

EDISON STATE COMMUNITY COLLEGE

ACCOUNTING		Credit Hours	Requisites
ACC 121S	Introduction to Financial Accounting Application of accounting procedures including organization of ledgers, accounts, journals, financial statements, management of cash, inventories, proprietorships, partnerships and corporations.	4	Prerequisite or Co-requisite: MTH 119S; for Paralegal students: MTH 110S.
ACC 122S/	Introduction to Managerial Accounting In-depth study of manufacturing cost accounting with emphasis on job order and process cost systems and the development of managerial skills in using accounting and financial information.	4	Prerequisite: ACC 121S.
ACC 150S	Computerized Accounting I Practical application of Peachtree software for generating financial statements and information using computer products.	2	Prerequisite: ACC 121S.
ACC 151S	Computerized Accounting II Practical application of QuickBooks software for generating financial statements and information using computer products.	2	Prerequisite: ACC 121S.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
AGRICULTURE		Credit Hours	Requisites
AGR 101S	Introduction to Agriculture Overview of the agriculture industry with a focus on food, fiber, and natural resources that surround and support production agriculture; sectors of agriculture, careers in agriculture, leadership and advocacy for agriculture.	3	
AGR 110S	Agricultural Communications & Marketing Exploration into agricultural communications and marketing with a focus on basic economic principles, marketing and sales ideology and techniques, as well as effective written and oral communication.	3	
AGR 121S	Agribusiness I Introduction of agriculture business operations with focuses on entrepreneurship, operations management, and the financial management of agricultural products and services.	3	
AGR 131S	Introduction to Animal Science Introductory study of the principles of routine husbandry of livestock production in agriculture.	4	
AGR 151S	Introduction to Agronomy Introductory study of the basic principles and practices involved within the management, production, and development of field crops as well as soil and environmental sciences.	4	
AGR 171S	Fundamentals of Agricultural Engineering Introduction into the fundamental skills of agricultural power and machinery, agricultural electrification, agricultural structures, skilled trades, and emerging technologies.	3	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
ALLIED HEALTH		Credit Hours	Requisites
ALH 101S	Introduction to Health Care Introductory course for students in the allied health field. Introduces students to health care settings. Course is not intended for nursing majors.	1	
AMERICAN SIGN LANGUAGE		Credit Hours	Requisites
ASL 121S	American Sign Language I Introduction to American Sign Language (ASL) and the Deaf Culture in America. Focus is on building sign vocabulary, finger-spelling, grammar and syntax rules.	3	
ASL	American Sign Language II As a continuation of American Sign Language I,	3	Prerequisite: ASL

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122S	this course is focused on vocabulary building, finger-spelling, facial expressions, body language, use of personal space. Course is not designed to train the student to function as an interpreter for the Deaf.		121S
ASL 123S	Intermediate American Sign Language Enhances and builds upon vocabulary, fingerspelling, American Sign Language (ASL) grammar and syntax. Course is not designed to train the student to function as an interpreter for the Deaf.	3	Prerequisite: ASL 122S
ANTHROPOLOGY		Credit Hours	Requisites
ANT 121S	Introduction to Anthropology Survey of anthropology. The physical and cultural diversity of human beings from the earliest days to the present will be explored.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
ANT 123S	Non-Western Cultures Exploration of the enormous cultural diversity found among non-Western peoples of the world. Selected societies from Africa, Asia, the Pacific, and Native Americans of the New World will be studied.	3	
ANT 125S	Introduction to Archaeology Introduction to the field of anthropological archaeology. The goals, history, and methodology of archaeology will be discussed.	3	
ART		Credit Hours	Requisites
ART 101S	Introduction to the Macintosh Study of the Macintosh operating system, recent software and hardware for the Mac.	2	
ART 123S	Ancient Art History Historical development of western art from Prehistoric to the Baroque and Rococo periods. Selected artists and works of art in architecture, painting, and sculpture are included.	3	
ART 124S	Art History: the Modern Era Historical development of Western art from Neoclassicism through current trends. Selected artists and works of art in painting, sculpture, photography, and architecture are included.	3	
ART 126S	Color Theory Principles and techniques for the perception and effective use of color in all media. Includes work with values, neutrals, basic color schemes and Albers' color theories.	3	
ART 127S	Basic Design Introduction to the elements and principles of art and design. Emphasis is on theories and the principles of two-dimensional organization.	3	
ART 130S	Drawing I Fundamental techniques of drawing in pencil, charcoal, and ink. Emphasis is on realistic representation and visual observation.	3	
ART 131S	Drawing II Intermediate course in drawing. Emphasis is on design and composition, technical command of materials, and continued development of visual awareness.	3	Prerequisite: ART 130S.
ART 138S	Ceramics I Fundamentals of working with clay, including preparation, coil work, slab construction, pinch pot construction methods, throwing, glazing, decoration techniques, and kiln usage.	3	
ART 143S	Introduction to Sculpture Introduction to basic processes, materials and concepts of sculpture on a functional basis and as a form of expression.	3	
ART 144S	Raku Introduction to rapid-fired pottery processes using special clay, glazes and firing techniques. Raku techniques are practiced to create a series of related works.	3	
ART 150S	Painting I Techniques of painting and materials. Subject matter includes still life, landscape and figurative studies.	3	Prerequisite: ART 130S and ART 126S or ART 127S, or instructor permission.
ART 151S	Painting II Continuation of ART 150S emphasizing advanced techniques, design, composition and individual development in creativity and style.	3	Prerequisite: ART 150S.

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ART 153S	Watercolor Painting I Fundamentals of painting in watercolors. Emphasis is on the concepts of positive and negative painting, brush technique, color studies and wet and dry application of paint	3	Prerequisite: ART 130S and ART 126S or ART 127S, or instructor permission.
ART 154S	Watercolor Painting II Study of traditional and contemporary watercolor painting techniques. Emphasis is on experimental techniques, design and composition, and individual expression.	3	Prerequisite: ART 153S.
ART 160S	Photography I Principles and techniques of black and white photography. Emphasis is on camera use, imagery, film processing, and quality printing.	3	
ART 161S	Photography II Continued study of black and white photography. Emphasis is on advanced darkroom techniques for creative and experimental presentations.	3	Prerequisite: ART 160S.
ART 164S	Lighting Principles Continuation of the study of light. Emphasis is on using studio lights and their associated equipment in a controlled setting and understanding the effects of this artificial light on the creative image.	3	Prerequisite: ART 160S or ART 165S or department permission
ART 165S	Digital Photography Introduction to the basic techniques of effective digital photography, digital camera use, and associated software.	3	Prerequisite: CIT 100S or ART 101S.
ART 170S	Printmaking I Introduction to the basic skills and concepts of the process of printmaking using the etching process.	3	
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
BIOLOGY		Credit Hours	Requisites
BIO 121S	Intro Biology: Cells/Genetics/Evolution Introduction to the basic concepts of biology with emphasis on molecular biology, cells, genetics and evolution. Three hours of lecture integrated with two hours of lab activities each week.	4	Recommended: One year high school biology and one year of high school chemistry.
BIO 122S	Animals, Plants, Ecology Continuing study of the basic concepts of biology with emphasis on the structure and function of animal and plant systems, distribution of organisms and ecology. Three hours of lecture integrated with two hours of lab activities each week.	4	Prerequisite: BIO 121S.
BIO 124S	Human Biology Introduction to the human organism with emphasis on the organ systems, the balance between systems, practical health-related aspects of each system, human genetics, interaction with microbes, and the place of humans in the ecosystem. Three hours of lecture integrated with two hours of lab activities each week.	4	Prerequisite: MTH 097D or equivalent.
BIO 125S	Anatomy & Physiology I Introduction to the structure and function of the human body. Includes the study of cells, tissues, and the following systems: integumentary, skeletal, muscular, and nervous. Three hours of lecture and two hours of lab each week.	4	Prerequisite: One year of high school chemistry or CHM 110S.
BIO 126S	Anatomy & Physiology II Continuing study of the structure and function of the human body. Includes the following systems: autonomic nervous system, special senses, cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive, and endocrine. Three hours of lecture and two hours of lab each week.	4	Prerequisite: BIO 125S.
BIO 140S	Basic Nutrition In-depth study of fundamentals of human nutrition as they relate to health, well-being, and personal food choices; application of basic nutritional science to requirements of life-cycle stages, activity and exercise, and various states of nutrition.	3	

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BIO 225S	Exercise Physiology Investigates the fundamental physiological processes that operate during exercise. Emphasis will be placed on integrating systems and organs into a functional whole. This class is intended for Associate of Arts and Associate of Science Degree seeking students or transfer students. This class is not intended for PTA students and does not meet PTA requirements.	3	Prerequisite: BIO 125S.
BIO 240S	Microbiology Introduction to microbiology with emphasis on medically related phenomena. Includes a general survey of microorganisms, host-microbe relationships, and principles of immunity.	2	Prerequisite: CHM 111S or BIO 121S or BIO 124S. Recommended: Recommended preparation or co-requisite: BIO 125S, BIO 126S.
BIO 241S	Microbiology Laboratory Exploration of the ubiquitous nature of microbes. Students perform laboratory techniques to identify microorganisms with emphasis on the methodology and clinical relevance of the procedures. Various forms of environmental control for bacteria are observed.	1	Concurrent enrollment in BIO 240S is required.
BUSINESS		Credit Hours	Requisites
BUS 110S	Introduction to Business A description of the American business system, its organization and environment, and the basic functions of finance, production and marketing. Team approach to developing solutions for small business problems is utilized.	3	
BUS 116S	Personal Finance Management of personal income with emphasis on family financial planning, including budgeting, income taxes, types of insurance, and forms of investment.	3	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
CHEMISTRY		Credit Hours	Requisites
CHM 110S	Introduction to Chemistry Fundamental concepts of chemistry: atomic structure, bonding, chemical formulas and equations, states of matter, acids and bases. Class consists of three hours lecture and two hours lab per week.	4	Prerequisite: One year of high school algebra or MTH 097D .
CHM 111S	Basic Chemistry of Life Processes Introduction to the chemistry within living organisms. Review of acids, bases, and bonding. Survey of organic chemistry and biochemistry. Solutions, important types of organic molecules and selected reactions, structures and functions of carbohydrates, proteins, lipids, and nucleic acids. Designed for students in health technologies.	3	Prerequisite: One year of high school chemistry or CHM 110S.
CHM 121S	General Chemistry I Fundamental concepts, principles, and theories of chemistry. Scientific measurement, chemical formulas and equations, chemical nomenclature, the mole, molarity, stoichiometry, metathesis reactions, acid-base theory, electronic structure of atoms, chemical bonding, molecular structure, and thermochemistry. Class consists of three hours lecture and four hours recitation/lab per week.	5	Prerequisite: High school chemistry or CHM 110S ; and two years of high school algebra or MTH 097D.
CHM 122S	General Chemistry II Continuation of General Chemistry I including states of matter and intermolecular attractive forces, properties of solutions, chemical thermodynamics, chemical equilibrium, acid-base theories and equilibria, redox reactions, pH, chemical kinetics, and electrochemistry. Course consists of three hours lecture and four hours recitation/lab per week.	5	Prerequisite: CHM 121S . Co-requisite: MTH 122S or MTH 128S.

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CISCO		Credit Hours	Requisites
CSC 117S	Fundamentals of Wireless LANs Provides students with the knowledge and skills necessary to understand radio technologies associated with WLAN 802.11 standards, understand WLAN and bridge topologies and applications, configure WLAN products including access points, bridges, client devices and accessories, explain software and management features, configure various security methods for Wireless LAN environments, understand basic antenna theory, and understand how to perform a site survey covering WLAN topology and design. Helps prepare students for the Certified Wireless Network Associate (CWNA) Certification.	3	Prerequisite: CIT 211S and CIT 214S, or department approval.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
COMMUNICATION		Credit Hours	Requisites
COM 121S	Fundamentals of Communication Introduction to principles of effective oral communication. Activities will involve the sending and receiving of verbal and nonverbal messages in all contexts, with an emphasis on presentational speaking skills.	3	
COM 221S	Mass Communication An introduction to the historical, cultural, and technological development of methods of mediated communication among large audiences.	3	
COM 228S	Interpersonal Communication Further study and practice in techniques of effective interpersonal communication. Appropriate for any student who desires to improve personal communication skills beyond the fundamental level.	3	Prerequisite: COM 121S.
COM 229S	Small Group Communication Further study and practice in techniques of effective small group communication. Appropriate for any student who desires to improve group communication skills beyond the fundamental level.	3	Prerequisite: COM 121S.
COM 241S	Communication Theory An introduction to widely-accepted theories in the communication discipline and the methods by which they have been developed and tested.	3	
COMPUTER INFORMATION TECHNOLOGY		Credit Hours	Requisites
CIT 100S	Introduction to Computers Basic computer concepts with an emphasis on computer skills within the Windows environment. The student will learn basic Windows Operating System concepts, how to organize data files using folders, and usage of My Computer and Windows Explorer for file management.	1	Recommended: Recommended preparation: OSA 100S or keyboarding speed of 15 wpm.
CIT 101S	Introduction to Word Processing Basic principles of word processing are introduced. Using software packages students learn document creation, editing, formatting and printing along with file manipulation and word processing features such as the use of spell check.	1	Prerequisite: CIT 100S or satisfactory computer assessment score.
CIT 102S	Introduction to Spreadsheets Basic concepts of spreadsheet creation and use. Using spreadsheet software students learn spreadsheet structure, the entry of values and labels, creating formula and function entries, file manipulation and the printing of reports.	1	Prerequisite: CIT 100S or satisfactory computer assessment score.
CIT 103S	Introduction to Databases Using database software students learn the basic concepts related to database management. Database structure, record creation and editing, and the production and printing of reports, and file manipulation are presented.	1	Prerequisite: CIT 100S or satisfactory computer assessment score.

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CIT 104S	Introduction to Presentation Graphics Introduces the basic concepts involved in the creation of presentation graphics. Using graphics software students learn the creation, manipulation and display of presentation graphics. Students also learn how to combine text and graphics into complex presentations.	1	Prerequisite: CIT 100S or satisfactory computer assessment score.
CIT 106S	Introduction to the Macintosh Study of the Macintosh operating system, recent software and hardware.	1	
CIT 110S	Computer Concepts and Applications Exploration of computer concepts with an emphasis on application software. Students will gain an understanding of security and ethical issues related to the use of the computer. The course explores basic computer usage and word processing, spreadsheet, presentation, and database software.	3	Recommended: OSA 100S or typing speed of 15 wpm.
CIT 111S	Programming Logic and Design Introduction to programming concepts enforcing good style and logical thinking. Includes instruction on the use of software to create flowcharts and diagrams while working through the course material. General programming concepts, structure concepts, modular programming, decision-making structures, and loops are introduced.	3	Prerequisite: ENG 091D , ENG 093D , MTH 098D or equivalent. Co-requisite: CIT 110S .
CIT 112S	Game Development Essentials Content, creation, and concepts behind the development of genres, story, character, environment, level design, interface design, platform-specific design and audio are examined. The future of the game industry and technologies such as online and mobile game development are explored. Historical elements of gaming, player elements, the gameplay experience, creating world levels, creating the game interface, creating the atmosphere, project development, and marketing strategies are included.	3	Prerequisite: ENG 091D , ENG 093D , MTH 098D or equivalent. Co-requisite: CIT 110S.
CIT 139S	Word Processing Comprehensive study of document creation and formatting using one or more word processing software applications. Topics include advanced word processing tools as well as integration of word processing software with other applications software	3	Prerequisite: CIT 100S or CIT 110S and typing speed of 24 wpm.
	Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.		
CRIMINAL JUSTICE		Credit Hours	Requisites
CRJ 111S	Introduction to Criminal Justice Overview of the American Criminal Justice System which will focus on law enforcement; the court system including prosecution and pretrial services, adjudication, sentencing and sanctions; and corrections including probation, prison, and parole.	3	
CRJ 112S	Criminal Law Overview of substantive and procedural criminal law and how criminal offenses are processed by the criminal justice system. The impact of federal and state constitutional rights on the enactment and enforcement of criminal prohibitions is examined. Criminal offenses are explained, as well as relevant defenses for crime.	3	Prerequisite: CRJ 111S or LEG 110S.
CRJ 113S	Intro to Corrections and Jail Operation Overview of the legal processing of offenders and the agencies and programs which are responsible for correcting offenders. Topics covered include the components of the correctional system from arrest to case disposition, including jails, detention centers, probation and intermediate sanctions.	3	Prerequisite: CRJ 111S.
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EARLY CHILDHOOD EDUCATION		Credit Hours	Requisites
ECE 115S	Introduction to Child Development Study of child development from pre-natal development through age eight. Includes sequences, stages, and milestones of typical and atypical development in the areas of social, emotional, physical, and cognitive domains.	3	
ECE 124S	Curriculum Early Childhood Program Content and methods for planning, facilitating, and assessing developmentally appropriate activities and environments designed to enhance children's cognitive, social, emotional, physical, and creative development in different program models. Includes developing an awareness of and appreciation for diversity and bias in materials. Also includes introduction to the Ohio Early Learning Content Standards	3	Recommended: ECE 115S and EDU 111S.
ECE 125S	Observation, Guidance & Group Management Discusses use of observation and recording children's behavior to meet individual needs and appropriately assess, plan, and guide young children. Includes methods of child guidance and group management that foster self-control and self-discipline.	3	Recommended: ECE 115S and EDU 111S.
ECE 127S	Creative Activities Discusses the planning, implementing, and evaluating of developmentally appropriate activities for young children in the creative areas of art, music, movement, and play. Lab experience in Edison's Child Development Center is required.	4	Prerequisite: ECE 115S.
ECE 128S	Children's Literature Study of children's literature and the role it plays in the development of young children. Includes history, genres, and elements of literature for young children, storytelling, resources, and strategies for presenting books to young children.	2	
ECE 130S	Nutrition in Early Childhood Basic concepts of nutrition and health issues with emphasis on nutritional needs of young children and planning and implementing good nutrition programs for young children. Observation and participation in a childcare center is required.	1	Recommended: ECE 115S.
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ECONOMICS		Credit Hours	Requisites
ECO 120S	Fundamentals of Economics Introduction to microeconomic and macroeconomic principles. Includes resource allocation, economy of the United States, the role of government, forms of competition, economics of business and production, supply and demand, price, banking and money, and international trade.	3	Prerequisite: MTH 097D or equivalent.
ECO 221S	Principles of Microeconomics Introduction to economic theory and systems, analysis of the American economy, supply and demand, price theory, market structures, and behavior of consumers or individual firms.	3	Prerequisite: Two years of high school algebra or MTH 097D .
ECO 222S	ECO 222S Principles of Macroeconomics Introduction to national income and employment analysis, money and banking, monetary and fiscal policies, alternative economic systems, principles of international trade, problems of a world economy, and selected issues of contemporary relevance.	3	Prerequisite: ECO 120S or ECO 221S .
EDUCATION		Credit Hours	Requisites
EDU 111S	Introduction to Education Introduction to the purposes, organizations, and outcomes of schooling from the perspectives of the field of social foundations of education. Candidates undertake critical inquiry into teaching as a profession. Licensure requirements, teachers' legal responsibilities, and the accountability of public schools are also explored. Participation in the field is required.	3	

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EDU 126S	Educational Technology Encompasses effectively identifying, locating, evaluating, designing, preparing and efficiently using educational technology as instructional resources in the classroom related to principles of learning and teaching including legal and ethical use. Includes the development of increased classroom communication abilities through lectures, discussions, modeling, laboratory experiences and completion of a comprehensive project.	3	
EDU 213S	Individuals With Exceptionalities Study of exceptionalities as it relates to the education, life-long learning, and integration of children and youth with exceptionalities. Includes learning disabilities, developmental disabilities, gifted, legislation, diagnosis, strategies/accommodations, and the history of learning disabilities. A field experience is required.	3	Prerequisite: EDU 111S or departmental permission.
EDU 226S	Educational Psychology Study of major theories of human development, motivation and learning. Planning of instruction, teaching strategies, assessment and classroom management are examined. Authentic pedagogical practices are used to gain an understanding of the teaching and learning process.	3	Prerequisite: PSY 121S.
ELECTRONICS ENGINEERING TECHNOLOGY		Credit Hours	Requisites
ELT 110S	Circuits I Presents the principles of resistance, capacitance, and inductance in direct current circuits. The student will develop a thorough understanding of the application of Ohm's Law, Kirchhoff's Laws and the power formula to series, parallel circuits, and series-parallel circuits. The use of metric prefixes, engineering notation, and equation manipulation will be emphasized. The student will be introduced to the use and care of digital multimeters.	3	Prerequisite: Two years of high school algebra or MTH 099D.
ELT 121S	Electronic Devices Introduction to semiconductor diodes, other two terminal devices, thyristors, transistors and field effect transistors. Course includes design and analysis of transistor and FET DC bias circuitry. Operational characteristics and applications of FET and diode switching circuitry is studied. Students examine rectifier circuits, amplifier circuits and zener voltage regulation. Emphasis is on component testing, troubleshooting and application of laboratory test equipment.	3	Prerequisite: ELT 110S. Co-requisite: MTH 115S or MTH 123S.
ELT 131S	Industrial Controls Examines electrical and electronic devices used in industrial applications. A thorough treatment of sensors and their applications is presented. Relays, contactors, solenoids, and thyristor-based power interface devices are studied in detail. Standard wiring practices and troubleshooting skills are developed.	3	
ELT 141S	Digital Electronics Examines number systems, numerical codes and arithmetic operations peculiar to digital systems. Design and analysis of combinational logic circuitry by application of Boolean algebra and mapping methods are studied. Flip-flops, counters, and various clocked circuits provide the introduction to sequential logic circuit design. Synthesis and analysis of state machines are presented in the context of process control systems. Electrical and timing parameters of digital IC devices and families are studied with emphasis on interfacing. The student will learn how to program field programmable devices.	3	Prerequisite: ELT 110S.
ELT 151S	Programmable Logic Controllers Preparation and applications of programmable logic controllers to industrial process and manufacturing control. Provides hands-on experience in programming and troubleshooting. AllenBradley SLC 500 PLCs are used primarily in this course.	3	
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ENGINEERING TECHNOLOGY		Credit Hours	Requisites
EGR 100S	Introduction to Engineering Presents the various areas of engineering and examines the ethical responsibilities of engineers. Students work on interdisciplinary teams to design and build solutions to engineering challenges. Microsoft Word, Project and Excel are introduced as tools to document the project.	1	
EGR 110S	Print Reading and Sketching Introduction to various types of engineering drawings. Recognition of electrical symbols, mechanical symbols, and welding symbols is developed. Skill in freehand drawing of 3 dimensional objects is developed. Rendering of orthographic projections as well as auxiliary views, sectioning, oblique views and isometric views is practiced. Standard practices of scale, and dimensioning are applied.	2	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
ENGLISH		Credit Hours	Requisites
ENG 085D	College Language Development Guided independent and group activities designed to further develop language skills with emphasis on applying skills to college reading and writing.	3	Prerequisite: Satisfactory assessment scores. Prerequisite or Co-requisite: GEN 101S. Note: Credits earned in this course do not count toward graduation requirements, nor are they usually transferable to other institutions.
ENG 091D	Basic Writing Emphasis on applying the writing process to create multi-paragraph expository texts that reflect the writer's awareness of the features important to college level writing. Students will monitor and evaluate their experiences to develop independent learner qualities.	3	Prerequisite: Satisfactory assessment scores or ENG 085D. Prerequisite or Co-requisite: GEN 101S. Note: Credits earned in this course do not count toward graduation requirements, nor are they usually transferable to other institutions.
ENG 093D	College Preparatory Reading Emphasis on developing and applying reading strategies to college text to increase reading comprehension.	3	Prerequisite: Satisfactory assessment scores or ENG 085D. Prerequisite or Co-requisite: GEN 101S. Note: Credits earned in this course do not count toward graduation requirements, nor

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			are they usually transferable to other institutions.
ENG 121S	Composition I Study and practice of essay writing by reading published authors and producing college-level writing for a variety of audiences and purposes. Employs critical thinking and analytical skills in both formal and informal writing. Formal writing is based on reporting information, narration, analysis, and research. All writing will stress Standard English, organization, and style.	3	Prerequisite: Satisfactory assessment scores in reading and writing or ENG 091D and ENG 093D.
ENG 122S	Composition II Study and practice of essay writing, including formal essays, reviews, and research papers, based on the study of logic and library research. Writings will stress organization, argument, referencing techniques, and the use of standard English.	3	Prerequisite: ENG 121S.
ENG 123S	Introduction to Literature Study in the reading of fiction, poetry, and drama. Students will learn to respond to literature from a critical perspective through both class discussions and assigned writings.	3	Prerequisite: ENG 121S.
ENG 125S	Technical Writing Introduces students to writing technical reports, including instructions, mechanical descriptions, lab reports, resumes, process reports, trip reports, investigation reports and graphics.	3	Prerequisite: Satisfactory assessment scores in reading and writing or ENG 091D and ENG 093D.
ENG 205S	Great Books A critical study of selected literary works representing the fiction, poetry and drama of the Western tradition beginning with the Greeks. Students will read, discuss and write about the literary expressions of different eras.	3	Prerequisite: ENG 121S. Recommended: ENG 123S.
ENG 221S	American Literature I Study of America from the beginnings of pre-European settlement until the early 20th century. Students will read, discuss, and write about the historical, social, political, and religious perspectives that influenced the literary expression of the writers. Study includes prose, poetry, and drama.	3	Prerequisite: ENG 121S.
ENG 222S	American Literature II Study of America from the early 20th century to present. Students will read, discuss, and write about the historical, social, political, and religious perspectives that influenced the literary expression of the writers. Study includes prose, poetry, and drama.	3	Prerequisite: ENG 121S.
ENG 224S	Journalism Study of journalistic traditions, ethics, culture and conventions, with a practical emphasis on news-writing, editing and design for both print and electronic media.	3	
ENG 225S	Advanced Technical Writing Continues the practice of technical writing started in ENG 125S or on the job with emphasis on student's major. Emphasis on professional written products to include reports, instructions, mechanical descriptions, and illustrative graphics.	3	Prerequisite: ENG 125S.
ENG 226S	Technical Editing Prepares students entering writing jobs to accomplish technical editing by focusing on readability theory, audience-based stylistic choices, audience analysis, sentence editing, and improvement of technical and scientific documents including layout, organization, and sentence structure.	3	Not a regular offering Please request if needed
ENG 229S	Creative Writing Introduction to creative writing and the styles and techniques necessary to produce creative written expression. In a workshop setting, students learn to critique their own work and that of others. Emphasis is on fiction, nonfiction, and poetry.	3	
ENG 232S	Fiction Writing Introduction to creative writing and the styles and techniques necessary to produce creative written expression. In a workshop setting, students learn to critique their own work and that of others. Emphasis is on fiction, nonfiction, and poetry.	3	

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ENG 241S	British Literature I-Middle Ages/Restoration Study of British Literature from the Middle Ages through the Restoration period with focus on the writers, content, and literary forms. Students will read, discuss, and write about the historical, social, political, and religious perspectives that influenced the literary expression of the writers. Study includes prose, poetry, and drama.	3	Prerequisite: ENG 121S.
ENG 242S	British Literature II-Romantics/20th Century Study of British Literature from the Romantics through Twentieth Century with focus on the writers, content, and literary forms. Students will read, discuss, and write about the historical, social, political, and religious perspectives that influenced the literary expression of the writers. Study includes prose, poetry, and drama.	3	Prerequisite: ENG 121S.
FRENCH		Credit Hours	Requisites
FRN 121S	Beginning French I Study of the basic vocabulary and structure of the French language with practice in conversation, writing, and reading.	3	
FRN 122S	Beginning French II Continuation of spoken and written French with increasing vocabulary, writing, and reading comprehension.	3	Prerequisite: FRN 121S Beginning French I or demonstrated performance in the indicated area of study.
FRN 221S	Intermediate French I Review of grammar, reading and discussion of selected texts, with practice in speaking and writing the French language.	3	Prerequisite: FRN 122S Beginning French II or demonstrated performance in the indicated area of study.
FRN 222S	Intermediate French II Continuation of reading and discussion of selected texts, with practice in speaking and writing the French language.	3	FRN 221S Intermediate French I or demonstrated performance in the indicated area of study.
GENERAL STUDIES		Credit Hours	Requisites
GEN 101S	First Year Experience Introduction to success skills and resources useful in making a successful transition to college. Topics include learning strategies, career and academic goals, communication skills, campus services, students' rights and responsibilities, and electronic resources.	1	
GEOGRAPHY		Credit Hours	Requisites
GEO 121S	Physical Geography Survey of meteorology, climatology, the Earth's fresh water supply, and their impact on agriculture and society in general. Environmental degradation and pollution of the atmosphere, hydrosphere, and soil will be investigated.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.

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GEO 123S	Human Geography Geographical exploration of different components of society including elements such as population, political and urban geography, culture, identity, and religion.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
GEOLOGY		Credit Hours	Requisites
GLG 121S	Physical Geology Introduction to the physical and chemical processes that have produced the Earth, its minerals and rocks, and landforms that result from constructional and erosional activities. Three hours lecture and two hours of lab each week.	4	
GLG 122S	Historical Geology/Contemporary Topics Introduction to the physical and biological evidence recorded in rocks that are used to interpret the geologic history of the Earth and topics that relate to the future quality of life on Earth.	4	
GERMAN		Credit Hours	Requisites
GER 121S	Beginning German I Vocabulary and structure of the German language with practice in reading, understanding, writing, and speaking German.	3	
GER 122S	Beginning German II Continued study of the vocabulary and sentence structure of the German language with an emphasis on comprehending and using the language	3	Prerequisite: GER 121S Beginning German I or demonstrated performance in the indicated area of study.
GER 221S	Intermediate German I Active use of the German language with practice in reading, writing, and speaking German.	3	Prerequisite: GER 122S Beginning German II or demonstrated performance in the indicated area of study.
GER 222S	Intermediate German II Continuation of the active use of the German language with emphasis on increased vocabulary, advanced sentence structures, and idiomatic patterns common in everyday use of the German language.	3	Prerequisite: GER 221S Intermediate German I or demonstrated performance in the indicated area of study.
HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION		Credit Hours	Requisites
HVA 101S	Basic HVAC Systems with Cooling Introduction to theory of heating, ventilation, air conditioning and refrigeration systems.	3	
HVA 121S	Heating Systems Introduction to the basic concepts of all heating systems found in light commercial applications.	3	
	Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.		

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HISTORY		Credit Hours	Requisites
HST 121S	History of the United States I Survey of the development of the United States, emphasizing the political, social, and economic institutions that distinguish American culture.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
HST 122S	History of the United States II Survey of the development of the United States, emphasizing the political, social, and economic institutions that distinguish American culture. This course examines the history of the United States since Reconstruction.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
HST 125S	Western Civilization to 1715 Survey of the development of the civilization of the West from the ancient world to the 18th century, emphasizing the distinctive characteristics of Western culture; the ideas, individuals, and institutions that shaped it; and the influence of Western culture on the world.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
HST 126S	Western Civilization Since 1715 Survey of the development of the civilization of the West from the 18th century to modern times, emphasizing the distinctive characteristics of Western culture; the ideas, individuals, and institutions that shaped it; and the influence of Western culture on the world.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
HST 127S	Greek Civilization Study of the major developments, achievements, and contradictions in Greek culture from the Bronze Age to the Hellenistic Era. The course will cover a wide spectrum of Greek culture including philosophy, religion, art, literature, and drama.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
HST 224S	African American History since 1619 Study of African American history from 1619 to present. The African American experience, way of life, and role in shaping American history will be explored	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
Human Resource Management		Credit Hours	Requisites
HRM 110S	Introduction to Human Resources Overview of the human resource management field. Emphasis is placed in the areas of staffing, training and developing human potential, compensation, benefits, and performance management.	3	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			

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Humanities		Credit Hours	Requisites
HUM 121S	<u>Introduction to Humanities</u> Survey of the humanities, relating the cultural values of philosophy and religion to the fine arts, particularly music, literature, theater, and visual arts.	3	Prerequisite: ENG 091D and ENG 093D.
Industrial Management		Credit Hours	Requisites
IMT 112S	IMT 112S Environmental Health & Safety Overview of plant safety and industrial hygiene requirements and practices in American business from the perspective of on-the-job requirements for supervisors/employees. Federal and state occupational safety and health regulations are reviewed and techniques to improve the work place are explained.	3	
IMT 114S	IMT 114S Labor Relations Overview of labor management relations in union environments. Following a review of the development of labor unions and labor legislation in the United States, the negotiation process is explained. Emphasis of the course is then directed toward a review of the basic provision of a labor contract.	3	
IMT 120S	IMT 120S Operations Management I First of two courses detailing what managers do about processes, and the tools that managers can use to make better operating decisions. Includes operations strategy, process management, project management, managing technology, total quality management, and statistical process control. Extensive use of operations management software and case studies.	3	
IMT 130S	IMT 130S Quality Management Systems Philosophy of total quality management. Focuses on improving process and reducing variation in systems. Covers the role of employees through empowerment in improving all aspects of manufacturing and service organizations to achieve quality improvement and customer satisfaction.	4	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Internet Technologies		Credit Hours	Requisites
NET 100S	<u>Introduction to the Internet</u> Use of personal computers and the Internet for communication and accessing remote information. The course serves as an introduction to the college's online learning environment, and as a demonstration of readiness for online learning.	1	Prerequisite: CIT 100S
NET 101S	<u>Introduction to Internet Development</u> An introduction to the study of Internet Technology by developing web sites with advanced HTML editors employing good design principles and practices.	3	Prerequisite: CIT 100S or instructor permission.
NET 105S	<u>Computer Graphics</u> Basic creation and manipulation of computer generated images using painting and drawing software. Topics include: bitmapped graphics, vector (object-oriented) graphics, computer painting, etc.	3	Prerequisite: ART 101S or CIT 100S , or department permission.
NET 205S	<u>NET 205S Digital Video Production</u> Introduction to tools and techniques of digital video production for non-broadcast applications. Topics include: video formats, audio and video codecs, linear vs. nonlinear editing, storyboarding, titling and compositing.	3	Prerequisite: NET 105S or departmental permission.

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Management		Credit Hours	Requisites
MGT 110S	<u>Effective Management</u> Overview of the basic functions of planning, organizing, staffing, directing, and controlling that supervisors, team leaders or facilitators perform in all organizations.	3	
MGT 126S	<u>Human Relations in the Workplace</u> Study of interpersonal skills using practical applications for the development of a positive work environment. The focus is on communications, motivation, managing change, solving problems, employee development, and team development.	3	
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Manufacturing		Credit Hours	Requisites
MFG 110S	<u>Metrology</u> Use of engineering measuring instruments such as micrometers, vernier calipers, scales, height gauges, gauge blocks, surface plates, comparators and coordinate measuring machine. Emphasis on relationship of drawing dimensions to the measurement of parts.	3	
MFG 114S	<u>Survey of Manufacturing Processes</u> Detailed overview of manufacturing processes including metrology, materials, heat-treating, machine tool operations, metal forming, welding processes and castings. Lab provides practical experience in metrology, machining practices, and welding processes.	4	
MFG 120S	<u>Materials Technology</u> The properties of engineering materials. Mechanical and physical properties, testing, and heat treatment of metals are covered. Structures and properties of polymers, ceramics, and composite materials are also covered. Basic principles of chemistry are introduced as required for understanding.	3	
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Marketing		Credit Hours	Requisites
MKT 112S	<u>Effective Selling</u> Principles of selling with emphasis on practical application through student sales demonstrations, promotional activities, and case studies. Includes comprehensive study of product knowledge, handling objections, and closing techniques.	3	
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Mathematics		Credit Hours	Requisites
MTH 096D	<u>Basic Mathematics</u> Basic arithmetic course. Topics include fractions, and decimals; perimeter, area, and volume; average; ratio and proportion; percent; units of measurement.	3	Prerequisite or Co-requisite: GEN 101S.

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MTH 097D	<u>Beginning Algebra</u> First in a sequence of three algebra courses. Topics include operations with real numbers; linear equations in one and two variables; graphing linear equations. Designed for students with good arithmetic skills, but little or no high school algebra.	3	Prerequisite: Satisfactory math assessment or a grade of 'C' or better in MTH 096D or MTH 115S . Prerequisite or Co-requisite:
MTH 098D	<u>Intermediate Algebra I</u> Second in a sequence of three algebra courses. Topics include systems of equations; exponents; operations on polynomials; factoring. Intended for students with good arithmetic skills and some knowledge of algebra.	3	Prerequisite: Satisfactory math assessment score and one year of high school algebra or a grade of 'C' or better in MTH 097D . Prerequisite or Co-requisite: GEN 101S .
MTH 099D	<u>Intermediate Algebra II</u> Third in a sequence of three algebra courses. Topics include rational expressions; radicals; solving quadratic equations; complex numbers; functions.	3	Prerequisite: Satisfactory math assessment score and two years of high school algebra or a grade of 'C' or better in MTH 098D . Prerequisite or Co-requisite: GEN 101S .
MTH 110S	<u>Math in Society</u> Overview of general liberal arts math for non-science majors designed to acquaint students with the nature of mathematics and problem solving. Includes applications in voting theory, probability and statistics, graph theory, growth models, and finance.	3	Prerequisite: Satisfactory math assessment score, or one year of high school mathematics or a grade of "C" or better in MTH 097D
MTH 115S	<u>Applied Mathematics</u> Topics include operations with positive and negative numbers, fractions and decimals; exponents; average; ratio and proportion; percent; units of measurement; linear equations in one variable.	3	Prerequisite: Satisfactory math assessment score or a grade of 'C' or better in MTH 096D .
MTH 119S	<u>Business Mathematics</u> Designed for students who need an understanding of mathematical processes in business and finance. Course emphasizes use of math in business applications.	3	Prerequisite: MTH 097D or satisfactory score on math assessment test.
MTH 122S	<u>College Algebra</u> College algebra course designed to provide a basis for continued study in mathematics or application fields. Topics include functions and relations and their graphs; algebraic operations on functions; theory of polynomial equations; analysis of rational functions; exponential and logarithmic relationships; systems of equations and inequalities.	3	Prerequisite: Satisfactory math assessment score and three years of college preparatory mathematics or a grade of 'C' or better in MTH 099D .

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MTH 123S	Trigonometry Part of an algebra-trigonometry sequence. Topics include basic trigonometric ratios; radians as an angle measure; trigonometric functions and their graphs; trigonometric identities; trigonometric description of complex numbers and roots and powers of real and complex numbers.	3	Prerequisite: Satisfactory math assessment score and three years of college preparatory mathematics or a grade of 'C' or better in MTH 099D .
MTH 125S	General Statistics Introductory general statistics course. Topics include data organization and display; measure of dispersion and central tendencies; probability models, random variables and finite probability distributions and more.	3	Prerequisite: Satisfactory math assessment score or grade of 'C' or better in MTH 097D .
MTH 126S	Mathematical Foundations I First of a two course sequence designed for elementary education majors. Topics covered include origin of numbers and systems of numeration; systems of whole numbers, integers, and rational numbers; and sets and logic. For education majors, it is recommended that CHM 245S be taken the same semester as MTH 126S.	3	Satisfactory math assessment score and three years of college preparatory mathematics or a grade of 'C' or better in MTH 099D .
MTH 127S	Mathematical Foundations II Second of a two course sequence designed for elementary education majors. Topics covered include introduction to probability, statistics, plane geometry, and coordinate geometry; and concepts of measurement and problem solving.	3	Prerequisite: MTH 126S .
MTH 128S	Precalculus Survey of polynomial, rational, radical, exponential, logarithmic, trigonometric, and inverse trigonometric functions and their graphs, with associated algebraic techniques. Topics also include systems of equations, inequalities, elementary matrices, basic trigonometric ratios, trigonometric identities and equations, vectors, polar coordinates, complex numbers, conics, sequences and series.	5	Prerequisite: Satisfactory math assessment score and three years of college preparatory mathematics or a grade of "C" or better in MTH 099D .
MTH 221S	Calculus/Analytical Geometry I Introduction to differential and integral calculus. Includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering.	5	Prerequisite: Satisfactory math assessment score and four years of college preparatory mathematics (including pre-calculus), or a grade of 'C' or better in MTH 122S and MTH 123S , or MTH 128S .
MTH 222S	Calculus/Analytical Geometry II A standard second semester calculus course. Topics include techniques and applications of integration, separable differential equations, sequence and series, Taylor's Theorem, vectors and the geometry of space, vector functions and motion in space.	5	Prerequisite: Grade of 'C' or better in MTH 221S .
MTH 223S	Calculus/Analytical Geometry III A standard third semester calculus course. Topics include vector calculus; partial derivatives with applications; multiple integrals; surface and line integrals; Stoke's theorem and Gauss's theorem.	5	Prerequisite: Grade of 'C' or better in MTH 222S .

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MTH 226S	Calculus for Business & Life Sciences Designed for business and life science majors. Topics include limits, continuity, the derivative and techniques of differentiation; graphing techniques; logarithmic and exponential functions; anti-derivatives, definite integrals and techniques of integration; applications of the derivative and integral to business and life sciences. Not open to students with credit in MTH 221S and MTH 222S .	4	Prerequisite: Satisfactory math assessment score and four years of college preparatory mathematics or grade of 'C' or better in MTH 122S or MTH 128S .
MTH 231S	Differential Equations Introduction to ordinary differential equations. Topics include first order methods; existence and uniqueness; second order linear equations; Wronskian; undetermined coefficients; variation of parameter; series solutions; Laplace transforms.	4	Prerequisite: Grade of 'C' or better in MTH 222S.
Mechanical Engineering Technology		Credit Hours	Requisites
MET 125S	Applied Engineering Statics Non-calculus based study of forces and force systems on rigid bodies at rest by analytical methods. Topics include forces, moments, equilibrium, centroids and moments of inertia. Applications include beams, trusses, and machine components.	3	Prerequisite: MTH 122S and MTH 123S . Co-requisite: PHY 121S.
MET 130S	AutoCAD I Introduction to the basics of computer-aided drafting using computer and textbook-based materials.	3	Prerequisite: CIT 110S and EGR 110S.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Medical Laboratory Technology		Credit Hours	Requisites
MLT 121S	Introduction to Laboratory Medicine Introduces basic laboratory terminology and practices, phases of analysis, glassware, phlebotomy, safety, and specimen collection, labeling and processing. Federal and state regulation of laboratories, registration and certification of laboratory personnel are also introduced.	3	Prerequisite: Admission into the MLT program.
MLT 135S	Urinalysis and Body Fluids Introduces basic laboratory terminology and practices, phases of analysis, glassware, phlebotomy, safety, and specimen collection, labeling and processing. Federal and state regulation of laboratories, registration and certification of laboratory personnel are also introduced.	3	Prerequisite: Admission into the MLT program.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Music		Credit Hours	Requisites
MUS 120S	Music Appreciation Development of listening skills and understanding of the meaning of music, from Gregorian chant to jazz and other current popular styles.	3	
MUS 127S	Music As a World Phenomenon Musical cultures and practices of diverse ethnic groups around the world from ancient times through present trends.	3	
MUS 129S	MUS 129S History of Rock Music Styles History of rock music styles from the early Blues to present trends, as well as the social implications of the art form, especially on youth culture, and its influence on other music.	3	

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Network Engineering		Credit Hours	Requisites
NEP 236S	Configuring Microsoft Windows Workstation Provides students with the knowledge and skills to successfully plan, install, and configure a Microsoft Windows Workstation operating system. The course focuses on a Windows Workstation installation, configuration, implementation, and recovery.	3	Prerequisite: Grade of "C" or better in CIT 211S , or A+ certification, or department approval.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Nursing		Credit Hours	Requisites
NUR 135S	Health Promotion of the Adult Focuses on the fundamental knowledge, skills and attitudes needed for the practice of evidence-based patient-centered nursing. Competency areas include beginning skills in basic assessment of human needs, basic physical assessment, and introduction of concepts related to teamwork and collaboration, quality improvement, safety and informatics. Clinicals.	8	Prerequisite: Department acceptance.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Office Systems Administration		Credit Hours	Requisites
OSA 100S	Introduction to Keyboarding Basic touch keyboarding skills are developed: alpha, numeric, punctuation, and symbol keys on the computer keyboard. Designed for users who need to effectively interact with computers.	1	Prerequisite or Co-requisite: CIT 100S ; or satisfactory computer assessment score.
OSA 111S	Document Processing I Review and mastery of the keyboard. Basic skills in the production of office correspondence, tables and reports are introduced. Production activities will be stressed. An introduction to basic word processing functions is included.	3	Prerequisite: Satisfactory computer assessment score, or a grade of 'C' or better in OSA 100S, or one semester of high school keyboarding.
OSA 112S	• OSA 112S Document Processing II Mastery of word processing software, with emphasis on advanced formatting of business letters, tables, and reports. Speed building and accuracy are stressed. Includes preparation and manipulation of formatted materials for medical and administrative offices.	3	Prerequisite: Grade of "C" or better in OSA 111S.
OSA 131S	• OSA 131S Records Management Introduction to records management including records organization, evaluation and control, creation and distribution, inactive records, and ARMA filing methods and systems. Manual and electronic database management is included.	3	Prerequisite: CIT 110S .
OSA 151S ALH 151S	• OSA 151S Medical Terminology Prepares students to gain proficiency in word analysis to break down complex medical terminology and relate the medical terms to the structure and function of the human body. Emphasis is placed on human anatomy and physiology, pathology, oncology, pharmacology, radiology and nuclear medicine.	3	

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OSA 153S	<ul style="list-style-type: none"> • <u>OSA 153S Introduction to Medical Transcription</u> Introduction to medical transcription techniques. This course provides students with knowledge of the content and formats of medical documents and reports dictated in physician offices, clinics, and hospitals. 	1	Prerequisite: OSA 151S and OSA 111S.
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Online Workshop		Credit Hours	Requisites
XLN 100S	<p><u>Introduction to Online Learning</u> Workshop prepares students for the online learning experience. One-week workshop is entirely online using Blackboard and other standard internet tools such as web browsers and email. Students wishing to take online classes at Edison must demonstrate readiness for online learning. Workshop does not affect GPA; students may repeat the workshop as necessary to demonstrate readiness. Alternative to <u>NET 100S</u> Introduction to the Internet.</p>	0	
Paralegal Studies		Credit Hours	Requisites
LEG 110S	<p><u>Introduction Legal Assisting</u> Overview of the legal system and the work, skills, and ethical responsibilities of a legal assistant. Basic substantive and procedural terminology associated with the major areas of the law is introduced along with fundamental techniques of research, case analysis, and information gathering.</p>	3	
LEG 130S	<p><u>Legal Research and Writing</u> In-depth approach to using primary and secondary sources of the law. Parallel assignments will be given involving federal and state material. Research skills will be developed using both books and electronic databases. Internet skills are recommended.</p>	3	Prerequisite: LEG 110S and ENG 121S .
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Peace Officer Academy		Credit Hours	Requisites
POA 270S	<p><u>Police Officer Academy I</u> Skills and techniques to fulfill partial requirements for basic peace officer training certification as required by the Attorney General's Office and the Ohio Peace Officer Training Council.</p>	8	Prerequisite: Department acceptance.
<p>Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.</p>			
Philosophy		Credit Hours	Requisites
PHI 121S	<p><u>Introduction to Philosophy</u> Survey of classical and contemporary philosophy through selected metaphysical and epistemological problems. Students will pursue a systematic study of enduring human concerns about God, society, the self, and knowledge. Theories of reality, belief, truth, knowledge, and evidence are examined.</p>	3	

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PHI 123S	Introduction to Ethics Introduction to the problem of moral conduct, right and wrong, and good and evil. Classical and contemporary theories are examined as the basis for dealing with contemporary moral concerns with selected problems of individual choice, political decisions, and social institutions.	3	
Phlebotomy		Credit Hours	Requisites
PLB 110S	Phlebotomy/Basic Laboratory Collections Introduction to basic medical laboratory specimen collection techniques. Provides instruction in venipuncture, capillary puncture, and non-blood specimen collection such as urine, stool, sputum and throat cultures. Intended as an elective for nursing, medical assisting, medical office support majors. Not intended for phlebotomy majors.	3	
PLB 150S	Phlebotomy & Laboratory Techniques Introduction to basic medical laboratory techniques used by phlebotomists. Provides instruction in standard precautions, specimen collection and processing, and diagnostic testing.	3	Prerequisite: GPA of 2.0 or better. Co-requisite: OSA 111S or CIT 110S, OSA 151S, and ALH 101S.
PLB 291L	Phlebotomy Internship An internship of 115 clock hours. Practical phlebotomy experience is obtained in an affiliated clinical site. Internship is observed and unpaid.	1.5	Prerequisite: ALH 101S. Co-requisite: PLB 150S, PLB 291R, OSA 111S or CIT 110S, OSA 151S, and departmental permission.
PLB 291R	Phlebotomy Internship Seminar Seminar course to be taken with phlebotomy internship. Weekly discussion of the progress and experiences in the internship. Review of theory and skills from the program. Capstone project to include demonstration of successful venipuncture and successful completion of mock certification examination.	2	Prerequisite: ALH 101S. Co-requisite: PLB 50S, PLB 291L, OSA 111S or CIT 110S, OSA 151S, and departmental permission.
Physical Education		Credit Hours	Requisites
PED 120S	Beginning Karate Introduction to the martial art of karate. Basic stances, strikes, blocks and kicks will be practiced along with formal exercises, prearranged sparring and self-defense applications. History of karate, traditional martial arts etiquette and philosophy will also be included.	1	
PED 121S	Intermediate Karate Basic stances, strikes, blocks and kicks will continue to be practiced along with additional formal exercises, more advanced prearranged sparring and self defense applications. History of karate, traditional martial arts etiquette and philosophy will also continue to be studied.	2	
PED 128S	Golf Basic presentation of the game of golf, its history, background, development, rules, equipment, terminology, strategies for competition, and etiquette as currently defined by USGA. Emphasis on the stance, grip, proper execution of the fundamentals, and course knowledge will enhance the student's appreciation of the game and will allow for improvement within the sport.	1	

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PED 162S	Tennis I Basic presentation of the game of tennis, its background, development, rules, strategies for competition, and terminology for the purpose of general knowledge plus integration of these into the on-court drills and exercises to develop proper execution of the basic strokes and techniques of the game.	1	
PED 163S	Tennis II Intermediate presentation of the game of tennis, its background, development, rules, strategies for competition, and integration of these into the on-court drills and exercises to develop proper execution of the strokes and techniques of the game.	1	
PED 164S	Weight Training I Beginning level weight training analysis and skills.	1	
Physical Therapist Assistant		Credit Hours	Requisites
PTA 101S	Intro to Physical Therapist Assisting Introductory course for students accepted into the Physical Therapist Assistant Program. This course will introduce students to the career of Physical Therapist Assisting.	2	Prerequisite: Department acceptance. Prerequisite or Co-requisite: Co-requisite or Prerequisite: BIO 125S and MTH 123S.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Physics		Credit Hours	Requisites
PHY 121S	College Physics I Introductory algebra and trigonometry-based course in mechanics and thermal physics. Concepts of force, torque, energy, momentum, and equilibrium are introduced and used as a basis for solving problems, predicting the behavior of objects and systems, and explaining the ways nature works. Includes four hours of lecture and two hours of lab each week.	5	Prerequisite: MTH 123S or MTH 128S.
PHY 122S	College Physics II Continuation of PHY 121S . Force, energy, and momentum concepts are applied to electricity, magnetism, circuit theory, and optics. Additional topics in modern physics, such as relativity, quantum mechanics, and particle physics will be introduced. Includes four hours of lecture and two hours of lab each week.	5	Prerequisite: PHY 121S. Co-requisite: MTH 122S.
PHY 241S	Science & Engineering Physics I Calculus-based introduction to Newtonian mechanics, wave phenomena, fluids, and thermodynamics for students desiring to major in engineering and the sciences. Fundamental principles such as Newton's Law and the Conservation of Momentum are introduced as a starting point for interpreting observations of simple systems and predicting their behavior. Includes three hours of lecture and four hours of lab each week.	5	Prerequisite: one year of high school calculus or MTH 221S, and one year of high school chemistry or physics or CHM 110S or PHY 121S.
PHY 242S	Science & Engineering Physics II Continuation of PHY 241S . This course explores the calculus-based approach to topics in electricity and magnetism, modern physics, and optics. Includes three hours of lecture and four hours of lab each week.	5	Prerequisite: PHY 241S.

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Political Science		Credit Hours	Requisites
PLS 121S	American National Government Overview of the American system of government which examines the impact of public opinions, group interests, and organizations on the institutions of American government. Particular attention is focused on issues which relate to the politics of public policy and the decision-making process. The nature of American democracy is examined and critically analyzed.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
PLS 122S	State & Local Government Survey of the basic principles relating to the structure, operation, and policy-making processes at the state and local levels of government. Impact of the political environment, culture, tradition, levels of economic development, and the effects of political forces on state and local government are also examined.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
PLS 224S	International Relations Introduction to the inter-relationships that exist in today's world, both locally and internationally. Develop a greater appreciation for and broader understanding of various cultures and peoples in a global society. Understand these interactions within the context of politics, economics, social structures, power, conflicts, culture, and religion	3	
PLS 225S	Constitutional Law Survey of the development of constitutional doctrine. Examines the principal methods by which justices of the United States Supreme Court give meaning to constitutional provisions that impact the powers of national government and the regulatory power of the states.	3	
Psychology		Credit Hours	Requisites
PSY 121S	Introduction to Psychology Introduction to the scientific study of behavior and mental processes with an emphasis on personality, learning and memory, human sexuality, lifespan development, sensation and perception, health psychology, abnormal behavior and interventions, social psychology, stress, motivation, and states of consciousness.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
PSY 126S	Psychology Personal Effectiveness Study of psychological principles applied to problem solving, decision making, conflict resolution, values clarification, and personal growth. This course is experiential in nature.	3	
PSY 221S	Abnormal Psychology Survey of the field of abnormal psychology. Focus is on anxiety disorders, mood disorders, eating disorders, substance-related disorders, schizophrenia, physical disorders and health psychology, sexual abnormality and dysfunction, psychotherapies, and assessment and diagnosis incorporating the current edition of the Diagnostic and Statistical Manual of Mental Disorders.	3	Prerequisite: PSY 121S.
PSY 225S	Child Psychology Introduction to the physical and psychological growth of the child. Focus is on physical, cognitive, and personality development from infancy through adolescence.	3	Prerequisite: PSY 121S.
PSY 227S	Life Span Developmental Psychology Major theories and concepts of psychological development over the life span will be discussed. Physical development will be studied with emphasis on intellectual and social development.	3	Prerequisite: PSY 121S.

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PSY 228S	<u>Human Sexuality</u> Psychological and physiological examination of human sexuality over the lifespan. Current research findings are discussed as well as topics including: love, relationships, and attraction; sexual arousal and behavior; contraception; sexual orientation; and sexual coercion.	3	
PSY 229S	<u>Social and Cultural Diversity</u> Explores theories and practice issues related to living and working in a culturally diverse society. The relationships between diversity issues, oppression, and economic/social justice will be addressed. Issues related to race, gender, religion, physical ability, age, sexual orientation, class, appearance, ethnicity will be presented via readings, case studies, lecture, and discussion.	3	Prerequisite: PSY 121S or SSV 111S.
PSY 230S	<u>Social Psychology</u> Introduction to the study of social psychology emphasizing how individual and social interactions influence one another. Topics include social cognition; attitudes; conformity and obedience; group processes; pro-social and antisocial behavior; stereotyping and prejudice; and the creation and influence of culture.	3	Prerequisite: PSY 121S.
Real Estate		Credit Hours	Requisites
RLE 111S	Principles/Practices Real Estate General introduction to real estate as a business and as a profession with information of value to prospective professionals, as well as persons not engaged in real estate business. Topics include license law, ethics, purchase agreements, escrow and title work, advertising, appraisals, sales, market trends, taxes, assessments, economic influences and Internet application.	3	
	Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.		
Religion		Credit Hours	Requisites
REL 121S	<u>World Religions</u> Introduction to historical development, cultural functions and fundamental tenets of major world religions - Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, Islam and contemporary religions.	3	Prerequisite: ENG 091D and ENG 093D.

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Social Services		Credit Hours	Requisites
SSV 111S	Introduction to Social Work Comprehensive and realistic survey of the diverse, dynamic Social Work profession. Student will be introduced to the historical development of social work, social welfare theory, social service delivery systems, generalist practice, populations served, career opportunities, and ethical standards of the profession.	3	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Sociology		Credit Hours	Requisites
SOC 115S	Juvenile Delinquency Introduction to the juvenile justice system in the United States. Focus is on theories of delinquency causation, treatment modalities, community-based juvenile programs, delinquency prevention, and delinquency-control methodologies.	3	
SOC 121S	Introduction to Sociology Basic concepts, theories, and scientific methodology of sociology. Includes an emphasis on processes through which people shape and are shaped by their social environment, culture, social structures, and institutions.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
SOC 224S	Race & Ethnicity Introduction to the sociological study of racial and ethnic relations in the United States through the study of principles, sociological theories, processes and consequences of interracial and ethnic group relations. Emphasis will be placed on the effects of diverse groups in the institutions of American society.	3	Prerequisite: Qualifying assessment scores in reading and writing or satisfactory completion of ENG 091D and ENG 093D.
SOC 225S	Marriage & Family Relations Study of family structures and functions, or dysfunctions, sex/gender roles, relationships between marriage partners and among family members, and the relationship between family and society.	3	Prerequisite: SOC 121S.
SOC 226S	SOC 226S Social Problems Examination of current social problems in the United States. Among the topics discussed are: poverty, race and gender inequality, environmental issues, family, alcohol and drug abuse, crime, violence.	3	
Spanish		Credit Hours	Requisites
SPN 121S	Beginning Spanish I Foundation for understanding, speaking, reading, and writing Spanish. This course includes basic grammar and vocabulary, sentence structures, and an exposure to everyday culture in the Spanish world.	3	
SPN 122S	Beginning Spanish II Continuation of SPN 121S . Foundational knowledge and comprehension of the language in increased through oral and written exercises.	3	Prerequisite: SPN 121S Beginning Spanish I or demonstrated performance in the indicated area of study.

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SPN 221S	Intermediate Spanish I Continuation of beginning Spanish series. Foundational knowledge of the language, stresses fluency, comprehension, and translation.	3	Prerequisite: SPN 122S Beginning Spanish II or demonstrated performance in the indicated area of study.
SPN 222S	Intermediate Spanish II Continuation of SPN 221S . Course focuses on complexity of the grammar, vocabulary, and the use of language in the Hispanic world and stresses fluency, comprehension, and dialog.	3	Prerequisite: SPN 221S Intermediate Spanish I or demonstrated performance in the indicated area of study.
Supply Chain Management		Credit Hours	Requisites
SCM 110S	Introduction to Supply Chain Management Introduction to supply chain management as a functional area within business. Includes the role of materials management and physical distribution.	3	
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Theater		Credit Hours	Requisites
THE 121S	Introduction to Theater Study of the art form of theater from three perspectives: history of theater, values and criticism in theater, and the practice of theater professionals. Students are not required to perform in this course.	3	Recommended: HUM 121S.
Program continues with 2nd level courses. Please view Edison State Community College catalog, http://catalog.edisonohio.edu/content.php?catoid=22&navoid=1735 or contact Dr. Paul Heintz for additional information.			
Welding		Credit Hours	Requisites
WLD 101S	Manual Shielded Metal Arc Welding Develop the skills necessary to make quality shielded metal arc welds in the vertical position on mild steel from 3/16 inch to 1/2 inch plate, single and multiple pass, using mild steel, low hydrogen, and iron powder electrodes, with DC welding current.	3	
WLD 102S	Manual Gas Metal Arc Welding Develop the skills necessary to make quality gas metal arc welds in the vertical position on mild steel from 3/16 inch to 3/8 inch plate, single and multiple pass, using short circuit transfer. Illustrates problems associated with welding situations and provides corrective information.	3	
WLD 103S	Manual Gas Tungsten Arc Welding Develops the skills necessary to make quality gas tungsten arc welds on 16 and 11 gauge mild steel, 16 gauge stainless steel, and 0.125 aluminum, using both direct and alternating current. Material is presented on the weld characteristics of carbon steel, stainless steel and aluminum.	3	
WLD 111S	Basic Welding Welding processes include shielded metal arc, gas metal arc, gas tungsten arc, and oxyacetylene welding. Cutting processes include oxyacetylene and plasma cutting. Students will develop welding and cutting skills and knowledge by performing the basic processes on steel and aluminum.	2	