

## **ACE Course Offerings and Descriptions:**

### **ACCT 1000 - Accounting Practices**

Vocabulary and concepts of accounting and bookkeeping for the small business. Provides some knowledge of accounting for working in a business environment and some skills to do the accounting in a small business organization.

(4 cr. hrs.) *Cannot be taken for credit if credit has already been earned for ACCT 1030.*

### **ACCT 1030 - Accounting Principles I (Financial)**

Theories, principles and procedures related to financial or general accounting. Generally accepted accounting principles as they relate to the valuation of assets and equities and the measurement of accrual-based income.

(4 cr. hrs.) *Prerequisite: Placement in MATH 1013 or higher, or instructor consent.*

### **ACCT 1040 - Accounting Principles II (Managerial)**

Introduction to internal and manufacturing accounting: job order, process and standard costing. Includes cost behavior, cost-volume-profit analysis, operating budgets and capital budgeting techniques, cost allocations, segmented reporting and decentralized operations. Statement of cash flows and financial statement analysis.

(4 cr. hrs.) *Prerequisite: ACCT 1030.*

### **ARTS 1000 - Essentials of Art**

An introduction to the visual arts emphasizing the understanding and appreciation of art through a review of the elements and principles of art and design, as well as an examination of two- and three-dimensional art forms, methods and media.

(3 cr. hrs.)

### **AUTO 1010 - Introduction to Automotive Technology**

First of a four-semester sequence of lab and lecture courses which introduces safety practices, symptom analysis, inspection, testing and servicing, and systems interrelationships. Written project and oral presentation required.

(3 cr. hrs.) Lecture.

### **BIOL 1030 - Life Science: Environmental Science**

Inter-relationships between organisms and environment. The impact of human activities such as pollution, resource use, and population growth. Basic ecological concepts provide a foundation for understanding environmental problems and global change. Labs will illustrate the complexity associated with environmental change.

(3 cr. hrs.) Lecture/laboratory. *Recommended for students who have completed a previous biology course or with instructor consent.*

### **BIOL 1510 - General Biology I**

Emphasizes the modern aspects of biology and its techniques. BIOL 1510 includes biochemistry, cell structure and physiology, genetic mechanisms, a survey of the five kingdoms of organisms, and plant structure and physiology. For math/science students.

(4 cr. hrs.) *Prerequisite: High school biology; high school chemistry is strongly recommended. Lecture/laboratory. Lab fee.*

## **BIOL 1520 - General Biology II**

Emphasizes animal diversity, reproduction, physiology and development, evolution, behavior, and ecology. For math/science students.

(4 cr. hrs.) *Prerequisite: BIOL 1510 or instructor consent. Lecture/laboratory. Lab fee.*

## **BUOT 1010 – Foundations for Word Processing**

Development of basic touch-typing skills and speed building within the framework of an office environment. Document formatting of memos, business letters, tables, outlines, and manuscripts. Uses a word processing software package on a microcomputer.

(3 cr. hrs.) *Laboratory.*

## **BUOT 1062 - Word Processing for Non-Major**

Using microcomputer word processing software for basic word processing functions including editing, formatting, indenting, columns, tables and document enhancements.

(1 cr. hr.) *Laboratory.*

## **CADD 1500 – AutoCAD I**

Two-dimensional computer aided drafting using personal computer software. Includes use of the operating system, creation and modification of drawings, plotting and application to mechanical drafting discipline.

(3 cr. hrs.) *Prerequisite: MECH 1050 or ENGR 1030 or instructor consent. Lecture/laboratory.*

## **CADD 1700 – Computer Aided Drafting I**

Introduction to the computer aided design (CAD) techniques. Teaches commands necessary to generate two- and three-dimensional engineering drawings through the use of a computer using a solid modeling program.

(3 cr. hrs.) *Prerequisite: MECH 1050 or ENGR 1030 or instructor consent. Lecture/graphics terminal lab.*

## **CHEM 1510 – General Chemistry I**

Principles of chemistry and its quantitative aspects. Stoichiometry, characteristics of matter, structure and bonding, elementary thermo chemistry, solutions, equilibrium, thermodynamics, and electrochemistry. Descriptive chemistry is integrated throughout the course.

(4 cr. hrs.) *Prerequisite: CHEM 1010, high school chemistry, or instructor consent. Intended for, but not limited to, math/science students. It is recommended that students be familiar with algebraic and logarithmic calculations; high school physics is strongly suggested. Lecture/laboratory.*

## **CHEM 1520 - General Chemistry II**

Principles of chemistry and its quantitative aspects. Stoichiometry, characteristics of matter, structure and bonding, elementary thermo chemistry, solutions, equilibrium, thermodynamics, and electrochemistry. Descriptive chemistry is integrated throughout the course.

(4 cr. hrs.) *Prerequisite: CHEM 1510. Intended for, but not limited to, math/science students. It is recommended that students be familiar with algebraic and logarithmic calculations; high school physics is strongly suggested. Lecture/laboratory. Lab fee.*

## **CRJ 1010 - Introduction to Criminal Justice**

Agencies and processes in the criminal justice system - legislature, police, prosecutor, public defender, courts and corrections. Roles and problems of law enforcement in a democratic society, component interrelations and checks and balances.

(3 cr. hrs.)

### **CSIT 1390 - Computer Literacy & Microcomputer Applications**

Student will complete projects integrating spreadsheets, databases, word processing and graphic presentations with embedding and linking applications. Graphic User Interface (Windows operating system) will be utilized throughout the semester. Hardware analysis, operating system comparison, the binary numbers system manipulation, and telecommunications and network technology.

(4 cr. hrs.)

### **CSCS 1200 - Computer Essentials**

Theories and applications of computers. Includes computer architecture, hardware, software, number coding, problem solving paradigms, microcomputer applications, network technology, computer ethics, computer careers, e-commerce, and system software.

(4 cr. hrs.)

### **CSNT 1200 - Network Fundamentals**

Network standards and terminology are introduced. Different media and their properties. Introduction to protocols and architectures.

(4 cr. hrs.) Lecture/laboratory.

### **CSNT 1400 -LAN-WAN Networking**

Discussion of local area networks, wide area networks, protocols, topologies, transmission media, internet-working, switching, bridging, and routing. Configuration of current networking operating systems, and transmission protocols (TCP/IP) for network access is covered. Practical, hands-on experience configuring and implementing the lecture topics.

(4 cr. hrs.) Lecture/ laboratory. *Prerequisite: CSNT 1200.*

### **CSST 1051 -Introduction to Spreadsheets**

Use of a microcomputer and current application software to introduce the accounting, arithmetic, and analytical capabilities of the electronic spreadsheet. Spreadsheet construction, pointer movement, arithmetic and logical operations, formulas and functions, file concepts, printing, graphics capabilities, and data management.

(1 cr. hr.) Lecture/laboratory *Prerequisite: Math 1015 or instructor consent.*

### **CSWT 1200 - Web Site Development Fundamentals**

Web page development techniques using HTML, XHTML, and web site authoring software. Presents skills necessary to build, deploy, and manage professional web pages. Topics include basic tags and more advanced features while emphasizing accessibility, compatibility, security, and emerging Internet trends.

(3 cr. hrs.) Lecture/laboratory. *Prerequisite: Be taking or have taken CSST 1031.*

### **ECON 2001 - Principles of Economics - Macro**

U. S. macro-economic goals, the American market system, price determination, distribution of income, government taxation and spending, national income accounting, fiscal policy, and monetary policy.

(3 cr. hrs.) *Prerequisite: MATH 1013 and eligible to enroll in ENGL 1010.* Upper-level course.

### **ECON 2002 - Principles of Economics - Micro**

Elasticity of supply and demand, utility theory, production cost analysis, profit maximization, monopoly and government regulation, labor organization, international trade and finance, economics of growth, resource depletion, and pollution.

(3 cr. hrs.) *Prerequisite: MATH 1013 and eligible to enroll in ENGL 1010.* Upper-level course.

**EMS 1000 - Certified First Responder**

Basic life support and orientation to trauma and general medical emergencies.

(4 cr. hrs.) *Prerequisite: Sixteen years old by end of course.*

Lecture/laboratory. May be used to fulfill Wellness Awareness requirement.

**EMS 1100 - EMT: Basic**

Emergency medical techniques within the responsibilities of an EMT-A providing emergency care with an ambulance service. Prepares students to take test for New York State EMT certification.

(8 cr. hrs.) *Prerequisite: Eighteen years old by the end of course.*

Lecture/laboratory. Maybe used to fulfill Wellness Awareness requirement.

**ENGL 1010 - College Composition I**

Essay writing designed to sharpen the student's perceptions of the world and to facilitate communications with correctness, clarity, unity, organization, and depth. Assignments include expository writing, argumentation, and research techniques.

(3 cr. hrs.) *Prerequisite: Placement or ENGL 0950. Writing Process.*

**ENGL 1020 - College Composition II**

Writing course designed to advance critical and analytical abilities begun in ENGL 1010. Literary analysis essays on works of fiction, poetry, and drama.

(3 cr. hrs.) *Prerequisite: ENGL 1010 and satisfactory completion of all reading skills placements. Writing Process.*

**ENGR 1010 - Engineering Orientation**

Aspects of engineering study and the engineering profession. Methods of solution of engineering problems.

(2 cr. hrs.) *Prerequisite: Students must be enrolled in the Engineering Science program.*

**FREN 2010– Intermediate French**

Development of greater facility in reading, writing, speaking, and understanding the language through a systematic review of its structures. Representative readings introduce the civilization of France.

(4 cr. hrs.)

**FREN 2130 - Readings in French Literature I**

Surveys French literature from the late nineteenth century through the twentieth. Includes current news items and topics for conversation that apply to daily life.

(3 cr. hrs.) *Prerequisite: FREN 2070, 2080. Upper-level courses.*

**FREN 2140 - Readings in French Literature II**

Surveys French literature from the late nineteenth century through the twentieth. Includes current news items and topics for conversation that apply to daily life.

(3 cr. hrs.) (ASN). *Prerequisite: FREN 2070, 2080. Upper-level course.*

**FREN 2180 - Composition & Conversation**

A thorough analysis of the language. Intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and more informed class discussions and conversations.

(4 cr. hrs.) *Prerequisite: FREN 2010, 2070 or four years of high school French. Lecture/recitation/laboratory. Upper level course.*

**FREN 2310 - Brief Introduction to French Literature**

Advanced study with an introduction to serious reading of some of the great writers of literature. Develops the ability to exchange ideas through writing and discussion in the foreign language.

(3 cr. hrs.) (ASN). *Prerequisite: ENGL 1010, FREN 2180. Upper level course.*

### **FYEX 1000 - First Year Experience**

This course facilitates intellectual and social integration of first year students into the academic community. The course provides specific methods and strategies, which students may adopt to promote personal growth and success both in the college environment and throughout life.

(3 cr. hrs.)

### **GERM 2010—Intermediate German**

Development of greater facility in reading, writing, speaking, and understanding the language through a Systematic review of its structures. Representative readings.

(4 cr. hrs.) *Prerequisite: GERM 1020 or three years of high school German.*

### **GERM 2180 - Composition & Conversation**

A thorough analysis of the language. Intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and class discussions and conversations.

(4 cr. hrs.) *Prerequisite: GERM 2010, 2070 or four years of high school German. Lecture/recitation/laboratory.* Upper-level course.

### **GOVT 1010 - American Federal Government**

Theories and practices of American Federal Government with emphasis on the national level. Changing relationships between the branches of the national government, policy formulation, political parties, pressure groups, and the growth of presidential powers.

(3 cr. hrs.) Writing Content Area.

### **HIST 1110 - American History I**

Dreams and concepts brought to the New World and their development into America's institutions and social fabric. Conflict and consensus among groups, dilemmas facing revolutionaries and reformers, and ways economic, political and social changes have occurred.

(3 cr. hrs.) *Prerequisite: Eligible to take ENGL 1010 (College Composition).* Writing Content Area.

### **HIST 1120 - American History II**

End of the Civil War to the present. Topics include industrial-urbanization, racism, sexism, the new manifest destiny, political changes, and the growth of a modern nation.

(3 cr. hrs.) *Prerequisite: Eligible to enroll in ENGL 1010.* Writing Content Area.

### **HIST 2110- Modern Africa**

Focuses on basic knowledge and understanding of modern Africa, its people, their history and cultures. Its socio-political crises will be examined. Helps to eliminate stereotyping of Bantu African civilizations and exposes students to non-European cultures. Students will become proficient in one specific geographic realm.

(3 cr. hrs.)

### **HLTH 1202 - Perspectives of Drugs**

Motivation for drug use and abuse, specific types of drugs and their identification. Physiological, psychological and legal implications of drug addiction and rehabilitation.

(3 cr. hrs.) *Prerequisite: Eligible to enroll in ENGL 1010.*

### **HLTH 1203 - Perspectives of Alcohol**

Motivation for alcohol misuse and abuse. Physiological, psychological and legal implications of alcohol addiction and rehabilitation.

(3 cr. hrs.) *Prerequisite: Eligible to enroll in ENGL 1010.*

**INDI 1000- Volunteering: Service Learning**

Requirements, obligations, and strategies for successful volunteering. Historical impact of volunteering in U.S. society. Emphasis on benefits of civic engagement and lifelong community involvement. Setting work commitment expectations, identifying skills, and learning basic skills essential to volunteer situations.

(1 cr. hr.) *(May be taken up to 3 times for a total of not more than 3 cr. hrs.)*

**MATH 1310 - Elementary Statistics**

An intuitive approach to statistics. Analysis and description of numerical data using frequency distributions, histograms and measures of central tendency and dispersion, elementary theory of probability with applications of binomial and normal probability distributions, sampling distributions, hypothesis testing, chi-square, linear regression, and correlation. The statistical computer language Minitab will be used.

(4 cr. hrs.) *Prerequisite: MATH 1210, 1230 or equivalent.* A graphing calculator is required; Texas Instruments TI-83 recommended.

**MATH 1610 - Calculus I**

Differential and integral calculus, including elements of analytic geometry. Basic theory and physical applications. Derivatives, considered both algebraically and graphically and as applied to velocity and acceleration, differentials and their use of approximations, the indefinite and definite integrals with applications to area and volume.

(4 cr. hrs.) *Prerequisite: Four years of high school math, including pre-calculus, or either MATH 1411-1412 or MATH 1413. No credit if you have received credit for MATH 1510-1520.* A graphing calculator is required; Texas Instruments TI-83 recommended.

**MATH 1620 - Calculus II**

Continues indefinite and definite integrals with applications to length of curves and surfaces. Calculus of conics, trigonometric, logarithmic, exponential, and hyperbolic functions. Techniques of integration, infinite series, parametric equations and polar coordinates.

(4 cr. hrs.) *Prerequisite: MATH 1610 or equivalent course.* A graphing calculator is required; Texas Instruments TI-83 recommended.

**MCOM 1220- Basic Black & White Photo**

Basic theories and principles of black and white photography. Includes basic camera handling photographic chemical preparation, 35mm roll film processing, projection printing and controls, photographic lighting, and methods of using black and white film.

(3 cr. hrs.) Lecture and activity.

**MECH 1050 - Engineering Graphics I**

Engineering graphics fundamentals, incorporating both manual and computer-aided drafting. Includes freehand sketching, principles of applied geometry, multi-view drawings, dimensioning, sectioned views, pictorials, conventional drawing practices and standards, and an introduction to AutoCAD.

(3 cr. hrs.) *Prerequisite: MATH 1013 or consent of the instructor.* Lecture/laboratory. Lab fee.

**MUSC 1110 - Introduction to Theory**

Music notation, scales, modes, keys, intervals, simple chord progressions, elementary sight singing, and elementary keyboard accompaniment using primary chords.

(3 cr. hrs.) *Prerequisite: MATH 1013 or higher.*

**MUSC 1120 - Introduction to Harmony**

Part writing, harmonic analysis, modulation, melodic and harmonic dictation.

(3 cr. hrs.) *Prerequisite: MUSC 1110.* Upper-level course.

**PFIT 1007- Lifeguard Training**

Develop knowledge and skills to manage aquatic emergencies. Satisfies NYS requirement to become a lifeguard.

(1 cr. hr.) *Prerequisite: At least 15 years of age; strong swimming skills.* Lecture/activity.

**PFIT 2007- Water Safety Instructor**

Preparation for qualification as instructor in Red Cross Water Safety. Emphasis is on swimming strokes, life saving skills, and teaching techniques.

(2 cr. hrs.) Lecture/activity.

**PHYS 1820 - Physics I**

Mechanics, including vectors, particle kinematics and dynamics, work and energy, impulse and momentum, rotational motion, and gravitation and fluid mechanics.

(4 cr. hrs.) *Prerequisite: MATH 1610 or instructor consent.* Lecture/laboratory. Calculus-based, intended for students majoring in engineering or the physical sciences. Meets General Education requirement in Natural Sciences.

**SOCI 1010 - Introduction to Sociology**

Social and cultural factors in the origin, structure and functioning of group life. Sub-divisions to be emphasized include social structure, culture, socialization, institutions, and stratification.

(3 cr. hrs.) *Prerequisite: Eligible to enroll in ENGL 1010.*

**SPAN 2010 - Intermediate Spanish**

Development of facility in reading, writing, speaking and understanding the language through a systematic review of its structure. Representative readings as an introduction to Spanish civilizations. (4 cr. hrs.)

**SPAN 2130 - Modern Spanish Literature I**

Reading and analyzing Spanish and Latin American literature while maintaining or improving writing skills, aural comprehension, grammar use, and depth of vocabulary. Conversation skills practiced while discussing assigned readings and participating in dialogues and interviews.

(3 cr. hrs.)

**SPAN 2140 - Modern Spanish Literature II**

Reading and analyzing Spanish and Latin American literature while maintaining or improving writing skills, aural comprehension, grammar use, and depth of vocabulary. Conversations skills practiced while discussing assigned readings and participating in dialogues and interviews.

(3 cr. hrs.) (ASN) *Prerequisite: SPAN 2130.*

**SPAN 2180 - Composition & Conversation**

A thorough analysis of the language. Intensive discussion of grammar, usage, style and vocabulary, enhancing expression through composition, oral reports and more informed discussions and conversations.

(4 cr. hrs.) *Prerequisite: SPAN 2010 or equivalent, or instructor consent.* Lecture/recitation/laboratory and literature studies. Upper-level course.

**SPAN 2310 - Brief Introduction to Literature**

Advanced study in the language with an introduction to serious reading of some of the great writers of literature. Conveys ideas and develops the ability to exchange ideas through writing and discussion in the language.

(3 cr. hrs.) (ASN). *Prerequisite: ENGL 1010, SPAN 2180.* Upper level course.

**WELL 1000- Introduction to Wellness**

Awareness and participation in a positive, balanced wellness lifestyle. Dimensions of wellness, health related assessments, and the development of personal wellness action plan.

(1 cr. hr.) Cannot earn credit for this course and HLTH 1207.