

2023-2024 ACE Courses and Prerequisites

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Course	Course Description	Prerequisite(s)
ACCT 1000 : Accounting Practices	<p>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.</p> <p>Cannot be taken for credit if credit has already been earned for ACCT 1030.</p> <p>(4 cr. hrs.)</p>	
ACCT 1030: Financial Accounting	<p>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.</p> <p>(4 cr. hrs.)</p>	<p><i>HS GPA 85% or higher AND 9th Grade MATH</i></p> <p><i>Eligible to take ENGL 1010 and MATH 1110 or higher.</i></p>
ARTS 1000: Essentials of Art	<p>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.</p> <p>Meets SUNY General Education requirements in The Arts.</p> <p>(3 cr. hrs.)</p>	

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Course	Course Description	Prerequisite(s)
<p>ARTS 1310: Art History: Prehistoric to Medieval</p>	<p>Art history deals with one of the most human impulses- the making of objects and images. This course covers a very long period of time (Prehistory to Medieval Europe) and a variety of world locations. The topics include discussion of how artworks were made including materials used, the cultural elements that led to their creation, and a variety of other issues related to understanding how these works fit into human cultural history.</p> <p>Meets SUNY General Education requirements in Humanities and The Arts.</p> <p>(3 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to take ENGL 1010.</i></p>
<p>ARTS 1320: Art History: Renaissance to Modern</p>	<p>Art history deals with one of the most human impulses- the making of objects and images. This course covers a very long period of time (Renaissance to Modern) and a variety of locations (predominantly Western art). The topics include discussion of how artworks were made including materials used, the cultural elements that led to their creation, and a variety of other issues related to understanding how these works fit into cultural history. Writing in content area.</p> <p>Meets SUNY General Education requirements in Humanities and The Arts.</p> <p>(3 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010</i></p>

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Course	Course Description	Prerequisite(s)
BIOL 1010: Life on Earth I	<p>Explores the biological principles that govern living organisms; surveys bacteria, protists, fungi and plants; and investigates reproduction and growth of plants. Emphasizes the ecology of the groups at individual and community levels. Designed for non-science majors.</p> <p>Lecture/Laboratory.</p> <p>Meets SUNY General Education requirement in Natural Science.</p> <p>(3 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010</i></p>
BIOL1020: Life on Earth II	<p>Surveys the animal kingdom with emphasis on diversity, complexity, ecology and sustainability. Emphasizes animal biology, including organ systems and genetics. Designed for non-science majors.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(3 cr. hrs.) <i>Lecture/Laboratory.</i></p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010</i></p>

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Course	Course Description	Prerequisite(s)
BIOL 1030: Introduction to Environmental Science and Sustainability	<p>Students learn the interrelationships between humans and their environment by exploring the effects of the environment on organisms as well as sustainable solutions in the context of people, the planet, and profits. Topics include human population, biodiversity, ecosystem services, energy use, global climate trends, and food and water security. Designed for non-science majors. Cannot receive credit for this course if previously received credit for BIOL 1500.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(3 cr. hrs.) <i>Lecture/Laboratory</i>.</p>	<p><i>Eligible to enroll in ENGL 1010</i></p>
BIOL 1050: Intro to Human Biology	<p>Covers body chemistry, the organ systems, human genetics, and human ecology. Laboratory offers but does not require vertebrate dissection. Designed for non-science majors.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(3 cr. hrs.) <i>Lecture/Laboratory</i>.</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010</i></p>

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Course	Course Description	Prerequisite(s)
BIOL 1210: Principles of Anatomy and Physiology I	<p>Presents an introduction to Anatomy and Physiology including organization of the human body, biochemistry, cells, genetics, and the integumentary, skeletal, muscular, and nervous systems. Laboratory activities reinforce and expand these topics. Course is not recommended for students in the Mathematics and Science program.</p> <p>Meets SUNY General Education requirement in Natural Science.</p> <p>(4 cr. hrs.)</p>	<p><i>High school biology and chemistry with a grade of 75% or higher or college biology and chemistry. Eligible to enroll in ENGL 1010.</i></p>
BIOL 1220: Principles of Anatomy and Physiology II	<p>Continues from BIOL 1210 an introduction to Anatomy and Physiology including the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Laboratory activities reinforce and expand these topics. Course is not recommended for students in the Mathematics and Science program.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p>	<p><i>BIOL 1210</i></p>

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Course	Course Description	Prerequisite(s)
BIOL 1500: Environmental Science	<p>Explores interrelationships between organisms and the 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 and emphasize sustainability. Laboratory includes the observation of plants, algae, bacteria, and animals. For Math/Science and Environmental Science students.</p> <p>Cannot receive credit for BIOL 1030 after successfully completing BIOL 1500. Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p>	<p><i>HS GPA 85% or higher and HS Biology</i></p> <p><i>Eligible to enroll in ENGL 1010, high school biology or one semester of college biology.</i></p>

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Course	Course Description	Prerequisite(s)
BIOL 1510: General Biology I	<p>The modern aspects and techniques of biology will be emphasized. BIOL 1510 will cover scientific methodology, biochemistry, cell structure and physiology, genetic mechanisms, plant structure and physiology, taxonomy, and bacterial, protist, fungal, and plant diversity. For math/science students.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p> <p>Maximum of 18 total students in a single LAB section. If more than 18 students are in the course, they must be broken up into at least 2 sections</p>	<p><i>HS GPA 85% or higher and Placement into college-level math; eligible to enroll in ENGL 1010, 75% or higher in high school biology and high school chemistry or 75% or higher in high school biology and concurrent enrollment in CHEM 1010 or 1020. Successful completion of any 3 or 4 credit college biology course may substitute for high school biology.</i></p>
BIOL 1520: General Biology II	<p>Emphasizes the modern aspects of biology and its techniques. Includes evolution, animal diversity, human and animal anatomy/physiology, animal behavior, reproduction and development, and ecology. Laboratory requires dissection of a preserved fetal pig and various vertebrate organs, as well as the use of living invertebrates and fish. For math/science students.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p>	<p><i>Placement into college-level math; eligible to take ENGL 1010 and 75% or higher in high school biology and high school chemistry or 75% or higher in high school biology and concurrent enrollment in CHEM 1010 or 1020 or BIOL 1510. Successful completion of any 3 or 4 credit college biology course may substitute for high school biology.</i></p>

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Course	Course Description	Prerequisite(s)
BUSN 1003: Personal Budgeting	Introduction to personal budgeting, including budget preparation and analysis, understanding credit reporting agency procedures and credit reports, overview of what types of credit, effective credit card use, and establishing financial goals. (1 cr. hr.) <i>(Note**This course could be incorporated into a business course already offered at the high school).</i>	
BUSN 1030: Business Communications	Effective techniques for oral and written communications. Analyzing and writing letters, memos, and business reports. Proficiency in language mechanics will be assessed. (3 cr. hrs.)	
BUSN 1033: Applied Business Math	The four arithmetic processes and the algebra of business. Application of mathematics to typical business problems. Taxes, insurance, payroll, depreciation, trade and cash discounts, markup, simple interest and bank discounts, and financial statement analysis. (3 cr. hrs.)	<i>9th Grade Math-Algebra</i> <i>Placement in MATH 1110 or higher.</i>

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Course	Course Description	Prerequisite(s)
BUSN 1055: Professionalism	Understanding of individual and workplace needs as they relate to professionalism, team building, and career growth. Topic areas include human relations, business ethics, business etiquette, team building concepts, and career enrichment. Discussion, participation, and role-playing exercises. May be taught in a simulated work environment. (3 cr. hrs.)	
BUSN 1100: Applications and Solutions- Microsoft Office	Communication, decision making, and critical thinking facilitated by the use of software using online tools and word processing, spreadsheets, presentations and databases in a simulated business environment to support other required business courses. (3 cr. hrs.)	
BUSN 2020: Personal Finance	Basic areas of personal finance, such as banking, home financing, insurance, investments, credit financing, and retirement planning. (3 cr. hrs.)	
CADD 1700: Computer Aided Drafting I	Introduction to computer aided design (CAD) techniques. Teaches commands necessary to generate basic three dimensional part models, assemblies and two-dimensional engineering drawings through use of a computer using the solid modeling program, Solid Works. Lecture/graphics terminal lab. (3 cr. hrs.) <i>Lecture/graphics terminal lab.</i>	

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Course	Course Description	Prerequisite(s)
<p>CHEM 1510: General Chemistry I</p>	<p>This is the first course in a two-course sequence, which covers the principles of chemistry and its quantitative aspects. Topics include the atomic theory of matter, characteristics of structure and bonding, reactions and stoichiometry, electronic structure, and the periodic table of the elements. Descriptive chemistry is integrated throughout the course. This course is intended for math/science students.</p> <p>Meets SUNY General Education requirement in Natural Science.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p> <p>Maximum of 18 total students in a single LAB section. If more than 18 students are in the course, they must be broken up into at least 2 sections</p>	<p><i>CHEM 1010 OR high school chemistry, AND</i></p> <p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010. 75% or higher in high school chemistry and placement into MATH 1215 or higher, or CHEM 1020 and placement in MATH 1215 or higher, or CHEM 1010. High school physics and a familiarity with algebraic calculations is strongly recommended.</i></p>

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Course	Course Description	Prerequisite(s)
CHEM 1520: General Chemistry II	<p>This is the second course in a two-course general chemistry sequence, which covers the principles of chemistry and its quantitative aspects. Topics include intermolecular forces and the phases of matter (gases, liquids, and solids), chemical kinetics, chemical equilibrium, properties of solutions, chemical thermodynamics, and electrochemistry. Descriptive chemistry is integrated throughout the course. This course is intended for math/science students.</p> <p>(4 cr. hrs.) <i>Lecture/ Laboratory.</i></p> <p>Maximum of 18 total students in a single LAB section. If more than 18 students are in the course, they must be broken up into at least 2 sections</p>	<p><i>CHEM 1510. High school physics and a familiarity with algebraic/logarithmic calculations is strongly recommended. Meets SUNY General Education requirement in Natural Sciences.</i></p>
CHIN 1010: Beginning Chinese I	<p>Practice in conversation, development of reading and writing characters, and a systematic study of grammar. Attention to the culture of Chinese-speaking countries.</p> <p>Meets SUNY General Education requirement in World Languages.</p> <p>(4 cr. hrs.) <i>Lecture/recitation/laboratory.</i></p>	
CHIN 1020: Beginning Chinese II	<p>Additional practice in conversation, development of reading and writing characters, and a systematic study of grammar. Attention to the culture of Chinese-speaking countries. Lecture/Recitation/Laboratory.</p> <p>(4 cr. hrs.) <i>Lecture / recitation / laboratory. Upper-level course. Meets General Education requirement in Foreign Languages.</i></p>	<p><i>CHIN 1010 or equivalent.</i></p>

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Course	Course Description	Prerequisite(s)
CHIN 2010: Intermediate Chinese I	Development of greater facility in reading, writing, speaking, and understanding the language through systematic continued study of its structures. Attention to the culture of Chinese-speaking countries. Upper-level course. Meets SUNY General Education requirement in World Languages. (4 cr. hrs.) <i>Lecture/Recitation/Laboratory.</i>	<i>CHIN 1020 or equivalent.</i>
CHIN 2020: Intermediate Chinese II	Continued development at the intermediate level of a facility in reading, writing, speaking and understanding the language through systematic study of its structures. Attention to the culture of Chinese-speaking countries. (4 cr. hrs.)	<i>CHIN 2010 or equivalent.</i>
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.)	

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Course	Course Description	Prerequisite(s)
CRJ 1040 : Criminal Procedure Law	Criminal Procedure Law of the State of New York. Applicability of definitions, geographical jurisdictions of offenses, scope of prosecution, rules of evidence, preliminary proceedings, local criminal court, laws of arrest, proceedings from arraignment to plea, pre- trial proceedings, search and seizure. (3 cr. hrs.)	
CRJ 1050 : Penal Law	Penal Law of the State of New York. Application of law and definitions, justification as a defense, anticipatory offenses, offenses against the person, offenses involving damage and intrusion to property. Theft, fraud, public health, morals, and public order. (3 cr. hrs.)	

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Course	Course Description	Prerequisite(s)
CRJ 2015 : Criminal Investigations	<p>A study of the fundamentals of criminal investigations, including general criminal investigative methods, preliminary investigations, and the subsequent phases of investigations. Topics include investigative and crime scene management, utilization of criminalistics experts and forensic science laboratories, sources of information and informants, basic criminal intelligence analysis, interviews and interrogations, documentation and report writing, witnesses, surveillance operations, various types of investigations including undercover and string operations, legal issues and case law, search and seizure warrants, case files, prosecution preparation, courtroom testimony and demeanor, and trails. In addition, the course will review the current role of criminal investigations in terrorism and national security issues.</p> <p>(3 cr. hrs.)</p>	
CSCS 1200: Computer Essentials	<p>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. Lecture/Laboratory. Shelf Life Alert.</p> <p>(4 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to take a college-level composition course and completion of all developmental mathematics requirements.</i></p>

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Course	Course Description	Prerequisite(s)
CSCS 1240: Structured and Object-Oriented Problem Solving	<p>Logic for analyzing problems and communicating problem-solving procedures to the computer. Data types and variables, control structures, arrays, sorting and searching, "common sense" analysis, problem-solving, logic flow charting, pseudo coding, and Unified Modeling Language (UML).</p> <p>(3 cr. hrs.) <i>Lecture/Laboratory. Shelf Life Alert.</i></p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to take a college-level composition course and completion of all developmental mathematics requirements.</i></p>
CSNT 1200: Intro to Networks	<p>A theoretical overview of networks. Introduction to the OSI model, communications media, various network equipment, data transmission, protocols, topologies, architectures, Local area networks, Wide area networks, Routing and Routing protocols, IP addressing and structured cabling.</p> <p>(4 cr. hrs.) <i>Lecture/laboratory.</i></p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Ready to take a college-level composition course and have no developmental reading and mathematics requirements.</i></p>
CSNT 1500: Routing and Switching Essentials	<p>The focus of this course is on learning the architecture, components, and operations of routers and switches in a small network. In this course, you will learn how to configure a router and a switch for basic functionality.</p> <p>By the end of this course, you will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.</p> <p>(4 cr. hrs.)</p>	CSNT 1200

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Course	Course Description	Prerequisite(s)
ECED 1110: Introduction to Early Childhood Education	Survey of early childhood education theories and principles and the alternative settings available for the care and education of young children. Emphasis on defining program quality as it pertains to developmentally appropriate care and other characteristics of the child care environment. (3 cr. hrs.). <i>Lecture/Projects/Field assignments and/or observations.</i> (Special NOTE- Instructor must be certified in B-2nd grade to teach this course)	
ECON 1000: Elements of Economics	Structure and functioning of the U.S. economy. National economic goals, the market system, price determination, taxation and government spending, business cycles, fiscal and monetary policy, international trade. Understanding of current economic events and issues. (3 cr. hrs.)	
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. Meets General Education requirement in Social Sciences. (3 cr. hrs.) <i>Upper-level course.</i>	<i>9th Grade Math</i> <i>AND</i> <i>HS GPA 85% or higher</i> <i>MATH 1110 or higher and eligible to enroll in ENGL 1010</i>

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Course	Course Description	Prerequisite(s)
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. Meets SUNY Gen Ed requirement in Social Science. (3 cr. hrs.) <i>Upper-level course.</i>	<i>9th Grade Math</i> <i>AND</i> <i>HS GPA 85% or higher</i> <i>MATH 1110 or higher and eligible to enroll in ENGL 1010.</i>
EDUC 1010: Foundations of Education	The aims of public education in our society; philosophical, historical, economic, political and social bases of our educational system. Current trends in education; popular myths about the teaching profession; roles, responsibilities, problems and concerns of teachers. (3 cr. hrs.) <i>Field observation.</i> (Special Note: Instructor must be certified in B-2, 1-6th or both to teach this course.)	<i>HS GPA 85% or higher</i> <i>Eligible to enroll in ENGL 1010.</i>
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. Writing Process. Meets SUNY General Education requirement in Written Communication and Required Competency in Information Literacy. (3 cr. hrs.)	<i>HS GPA 85% or higher</i> <i>Placement, ENGL 0980, or concurrent enrollment in ENGL 0999.</i>

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ENGL 1020: College Composition II	<p>Essay writing course designed to advance critical, analytical, and writing abilities begun in ENGL 1010. Literary analysis essays and interpretation on works of fiction, poetry, and drama. Writing Process.</p> <p>Meets General Education requirement in Humanities.</p> <p>(3 cr. hrs.)</p>	<i>ENGL 1010. Meets SUNY General Education requirement in Humanities</i>
ENGR 1010: Engineering Orientation	<p>Aspects of engineering study and the engineering profession. Methods of solution of engineering problems.</p> <p>(2 cr. hrs.)</p>	<i>Three years of high school math including intermediate algebra and trigonometry, or placement into MATH 1225, MATH 1240, or higher.</i>
ENGR 1030: Graphics for Engineers	<p>Techniques and practices of engineering graphics for communication and interpretation of engineering design intent through the use of the three-dimensional parametric modeling program (SolidWorks) and international standard governing geometric dimensioning and tolerancing. (ASME/ANSI Y14.5 and ISO) Engineering freehand sketching and graphically solving problems including pictorial and multi-view drawings, geometric constructions, plane and descriptive geometry, sectioning conventions and coordinate dimensioning and tolerancing.</p> <p>(3 cr. hrs.) <i>Lecture/laboratory.</i></p>	<i>MATH 1412 or higher.</i>

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FREN 2010: Intermediate French	<p>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.</p> <p>Meets SUNY General Education requirement in World Languages.</p> <p>(4 cr. hrs.) <i>Lecture/recitation/laboratory. Upper level course.</i></p>	<i>FREN 1020 or three years of Regents high school French.</i>
FREN 2020: Composition & Conversation	<p>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. Essential for French majors who plan to take upper-level language and literature studies.</p> <p>Meets SUNY General Education requirement in World Languages.</p> <p>(4 cr. hrs.) <i>Lecture/Recitation/Laboratory. Upper-level course.</i></p>	<i>FREN 2010 or 4 years of high school French.</i>
FREN 2310: Brief Introduction to French Literature	<p>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.</p> <p>Meets General Education requirement in Foreign Languages.</p> <p>(3 cr. hrs.) <i>Also fulfills 2000-level English requirement. Upper level course.</i></p>	<i>ENGL 1010 and FREN 2020</i>

2023-2024 ACE Courses and Prerequisites

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Course	Course Description	Prerequisite(s)
FYEX 1000: First Year Experience: Quest for Success	Designed to assist first-year students in adjusting to the college environment as well as becoming familiar with strategies for success. A general orientation to the resources of the college, essential academic success skills to better understand the learning process, and career exploration will be covered. (3 cr. hrs.) <i>Lectures/Discussions/Activities.</i>	
GEOG 1010: World Geography	Examination of the kinds of physical and cultural features encountered on this planet, their location and significance. Course is organized on an economic and political basis considering developed and developing regions. Extensive map work required. (3 cr. hrs.)	
GEOG 1210: Introduction to Geographical Information Systems	Geographic Information Systems covers the underlying geographic concepts and provides computer lab tutorials utilizing GIS mapping software as it applies to case studies in social and natural sciences. Emphasis is placed on the development of investigation using visual evidence, spatial thinking, reasoning with quantities, and collaboration. (3 cr. hrs.) <i>Lecture/Laboratory.</i> Special Note: Can be incorporated into an Environmental Science course or Business course	<u>MATH 1225</u> or <u>MATH1230</u> or higher; or placement in a higher level mathematics, and <u>CSST1051</u> or <u>CSST 1101</u> or <u>TECH1120</u> or <u>BUSN 1100</u> .

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Course	Course Description	Prerequisite(s)
GEOG 2800: Geography Special Topics	An in-depth examination of a significant theme in geography not covered by another course. (3 cr. hrs.)	
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. Meets General Education requirement in Western Civilization. (3 cr. hrs.)	<i>HS GPS 85% or higher</i> <i>Eligible to enroll in ENGL 1010.</i>

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Course	Course Description	Prerequisite(s)
HIST 1030: Global History I: to 1500	<p>Surveys the foundations of the major cultures of today's world from the beginning of recorded history to the early modern age, with an emphasis on how these developments continue to shape the human experience. Students will utilize methods of the social sciences by researching, interpreting, and communicating an understanding of primary and secondary historical sources. This world history course studies human patterns of interaction with a particular focus on change over time, global exchange, and those phenomena that connect people, places and ideas across regional boundaries. Writing in content area.</p> <p>Meets SUNY General Education requirement in World History and Global Awareness.</p> <p>(3 Cr. hrs.)</p>	<p><i>Eligible to enroll in ENGL 1010 (85% on English Regents or Placement Test)</i></p>

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Course	Course Description	Prerequisite(s)
HIST 1040: Global History II: 1500 to Present	<p>Surveys the cultural and continuities of selected world societies during the early modern and modern eras, from the sixteenth century CE to the present. Students will utilize methods of the social sciences by researching, interpreting, and communicating and understanding of primary and secondary historical sources. This world history course studies human patterns of interaction with a particular focus on change over time, global exchange, and those phenomena that connect people, places and ideas across regional boundaries, with an emphasis on the shaping of the modern age and the implications for the future of the global community. Writing in content area.</p> <p>Meets SUNY General Education requirement in World History and Global Awareness.</p> <p>(3 cr. hrs.)</p>	<p><i>Eligible to enroll in ENGL 1010 (85% on English Regents or Placement Test)</i></p>
HIST 1110: American History I	<p>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.</p> <p>Meets SUNY General Education requirement in US History and Civic Engagement.</p> <p>(3 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010.</i></p>

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Course	Course Description	Prerequisite(s)
HIST 1120: American History II	<p>End of Civil War to the present. Topics include industrial-urbanization, racism, sexism, the new manifest destiny, political changes, and the growth of a modern nation.</p> <p>Meets SUNY General Education requirement in US History and Civic Engagement.</p> <p>(3 cr. hrs.)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010.</i></p>
HIST 2030: History of Medieval Europe	<p>Surveys the period of European history extending from late Roman Antiquity to the early Renaissance. Emphasizes the use of primary sources. Explores the tension within medieval civilization between tradition and change, order and disorder. Writing in content area.</p> <p>(3 cr. hrs.)</p>	<p><i>Eligible to enroll in ENGL 1010.</i></p>
HIST 2040: History of Modern Europe	<p>The history of Europe since 1815, beginning with reactionism after the "excesses" of the French Revolution and Napoleon and covering the European alliances and the wars of the 20th century. Upper-level course.</p> <p>(3 cr. hrs.)</p>	<p><i>Eligible to enroll in ENGL 1010.</i></p>

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Course	Course Description	Prerequisite(s)
HIST 2110: Modern Africa	<p>Focuses on basic knowledge and understanding of modern Africa, its people, their history and cultures. Socio-political crises will be examined. Helps to eliminate stereotyping of Bantu African civilizations and exposes students to non-European cultures. Student will become proficient in one specific geographic realm.</p> <p>(3 cr. hrs.) <i>Upper level course.</i></p>	<i>Eligible to enroll in ENGL 1010 (85% on English Regents or Placement Test)</i>
HLTH 1010: Basic Life Support for the Professional Rescuer	<p>Meets the special needs of individuals who are expected to in emergency situations. Presents advanced CPR skills Presents advanced CPR skills and theory.</p> <p>(1 cr. hr.)</p>	
HLTH 1202: Perspectives of Drugs and Society	<p>A comprehensive course addressing the use and abuse of drugs in contemporary society, with emphasis on motivation for drug use and abuse; specific types of drugs and their identification; physiological and psychological implications of drug abuse; legal aspects of drug abuse; and treatment of the person with drug dependence.</p> <p>(3 cr. hrs)</p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010.</i></p>

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Course	Course Description	Prerequisite(s)
HLTH 1203: Perspectives of Alcohol and Society	A comprehensive course addressing the use and abuse of alcohol in contemporary society, with emphasis on motivation for alcohol use and abuse; causes and symptoms of abuse; legal aspects of alcohol abuse; and treatment of the person with alcohol dependence. (3 cr. hrs.)	<i>HS GPA 85% or higher</i> <i>Eligible to enroll in ENGL 1010.</i>
HLTH 1207: Foundations of Personal Health	A comprehensive course addressing the current health problems facing our society, focusing on behavioral health strategies for prevention; risk-reduction; and basic principles and practices involved with attaining and maintaining optimal personal health and wellness. (3 cr. hrs.)	
HUSR 1010: Human Services I	Human services worker's role and the delivery system. Values, vocabulary, and skills appropriate to human services. (3 cr. hrs.) Lecture and required field trips.	Eligible to enroll in ENGL 1010 .
HUSR 1030: Introduction to Helping Skills and Pre-Practicum	Fundamental skills useful in helping relationships: listening, interviewing, confrontation, and problem solving. Video tape sessions provided feedback for evaluation of skills. (3 cr. hrs.) Instruction/Skills Practice.	

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Course	Course Description	Prerequisite(s)
HUSR 1221: Therapeutic Crisis Intervention	Provides the skills, knowledge, and confidence to deal with children in crisis, to be in control in a crisis situation, and to help a child learn and grow from the experience. Ability to restrain a physically aggressive individual is essential. Students cannot earn credit for this course and HUSR 1211 . (2 cr. hrs.)	
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 and commitment expectations, identifying skills, and learning basic skills essential to volunteer situations. May be taken up to 3 times for a total of not more than 3 credit hours. (3 cr. hrs.)	
INTD 1000: Service Learning	Requirements, obligations, and strategies for successful community service. Historical impact of community service in U.S. society. Emphasis on benefits of civic engagement and lifelong community involvement, setting work and commitment expectations, identifying skills, and learning basic skills. Utilize college-level skills in local, regional, and global community building and improvement. May be taken up to 3 times for a total of not more than 3 credit hours. Must be enrolled in at least one other college course or have recent college credit. (3 cr. hrs.)	

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Course	Course Description	Prerequisite(s)
MATH 1310: Elementary Statistics	<p>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, confidence intervals, hypothesis testing, chi-square, linear regression, and correlation. Spreadsheet application and other appropriate technology will be used.</p> <p>A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.</p> <p>Meets SUNY General Education requirement in Mathematics and Quantitative Reasoning.</p> <p>(4 cr. hrs.)</p>	<p><i>11th Grade Math-Algebra2/Trig</i></p> <p><i>Eligible for ENGL 1010, MATH 1150 or higher. MATH 1150, 1215, or 1230 or higher MEET the prerequisite for MATH 1310.</i></p>

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Course	Course Description	Prerequisite(s)
MATH 1411: College Algebra	<p>This course studies polynomial, absolute value, exponential and logarithmic functions. Equations, inequalities and systems of equations are included. Graphing technology will be used. Taking MATH 1411 and MATH 1412 suffice as the prerequisite for Calculus I.</p> <p>A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.</p> <p>Meets SUNY General Education requirement in Mathematics. and Quantitative Reasoning.</p> <p>(3 cr. hrs.)</p>	<p><i>Three Years of High School Math, including intermediate algebra and trigonometry, or MATH 1225 or MATH 1240.</i></p> <p><i>Cannot take both MATH 1411-1412 and MATH 1413 for credit.</i></p>
MATH 1413: Pre-Calculus	<p>The characteristics of elementary real functions including algebraic and graphical analysis, inequalities, absolute values, logarithms, trigonometry of real numbers, plane analytic geometry, polar coordinates, complex numbers and Binomial Theorem. Cannot take both MATH 1411-1412 and 1413 for credit.</p> <p>A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.</p> <p>Meets SUNY General Education requirements in Mathematics.</p> <p>(4 cr. hrs.).</p>	<p><i>4 years of HS Math</i></p> <p><i>MATH 1411.</i></p> <p><i>Cannot take both MATH 1411-1412 and MATH 1413 for credit</i></p>

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Course	Course Description	Prerequisite(s)
MATH 1610: Calculus I	<p>The first semester of differential and integral single variable calculus. Basic theory using algebraic and trigonometric function and applications are covered concurrently. Topics include limits, derivatives, considered algebraically and graphically, differentials and their use as approximations, the indefinite and definite integrals with applications to areas, volumes, surface area, arc length, moments and center of mass.</p> <p>A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.</p> <p>Meets SUNY General Education requirement in Mathematics. and Quantitative Reasoning.</p> <p>(4 cr. hrs.)</p>	<p><i>Four (4) years HS math, including HS Pre-Calculus</i></p> <p><i>MATH 1411-1412 or MATH 1413 or placement. Cannot receive credit for this course and MATH 1510-1520.</i></p>
MATH 1620: Calculus II	<p>A continuation of Calculus I. Topics include calculus of conics, logarithmic, exponential, and hyperbolic functions, techniques of integration, infinite series, parametric equations and polar coordinates.</p> <p>A graphing calculator without a CAS (Computer Algebra System) is required; Texas Instruments TI-83 or TI-84 recommended.</p> <p>Meets SUNY General Education requirement in Mathematics and Quantitative Reasoning.</p> <p>(4 cr. hrs.)</p>	<p><i>MATH 1610 or equivalent HS Calculus course</i></p>

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Course	Course Description	Prerequisite(s)
MECH 1050: Engineering Graphics I	Engineering graphics fundamentals, incorporating both manual and computer-aided drafting. Includes freehand sketching, principles of applied geometry, multiview drawings, dimensioning, sectioned views, pictorals, conventional drawing practices and standards, and an introduction to AutoCAD. (3 cr. hrs.) <i>Lecture/laboratory.</i>	<i>11th Grade Math-Alegbra2/Trig AutoCADD software required Eligible to take college level math.</i>
MUSC 1010: Fundamentals of Music	Fundamental elements of pitch, rhythm, musical notation and symbols, major and minor scales, intervals, and tonality. Course work will involve both written and aural skills. Meets SUNY General Education requirement in The Arts. (3 cr. hrs.) <i>Lecture/Listening/Practice/Discussion</i>	<i>HS GPA 85% or higher Eligible to enroll in ENGL 1010.</i>
MUSC 1110: Music Theory I	Music notation, scales, modes, keys, intervals, simple chord progressions, elementary sight singing, and elementary keyboard accompaniment using primary chords. Meets SUNY General Education requirement in The Arts (3 cr. hrs.).	<i>MUSC 1010 or Instructor permission</i>

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Course	Course Description	Prerequisite(s)
MUSC 2120: Music Theory II	Part writing, harmonic analysis, modulation, melodic and harmonic dictation. (3 cr. hrs.) <i>Upper-level course.</i>	<i>MUSC 1110</i>
PEPD 1007: Lifeguard Training	Develop knowledge and skills to manage aquatic emergencies. Satisfies NYS requirement to become a lifeguard. (1 cr. hr.) <i>Lecture/activity.</i>	<i>At least 15 years of age; strong swimming skills</i>
PHYS 1730: Principles of Physics I	Introductory principles of classical and modern physics. Mechanics of solids, periodic motion and sound, and heat and properties of matter. A transfer course for students majoring in biology, chemistry, mathematics, or health sciences. Students wishing to major in physics may take this course but should transfer to PHYS 1820 , 2830 and 2840 sequence after one semester. Meets SUNY General Education requirement in Natural Sciences. (4 cr. hrs.) <i>Lecture/laboratory.</i>	<i>MATH 1411 or equivalent; (11th Grade Math – Algebra2/Trig) may also be taken with PHYS 1730</i>

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Course	Course Description	Prerequisite(s)
PHYS 1740: Principles of Physics II	<p>The second semester in the physics sequence, continuation of PHYS 1730; electricity, magnetism, optics, and modern physics.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/laboratory.</i></p> <p>Maximum of 18 total students in a single LAB section. If more than 18 students are in the course, they must be broken up into at least 2 sections</p>	<i>PHYS 1730</i>
PHYS 1820: Physics I	<p>The first semester of a three semester sequence in calculus-based physics. Mechanics, including vectors, particle kinematics and dynamics, work and energy, impulse and momentum, rotational motion, and certain aspects of gravitational and fluid mechanics, if time permits. The three-semester, calculus-based sequence, PHYS 1820, 2830, 2840, is intended for students majoring in engineering, mathematics, physics, and computer science.</p> <p>Meets SUNY General Education requirement in Natural Sciences.</p> <p>(4 cr. hrs.) <i>Lecture/laboratory.</i></p> <p>Maximum of 18 total students in a single LAB section. If more than 18 students are in the course, they must be broken up into at least 2 sections</p>	<i>MATH 1610 or concurrently enrolled in MATH 1610</i>

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Course	Course Description	Prerequisite(s)
PSYC 1101: Introduction to Psychological Science	An introduction to psychology. Includes scientific method, measurement in psychology, motivation, learning, thinking and problem solving, perception, behavior disorders and varieties of treatment, biological basis of behavior, social determinants of behavior, human development and personality. Meets SUNY General Education requirement in Social Sciences and SUNY Core Competencies in Critical Thinking and Reasoning, and Information Literacy (3 cr. hrs.)	<i>HS GPA 85% or higher</i> <i>Eligible to enroll in ENGL 1010</i>
SIGN 1010: American Sign Language I	Development of conversational fluency in ASL. Students will accurately Develops self-awareness and audience awareness through oral presentation. Organize and present material in a variety of speaking occasions, including information, visualization, demonstration, argumentation, persuasion. Meets SUNY General Education requirement in Oral Communication. <i>Lecture/Presentations</i>	<i>Eligible to enroll in ENGL 1010</i>

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Course	Course Description	Prerequisite(s)
SIGN 1020: American Sign Language II	<p>Continued development of conversational fluency in ASL. Emphasis on the production and comprehension of increasingly complex linguistic expressions through dialogue and conversation. More complex receptive and expressive skills are fostered through interactive ASL lessons and participatory activities.</p> <p>Meets CCC General Education requirement in Foreign Language for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the deaf.</p> <p>(4 cr. hrs.) <i>Lecture/Laboratory.</i></p>	<u>SIGN 1010</u>
SIGN 2010: American Sign Language III	<p>Continued focus on specific grammatical and cultural topics using non-manual signals and markers. Emphasis is on greater fluency in idiomatic language usage and mastery of vocabulary and syntax. Skill is enhanced through in-class interactions with native language users.</p> <p>Meets CCC General Education requirement in Foreign Language for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the deaf.</p> <p>(4 cr. hrs.) <i>Upper-level course.</i></p>	<u>SIGN 1020</u>

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Course	Course Description	Prerequisite(s)
SIGN 2020: American Sign Language IV	<p>Continued development of grammatical features of ASL, specialized vocabulary and the use of locatives, numbers and fingerspelling. The use of space in ASL discourse will be expanded. Deaf culture will continue to be focused.</p> <p>Meets CCC General Education requirement in Foreign Languages for students who transfer to programs leading to certification in elementary and secondary education or to careers in health or social service agencies where there is likely to be significant contact with the deaf.</p> <p><i>(4 cr. hrs.) Upper-level course.</i></p>	<u>SIGN 2010</u>
SOCI 1010: Introduction to Sociology	<p>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.</p> <p>Meets SUNY General Education requirement in Social Sciences and SUNY Core Competency in Critical Thinking and Reasoning.</p> <p><i>(3 cr. hrs.)</i></p>	<p><i>HS GPA 85% or higher</i></p> <p><i>Eligible to enroll in ENGL 1010</i></p>

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Course	Course Description	Prerequisite(s)
SPAN 2010: Intermediate Spanish	<p>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.</p> <p>Meets SUNY General Education requirement in World Languages.</p> <p>(4 cr. hrs.) <i>Lecture/recitation/laboratory. Upper-level course</i></p>	<p>SPAN 1020 or equivalent or three years of Regents high school Spanish.</p>
SPAN 2020: Composition & Conversation	<p>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.</p> <p>(4 cr. hrs.) <i>Lecture/recitation/laboratory</i></p>	<p>SPAN 2010 or equivalent. <i>Essential for Spanish majors who plan to take upper-level language and literature studies.</i></p>
SPAN 2310: Brief Introduction to Literature	<p>Advanced study in the language with an introduction to serious readings of some of the great writers of literature. Conveys ideas and develops the ability to exchange ideas through writing and discussion in the language.</p> <p>Also fulfills 2000-level English requirement.</p> <p>(3 cr. hrs.) <i>Upper level course.</i></p>	<p>ENGL 1010, SPAN 2020 or equivalent.</p>

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Course	Course Description	Prerequisite(s)
SPCH 1080: Public Speaking	<p>Develops self-awareness and audience awareness through oral presentation. Organize and present material in a variety of speaking occasions, including information, visualization, demonstration, argumentation, persuasion.</p> <p>Meets SUNY General Education requirement in Oral Communication.</p> <p><i>Lecture/Presentations</i></p>	
SUST 1000: Introduction to Environmental Sustainability	<p>This course introduces students to the foundations of sustainability. In the course students will explore the interdisciplinary nature of environmental issues and apply problem solving models from various disciplines. In this hands-on course, students in this course will be asked to apply their knowledge to current environmental issues and to model sustainable behavior.</p> <p>(3 cr. hrs.)</p>	

2023-2024 ACE Courses and Prerequisites

The ACE Courses below are a mixture of Transfer and Career courses. Transfer courses are generally accepted in any program at any higher education institution. Career courses are not necessarily accepted. It's very important to know what higher education institution you are going to attend and what program you are interested in. It is important that you check with the higher education institution to see if the courses you want to take in high school actually fit in the program at that institution. A discussion with your counselor could be helpful.

Course	Course Description	Prerequisite(s)
THEA 1010: Introduction to Theatre	<p>Presents theatre as an all-encompassing art form. Surveys the history of theatre and the diversity of theatrical genres from story-telling to 20th century 'Realism' to performance art. Studies dramatic literature as it relates to practical theatrical production. Examines the collaborative process leading to production. Students present a full production plan as a final project.</p> <p>Meets SUNY General Education requirement in The Arts and Humanities. Meets SUNY Core competency in Information Literacy.</p> <p>(3 cr. hrs.)</p>	
WELL 1000: Introduction to Wellness	<p>Awareness and participation in a positive, balanced wellness lifestyle. Dimensions of wellness, health related assessments, and the development of personal wellness action plan.</p> <p>(1cr. hr.) <i>Cannot earn credit for this course and HLTH 1207.</i></p>	