound interest, growth and decay, velocity and acceleration. The basic rules of integration and the substitution method are introduced along with Riemann sums and the Fundamental Theorem of Calculus.

Prerequisite: MAT 124

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 233	B1	Course	Offered on line	On Line	Horton, L

## Probability & Statistics for Engineers & Scientists 3 credits

This course focuses on statistics and engineering. It covers interpretation, description, and treatment of data; probability and probability distributions; binomial, geometric, and hypergeometric methods; poisson processes; gamma, beta, and weibull distribution; populations and samples; inferences, hypotheses, and significance tests; Bayesian estimates; curve fitting; the method of least squares; curvilinear regression, correlation, and experimental design. Students use calculators and statistical software to solve statistical problems.

Prerequisite: MAT 233

### Online

Course	Sec	Day	Time	Room	Instructor
MAT 237	B1	Course	Offered on line	On Line	Poyser

## Philosophy

### Man and Morality: An Introduction to Ethics 3 credits

This course focuses on philosophical principles for human action. Students critically examine major issues in ethics, morality, and values such as: What is a human act? To what extent are we free and have choices? What is the nature of responsibility? What constitutes happiness, good, and evil?

Corequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
PHI 131	B1	Course	Offered on line	On line	Beaudry, Am

## Physics

### General Physics I (Calculus Based) 4 credits

This course covers measurement, kinematics, vectors, dynamics, Newton's laws, circular motion, gravitation, work and energy, conservation of energy, linear momentum and collisions, rotational motion about a fixed axis, moments of inertia, and angular momentum and its conservation. Students perform related laboratory experiments.

Prerequisite: MAT 233

### Online

Course	Sec	Day	Time	Room	Instructor
PHY 105	B1	Course	Offered on line	On line	Schwartz

\*\*Requires ON-CAMPUS LAB, PHY 105L-01

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# Course Schedule | Online Spring | 2012

## Political Science

### United States Government 3 credits

This course examines the structure and operation of the United States government as it has developed within the framework of the Constitution. Students explore topics such as civil liberties, political parties, the election process and contemporary problems in government and politics.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
PSC 201	B1	Course	Offered on line	On Line	Cook, L
PSC 201	B1	Course	Offered on line	On Line	Cook, L

### State & Local Government 3 credits

This course examines the development, organization and function of state and local governments within the United States. Students analyze and compare functions of the governors, state legislatures and courts, as well as explore the relationships among local, state and federal governments.

Prerequisite: ENG 100

#### Online

Course	Sec	Day	Time	Room	Instructor
PSC 221	B1	Course	Offered on line	On Line	Randall, J

## Psychology

### Introduction to Psychology 3 credits

In this survey course, the student becomes aware of and appreciates the various influences upon behavior. The topics covered include, but are not limited to, the nervous system, sensation and perception, motivation, learning, emotion, and personality. Through an investigation of these areas, within a multiplicity of cultural contexts, the student understands the diversity of the human condition.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
PSY 101	B1	Course	Offered on line	On line	Vallante
PSY 101	B2	Course	Offered on line	On line	Scichilone

### Self Assessment & Career Planning 3 credits

This course emphasizes self-discovery, the workplace, life decisions, and career/future planning within a multicultural framework. Students explore psychological theories and apply those theories to their own personal situations to formulate career/life plans. Students identify their abilities and explore their values, interests, motives, motivations, behaviors, personalities, and interaction styles. Students acquire and develop skills for career planning, job searching, and understanding job satisfaction to develop a Career/Life Plan (CAPS Plan).

Prerequisite: ENG 090 and ENG 095 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
PSY 115	B1	Course	Offered on line	On Line	Arner Welsh
PSY 115	B2	Course	Offered on line	On Line	Tighe Stickle

### A Survey of Life Span Development: Conception to Death 3 credits

This course examines the span of human development from conception to death. Students explore the processes that occur throughout the life stages, the continuity of the life span, and general development and its surrounding issues and events. Students acquire accepted vocabulary for this area of study and relate course topics to their own lives.

Prerequisite: PSY 101; Coreq: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
PSY 121	B1	Course	Offered on line	On Line	Scichilone

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# Course Schedule | Online Spring | 2012

## Human Development I: Conception to Adolescence 3 credits

This course surveys human development from conception through the middle years. Topics include the central issues of biological, psychological, sociological, and cognitive development. Students explore the theories of Freud, Erikson, Piaget, and others. Students examine both stage and behavioristic approaches of viewing human development; the interaction between physical and psychological growth; the relationships and differences between the developing child and societal settings; and cross-cultural research.

Prerequisite: PSY 101

### Online

Course	Sec	Day	Time	Room	Instructor
PSY 123	B1	Course	Offered on line	On Line	Colson

## Human Relations in Organizations 3 credits

This course examines the nature of organizations to facilitate students' entry into, and success within, organizational settings. Topics include the factors that influence individual behavior in organizations and the interrelationships between psychological and other social sciences. Students learn how these sciences contribute to overall organizational experiences and self-development. They examine types of organizations, effective motivational techniques, communication essentials, team development, and leadership practices. Students also examine global and multicultural influences that contributing to the nature of organizations and organizational success.

Corequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
PSY 158	B1	Course	Offered on line	On Line	Tighe Stickles

## Abnormal Psychology 3 credits

This course focuses on issues of mental health and mental illness. Topics include examination of various symptoms and causes of mental illness, current trends in treatment, and new developments in community health resources. Students explore the various approaches used to define and treat abnormal behaviors, including the statistical and absolute models, in order to understand and adopt a sensitive approach toward individuals whose behaviors are symptomatic of a disorder.

Prerequisite: PSY 101

### Online

Course	Sec	Day	Time	Room	Instructor
PSY 262	B1	Course	Offered on line	On Line	Tighe Stickles

## Chemical Dependency 3 credits

This course covers the biological, psychological, and social factors involved in licit and illicit drug use and abuse. Students examine the types of drugs most commonly used and abused; psychosocial consequences of prolonged drug use and abuse; Federal, state, and local regulations governing drug use; efforts made to deal with drug use and abuse and drug related problems; and the nature and varied patterns of drug use and abuse in today's society. The course emphasizes types of drug treatment and counseling and the probable effects of different treatments upon the drug-dependent client.

Prerequisite: PSY 101

### Online

Course	Sec	Day	Time	Room	Instructor
PSY 273	B1	Course	Offered on line	On Line	Scichilone

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# Course Schedule | Online Spring | 2012

## Science

### Climate and Weather: Causes and Effects 3 credits

The focus of this course is the science related to weather and climate, how humans affect weather and climate, and weather and climate's effect on humans. Students use basic laws and theories of physics and chemistry to describe and explain the composition, structure, and energy distribution of Earth's atmosphere plus atmospheric phenomena, such as global warming/cooling, the greenhouse effect, ozone depletion, air pollution, severe storms, rainbows, auroras, weather, and climate. Students examine climate change and techniques to measure climate change and compare Earth's atmosphere to that of other planets.

Prerequisite: "C" or better in MAT 095 on the departmental final exam or appropriate placement score, ENG 100 or equivalent.

#### Online

Course	Sec	Day	Time	Room	Instructor
SCI 104	B1	Course	Offered on line	On line	Berg, A

### Integrated Science: Earth and Space 4 credits

This course focuses on the basic concepts of astronomy and earth science. Students apply fundamental physics and chemistry to the study of the physical world they live in, and, through the laboratory component, gain an understanding of the methods and applications of science. The course is designed for but not limited to students in Elementary and Early Childhood Education Programs.

Prerequisite: ENG 100, MAT 095

#### Online

Course	Sec	Day	Time	Room	Instructor
SCI 105	B1	Course	Offered on line	On line	Duvall, M
**Includes ONLINE LAB					
SCI 105	B2	Course	Offered on line	On line	Giotto
**Includes ONLINE LAB					
SCI 105	B3	Course	Offered on line	On line	Mrowka

\*\*Includes ONLINE LAB

### Integrated Science: The Living World 4 credits

The course covers the basic concepts of life science and examines the interactions of living organisms with the physical world they inhabit. Students apply fundamental physics and chemistry to various topics in biology and environmental science, and, through the laboratory component, gain an understanding of the methods and applications of science. This course is designed for but not limited to students in Elementary and Early Childhood Education programs.

Prerequisite: ENG 100, MAT 095

#### Online

Course	Sec	Day	Time	Room	Instructor
SCI 106	B1	Course	Offered on line	On line	Crowell-Murray
**Includes ONLINE LAB					
SCI 106	B2	Course	Offered on line	On line	Walls
**Includes ONLINE LAB					
SCI 106	B3	Course	Offered on line	On line	Bregman

\*\*Includes ONLINE LAB

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## Sociology

### Introductory Sociology (Principles) 3 credits

This course introduces basic theories and vocabulary of sociology including its historical origins and research process. It examines the major principles that govern the structure and function of society, its institutions, groups, and processes. Students learn people in society decide to meet the social, psychological, economic and everyday needs of its members. The course emphasizes making connections between students' personal lives and the social change occurring around them.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
SOC 101	B1	Course	Offered on line	On Line	Vallante
SOC 101	B2	Course	Offered on line	On Line	Donohue-Berthiaume
SOC 101	B3	Course	Offered on line	On Line	Kapitulik

### Social Problems and Social Change 3 credits

This course examines how social change in the United States produces social problems such as prejudice and poverty, and how these problems affect families and the quality of life in a multicultural society. Students learn to recognize and understand the relationship between on-going social change and the problems that accompany change. Students examine major problems facing society today, separate myth from fact, and analyze these problems and their solutions objectively.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
SOC 111	B1	Course	Offered on line	On Line	Vallante
SOC 111	B2	Course	Offered on line	On Line	Kapitulik

### The Dynamics of Racial & Ethnic Relation 3 credits

This course examines racial and ethnic relations and the major sociological theories used to analyze them, and provides an overview of assimilation and melting pot theory. It emphasizes multiculturalism and focuses on sociological explanations of dominant group/minority group encounters within the contexts of power, poverty, and segregation. Students study contemporary and historical examples of institutional discrimination, and discuss policies and issues related to improving race relations in the United States.

Corequisite: ENG 100 or appropriate placement score

#### Online

Course	Sec	Day	Time	Room	Instructor
SOC 211	B1	Course	Offered on line	On Line	Benway

# Course Schedule | Online Spring | 2012

## Juvenile Delinquency & the Juvenile Justice System 3 credits

### System

This course explores the underlying causes of youth crime as they relate to contemporary methods of social control of delinquency. Students examine biological, psychological, and sociological factors affecting deviant behavior as a broad framework for understanding the response of the juvenile justice system to that behavior.

Corequisite: ENG 100 or appropriate placement score

### Online

Course	Sec	Day	Time	Room	Instructor
SOC 212	B1	Course	Offered on line	On Line	Vita Calkins

## Speech

### Speech Communication Skills 3 credits

This course covers organization and delivery skills, and the development of confidence necessary for effective oral communication. Students organize speeches for both specific and general audiences; and prepare and present extemporaneous and impromptu speeches on a variety on contemporary issues. Students implement principles and practices of public communication through evaluated classroom activities including the use of PowerPoint® presentations.

Prerequisite: Pre/Coreq: ENG 101

### Online

Course	Sec	Day	Time	Room	Instructor
SPH 101	B1	Course	Offered on line	On line	Hamelin, L
SPH 101	B2	Course	Offered on line	On line	Hamelin, L

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