## Spring 2020 Class Listings

### Spring Term: January 13 - May 8, 2020

Evening and Saturday class times are shaded.

The College reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, divide a class if the enrollment is too large for efficient instruction, change the time of a scheduled course or section and/or change instructors when necessary.

**Building key:** A-Applied Science Center • ATI-ATIC Building • B-Brinkman Educational Center • BFHS-Bellefontaine High School • C-Early Childhood Education Center • CAR-Greene County Career Center • G-Greene Center • H-Hospital • HBC-Hollenbeck Bayley • L-LRC • OH-P-Ohio Hi-Point Career Center • OHP1-Ohio Hi-Point Cottage #1 • OHP2-Ohio Hi-Point Cottage #2 • P-Performing Arts Center • R-Rhodes Hall • S-Shull Hall • TLC-Technology and Learning Center

**Section key:** E-E-E Online • F-F-Franklin County • G-G-Greene Center • H-H-Hybrid • L-L-Logan County • M-M-Montgomery County • N-N-Independent Study • P-P-Self-paced • Q-Q-Computer-Based Classroom • S-Springfield • T-T-Traditional • U-U-Urbana • W-W-Warren County • X-X-Flexibly Scheduled (Sections may use combinations: e.g. BX, GS)

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### ACC Accounting

#### ACC 1000 Accounting Concepts (3)
Survey of financial accounting for nonaccounting majors. Accounting concepts, financial statements, internal control, cash, receivables, inventories, plant and equipment, liabilities, and payroll. Course does not substitute for ACC 1100. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and NextGen Accuplacer math score of 220 or greater.

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#### ACC 1100 Introduction to Financial Accounting (4)
Fundamental accounting concepts, terms, and procedures. Emphasis on analyzing, classifying, and recording accounting data. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and NextGen Accuplacer math score of 220 or greater.

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#### ACC 1200 Managerial Accounting (4)
Theories, standards, and practices related to the analysis of accounting data as part of the managerial process of planning, decision making, and control. Prerequisite(s): ACC 1100.

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#### ACC 1300 Payroll Accounting (2)
Practical application of payroll tax laws and requirements. Use of manual and computerized systems; payroll registers, tax returns, and deposit coupons. Prerequisite(s): ACC 1000 or ACC 1100.

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#### ACC 1400 Computerized Accounting (3)
Integrated accounting systems applications. Maintaining accounting records, financial statement generation using accounting software. Study of both service and merchandising businesses. Microsoft Excel is required software for the course. Students must use a PC. Software is not compatible with MAC computers. Prerequisite(s): ACC 1100.

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### ACC 2000 Spreadsheet Accounting (3)
Accounting applications applied using Microsoft Excel. Financial statement preparation, aging of accounts receivable, loan amortization, ratio analysis, payroll, depreciation, fixed assets covered. Emphasis on sorting, filtering, and formatting. Prerequisite(s): ACC 1100 and ITS 1235.

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#### ACC 2200 Intermediate Accounting II (4)
US Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRS) applied to fixed assets, intangibles, investments, liabilities, income taxes, stockholders' equity, and statement of cash flows. Prerequisite(s): ACC 2100.

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#### ACC 2300 Cost Accounting (3)
Cost accounting principles including job order cost, process cost, and standard cost accounting. Variance analysis and budgeting also covered. Prerequisite(s): ACC 1200 and ITS 1235.

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### (AGR) Agriculture

#### AGR 1350 Soil Fertility (4)
Principles of soil fertility, plant nutrient requirements, nutrient sources, application methods, and environmental concerns. Prerequisite(s): AGR 1300. Lab and other fee: $30.00.

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#### AGR 2300 Plant Propagation (4)
Principles and techniques used to propagate floral, greenhouse, and landscape plants. Explore materials, facilities, and structures used by commercial growers. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ENG 0900 with a grade of C or higher. Lab and other fee: $35.00.

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#### AGR 2650 Integrated Pest Management (4)
Management of pest problems utilizing approved control methods. Use of cultural, biological, and chemical methods including the safe use, handling, and application of pesticides. Individualized study in the student's area of interest. Prerequisite(s): AGR 2600. Lab and other fee: $20.00.

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AGR 2800 Equipment Management, Maintenance & Repair (4)
Development of best practices for selection, operation, and management of green industry equipment. Small engine operation, troubleshooting, and overhaul. Rent, lease, buy decisions; depreciation schedules, maintenance schedules, and other fleet resources. Pre/Corequisite(s): ENG 1111 and MTH 1200. Lab and other fee: $50.00.
3774 AGR2800 ST01J SI05 TTH 11:30-3:00 17/20 Davison

AGR 2850 Agricultural Capstone Seminar (3)
Application of knowledge and skills. Use of problem-solving and teaming skills to respond to a series of real-world industry scenarios. Off-site casework may be required. Prerequisite(s): AGR co-op, AGR 1350, AGR 2700. Lab and other fee: $10.00.
1425 AGR2850 ST01J SI15 TTH 3:15-5:00 15/24 Davison

AGR 2901 Special Topics in Co-op Experience in Ag Business Part I (1)
Co-op work experience in the student program area. Minimum of 150 hours at an agribusiness selected by the student. Work plan and goals development. Oral and written reports. Prerequisite(s): AGR 1100 with a grade of C or higher and a minimum of 10 technical hours.
7556 AGR2901 ST01X TBA TBA TBA 12/12 TBA 4/13-5/22

AGR 2905 Special Topics in Co-op Experience in Nursery Ops Part I (1)
Co-op work experience in the student program area. Minimum of 150 hours at an agribusiness selected by the student. Work plan and goals development. Oral and written reports. Prerequisite(s): AGR 1100 with a grade of C or better and a minimum of 10 technical hours. Instructor permission required.
7557 AGR2905 ST01X TBA TBA TBA 12/12 TBA 4/13-5/22

AGR 2907 Special Topics in Co-op Experience in Natural Resources Part I (1)
Co-op work experience in the student program area. Minimum of 150 hours at an agribusiness selected by the student. Work plan and goals development. Oral and written reports. Prerequisite(s): AGR 1100 with a grade of C or better and a minimum of 10 technical hours. Instructor permission required.
7558 AGR2907 ST01X TBA TBA TBA 12/12 TBA 4/13-5/22

AGR 2909 Special Topics in Co-op Experience in Precision Agriculture Part I (1)
Co-op work experience in Precision Agriculture. Minimum of 150 hours at an agribusiness selected by the student. Work plan and goals development. Oral and written reports. Prerequisite(s): AGR 1100 with a grade of C or higher and a minimum of 10 technical hours. Instructor permission required.
7559 AGR2909 ST01X TBA TBA TBA 12/12 TBA 4/13-5/22

AGR 2913 Special Topics in Co-op Experience in Golf Course Ops Part I (1)
Co-op work experience in the student program area. Minimum of 150 hours at an agribusiness selected by the student. Work plan and goals development. Oral and written reports. Prerequisite(s): AGR 1100 with a grade of C or higher. Instructor permission required.
7560 AGR2913 ST01X TBA TBA TBA 12/12 TBA 4/13-5/22

(ART) Art

ART 1002 Art History II (3)
Survey of visual art and architecture from the early Renaissance era to the Modern period. Pre/Corequisite(s): ENG 1111.
1427 ART1002 ST01C R205 M 5:30-8:10pm 8/25 Knapp

ART 1111 Drawing I (3)
Line value, shape, and color in developing visual drawing skills. Two- and three-dimensional problems. Study of location of forms in space, their proportion and structure with light and shade as well as perspective. Representational and contemporary problems with complex composition arrangements, wet/dry media, and simple color drawing to develop visual skills. Use of still life, landscape, and introduction to some figure work. Line, value, shape, and color in developing visual drawing skills. Introduction to figure drawing. Lab and other fee: $25.00.
1428 ART1111 ST01C HBC209 MW 3:00-5:00 5/15 Reeder

ART 1121 Drawing II (3)
Interpretation of figure using wet/dry media, black and white, and complex color. For both fine and graphic design artists. Explores use of line value and shape and color in developing visual drawing skills. Two- and three-dimensional problems are given. Study of location of forms in space, their proportion and structure with light and shade as well as perspective. Representational and contemporary problems with complex composition arrangements, wet/dry media, and simple color drawing to develop visual skills. Still life, landscape, and introduction to some figure work. Explores the use of line, value, shape, and color in developing visual drawing skills. Prerequisite(s): ART 1111. Lab and other fee: $80.00.
1429 ART1121 ST01C HBC209 MW 1:00-2:50 4/20 Reeder

ART 1300 Appreciation of the Arts (3)
Survey of the spectrum of the arts embedded within Western Civilization. Examines and evaluates the aesthetic contributions of painting, sculpture, architecture, music, and dance of each historical period. Individual artworks for each period illustrating the nature and problems of the creative process as it evolved during each specific period from the Paleolithic Period to the Post-Modern Period. Pre/Corequisite(s): ENG 1111.
1430 ART1300 E001C (Online Section) 2/25 Jankowski
1431 ART1300 E002C (Online Section) 0/25 Lauricella
1433 ART1300 ST01C R226 MW 9:30-10:45 3/25 Henry

(ASL) American Sign Language

ASL 1112 Beginning American Sign Language, Course II (3)
Introduction to American Sign Language (ASL) and the Deaf building on the components of the first ASL course. Vocabulary for conversing with individuals who are Deaf. Complex grammatical elements with a greater understanding of application while signing. Emphasis on increasing expressive and receptive skills and Deaf culture with first-hand experience. Prerequisite(s): ASL 1111 with a grade of C or higher and a minimum of 10 technical hours. Instructor permission required.
1434 ASL1112 GT01C G113 MW 11:00-12:15 18/25 Moore
1441 ASL1112 ST01C R316 MW 8:00-9:15 4/25 Moore
1442 ASL1112 ST02C TLC139 M 5:30-8:10pm 21/25 Henegar

(AVN) Aviation

AVN 1001 Private Pilot Ground (3)
Conduct flight training in a single engine land airplane. Preparation for compute-based private pilot knowledge test. Students must have a High School Diploma/GED and be at least 18 years of age. Prerequisite(s): Students must have a High School Diploma/GED and be at least 18 years of age. Other fee: $150.00.
7172 AVN1001 GT01C TBA TBA TBA 0/1 McNutt
AVN 1002 Private Pilot Flight Lab (2)
Aeronaautical knowledge and experience. Develop the flight proficiency necessary to meet the requirements for a private pilot certificate. Students must have a High School Diploma/GED and be at least 18 years of age. Pre/Co-Requisite(s): AVN 1001 and Students must have a High School Diploma/GED and be at least 18 years of age. Instructor permission required. Other fee: $7,765.00.

BIO 1105 Fundamentals of Anatomy and Physiology (3)
Survey of the structure and function of the human body: special emphasis on the major body systems. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ENG 0900 with a grade of C or higher. Lab and other fee: $100.00.

BIO 1131 Microbiology (3)
Study of infectious diseases of the body. Emphasis on the causes and effects of bacteria, fungi, viruses, and parasites to health. Component offered online and onsite. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ENG 0900 with a grade of C or higher. Lab and other fee: $100.00.

BIO 1410 Fundamentals of Biology (4)
Fundamental concepts in biology including: chemistry essential to understanding living organisms, structure and function of cells, basic concepts of energy in living systems, and introduction to human biology. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $60.00.

BIO 1420 Global Biology (4)
Basic principles in ecology, evolution, and environmental biology including: diversity of living organisms; interactions between living organisms and the interactions of living organisms with their environment; plant biology and photosynthesis; and mechanisms of evolution and biological aspects of current environmental issues. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $70.00.

BIO 1520 Biology II (5)
Evolutionary processes relevant to biological diversity. Diversity and classification of living organisms. Structure and function of plants and animals. Ecosystem structure and function. [Consistent with Transfer Assurance Guidelines (TAG) for Biology II (second in a two-semester sequence, intended for students with science majors).] Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and MTH 0650 with a grade of C or higher, and BIO 1510 with a grade of C or higher. Lab and other fee: $85.00.
### BIO 2121 Anatomy and Physiology I (4)
Human cells, tissues, skin, bones, muscles, nervous system cells; central, peripheral, and autonomic nervous systems; special senses; endocrine system. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): High school biology and chemistry within 5 years with a C or better or BIO 1410 with a C or better within 5 years or currently practicing LPN or paramedic. Lab and other fee: $35.00.

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### BIO 2122 Anatomy and Physiology II (4)
Human circulatory, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Immunity, nutrition and metabolism, fluid and electrolyte balance/acid-base balance, pregnancy, human development, and heredity. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): BIO 2121. Lab and other fee: $35.00.

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### (CAD) Computer Aided Design
**CAD 1101 Computer-Aided Design I (3)**
AutoCAD software to construct two-dimensional mechanical drawings. AutoCAD commands to produce drawings and fully dimension them according to ANSI standards. Drawings plotted at scale as required. Prerequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher. Pre/Corequisite(s): ENT 1000 or FYE 1000 or FYE 1100 or ENT 1050. Lab and other fee: $200.00.

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### CAD 1301 Architecture I (3)
Architectural design with the use of CAD. Research, use of space, preliminary design, formal presentation drawings, and design projects. Prerequisite(s): CAD 1101. Lab and other fee: $15.00.

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## CAD 2100 Solid Modeling (3)

Two-dimensional drafting (2D) and three-dimensional (3D) solid model assemblies. Generating 2D/3D elements, integrating 2D/3D elements, creating orthographic views from solid models, and parametric modeling. Inventor and AutoCAD used. Pre/Corequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $2000.

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## CAD 2200 Advanced Solid Modeling (3)

Advanced 3-D modeling techniques. Presentation files, animation, model analysis, piping systems, and assembly models. Pre/Corequisite(s): CAD 2100. Lab and other fee: $20.00.

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## CHM 1220 General Chemistry II (5)

Intermolecular forces and phase changes; solutions and colligative properties; chemical kinetics; chemical equilibrium; acid-base equilibria; thermodynamics (including entropy and free energy); electrochemistry; descriptive chemistry, including chemical properties and classification of the elements, periodic patterns of reactivity; introduction to organic and biochemistry; applications of chemistry in society; collection, analysis and reporting of data; problem-solving using algebraic methods. (* Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) Pre/requisite(s): CHM 1210 with grade of C or higher. Pre/Corequisite(s): ENG 1112. Lab and other fee: $85.00.

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<td>4/14</td>
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## COM 1110 Interpersonal Communication I (3)

An introduction to interpersonal communication. Analyzing, changing, and improving oneself within various relationships. The communication process, listening, perception, verbal and nonverbal communication, emotions, self-concept, power, conflict, gender, and intercultural communication. Pre/requisite(s): ENG 1111.

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## CHM 1150 Introduction to General Chemistry (4)

Intensive preparation (equivalent to a year of high school chemistry) for General Chemistry (CHM 1210). Introduction to the composition, structure, properties, and transformations of matter, including dimensional analysis, atomic structure, bonding, chemical reactions, states of matter, energy changes, solutions, reaction rates and chemical equilibrium, acids, bases and buffers, introduction to chemical laboratory methods and equipment, including mass and volume measurements, graphing, observing chemical and physical properties, carrying out stoichiometric measurements and titrations, drawing conclusions from experimental data, design experiments to test hypotheses. (*) Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) Pre/requisite(s): ENG 0900 with a grade of C or higher, and MTH 0650 or MTH 0750, with a grade of C or higher. Lab and other fee: $65.00.

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## CHM 1160 Introduction to Organic and Biological Chemistry (4)

Introduction to the structures, chemical and physical properties of hydrocarbons, alcohols, phenols, ethers, aldehydes, ketones, carboxylic acids, amino acids, proteins. Introduction to the role of enzymes and vitamins in metabolism, structure and function of nucleic acids, and protein synthesis, reactions of hydrocarbons, alcohols, phenol, ethers, carboxylic acids, esters, properties of lipids, saponification, structures and properties of aspirin and other analogues, amino acids, peptides and proteins, properties of enzymes. (*Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) Pre/requisite(s): MTH 0650 with a grade of C or higher, and CHM 1150 within the last 5 years. Lab and other fee: $70.00.

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## CHM 1120 Public Speaking I (3)

An introduction to public speaking processes designed to assist students in communicating effectively in a variety of speaking situations. Examines developing, organizing, delivering, and analyzing public presentations. Online sections require digital recording equipment and are not recommended for students with high speech anxiety. Pre/requisite(s): ENG 1111.

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## COM 1130 Introduction to Mass Communication (3)

History of mass media in our society, specifically radio, newspapers, magazines, television, governmental regulation, public relations, marketing, advertising, and the Internet. Relationships between mass media, other forms of media, their respective audiences, and philosophical and ethical issues. Pre/requisite(s): ENG 1111.

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COM 1170 Small Group Communication (3)
An introduction to the basic terms, principles, and theories of small group communication, examining multi-cultural leadership, roles, goal achievement, conflict, decision making, and problem solving. Development of effective group decision making, leadership skills, emphasizing methods of expressing oneself, and understanding others. Prerequisite(s): ENG 1111.
1572 COM1170 ST01C R315 MW 12:30-1:45 13/20 Taguacita

(COR) Corrections
COR 1100 Introduction to Corrections (3)
Explanation of history, evolution, and components of correctional systems. Identify components of the correctional systems. Current practices and present day issues in Corrections. Prerequisite(s): ENG 1111 and.
3951 COR1100 ST01C B203 MW 11:00-12:15 16/20 Benton

COR 1105 Probation and Parole (3)
History and philosophy of probation, aftercare, and other community programs for juvenile and adult offenders; function and philosophy of parole, current laws, and case studies. Prerequisite(s): ENG 0800 with a grade of C or higher.
4049 COR1105 GT01C G212 T 5:30-8:10pm 16/20 Monaghan
1575 COR1105 ST01C B203 MW 9:30-10:45 13/20 Benton

COR 2250 Correctional Case Management (3)
Focus on the importance of case manager's role in client oversight, correctional case management evaluation, responsibilities, and skills required of a case manager. Forms of advocacy and how to help facilitate community resource development. Prerequisite(s): COR 1100. Pre/Corequisite(s): ENG 1111.
3740 COR2250 ST01C B205 TH 5:30-8:10pm 16/20 Benton

(CRJ) Criminal Justice
CRJ 1100 Introduction to Criminal Justice (3)
Overview of the criminal justice system's history, development, and evolution, including subsystems of police, courts, and corrections. Prerequisite(s): ENG 0800 with a grade of C or higher.
1578 CRJ1100 GT01C G117 MW 12:30-1:45 13/20 Smithhart
1579 CRJ1100 ST01C B203 T 5:30-8:10pm 10/20 Holt

CRJ 1115 Victimization (3)
Explores victimization's impact upon victims, criminals, criminal justice entities, and the community. Review theories and best practices and identify resources and rights afforded to victim.
3990 CRJ1115 ST01C B205 W 5:30-8:10pm 11/20 Carter-Marshall

CRJ 1120 Juvenile Procedures (3)
Examination of the juvenile justice system's parts, subcultures; and the causative factors, prevention, and treatment of juvenile delinquency. Prerequisite(s): ENG 0800 with a grade of C or higher.
1580 CRJ1120 GT01C G232 MW 11:00-12:15 11/20 Smithhart
1581 CRJ1120 ST01C B203 MW 8:00-9:15 7/20 Benton

CRJ 1123 Patrol Operations (3)
Comprehensive study of police patrol operations, including vehicle patrol techniques, foot patrol, crimes in progress, prowler calls, building searches, stops and approaches, and traffic crash investigation. Prerequisite(s): ENG 0800 with a grade of C or higher.
1584 CRJ1123 ST01C B203 MW 12:30-1:45 7/20 Delong
1585 CRJ1123 ST01C B203 W 5:30-8:10pm 12/20 Smithhart

CRJ 1283 Basic Law Enforcement I (8)
Law enforcement skills and techniques to fulfill partial requirements for peace officer training certification as required by the Attorney General's office and the Ohio Peace Officer's Training Council (OPOTC). Prerequisite(s): High school diploma or GED. ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ENG 0900 with a grade of C or higher. Instructor permission required. Lab and other fee: $1,374.00.
4137 CRJ1283 ST01X B006 MTWTHF 5:30-10:30pm 13/24 Weber 1/6-4/19
7425 CRJ1283 ST02X B006 MTWTHF 8:00-5:00 11/24 Weber 3/2-5/9

CRJ 2235 Social Justice (3)
Exploration of job stresses and the social value and ethics of the criminal justice process. Prerequisite(s): CRJ 1100. Pre/Corequisite(s): ENG 1111.
1586 CRJ2235 GT01C G232 TH 2:00-3:15 13/20 Smithhart
1587 CRJ2235 ST01C B203 TH 8:00-9:15 15/20 Herdt

CRJ 2240 Criminal Law (3)
Criminal procedures, criminal law, common defense, and prosecutorial processes. Prerequisite(s): CRJ 1100. Pre/Corequisite(s): ENG 1111.
1588 CRJ2240 GT01C G230 TH 12:30-1:45 14/20 Delong

CRJ 2260 Constitutional Law (3)
History and philosophy of the American constitution; theories of constitutional interpretation; judicial review; role of the Supreme Court in shaping government and society; Supreme Court and the bill of rights landmark cases. Prerequisite(s): ENG 1111.
1591 CRJ2260 ST01C B203 TH 9:30-10:45 11/20 Herdt

CRJ 2280 Practicum (3)
Supervised work experience in law enforcement agencies. 105 hours of practicum documentation during the semester. Criminal background investigation required. Students with felony or domestic convictions cannot be enrolled in this course. Prerequisite(s): CRJ 1100 and CRJ 1120 and CRJ 1123 and CRJ 2201 and CRJ 2216 and CRJ 2225 and CRJ 2228 and CRJ 2250 and CRJ 1115. Pre/Corequisite(s): CRJ 2235 and CRJ 2240. Instructor permission required.
1593 CRJ2280 SH01C TBA TBA TBA 10/20 Benton
1594 CRJ2280 LEC B203 F 12:30-1:30

CRJ 2901 SPECIAL TOPICS IN CRIMINAL JUSTICE (1)
Researching current topics in law enforcement with the purpose of increasing student understanding of the criminal justice system. Instructor permission required.
4009 CRJ2901 ST01C B203 F 8:00-9:30 20/20 Benton

(CSD) Computer Software Development
CSD 1300 Database Management (2)
Concepts of database management. Relational databases, database design, normalization. Students must take both CSD 1300 and CSD 1310 to replace the discontinued course CSD 1400. Prerequisite(s): MTN 0500 and ENG 0850 with a grade of C or higher. Pre/Corequisite(s): ITS 1105 or ITS 1245.
1594 CSD1300 EE01C (Online Section) 17/25 McKinley
1595 CSD1300 GH01C (Online Section) 11/16 McKinley
ONL TBA TBA TBA
CSD 1310 SQL I (2)
Introduction to SQL (Structured Query Language). Create and update tables in a relational database. Use queries to retrieve information from tables. Students must take both CSD 1300 and CSD 1310 to replace the discontinued course CSD 1400.
A computer is required. Prerequisite(s): MTH 0500 and ENG 0850 with a grade of C or higher. Pre/Corequisite(s): ITS 1105 or ITS 1245.

CSD 1510 Programming Fundamentals with Python (3)
Fundamental programming constructs and concepts. Designed for students with little or no programming experience. Study of variables, constants, looping, strings, flowcharting basics, programming logic, and data validation techniques. This course replaces CSD 1506. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and MTH 0650 with a grade of C or higher. Lab and other fee: $20.00.

CSD 1600 JavaScript and jQuery (3)
Use JavaScript and jQuery to create interactive web sites. This course replaces CSD 2200. Prerequisite(s): CSD 1500 or CSD 1510 and ITS 1500.

CSD 2100 Systems Analysis and Design (3)
A structured approach to the analysis and design of computer-based information systems. Prerequisite(s): CSD 1400 and CSD 1510 or CSD 1500 and MTH 0650 with a grade of C or higher. Pre/Corequisite(s): ENG 2211 and ITS 1105. Lab and other fee: $20.00.

CSD 2522 Java Programming II (3)
Advanced concepts of computer programming. Use of data structures and tools that facilitate programming. Prerequisite(s): CSD 2521.

CSD 2541 C++ Programming (3)
C++ program structure, language, syntax, and implementation details. Object-oriented programming language concepts. Prerequisite(s): CSD 1510 and MTH 0650.

CSD 2610 Mobile Web Application Programming (3)
Use HTML and JavaScript to design and create applications for mobile devices. Prerequisite(s): CSD 1600.

CSE 1120 CyberSecurity - Security + (3)

DSL 1300 Preventative Maintenance (2)
Preventative maintenance (PM) and standard service procedures of a heavy duty truck. Familiarization with the heavy duty truck market and equipment, shop and material safety, standard shop equipment, basic hand tool usage and care, usage and care of precision measuring instruments, and shop safety precautions. Individual truck systems, their service and preventative maintenance procedures. Pre/Corequisite(s): ENT 1000. Lab and other fee: $100.00.
(ECE) Early Childhood Education

ECE 1101 Professional Development for Educators (1)
Overview of basic skills and knowledge necessary for individuals planning a career path in education. Focus on course planning, scheduling, professional communication, academic preparation, and individual learning styles. Criminal background check at approximate cost of $60 must be obtained prior to course completion. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ECE 1102.

1644 ECE1101 ST01A A136 T 11:00-12:50 14/20 Hastings

ECE 1103 Early Childhood Development (3)
Focus on applying knowledge of the characteristics and needs of young children prenatal to age eight, to create healthy, respectful, supportive, challenging, and effective learning environments. Multiple and interrelated influences on the development and learning of young children will be examined. Pre/Corequisite(s): ENG 0800 or ENG 0850 and ENG 0900. Lab and other fee: $35.00. Student Liability fee: $25.00.

3676 ECE1103 ST01C A136 W 2:00-4:40 2/20 Ingram

ECE 1108 Creative and Motor Development in Early Childhood (3)
Creative and motor development birth through eight. Foundational learning theories in physical and creative development through play, visual art, music, and movement. Participation in activities of art, drama, music, and movement to enhance creative expression and development of critical thinking, processing, and problem-solving skills of the young child. Observation and resource portfolio. Pre/Corequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ECE 1102. Lab and other fee: $40.00.

4036 ECE1108 ST02C A136 T 1:30-4:10 18/20 Hastings

ECE 1112 Cognitive Development in Early Childhood (3)
Cognitive development birth through eight. Brain development, foundational cognitive development learning theories, and Ohio Department of Education (ODE) Early Learning Content Standards. Best practices in enhancing processing skills, problem solving and critical thinking in curriculum content areas math, science, social studies. Planning and implementing small group activities, preparing teacher-made materials for use in advancement of mathematics, science, and social studies skills. Observations, methods, and instructional strategies/skills. Prerequisite(s): ENG 1111, ECE 1101, ECE 1102, and MTH 0500 with a grade of C or higher. Lab and other fee: $35.00.

1647 ECE1112 ST02C A136 M 12:30-3:10 16/18 Hastings

ECE 1115 Observation and Assessment in Early Childhood (3)
Observing, recording, assessing, and interpreting behaviors of young children. Emphasis on a variety of assessment tools and appropriate methodologies for collecting data for decision making. Ten hours of observation and field experience required. Prerequisite(s): ECE 1101, ECE 1102, and ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $40.00. Student Liability fee: $20.00.

1648 ECE1115 ST01C A136 T 11:00-12:50 14/20 Ingram

ECE 2120 Leadership, Management, Mentoring in Early Childhood Education (3)
Guidelines for leading, staffing, organizing, budgeting, planning, monitoring, and controlling for quality in programs for young children. Examination of leadership styles, teacher development, guiding, and coaching in a variety of settings. Focus on creating culturally responsive and ethical programs through use of anti-bias teaching practices and incorporation of Code of Ethical Conduct in planning and implementation. Prerequisite(s): ECE 1102 and ECE 1115 and ENG 1111. Lab and other fee: $25.00.

1651 ECE2120 ST01C A144 TH 5:30-8:10pm 11/20 Ingram
**ECE 2135 Practicum Field II (2)**
Field Experience II, application of theory, child development, and skills in planning and implementing appropriate lessons, units of study. Lead daily planning for environment, support staff, managing transitions, guiding and managing both small and large group settings. Professional behaviors working with mentor teacher, support teachers, staff, and parents. Completion of observational tools, including case studies, assessment tools, and documentation of learning expected. 210 hours supervised experiences and final evaluation by mentor teacher and Clark State instructor. Final capstone oral presentation and learning summaries of program goals and field experience. Prerequisite(s): ECE 2130 and ECE 2133. Corequisite(s): ECE 2137. Instructor permission required. Lab and other fee: $30.00. Student Liability fee: $20.00.

**ECE 2137 Seminar II (2)**
Preparation for field experience II, planning appropriate lessons in all content areas, including creative experiences, use of Ohio Department of Education (ODE) Early Learning Content Standards, planning for environment at field site, observations, assessments. Peer and teacher evaluations, small and large group planning, ten lead days, planning for routine, guidance, support staff, and transitions. Analysis of experiences gained in field, preparation of capstone portfolio and final oral evaluation. Completion of all paper work, documentation needed for entering field site. Praxis examination practice. Prerequisite(s): ECE 2130 and ECE 2133. Corequisite(s): ECE 2135. Instructor permission required. Lab and other fee: $30.00.

**EDU 1110 Introduction to Education (3)**
Purposes, organizations and outcomes of schooling grounded in social foundations of education. Critical inquiry into teaching as a profession, licensure requirements, teacher’s legal rights and responsibilities, and accountability of public schools. Examine historical and philosophical foundations, demographic factors, and issues of culturally responsive teaching practice. Requires (4) hours of observation and completion of interviews. Pre/Corequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher. Student Liability fee: $25.00. Lab and other fee: $20.00.

**EDU 2110 Family, Community, Schools (3)**
Effect of family and community environment on the learner. Effect of culture, disability, and socioeconomic status on collaboration and interaction with families. Strategies to promote effective collaboration with emphasis on listening, communication, confidentiality, problem solving, stress management, ethics, and role as a team member. Field observation and participation. Prerequisite(s): ENG 1111 and ENG 1112 and ECE 1103. Pre/Corequisite(s): ECE 1102 and ENG 1111 and ENG 1112. Lab and other fee: $35.00.

**EDU 2217 Individuals with Exceptionalities (3)**
Overview of exceptionalities, inclusive & self-contained education programs with an opportunity to observe classroom methods, management and strategies for flexible adaptive planning in educational settings. Topics include learner development and individual learning differences, learning environments, curricular content knowledge, assessment, instructional planning and strategies, professional learning and ethical practice & dispositions, and collaborations with families, schools, and communities. Prerequisite(s): ECE 1102 or EDU 1110 and ENG 1111. Pre/ Corequisite(s): ENG 1112. Student Liability fee: $30.00. Lab and other fee: $20.00.

**ECO 1100 General Economics (3)**
Introduction to basic economic concepts and topics such as resource allocation, costs, supply, demand, public goods, capitalism, market failures, gross domestic product, unemployment, population, inflation, unemployment, taxation, money creation, monetary policy, international trade, and other policy issues. Serves as General Education elective for students whose programs do not require ECO 2210 and ECO 2220. Prerequisite(s): ENG 1111.

**ECO 2210 Principles of Macroeconomics (3)**
Fundamentals of economics from a macro perspective including gross domestic product (GDP), level of employment, inflation, monetary and fiscal policies, trends and cycles. Prerequisite(s): ENG 1111.

**EMS 1100 EMT Theory & Practice (7)**
Meets current standards of the State of Ohio Division of Emergency Medical Services (EMS) for the Emergency Medical Technician (EMT). Recognizing nature and seriousness of patient’s condition/extent of injuries; administering appropriate emergency medical care, developing self confidence, communication skills, and accurate record keeping. Clinical/field observations. Successful students eligible to take Ohio’s EMT certification testing. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, ENG 0900 with a grade of C or higher, and MTH 0500 with a grade of C or higher. Corequisite(s): Criminal background check and EMS 1171. Lab and other fee: $150.00. Student Liability fee: $62.00. Certification fee: $80.00.

**EMS 1114 Paramedic Hospital Practice II (1)**
Continuing clinical practice in the hospital setting observing and practicing skills evaluated in the college laboratory. Includes emergency department, intensive care, and operating room rotations. Prerequisite(s): EMS 1112. Corequisite(s): EMS 1133. Instructor permission required.
Continuation of prehospital experience with a paramedic team, observing the daily responsibilities of the paramedic, giving the student the opportunity to go on EMS calls progressing from an observation role to a participant/leadership role with the Advanced Life Support team. Prerequisite(s): EMS 1122. Corequisite(s): EMS 1133. Instructor permission required.

Application of concepts from Paramedic Theory I. Treatment plans for cardiovascular, neurologic, endocrine, gastroenterologic, renal, urologic, gynecologic, obstetric, and specific neonatal, pediatric, and geriatric disorders, allergies and anaphylaxis, toxic exposure, infectious and communicable diseases, environmentally induced emergencies, behavioral emergencies, trauma, acute deterioration of chronic illness, patients with special challenges, and victims of abuse or assault. Management of emergency scene. Prerequisite(s): EMS 1131. Corequisite(s): EMS 1114 and EMS 1124 and EMS 1143. Instructor permission required.

Practical skills lab to support course outcomes and learning objectives of EMS 1133 and previously learned skills. Prerequisite(s): EMS 1141. Corequisite(s): EMS 1133. Instructor permission required. Lab and other fee: $200.00. Certification fee: $150.00.

Introduction to respiratory and circulatory emergency in infants, children, and adults. Instruction and treatment methods in community and professional cardiopulmonary resuscitation in accordance with the American Heart Association guidelines. Lab and other fee: $15.00.

A complete paramedic curriculum, pre-hospital environment, preparatory, trauma, burns, medical emergencies, OBG/GYN neonatal, and behavioral emergencies for the registered nurse with experience in the care of critically ill or injured patients. An emphasis is placed on practical knowledge in the college laboratory, hospital clinical setting, and field internship. RNs are given credit for past experience for their nursing education and experience. Prerequisite(s): RN, ACLS, PHTLS, BTLS, PALS, min 2 yrs critical care, TNCC; Ohio EMT-Basic Certification. Instructor permission required. Lab and other fee: $150.00. Student Liability fee: $62.00. Certification fee: $150.00.
ENG 1111 English I (3)
Writing and revising process, academic and argumentative essays, literary examples of descriptive, narrative, expository, and persuasive modes, language issues and library skills. Writing intensive. Primary focus on formal, written work composed for a variety of audiences. (Note: If repeating ENG 1111, must also register for ENG 0950) Prerequisite(s): ENG 0800 with a grade of C or higher.

ENG 1112 English II (3)
Critical thinking. Critical thinking, persuasive writing, research skills, and literary analysis. Writing intensive. Writing a variety of texts, including the researched essay. Opportunities for revision. Minimum of 5000 total words (20 pages). Electronic or other projects of academic rigor and substance considered. Primary focus on formal, written work. Prerequisite(s): ENG 1111 with a grade of C or higher.
ENG 2211 Business Communication (3)
Preparing and analyzing business documents using fundamental business communication principles and standards, technology, critical thinking skills, and research techniques in preparation for the workplace. Substantial focus on customs and traditions of a non-English-speaking country and the impact of those customs and traditions on expanding American business to that country. Development of oral communication skills using appropriate technology, strategy, and methods. Use of digital recording and PowerPoint slide projection equipment in online sections. Prerequisite(s): ENG 1111 or OAD 1105.

ENG 2230 Technical Report Writing (3)
Technical communications encountered on the job, including memos, technical definitions, descriptions, instructions and procedures, proposals, progress reports, analytical reports, oral presentations, and e-mail. Prerequisite(s): ENG 1111.

ENG 2300 Great Books: World Literature (3)
Chronological selection of the major works, genres, and periods of world literature beginning with the ancients and progressing through modern times. Prerequisite(s): ENG 1111. Pre/Corequisite(s): ENG 1112.

ENG 2500 American Literature (3)
Theories, ideas, and periods in American literature from its beginning through modern times. Prerequisite(s): ENG 1111. Pre/Corequisite(s): ENG 1112.

ENG 2620 British Literature from 1800 to the Present (3)
Survey of major works, themes, ideas, and periods of British literature from 1800 to the present time. Prerequisite(s): ENG 1111 and ENG 1112.

(ENT) Engineering Technology

ENT 1000 Introduction to Industrial and Engineering Technology (3)
Exploration of industrial and engineering technology careers. Introduction to sketching, critical thinking, design, and project management skills. Introduction to campus resources and computer services. Time management, study skills, communication skills. Using electronic media for information gathering, presentations, communication and data management. Prerequisite(s): Must have a NextGen Accuplacer score of Reading 220+, Writing 2+, Pre-Algebra/Math 220+. Lab and other fee: $25.00.

ENT 1050 Manufacturing Foundations (4)
Instruction in print reading and part visualization from drawings, including sketching multi-view drawings and three-dimensional models, location of key features and dimensioning specifications. Beginning concepts in geometric dimensioning and tolerancing. Instruction in using precision measurement tools including, but not limited to: scales, calipers, micrometers, dial indicators, coordinate measurement machines. The use of computer interfaces in metrology and basic statistical process control. Topics in lean manufacturing. Pre/Corequisite(s): ENT 1000 and Must have a NextGen Accuplacer score of Reading 220+, Writing 2+, Pre-Algebra/Math 220+. Lab and other fee: $25.00.

ENT 1310 Computer Numerical Control (CNC) Machine Operator - Turning (3)
Focuses on the Computer Numerical Control (CNC) lathe machine operator, including such tasks as maintaining machines, recording Statistical Process Control (SPC) data, tool identification and set-up, machining processes and quality inspection. Pre/Corequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $100.00.

ENT 1320 Computer Numerical Control (CNC) Machine Operator - Milling (3)
Focuses on the Computer Numerical Control (CNC) milling machine operator, including such tasks as maintaining machines, recording Statistical Process Control (SPC) data, tool identification and set-up, machining processes and quality inspection. Pre/Corequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $100.00.

ENT 1330 Fundamentals of Computer Numerical Control (CNC) (3)
An introduction to G and M codes necessary to program Computer Numerical Controlled (CNC) machines with an emphasis on programming and operations of machining and turning centers. Emphasis on tool geometry, tool selection, and the tool library. Instruction in Computer-Aided Manufacturing (CAM) software. Prerequisite(s): ENT 1310 and ENT 1320. Lab and other fee: $50.00.

ENT 1500 Engineering Materials (3)
Structural and mechanical properties of ferrous (iron) and non-ferrous (aluminum, copper, nickel, etc.) materials and alloys. Non-metallic materials such as glass, ceramics, concrete, wood, and electromagnetic and semi-conductor materials. Prerequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $20.00.

ENT 2100 Manufacturing Processes (3)
Overview of manufacturing process, including machine tool operations, metal forming, welding processes and casting. Setup and operation of metal lathe, mill, drill press, band saw, and grinder for the completion of lathe and milling projects. Prerequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $50.00.

ENT 2200 Strength of Materials (3)
Equilibrium, stress and strain, review of centroids and moments of inertia, torsion, stresses and deflections in beams, combined loading, compression members, and Mohr's Circle Method. Prerequisite(s): ENT 2200. Lab and other fee: $15.00.

ENT 2300 Manufacturing Processes (3)
Overview of manufacturing process, including machine tool operations, metal forming, welding processes and casting. Setup and operation of metal lathe, mill, drill press, band saw, and grinder for the completion of lathe and milling projects. Prerequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $50.00.
**ENT 2600 Engineering Design (3)**
Analysis of machine design. Design and development of engineering drawings for machine components. Converting engineering drawings into working prototypes. Computer simulations and destructive testing on designs. Prerequisite(s): ENT 1000 or ENT 1100 and ENT 1050 or ENT 1300. Pre/Corequisite(s): ENT 2100. Lab and other fee: $20.00.

**FYE 1100 College Success (1)**
Demonstrate effective studying, note-taking, and test-taking techniques; apply critical thinking skills to coursework and college and career planning; and examine college culture and resources and personal skills and behaviors related to successful academic performance. Pre/Corequisite(s): NIMS 100, 700 and ENG 0800 with a grade of C or higher. Instructor permission required. Lab and other fee: $155.00.

**FFC 1010 Volunteer Firefighter (1)**
Basic firefighter course used by volunteer fire departments. Minimum training, State of Ohio defined as Awareness level only. (SCBA) self contained breathing apparatus, hose streams, fire behavior. (Financial aid is not available for this course.) Prerequisite(s): NIMS 100, 700 and ENG 0800 with a grade of C or higher. Instructor permission required. Lab and other fee: $155.00.

**FFC 1070 Firefighter I (7)**
Expanded initial firefighter training. Basic and intermediate level training in all aspects of firefighting for those beginning a career path as a firefighter. (Financial aid not available for this course.) Prerequisite(s): ENG 0800 with a grade of C or higher and NIMS 100, 700, 710. Instructor permission required. Lab and other fee: $125.00.

**FFC 2020 Firefighter II (4)**
Instruction in advanced techniques of fire behavior, hazardous material, and rescue. This course meets the National Fire Protection Association (NFPA) 1001 standard for career firefighter with instruction in advanced techniques. (Financial aid not available for this course.) Prerequisite(s): FFC 1060 or FFC 1070. Instructor permission required. Lab and other fee: $475.00.

**GEO 1000 Introduction to Cartography with GIS (3)**
Geographic Information Systems (GIS), their capabilities, uses, and limitations. Basic cartographic concepts including manipulation, analysis, and graphic representation of spatial information. Emphasis on technology of map design principles with GIS and desktop mapping programs. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and MTH 0500 with a grade of C or higher. Lab and other fee: $50.00.

**GEO 1100 Human Geography (3)**
Survey of the distribution of culture, language, religion, and economic and political activities across the world; the role of ethnicity and the occurrence of ethnic conflict; map of the distribution of human activities, links between culture and politics, culture and religion, economic development, and natural resources; rural and urban settlements and patterns of population growth. Pre/Corequisite(s): ENG 1111.
GEO 1400 Introduction to Physical Geography (3)
Earth-Sun relationships and their connection to latitude and longitude; the processes responsible for the evolution of surface landscapes; general weather patterns; general climate zones and soil profiles; how climate variations relate to global distributions of plants and animals; glacial, fluvial, coastal landscapes, and the processes associated with them; components associated with weather and atmospheric processes such as cloud types, precipitation, pressure, and wind; global environmental change and factors responsible for it. Pre/Corequisite(s): ENG 1111.
1938 GEO1400 EE01C (Online Section) 15/25 Parrillo

GEO 2200 World Regional Geography (3)
Human interaction with the physical environment across regions; cultural practices, religious practices, and political practices and their interaction with the natural surroundings; human impact on the environment and the impact of the environment on human activities; mapping the distribution of these activities across the globe; comparing and contrasting major world regions. Pre/Corequisite(s): ENG 1111.
1939 GEO2200 GT01C G233 TTH 2:00-3:15 16/25 Rahtz

(GLG) Geology
GLG 1130 Earth and Space Science (4)
Introduction to the earth sciences. Concepts developed in astronomy, geology, oceanography, and meteorology. Laboratory experience in rock and mineral identification, weather map reading and interpretation, and problems in oceanography and astronomy. This course contains a lab and is for transfer. Prerequisite(s): ENG 0800 with a grade of C or higher. Lab and other fee: $45.00.
1940 GLG1130 ST01C R231 TTH 9:00-10:15 5/20 Erbacher
LAB R231 T 10:30-12:20

GLG 1132 Historical Geology (4)
Study of earth in space; physical evolution of oceans, atmosphere, and continents; origins of life and biological evolution; physical and biological development of the North American continent. Prerequisite(s): ENG 0800 with a grade of C or higher. Lab and other fee: $45.00.
1942 GLG1132 ST01C R231 MW 12:30-1:45 0/20 Erbacher
LAB R231 W 2:00-3:30

GLG 1133 Environmental Geology (4)
The interaction of geological processes with the purposes posed by humans. Includes use and misuse of resources, hazardous environments, engineering difficulties, waste, and effects on health. Prerequisite(s): ENG 0800 with a grade of C or higher. Lab and other fee: $45.00.
1943 GLG1133 GT01C G128 F 9:00-11:50 3/16 Erbacher
LAB G128 F 12:00-1:15

(GPH) Graphic Design
GPH 1110 Digital Illustration I (3)
Use of Adobe Illustrator for technical illustration. Generating professional quality technical drawings and information graphics. Prerequisite(s): GPH 1000 or GPH 1001 and ART 1111. Lab and other fee: $85.00.
1946 GPH1110 ST01C HBC206 MW 3:00-4:50 13/20 Osburn

GPH 1112 Typography (3)
The study of type characteristics. Practical application of basic and intermediate typographic principles within the design process. Use of Illustrator and InDesign. Prerequisite(s): GPH 1000 or GPH 1001. Lab and other fee: $85.00.
1947 GPH1112 ST01C HBC206 MW 8:00-9:50 8/20 Smith
HST 1110 Western Civilization to 1600 (3)
The history of Western Civilization from early man to 1600. Focus on the social, economic, political, religious, and cultural development of the ancient, medieval, and early modern worlds. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

1966 HST1110 EE01A (Online Section) 11/25 Chessen
1967 HST1110 EE01C (Online Section) 4/25 Knapp
4050 HST1110 EE02C (Online Section) 4/25 Chessen
1970 HST1110 GT01C G113 TTH 8:00-9:15 18/25 Poulos
1971 HST1110 KT01C X313 TTH 12:30-1:45 14/24 Mohler
1972 HST1110 ST01C R317 TTH 11:00-12:15 7/25 Knapp
1973 HST1110 ST02C R229 MW 12:30-1:45 7/25 Poulos
1974 HST1110 ST03C R301 T 5:30-8:10pm 19/25 Poulos

HST 1120 Western Civilization Since 1600 (3)
The history of Western Civilization from 1600 to the present. Focus on the social, economic, political, religious, and cultural evolution of the Western world from the age of reason to the Twenty-First Century. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

1975 HST1120 EE01B (Online Section) 0/25 Mohler
1976 HST1120 EE01C (Online Section) 2/25 Mohler
4027 HST1120 EE01D (Online Section) 4/25 Poulos
7528 HST1120 EE02B (Online Section) 5/25 Chessen
1977 HST1120 EE02C (Online Section) 2/25 Mohler
1978 HST1120 GT01C G118 TTH 12:30-1:45 9/25 Kuhn
1982 HST1120 ST01C R317 TTH 12:30-1:45 5/25 Knapp
4155 HST1120 ST01D TLC127 TTH 9:00-10:50 18/25 Knapp
1983 HST1120 ST02C R304 MW 9:30-10:45 9/25 Poulos

HST 1210 American History to 1865 (3)
American history from before colonization to the Civil War. Focus is on the political, social, economic, and cultural developments that shaped colonial, early national, and antebellum United States. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

1985 HST1210 EE01C (Online Section) 4/25 Mohler
1987 HST1210 ST01C R317 MW 11:00-12:15 13/25 Poulos

HST 1220 American History Since 1865 (3)
American history from the end of the Civil War to the present day. Focus is on political, social, cultural, and economic events that shaped current United States history. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

1988 HST1220 EE01B (Online Section) 0/25 Poulos
1989 HST1220 EE01C (Online Section) 3/25 Poulos
4097 HST1220 EE02C (Online Section) 0/25 Schneider
1993 HST1220 ST01C R317 TTH 9:30-10:45 9/25 Kuhn

HST 2200 Topics in African American History and Culture (3)
The history of African Americans from 1500 to the present. Focus on African background, social, economic, political, religious, and cultural development in the Americas. Prerequisite(s): ENG 1111 and college level American history course recommended. Pre/Corequisite(s): ENG 1112.

1997 HST2200 EE01C (Online Section) 1/25 Mohler

HST 1110 Introduction to the Humanities (3)
Cross-cultural analysis of the humanities focusing on human forms of expression in the western and non-western world; examines the role of the humanities in contextualizing the values of diverse cultures from the prehistoric age through post-modernism. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

1998 HST1110 EE01C (Online Section) 13/25 Chessen

HST 2899 Capstone Seminar (3)
Interdisciplinary approach to the study of the human condition, including readings from the natural and social sciences, literature, history, religion, and philosophy; course content will vary. Prerequisite(s): ENG 1112 and 40 credit hours earned.

2000 HST2899 EE01C (Online Section) 3/20 Sweet
2001 HST2899 EE02C (Online Section) 0/6 Sweet

HVC 1015 HVAC-R Fundamentals and Practices (3)
Refrigeration process, changes in state, pressure, temperature, and heat content. Mechanical cycle, absorption refrigeration cycle, systems components, proper selection and use of Heating, Ventilation, Air Conditioning & Refrigeration (HVAC-R) tools and accessories, proper use and testing of electrical components circuits and various electronic instruments. Brazing, soldering, and welding principles including safety, testing brazed joints, oxyacetylene torches, electrical resistance soldering, torch soldering, resistance welding, and plastic fusion welding. Principles of piping and tubing, refrigerant piping materials, copper tubing, and tube sizes for different HVAC-R application. Prerequisite(s): and ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $100.00.

2004 HVC1015 ST01X SCC-105 MTWTH 5:00-10:00pm 4/17 Moore 1/3-2/17

HVC 1100 Basic Electricity and Motors for HVAC-R (4)
Static electricity, current electricity, direct current, alternating current, power formula, power sources, loads, electrical circuits, control devices and switches, phase shift, power distribution, electric meters, AC induction motors, induction motor principles, capacitor principles, single phase motors, three phase motors, motor protection, start relays, and principles of motor operation. Design and operation of Electronically Commutated Motors (ECM). Electrical HVAC Excellence Certificate preparation. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $25.00. Certification fee: $25.00.

2005 HVC1100 ST01X SCC-105 MTWTH 5:00-10:00pm 2/17 Moore 2/18-4/8

HVC 1215 EPA Certifications (2)
EPA mandated educational material in preparation for the EPA 608 and EPA refrigerant exam. Lab and other fee: $85.00. Certification fee: $25.00.

2006 HVC1215 ST01X SCC-105 MTWTH 5:00-10:00pm 3/17 Combs 4/9-4/27

INT 1000 OSHA 10-Hour General Safety (1)

2017 INT1000 EE01B (Online Section) 6/24 Brown
2018 INT1000 EE01C (Online Section) 7/25 Hatem
**INT 1050 Blueprint Reading and Schematics (3)**
Part visualization from drawings, location of key features, drawing dimensioning methods, geometric dimensioning and tolerancing symbols. Electrical, Heating, Ventilation, Air Conditioning and Refrigeration (HVAC-R), pneumatic and hydraulic, and wiring schematics, symbols, and diagrams. Interpretation of drawing specifications. Prerequisite(s): ENG 0800 with a grade of A or EN 0850 with a grade of C or higher. Lab and other fee: $10.00.

2019 INT1050 SP01C SL28 TBA TBA 20/20 Hatem

**INT 1201 Hydraulics and Pneumatics (3)**
Components and principles utilized in basic industrial hydraulic and pneumatic circuits. Schematics for fluid systems, component operation, troubleshooting techniques, and basic calculations for the design and troubleshooting of systems. Prerequisite(s): AGR 1100 or ENT 1000. Lab and other fee: $80.00.

2020 INT1201 LP01C HP502 TBA TBA 20/20 Hatem
2021 INT1201 SP01C SL28 TBA TBA 17/20 TBA

**INT 1300 Electrical Systems (3)**
Components and operation of common alternating and direct current circuits. Use of test equipment for electrical circuits. Calculations involved in troubleshooting circuits. Series and parallel circuits. Basic logic circuits, control circuits, and the use of circuits to control mechanical processes, electrical wiring techniques, and system installation. Pre/Corequisite(s): ENT 1000 or ENT 1050 or AGR 1100. Lab and other fee: $80.00.

2022 INT1300 LP01C HP502 TBA TBA 20/20 Hatem
2023 INT1300 SP01C SL23 TBA TBA 17/20 Hatem

**INT 1350 Motor and Motor Controls (3)**
Direct and alternating current motors including their performance characteristics and application. Motor control concepts and selection of motors for specific applications. Speed, torque, and power and their effects on motor performance. Industrial mechanical power transmission devices. Prerequisite(s): INT 1300. Lab and other fee: $80.00.

3071 INT1350 LP01C HP502 TBA TBA 20/20 Hatem
3074 INT1350 SP01C SL28 TBA TBA 19/20 Hatem
6993 INT1350 SP01X SL28 TBA TBA 0/1 Hatem 1/13-5/8

**INT 1400 Mechanical Maintenance (3)**
Troubleshooting and maintenance of mechanical power transmission equipment. Lubrication, bearings, couplings, flexible drives, valves, centrifugal pumps, gearing, gear reducers, V-belts, brakes, and clutch assemblies. Prerequisite(s): ENT 1000. Pre/Corequisite(s): ENT 1050. Lab and other fee: $75.00.

2025 INT1400 LP01C HP502 TBA TBA 20/20 Hatem
2026 INT1400 SP01C SL28 TBA TBA 17/20 Hatem

**INT 2200 Hydraulic and Pneumatic Troubleshooting (3)**
Location, identification, and correction of various inserted faults in industrial quality electro-hydraulic and electro-pneumatic systems. Prerequisite(s): INT 1201. Lab and other fee: $80.00.

2027 INT2200 SP01C SL28 TBA TBA 20/20 Hatem

**INT 2300 Electrical Troubleshooting (3)**
Maintenance and troubleshooting of motors, solenoids, electrical controls, electrical circuitry, and sensors using common testing equipment. Diagnose problems at the component, machine, and inter-machine levels. Introduction and operation of the Computer Integrated Manufacturing System (CIMS). Prerequisite(s): INT 1350. Lab and other fee: $75.00.

2028 INT2300 LP01C HP502 TBA TBA 20/20 Hatem
2029 INT2300 SP01C SL28 TBA TBA 20/20 Hatem

**INT 2325 Alternating Current/ Direct Current (AC/DC) Servos (3)**
Examine Alternating Current (AC) and Direct Current (DC) servomotor drives including silicon controlled rectifiers, spindle drives, modulation drives, and vector drives. Troubleshoot AC and DC motors. Prerequisite(s): INT 1350. Lab and other fee: $25.00.

2030 INT2325 SP01C SL28 TBA TBA 19/20 Hatem

**INT 2350 Electrical Distribution (3)**
Transformers, AC power distribution, power factor correction, voltage regulation, and DC power supplies. Circuit protection using circuit breakers, fuses, and ground fault interrupters. Prerequisite(s): INT 1350. Lab and other fee: $40.00.

2031 INT2350 LP01C HP502 TBA TBA 20/20 Hatem

**INT 2400 Industrial Machine Maintenance (3)**
Skills to troubleshoot machines and system levels. Manufacturer's documentation and maintenance logs. Introduction to planned and predictive maintenance. Troubleshooting charts and efficient sequence for failure analysis. Operation of the CSCC CIM System. Prerequisite(s): INT 1350 and INT 1400. Lab and other fee: $75.00.

2032 INT2400 LP01C HP502 TBA TBA 20/20 Hatem
2033 INT2400 SP01C SL28 TBA TBA 20/20 Hatem

**INT 2500 Programmable Logic Control (3)**
Programmable Logic Controllers (PLCs). Programming, connecting, and testing PLCs for control of industrial/commercial processes. Interfacing with sensors, using PLCs in a variety of process applications. Prerequisite(s): INT 1300. Lab and other fee: $40.00.

2034 INT2500 LP01C HP502 TBA TBA 20/20 Hatem
2035 INT2500 SP01C SL28 TBA TBA 15/20 Hatem

**INT 2510 Process Control (3)**
Principles utilized in process control systems. Systems control of liquid variables such as flow rate, pressure, temperature, liquid level, density, and pH. Calibrate, adjust, install, operate, and connect process control systems in industrial applications. Prerequisite(s): INT 2500. Lab and other fee: $30.00.

2036 INT2510 LP01C HP502 TBA TBA 20/20 Hatem
2037 INT2510 SP01C SL28 TBA TBA 19/20 Hatem

**INT 2520 Supervisory Control and Data Acquisition (SCADA) (3)**
Monitor and control process applications using sensors networked to equipment on the plant floor. Introduction to process visualization, universal digital controller (UDC) configuration, process visualization system operation, application editing, project screens, input and output objects, two-state output objects, symbolic input/output field output objects, and alarms. Prerequisite(s): INT 2510. Lab and other fee: $30.00.

2038 INT2520 SP01C SL28 TBA TBA 20/20 Hatem

**INT 2800 Industrial Technology Projects (3)**
Capstone class to apply skills to design, fabricate, install, document, and debug an assigned project of a scale and type normally done in-house by local plants' engineering and maintenance personnel. Prerequisite(s): INT 2300. Pre/Corequisite(s): ENG 2211 or ENG 1112. Lab and other fee: $40.00.

2039 INT2800 LP01C HP502 TBA TBA 20/20 Hatem
2040 INT2800 SP01C SL28 TBA TBA 19/20 Hatem
(ITS) Information Technology Systems

ITS 1105 Computer Concepts and Software Applications (3)
Overview of basic computer concepts, basic word processing, spreadsheets, databases, and presentation graphics using Microsoft Office. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ITS 0800 and ITS 0810.

ITS 1205 Computer Concepts and Software Applications (3)
Overview of basic computer concepts, basic word processing, spreadsheets, databases, and presentation graphics using Microsoft Office. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ITS 0800 and ITS 0810.

ITS 1205 Windows Concepts (1)
Familiarization with the mouse and a Graphical User Interface (GUI) operating environment. Major aspects of Microsoft Windows 10 and usage of WordPad and NotePad. Knowledge of a personal computer keyboard strongly recommended. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ITS 0800 and ITS 0810.

ITS 1225 Beginning Spreadsheet (1)
Creation and manipulation of data within an electronic spreadsheet including planning and creating workbooks, using formulas and functions, creating charts, and formatting spreadsheet objects using Microsoft Excel. Students with minimal computer skills will take longer in completing the assigned tasks. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ITS 0800 and ITS 0810.

ITS 1245 Beginning Database (1)
Database manipulation: creating, updating, and generating reports using Microsoft packaged Access 2016. Keyboarding skills strongly recommended. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ITS 0800 and ITS 0810.

ITS 1300 Introduction to Computers and Networks (2)
Computer and internet basics. Overview of computer hardware, software, and networks. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher and ENG 900 with a grade of C or higher. Pre/Corequisite(s): ENG 1111.

ITS 1500 HTML and CSS (3)
Use HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets) to develop websites without the aid of web page composition software. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Lab and other fee: $20.00.

(JCR) Judicial Court Reporting

JCR 1001 Realtime Theory I (3)
Writing, reading, and translating the written and spoken word by means of a National Court Reporters Association (NCRA) approved, conflict-free realtime theory. Emphasis on mastery of beginning machine shorthand principles, speed development of 40 words per minute (wpm) on dictation of familiar material, and rapid and accurate reading of steno notes. Introduction to realtime career opportunities, professional organizations, ethics of the realtime profession, the National Court Reporters Association (NCRA) code of Professional Ethics, certifications, and life-long learning. Prerequisite(s): ENG 0800 with a grade of C or higher. Instructor permission required. Lab and other fee: $80.00.

JCR 1003 Realtime Theory Applications (3)
Application of realtime theory foundation. Emphasis on mastery of brief forms, phrases, basic realtime editing functions, speed development of 60 words per minute (wpm) on dictation of unfamiliar material, and rapid and accurate reading of steno notes. Prerequisite(s): JCR 1002 or RCR 1201 or (IRT 121 and IRT 122). Instructor permission required. Lab and other fee: $100.00.

JCR 1101 Skill Building I (3)
Development of writing skills, readback and analysis of shorthand notes, proofreading skills, and quality practice habits. Dictation in literary, jury charge, and testimony material for development of skill and accuracy in speeds ranging from 50-100 words per minute (wpm). Monitored realtime transcription of speed dictation tests in each of the areas of dictation completed within 70 minutes immediately following recorded dictated. Student analysis of vocabulary, grammar, spelling, and punctuation. Use of online, computer-aided transcription technology with teacher interaction. Designed for competency-based modular instruction. Prerequisite(s): JCR 1003, RCR 1201, or (IRT 121 and IRT 122). Instructor permission required. Lab and other fee: $100.00.

(LPNS) Practical Nursing

LPN 1101 Nursing Fundamentals (9)
**LPN 1201 Disease Process and Diet Therapy (4)**
Basic principles of microbiology, signs and symptoms of common disease/disorders of body systems, diagnostic tests, treatment, and principles of nursing care, and dietary treatment. Prerequisite(s): BIO 1105 and ENG 1111 and MST 1105. Instructor permission required. Lab and other fee: $180.00.

**LPN 1301 Pharmacology (3)**
Systems of measurement and calculation of drug dosage. Principles of pharmacology. Action, prototype drugs, therapeutic implications, side/adverse effects, and associated nursing implication of major drug classes and IV antibiotic administration. Ohio Board of Nursing laws and rules related to LPN practice and IV therapy. Prerequisite(s): BIO 1105, ENG 1111, MST 1105, and MTH 0650 with a grade of C or higher. Pre/Corequisite(s): LPN 1201. Instructor permission required. Lab and other fee: $180.00.

**LPN 1401 Nursing Care of Adults (9)**
Application of skill competencies from LPN 1101. Intravenous (IV) therapy for the practical nurse. Care of clients with medical and surgical conditions in skilled and hospital settings. Preceptor experience and leadership/management skills. Comprehensive review for National Council Licensure Examination (NCLEX) preparation, Prerequisite(s): LPN 1101 and LPN 1201 and LPN 1301 and PSY 1111. Pre/Corequisite(s): PSY 2223 and LPN 1501. Lab and other fee: $387.00. Student Liability fee: $20.00.

**LPN 1501 Nursing Care of Women, Infants & Children (5)**
Holistic approach to women’s healthcare and its relationship to the childbearing female. Female anatomy and physiology, male reproductive system, fetal growth and development, normal changes of pregnancy, labor and delivery, postpartum care, the newborn with emphasis on preventing complications. Impact of childbirth and newborn on family unit and current trends in women’s health. Family-centered approach to meeting needs of pediatric clients. Application of the nursing process and role of the nurse in the care of the infant/child/adolescent with common diseases, illnesses, and conditions. Prerequisite(s): PSY 1111 and LPN 1101 and LPN 1301 and LPN 1201. Pre/Corequisite(s): PSY 2223. Lab and other fee: $416.00.

**LSC Logistics and Supply Chain Management**
LSC 2270 Operations Management (3)
Design and management of the models and methods used in operations management including forecasting, system design, quality, supply chain management, project management, and inventory management and scheduling. Prerequisite(s): MGT 1120 and MTH 1060.

**MAS Medical Assisting**
MAS 1105 Medical Administrative Office II (3)
Financial aspects of the office, ICD-10 and CPT coding, managed care, medical insurance, reimbursement procedures, and managing patient accounts. Professional etiquette and job search skills. Instructor permission required. Lab and other fee: $40.00.

**MAS 1106 Exam Room Procedures II (3)**
Medication administration and medical office emergencies. Review ECG skills. Specialties of pediatrics, obstetrics and gynecology, otolarnygology, ophthalmology, orthopedics, cardiology, pulmonary medicine, urology, gastroenterology, and dermatology. Prerequisite(s): Acceptance to the Medical Assisting Program. Pre/Corequisite(s): MAS 1112. Instructor permission required. Lab and other fee: $75.00.

**MAS 1112 Pharmacology for the Medical Office (3)**
Principles of pharmacology for the medical assistant: sources of drugs, drug classifications, actions, prototype drugs, therapeutic implications, side/adverse effects, and associated nursing implication of major drug classes and IV antibiotic administration. Ohio Board of Nursing laws and rules related to LPN practice and IV therapy. Prerequisite(s): Acceptance to the Medical Assisting Program. and MTH 0500 with a grade of C or higher. Pre/Corequisite(s): MST 1160 and MST 1161. Instructor permission required. Lab and other fee: $125.00.

**MAS 1115 Laboratory Procedures for the Medical Office (2)**
Diagnostic physician office laboratory procedures: collection and processing of specimens, laboratory safety, microbiology, urinalysis, hematology, serology, and blood chemistry. Prerequisite(s): Acceptance to Medical Assisting Program. and PSY 1111. Pre/Corequisite(s): PSY 2223. Instructor permission required. Lab and other fee: $75.00.

**MAS 1117 Medical Assisting Directed Practice (2)**
Integration of content and competencies covered in the Medical Assistant certificate program. Two hundred (200) unpaid, supervised clinical hours. Prerequisite(s): MGT 1120 and MGT 1160 and MST 1105 and MST 1106 and MAS 1105 and MAS 1106 and MAS 1112 and MAS 1115. Pre/Corequisite(s): PSY 1111. Corequisite(s): MAS 1118. Instructor permission required. Student Liability fee: $20.00.

**MAS 1118 Clinical Perspectives Seminar (1)**
Forum for shared learning and problem solving of directed practice experiences. Prerequisite(s): MGT 1121 and MGT 1160 and MGT 1161 and MAS 1105 and MAS 1106 and MAS 1112 and MAS 1115. Pre/Corequisite(s): PSY 1111. Corequisite(s): MAS 1117. Instructor permission required. Certification fee: $125.00.
MGT 2000 Introduction to Project Management (3)
Business, interpersonal, and technical skills required to successfully manage business and system development projects. Project integration. Scope, time, cost, quality, human resource, communications, risk, and procurement management. Microsoft Project software. Use of Windows PC is required. Prerequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher and ITS 0800.

MGT 2020 Quality Management (3)
Customer satisfaction and quality management through employee involvement. Continuous process improvement, performance measures, Statistical Process Control (SPC), ISO9000, benchmarking, and the use of various management tools used for managing quality. Prerequisite(s): MGT 1060 or MGT 1105 or MGT 1120.

MGT 2270 Business Finance (3)
Theory, methods, and concerns of corporate finance, elements of financial planning, capital management techniques, valuation, cost of capital, capital budgeting, ratio analysis, leverage, and diversification through mergers. Prerequisite(s): ACC 1100.

MGT 2450 Data Analytics (3)
Financial decision-making in personal budgeting, credit, insurance, medical care, investment, home ownership, retirement planning, and income taxes. Prerequisite(s): [MTH 0650 with a C or higher, or MTH 1060, or MTH 1200] and [AGR 1100 or ITS 1105 or (ITS 1235 and ITS 1245)].

MGT 2650 Negotiation Skills (3)
Psychology and techniques of conducting purchasing and other types of business negotiations; mock negotiations using case studies. Principles apply to situations in personal life. Prerequisite(s): MGT 1060 or MGT 1105 or MGT 1120.

MGT 2800 Business Strategy/Policy Seminar (Capstone) (3)
Development of business strategy and policy and the integration of skills learned in prior management study, including strategy formulation, implementation, and evaluation. Coordination of management, economics, marketing, operations management, financial accounting, legal environment and ethics, and social responsibility to achieve competitive advantage. Students must have a minimum of 45 semester credit hours. Prerequisite(s): MGT 1120 and MGT 2000 and Students must have a minimum of 45 semester credit hours.

MGT 1110 Customer Relations (2)
Philosophy, purpose, techniques, and principles of management and customer service and relations. Communication skills. Customer-related complaints and customer-relations technologies. Problem-solving skills. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

MGT 1115 Principles of Management (3)
This course examines theories and applications of management and organizational behavior with an emphasis on the interaction among individuals, teams, and organizations that impact performance. This course prepares students to succeed in dynamic, diverse organizational environments. Pre/Corequisite(s): ENG 1111.

MGT 1060 Organizational Behavior (3)
Theories, concepts, and applications of organizational behavior as it relates to individuals, groups, and organizations in today's global business environment. Conceptual frameworks, case discussions, and skill-oriented activities. Personality, assessment of self, motivation, stress, job success, ethics, conflict resolution, managing change, group behavior, team problem solving and decision making, interpersonal and organizational communication. Pre/Corequisite(s): ENG 1111.

MGT 2000 Medical Assisting Certification Review (2)
Preparation for the American Association of Medical Assistants (AAMA) national certification examination. Pre/Corequisite(s): MAS 1105, MAS 1106, MAS 1112, and MAS 1115 or Instructor Permission.

MGT 1100 Personal Finance (3)
Financial decision-making in personal budgeting, credit, insurance, medical care, investment, home ownership, retirement planning, and income taxes.

MGT 1105 Contemporary American Business (2)
Current concepts of American business encompassing social and ethical responsibilities, global markets, government regulation, and taxation. Forms of business, administration, management, organized labor, and other basic business concepts. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.
(MKT) Marketing
MKT 2000 Marketing Management (3)
Management of the marketing functions in various business contexts. Marketing activities, analysis, strategies, and decision making in the context of other business functions. Integration of product, price, promotion, and distribution activities; research and analysis of markets, environments, competition, and customers; market segmentation and selection of target markets, and emphasis on behavior and perspectives of consumers and organizational customers. Planning and decision making for products and services in profit and nonprofit, domestic, and global settings. Pre/Corequisite(s): ECO 2220 or ECO 2210 or instructor permission.

2163  MKT2000  EE01C  (Online Section)  4/26  Campbell
2164  MKT2000  EE02C  (Online Section)  1/25  Monick
2166  MKT2000  STM1C  L137  MW  9:30-10:45  11/25  Campbell

MKT 2450 Sales and Sales Management (3)
Role of selling in our economy. Psychology of selling, sales process, motivation of the salesperson. Fundamentals and techniques of selling in relation to various types of goods and services. Prerequisite(s): MKT 2000 or MGT 1120 or Pre/co-req: AGR 2700.

2169  MKT2450  Sh01C  S115  T  9:30-11:15pm  18/25  Rickard

(MLT) Medical Laboratory Technology
MLT 1140 Medical Microbiology I (2)
Identification of bacteria by microscope, media, inoculation, biochemical activities, and sensitivity testing. Basic disease processes. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): MLT 1120 and MLT 1125 and MLT 1160 and MLT 1165. Corequisite(s): MLT 1145 and MLT 1130 and MLT 1135. Instructor permission required.

2175  MLT1140  EE01A  (Online Section)  13/24  McLellan

MLT 1145 Medical Microbiology I Lab (2)
Basic microbiology concepts. Identification of bacteria by microscope, media, inoculation, biochemical activities, and sensitivity testing. Prerequisite(s): MLT 1120 and MLT 1125 and MLT 1160 and MLT 1165. Corequisite(s): MLT 1140 and MLT 1130 and MLT 1135. Instructor permission required. Lab and other fee: $105.00.

2176  MLT1145  Sh01A  TBA  TBA  1/12  Bancroft

MLT 2130 Medical Microbiology II (2)
Identification of microbial agents associated with disease in man including bacteria, viruses, and parasites. Specimen collection. Quality control. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): BIO 1105 and MLT 1120 and MLT 1125 and MLT 1160 and MLT 1165 and MLT 1140 and MLT 1145. Corequisite(s): MLT 2135. Instructor permission required.

2178  MLT2130  EE01B  (Online Section)  11/24  Jones

MLT 2135 Medical Microbiology II Lab (2)
Techniques to isolate, identify, and evaluate the presence of clinically significant microorganisms. Prerequisite(s): BIO 1105 and MLT 1120 and MLT 1125 and MLT 1140 and MLT 1160 and MLT 1165. Corequisite(s): MLT 2130 and MLT 1130 and MLT 1135. Instructor permission required. Lab and other fee: $150.00.

2179  MLT2135  Sh01B  TBA  TBA  TBA  2/15  Dowler

MLT 2156 Directed Practice /Seminar (5)
Four hundred (400) hours at assigned clinical site; departmental rotation; application of principles and techniques under supervision of clinical staff and college faculty. Includes directed reflection on the clinical experience. Prerequisite(s): All prior MLT coursework with a grade of C or better. Instructor permission required. Student Liability fee: $20.00.

2181  MLT2156  Sh01C  TBA  TBA  TBA  12/24  Bancroft

MLT 2160 MLT Review and Update (2)
Review and update of urinalysis, hematology, clinical chemistry, medical microbiology, immunology, immunohematology. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): All prior MLT coursework with a grade of C or better. Instructor permission required.

2182  MLT2160  EE01C  (Online Section)  14/24  Bancroft

(MST) Multi-Skilled Health Care
MST 1101 Introduction to Health Care (3)
History of health care delivery systems, current systems, services, trends and challenges, health care careers, and ethical and legal responsibilities. Foundational concepts of patient care including human growth and development, basic human needs, patient rights and responsibilities, provider and patient safety, communication skills, and computer literacy. Professionalism and securing and maintaining employment. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Co-requisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ENG 0900 with a grade of C or higher.

2183  MST1101  EE01C  (Online Section)  6/25  Stough
2184  MST1101  EE02C  (Online Section)  3/25  Stough
2186  MST1101  ST01C  A208  T  5:30-8:20pm  15/26  Chase
MST 1105 Medical Terminology (2)
Language of medicine. Medical prefixes, suffixes, root words, singular/plural forms constructed to form medical terminology. Definition, spelling, and pronunciation of terms related to organization of the body, body systems, pathology, diagnostic and treatment procedures, pharmacology and medical specialties. Standard medical abbreviations. TAG OHL020 approved course. Prerequisite(s): ENG 0800 with a grade of C or higher. Successful completion meets the requirements to apply for the Ohio Nurse Aide State Test. Corequisite(s): Criminal background check. Lab and other fee: $25.00. Student Liability fee: $20.00.

MST 1140 Human Disease (3)
Basic concepts of pathophysiology. Pathophysiological processes, clinical manifestations, and diagnostic and therapeutic management of common disorders and diseases of major body systems. Prerequisite(s): MST 1105 and BIO 1105 or BIO 2122.

MST 1160 Phlebotomy (2)
Comprehensive background in the theory and principles of phlebotomy. Quality assurance and total quality management. Prerequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher. Corequisite(s): MST 1161.

MST 1161 Phlebotomy Lab (1)
Application of principles of phlebotomy. Performance of phlebotomy procedures. Prerequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher. Corequisite(s): MST 1160. Lab and other fee: $50.00.

MST 1171 Introduction to Electrocardiography (2)
Principles of electrocardiography (ECG) including basic cardiac anatomy and physiology, basic ECG interpretation, and identification of common abnormal tracings. Recording of rhythm strips and multi-lead ECGs. Equipment operation and troubleshooting. Pre/Corequisite(s): BIO 1105 or BIO 2122 and MST 1105. Lab and other fee: $20.00.

MST 1181 Nurse Aide Training (4)
Introduction to basic patient/resident care. Classroom, skills lab practice, and clinical experiences. Successful completion meets the requirements to apply for the Ohio Nurse Aide State Test. Prerequisite(s): ENG 0800 with a grade of C or higher. Corequisite(s): Criminal background check. Lab and other fee: $25.00. Student Liability fee: $20.00.

MTH 0500 Pre-Algebra (4)
Topics include whole numbers; mixed numbers; fractions; decimals; percentages; ratios and proportions; operations with the metric system; operations with integers; solving linear equations; solving literal equations; and solving linear inequalities. Institutional credit only. Pre/Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.
MTH 0550 Foundation of Statistics (2)
Topics include operations with signed numbers; evaluating algebraic expressions; exponents and square roots; basic statistical calculations; converting between fractions, decimals, and percents; solving linear equations; summation notation; Venn diagrams; intervals and set notation; rectangular coordinate system; and graphing linear equations. Institutional credit only. Prerequisite(s): MTH 0500 or Academic Placement Test. Pre/Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.

MTH 0650 Algebra for Non-STEM Majors (4)
Topics include solving various application/word problems involving linear equations; operations with polynomials; positive, negative, and fractional exponents; scientific notation; operations with radicals; solving quadratic equations using the quadratic formula; graphing linear equations; solving linear systems in two variables; and an introduction to functions and graphing. Institutional credit only. Prerequisite(s): MTH 0500 or Academic Placement Test. Pre/Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.

MTH 0750 Algebra for STEM Majors (5)
Topics include solving various types of word problems; operations on polynomials including factoring; operations on rational expressions; solving equations containing rational expressions; graphs of points and lines; linear systems with two variables; positive, negative, and fractional exponents; scientific notation; operations with radicals; solving quadratic equations; and an introduction to functions and graphing. Institutional credit only. Prerequisite(s): MTH 0500 or Academic Placement Test. Pre/Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.
MTH 1340 Pre-Calculus (5)
Transformation and composition of functions, inverse functions, polynomial and rational functions, synthetic and long division, remainder and factor theorem, exponential and logarithmic functions, systems of equations and inequalities, analytic geometry, matrices and determinants. Gaussian-Jordan, sequences and series, trigonometric functions, solving triangles, laws of sines and cosines, unit circles, vectors, graphs of trigonometric functions, polar coordinates, trigonometric identities, and trigonometric equations. Prerequisite(s): MTH 1280 with a grade of C or higher.

MTH 2100 Calculus for the Management, Life and Social Sciences (5)
Functions; limits; derivatives of polynomial, exponential, and logarithmic functions; integrals of polynomial, exponential, and logarithmic functions; maxima and minima; applications appropriate to biology, medicine, business, economics, social, and behavioral sciences. Prerequisite(s): MTH 1280 with a grade of C or higher.

MTH 2200 Calculus I (5)
Limits, continuity, derivatives, rules of differentiation, differentiation of the trigonometric, inverse trigonometric, logarithmic, and exponential functions, related rates, linear approximations and differentials, extrema, curve sketching. Mean Value Theorem, optimization problems. L'Hopital's rule, Newton’s method. Fundamental Theorem of Calculus, definite and indefinite integrals, integration by substitution. Prerequisite(s): MTH 1340 with a grade of C or higher.

MTH 2220 Calculus II (5)
Riemann sums, integrals, techniques of integration, applications of integration, area, volumes of revolution, integrating various functions (polynomial, trigonometric, exponential, and logarithmic), polar coordinates, power series, Taylor series, power series, Maclaurin series, vectors, dot product, cross product, equations of lines and planes, polar curves, polar coordinates. Prerequisite(s): MTH 2200 with a grade of C or higher.

MTH 3000 Math for Manufacturing Technology (4)
Integration and application of statistics, statistical analysis, geometry, trigonometry, and algebra. Applications in business, manufacturing, and engineering. Use of an integrated teaching model (I-Best) with manufacturing and business management faculty. Prerequisite(s): MTH 1340. Lab and other fee: $50.00.

(MUS) Music
MUS 1130 Music Appreciation (3)
A survey of Western and non Western (secular and sacred) music from approximately 450 AD to the present; a chronological presentation of material supplemented with basic elements of music, listening examples, and live performances. Prerequisite(s): ENG 0800 with a grade of C or higher.

(NTK) Networking
NTK 1110 PC Hardware Essentials (3)
Installing, configuring, upgrading, and troubleshooting microcomputer hardware. Desktop, notebook, server systems, and basic networking. First of two-course sequence covering A+ certification objectives. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher, and ITS 0800. Lab and other fee: $75.00.

NTK 1120 PC Operating Systems Essentials (3)
Intensive introduction to multitasking operating systems and network operating systems. Operating system upgrades/configuration, installation procedures, security issues, backup procedures, remote access, command line, and graphical user interfaces. Second of a two-course sequence covering the A+ certification objectives. Pre/Corequisite(s): NTK 1110. Lab and other fee: $75.00.
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Overview of local area networking (LAN) concepts and theory. Discussion of LAN redundancy and aggregation, wireless technologies and advanced routing protocols. Hands-on experience with switch and router setup, configuration, and monitoring. Part of a set of courses covering material for the CCNA certification exam. Prerequisite(s): NTK 2110. Lab and other fee: $75.00.

Overview of ethics in the information technology field. Assessment of skills and competencies of network administration through project-based activities. Requires an oral and written presentation. Should be taken in final term prior to graduation. Prerequisite(s): CSE 1120 and MGT 2000 and ENG 1111 and ENG 2211 and NTK 2100. Lab and other fee: $75.00.

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Hands-on experience with convergence equipment and software. Planning, installing, configuring, managing, optimizing, and troubleshooting voice, video, and data infrastructures. Configuring wireless technologies and security. Prerequisite(s): NTK 176 or NTK 1110. Lab and other fee: $75.00.

Hands-on experience with convergence equipment and software. Planning, installing, configuring, managing, optimizing, and troubleshooting voice, video, and data infrastructures. Configuring wireless technologies and security. Prerequisite(s): NTK 176 or NTK 1110. Lab and other fee: $75.00.

Hands-on experience with convergence equipment and software. Planning, installing, configuring, managing, optimizing, and troubleshooting voice, video, and data infrastructures. Configuring wireless technologies and security. Prerequisite(s): NTK 176 or NTK 1110. Lab and other fee: $75.00.

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NUR 1134 Behavioral Health Nursing (2.5)
Introduces concepts of behavioral health and psychosocial assessment across the lifespan in a variety of settings. Applies concepts of ethics and safety in the care of patients experiencing commonly occurring psychiatric, emotional, and developmental disorders, substance abuse, family violence, difficult life transitions, and challenging behaviors. Incorporates the principles of evidence-based care, advocacy, caring, and learning to promote behavioral health within the context of the environment. Prerequisite(s): ENG 1111 and PSY 1111 and BIO 2121. Pre/Corequisite(s): BIO 2122. Lab and other fee: $153.00.

NUR 1135 LPN to RN Transition (3)
Assists in the transition of the LPN to the role of RN. Refines and updates previous learning of basic nursing concepts, psychomotor skills, assessment techniques, and study skills. Applies principles of ethics, safety, and nursing process in the care of adults. Incorporates the principles of evidence-based care, advocacy, caring, and learning to promote and maintain health. Follows the Ohio Nursing Articulation Model. Prerequisite(s): BIO 2122 and ENG 1111. Pre/Corequisite(s): NUR 1136 and NUR 1110. Instructor permission required. Lab and other fee: $294.00. Student Liability fee: $20.00.
### NUR 1136 Adult Nursing for LPNs (2)
Applies principles of ethics, safety, and nursing process in the care of adults with mobility, fluid and electrolyte, acid/base balance, respiratory, endocrine, and renal disorders; hypertension; and congestive heart failure. Incorporates the principles of evidence-based care, advocacy, caring, and learning to promote health in adults within the context of environment. Prerequisite(s): BIO 2122 and ENG 1111. Pre/Corequisite(s): NUR 1135. Instructor permission required. Lab and other fee: $213.00.

### NUR 2232 Children-Family Nursing (2.5)
Applies principles of ethics, safety, and nursing process in the care of children and families experiencing common childhood and developmental disorders. Incorporates the principles of evidence-based care, advocacy, caring, and learning to promote and maintain health within the context of family. Prerequisite(s): BIO 2122 and PSY 2223 and ENG 1112 and NUR 1132 or NUR 1138, or NUR 1135 and NUR 1136, NUR 2236. Pre/Corequisite(s): BIO 1131. Lab and other fee: $120.00.

### NUR 2234 Maternal-Newborn Nursing (2.5)
Applies principles of ethics, safety, and nursing process in the context of female reproduction and newborn health. Emphasis on physiological changes of pregnancy, prevention of complications, conditions of the high-risk newborn, and common gynecological disorders. Incorporates the principles of evidence-based care, advocacy, caring, and learning using a family-centered approach. Prerequisite(s): ENG 1112 and PSY 2223 and BIO 2122 and NUR 1132 or NUR 1138 or NUR 1135 and NUR 1136. Pre/Corequisite(s): BIO 1131. Lab and other fee: $150.00.
Applies the nursing process utilizing evidence-based, patient-centered nursing care of adult patients with cardiovascular, neurological, gastrointestinal, immunological, and hematological disorders. Demonstrates appropriate nursing judgment skills in the clinical setting, providing safe, quality care. Utilizes technology to communicate and function effectively within the interprofessional team. Prerequisite(s): BIO 2122 and ENG 1112 and PSY 2223 and NUR 1132 or NUR 1138 or NUR 1135 and NUR 1136. Pre/Corequisite(s): BIO 1131. Lab and other fee: $174.00. Student Liability fee: $20.00.

Applies the nursing process utilizing evidence-based, patient-centered nursing care of adult patients with complex cardiovascular, respiratory, neurological, multi-system, oncological disorders, and burns. Professional leadership and management utilizing teamwork and collaboration, integrating quality improvement methodologies to improve safety in the delivery of nursing care. Utilizes appropriate nursing judgments in the clinical setting; identifies appropriate care for communities during emergency, disaster, and bio-terrorism events. Emphasis on current National Council Licensure Exam (NCLEX) test plan. Prerequisite(s): NUR 2236 and NUR 2234 and NUR 1134 and BIO 1131. Pre/Corequisite(s): NUR 2232. Lab and other fee: $606.00.

(Aesthetic online design and layout including design elements and principles, color theory, and typography. User experience design and usability testing. Prerequisite(s): ENG 0800 with a grade of C or higher and ENG 0900 with a grade of C or higher. Lab and other fee: $55.00.)
## NWM 1010 Social Media and Digital Interactivity (3)
Social media vocabulary. Social media as a marketing and promotional tool. Online tools that encourage interactivity. "Viral" phenomenon and online advertising. Prerequisite(s): ENG 0800 with a grade of C or higher and ENG 0900 with a grade of C or higher. Lab and other fee: $55.00.

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## NWM 1020 Adobe for Web Professionals (3)
Use Adobe products to enhance web designs and online media. Create eBook. Software: Adobe Illustrator, Adobe Photoshop, and Adobe InDesign. Prerequisite(s): GPH 1000 or GPH 1001. Lab and other fee: $60.00.

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## NWM 1610 Web Design (3)
Web design and publishing, introduction to responsive design, and use content management system. Prerequisite(s): ITS 1500. Lab and other fee: $60.00.

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## NWM 2010 Digital Multimedia II (3)

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## NWM 2400 Advanced Web Design (3)
Open source content management systems, websites with advanced functionality, including e-commerce and search engine optimization techniques. Prerequisite(s): NWM 1005 and CSD 1600 or CSD 2200 and NWM 1600 or NWM 1610. Lab and other fee: $60.00.

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## (OAD) Office Administration

### OAD 1101 Document Production I (3)
Production of common business correspondence, simple reports, and basic tables, using Microsoft Word 2016 software; emphasis on accuracy. Minimum typing speed of 35 gwpm required. Pre/Corequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

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### OAD 1102 Document Production II (3)
Production of complex business correspondence, reports and tables, using Microsoft Word 2016 software. Introduction to desktop publishing; emphasis on speed and accuracy. Minimum typing speed of 40 words per minute expected. Prerequisite(s): OAD 1101.

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### OAD 1105 Business English (4)
Parts of speech; sentence elements, varieties, patterns, types, and faults; nouns; possessive nouns; personal pronouns; pronouns and antecedents; verb kinds, voices, and moods; verb tenses and parts; subject-verb agreement; adjective and adverb modifiers; prepositions; conjunctions; commas; semicolons and colons; capitalization; number style; and proofreading. Pre/Corequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

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### OAD 2205 Electronic Health Records (3)
Development of techniques for acquiring advanced skills in the use of medical office management software. Encompasses the entire reimbursement process and applies it to practice-management software starting with appointment scheduling and moving through patient registration, procedure posting, medical billing with paper claims and electronically, payment posting, secondary insurance billing, patient billing, patient collections, and insurance tracking and follow-up. Pre/Corequisite(s): MST 1105.

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### OAD 2301 CPT/ICD-10-PCS Coding (3)
Introduction to CPT codes for insurance billing and reimbursement. Use of coding manuals plus the most recent coding classifications and guidelines. Coding steps explained. Procedural classification system. This course is offered in a hybrid format that is required to meet every week. Pre/Corequisite(s): BIO 1105 and MST 1105.

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### OAD 2302 ICD-10-CM Coding (3)
Introduction to ICD-10-CM codes for insurance billing and reimbursement. Coding manuals, recent code updates and guidelines. Coding steps. Diagnostic classification system. This course is offered in a hybrid format that is required to meet every week. Pre/Corequisite(s): BIO 1105 and MST 1105.

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### OAD 2312 Advanced Medical Coding (3)
Coding experience using ICD-10-CM, CPT/ICD-10-PCS and HCPCS numeric representation. Specialized areas of coding. Certification related to specialty areas. Policies, forms, technology, and processes associated with medical billing protocol. Medicare information. Reimbursement. This course is offered in a hybrid format that is required to meet for the first two weeks and then every other week thereafter. Prerequisite(s): OAD 2301 and OAD 2302.

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OAD 2703 Co-op Education/Internship (3)
Relating academic studies to the workplace through a supervised work placement that provides hands-on experience in a professional office or medical office. Applying principles and theories learned in the classroom, establishing learning outcomes, and preparing related reports. Attending weekly seminars that allow opportunity for discussion of work-related experiences and relevant topics. Workplace learning equal to fifteen (15) hours per week for a fifteen (15) week term as well as a minimum of 225 documented hours. Prerequisite(s): EBE 1000 and co-op placement. Instructor permission required.
2467 OAD2703 ST01C TLC103 T 3:30-4:45 14/20 Rude

(PHY) Physics
PHY 1100 Fundamentals of Physics (4)
Concepts and applications of physics for non-science majors to include: one and two dimensional motion, forces, work and conservation of energy, properties of matter, heat and thermodynamics, waves and sound, electricity, electromagnetism (EM) and EM waves, optics, modern physics. Collection, analysis, and reporting of data; problem-solving concepts, and methods of physics. Prerequisite(s): ENG 0900 with a grade of C or higher, and MTH 0650 or MTH 0750 with a grade of C or higher. Lab and other fee: $48.00.
2477 PHY1100 GT01C G129 T 9:00-11:20 3/16 Strecker
LEC G129 TH 9:00-9:30
LAB G129 TH 9:30-11:20
2478 PHY1100 ST01C R312 M 1:00-3:20 6/20 Steele
LEC R312 W 1:00-1:30
LAB R312 W 1:30-3:20
6986 PHY1100 ST02C T 1:00-3:20 10/20 Strecker
LEC R312 TH 1:00-1:30
LAB R312 TH 1:30-3:20

PHY 1501 General Physics I with Algebra (5)
College algebra based physics to include: kinematics in one and two dimensions; vector arithmetic; force and Newton's Laws of Motion and Gravitation; work, energy, and conservation of energy; linear momentum and collisions; rotational kinematics and dynamics, including angular momentum and rotational energy; simple harmonic motion; waves and sound; fluids and elasticity; heat and thermodynamics; kinetic theory of gases; collection, analysis and reporting of data; problem-solving using college algebra concepts and methods. Prerequisite(s): ENG 1111. Pre/Corequisite(s): ENG 1111 and MTH 1340. Lab and other fee: $55.00.
3255 PHY1501 ST01C R312 T 5:30-8:20pm 16/20 Gnawali
LEC R312 TH 5:30-6:30pm
LAB R312 TH 6:30-8:20pm

PHY 1502 General Physics II with Algebra (5)
College algebra based physics to include: electricity, magnetism, electromagnetism, geometric, and wave optics; relativity, quantum physics, atomic physics, nuclear physics, collection, analysis, and reporting of data; problem-solving using algebra concepts and methods. Prerequisite(s): MTH 1280 and PHY 1501. Pre/Corequisite(s): ENG 1111 and MTH 1340. Lab and other fee: $65.00.
2486 PHY1502 ST02C R312 M 5:30-8:20pm 19/20 Steele
LEC R312 W 5:30-6:30pm
LAB R312 W 6:30-8:20pm

PHY 2502 College Physics II with Calculus (5)
Calculus-based physics to include: electricity; magnetism; electromagnetism; geometric and wave optics; relativity; quantum physics; atomic physics; nuclear physics; collection, analysis, and reporting of data; problem-solving using calculus concepts and methods. Prerequisite(s): PHY 2501. Pre/Corequisite(s): ENG 1112 and MTH 2220. Lab and other fee: $65.00.
2487 PHY2502 ST01C R312 M 9:00-11:50 13/20 Strecker
LEC R312 W 9:00-10:00
LAB R312 W 10:00-11:50

(PHL) Philosophy
PHL 2100 Ethics (3)
Philosophical analysis and critique of predominant ethical perspectives from Western philosophy and religion. Application of these perspectives to contemporary moral problems such as abortion, drug use, the death penalty, racism, war and terrorism, animal rights, and the moral status of the natural environment. [Note: Online sections require that exams be taken at an approved proctoring site.] Pre/Corequisite(s): ENG 1111.
2472 PHL2100 EE01C (Online Section) 7/25 Sweet
2473 PHL2100 EE02C (Online Section) 1/25 Sweet

PHL 2300 Medical Ethics (3)
Application of philosophical analysis and ethical theories to the moral problems arising from modern medical care such as abortion, patients' rights, euthanasia, and experimentation with human subjects and ethics of cloning. Discussion of how moral values affect, and are affected by, medical and biological knowledge and practice. [Note: Online sections require that exams be taken at an approved proctoring site.] Pre/Corequisite(s): ENG 1111.
2474 PHL2300 EE01C (Online Section) 11/25 Sweet

PHL 2400 Philosophy of World Religions (3)
Philosophical analysis of the basic salvational beliefs and practices of Judaism, Christianity, Islam, Hinduism, and Buddhism, including: absolutist vs. enculturated conceptual interpretations of ultimate sacred reality; the impact of current scientific theories on arguments for the existence of God and scriptural interpretation; psychological and sociological interpretations of religion; religious vs. scientific explanations of the self, mystical visions, and near-death experiences; and scientific vs. religious arguments on the possibility of resurrection and reincarnation. Pre/ Corequisite(s): ENG 1111.
2475 PHL2400 GT01C G117 TTH 11:00-12:15 14/25 Sweet
2476 PHL2400 ST01C R226 MWF 11:00-11:50 16/25 Sweet
### (PLS) Political Science

**PLS 1100 Introduction to American Politics (3)**

Historical foundations of US government; theoretical underpinnings of important government documents; political behavior, voting behavior, and the campaign process. Policymaking process and the role of interest groups and the media. The history and role of political parties in the US. Three branches of United States government and how they function. Formal rules and procedures in American government. Pre/Corequisite(s): ENG 1111.

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**PLS 2300 Introduction to International Relations (3)**

Evolution of world system, state and nonstate actors, intergovernmental organizations, nations-states, multinational corporations, conflict and cooperation between actors, democratic peace theory, liberalism, realism, constructivism, Marxism, feminism, international events and daily life, links between domestic and international politics, foreign policymaking process, historical world events and international political economy. Pre/Corequisite(s): ENG 1111.

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### (PSY) Psychology

**PSY 1111 Introduction to Psychology (3)**

Introduction to fundamental principles and practices of psychology, including history, methods, biology of behavior, consciousness, perception, learning, thinking, intelligence, language, memory, social psychology, and organizational behavior, development, personality, psychopathology, and treatment. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

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**PSY 2218 Introduction to Educational Psychology (3)**

Major theories of learning, development, and motivation in an educational setting, Exploration of the similarities and differences in student learning, types of instructional strategies, factors that affect student's learning and development. Principles of assessment strategies, including design, implementation, and evaluation. Prerequisite(s): EDU 1110 or PSY 1111, and ENG 1111.

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**PSY 2223 Lifespan Human Growth and Development (3)**

Study of the biological, cognitive, cultural, environmental, and psychosocial development of human beings and the issues surrounding these developments from conception to death. Analysis of theories, myths and misconceptions, and methodological approaches of human development are explored. Applications of developmental psychology principles to daily life throughout the lifespan. Prerequisite(s): ENG 1111 and PSY 1111.

**PTA 1148 PTA Procedures II (5)**

Pathology, data collection, and physical therapy interventions for cardiovascular, lymphatic, immune, endocrine/metabolic, integumentary, gastrointestinal, genitourinary, respiratory disorders and amputations. Positioning, wheelchair mobility, bed mobility, transfers, gait training, aerobic conditioning, breathing techniques, hydrotherapy, orthotics, and prosthetics. Professional behavioral development. Laboratory practice. Classroom component online. Prerequisite(s): BIO 2121 and MST 1105 and BIO 1119 and PTA 1112 and PTA 1122. Pre/Corequisite(s): BIO 2122 and PTA 1162. Lab and other fee: $105.00.

**PSY 2230 Abnormal Psychology (3)**


**PTA 1162 PTA Rehabilitation I (5)**

Pathology, data collection, and physical therapy (PT) intervention for orthopedic conditions and musculoskeletal disorders. Positioning, bed mobility, transfers, gait training application to course related diagnoses, tissue healing and repair, pain theories, special orthopedic tests, aquatics, massage, joint mobilization, and detailed study of therapeutic exercise and exercise design. Professional behavioral development. Laboratory practice. Classroom component online. Prerequisite(s): BIO 2121 and MST 1105 and BIO 1119 and PTA 1112 and PTA 1122. Pre/Corequisite(s): BIO 2122. Lab and other fee: $80.00.

**PTA 2275 PTA Special Topics (1)**

Special topics related to the field of physical therapy including women’s health, health promotion, mental health, emergency medicine, occupational work hardening, and common diagnostic procedures. Offered in a 4-week session. The classroom component is online. Onsite requirement for guest speakers. Prerequisite(s): PTA 2270 and PTA 2281 and PTA 2291 and PTA 2262. Lab and other fee: $90.00.

**PTA 2282 PTA Directed Practice II (2)**

Provision of physical therapy services in a clinical setting. Continued application of knowledge and role of the physical therapist assistant, performance of skills and professional behavior at a progressively developing level. Supervised by clinical and academic faculty. Forty hours per week for five weeks; total 200 hours. Prerequisite(s): PTA 2270 and PTA 2281 and PTA 2291 and PTA 2262.
PTA 2283 PTA Directed Practice III (3)
Provision of physical therapy services in the clinical setting. Continued application of knowledge and role, performance of skills, and professional behavior. Performance progresses to entry-level practice consistent with the role and scope of practice of the physical therapist assistant in implementing the plan of care established by the physical therapist. Supervised by clinical and academic faculty. Forty hours per week for seven weeks; total 280 hours. Prerequisite(s): PTA 2270 and PTA 2262. Pre/Corequisite(s): PTA 2282 and PTA 2292.
2557 PTAP2283 ST01B TBA TBA TBA 16/36 Matt

PTA 2292 PTA Seminar II (1)
Companion course to PTA 2282. Discussion of clinical situations and problem solving; focus on self-evaluation; understanding the work setting and client, consumer behaviors as related to Directed Practice II. Ethical issues and selected course-related topics as determined by the instructor. Resume development. Offered in a 4-week session. The classroom component is online. Prerequisite(s): PTA 2270 and PTA 2281 and PTA 2291 and PTA 2262. Corequisite(s): PTA 2282.
2558 PTAP2292 EE01X (Online Section) 5/25 Dinsmore 1/13-2/7

PTA 2293 PTA Seminar III (1)
Companion course to PTA 2283. Discussion of clinical situations and problem solving; understanding the work setting, and client/consumer behaviors related to Directed Practice III. Ethical issues and selected course-related topics as determined by the instructor. Present a second-year Capstone Project. Job search and interview prep. Offered in an 8-week session. Prerequisite(s): PTA 2270 and PTA 2282. Pre/Corequisite(s): PTA 2282 and PTA 2292. Corequisite(s): PTA 2283. Lab and other fee: $40.00.
2560 PTAP2293 SH01B TBA TBA TBA 5/25 Dinsmore
LEC TBA TBA TBA Dinsmore

(RES) Real Estate
RES 1100 Real Estate Principles (3)
Ohio Division of Real Estate & Professional Licensing principles and practices. Introduction to the market of real property, contractual/property rights, investment, and ownership. Guidelines and operations for the real estate professional. Meets state requirements for licensing. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a C or higher.
2562 RES1100 EE01A (Online Section) 0/26 Knight
2563 RES1100 GT01C G118 S 8:00-10:50 20/25 Knight

RES 1200 Real Estate Law (3)
Real estate transactions and development from the perspective of legal professionals. Contracts, agency, civil rights, deeds, mortgages, and listing/purchasing agreements. Meets state requirements for licensing. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a C or higher.
2564 RES1200 EE01A (Online Section) 14/25 Christensen
2565 RES1200 EE01B (Online Section) 2/25 Christensen
2566 RES1200 GT01C G118 S 11:30-2:20 20/25 Stoner

RES 1300 Real Estate Appraisal (2)
Real estate appraisal techniques including market comparison, cost, and income. Principles, process, and factors that influence the value of real estate. Single-family residential property, with some aspects of commercial income producing properties. Meets state requirements for licensing. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.
2567 RES1300 EE01A (Online Section) 5/25 Alexander
3804 RES1300 EE01B (Online Section) 11/25 Alexander
2568 RES1300 GT01A G113 M 5:30-8:10pm 20/25 Alexander

RES 1400 Real Estate Finance (2)
Real estate finance in both primary and secondary markets. Financing instruments and techniques. Mortgage payment patterns, economic characteristics, standards, and financing of single and income-producing properties. Meets state requirements for licensing. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.
2569 RES1400 EE01A (Online Section) 15/25 Pickarski
2570 RES1400 EE01B (Online Section) 3/25 Pickarski
2571 RES1400 GT01B G113 M 5:30-8:10pm 18/25 Alexander

(RST) Regional Studies
RST 2800 Regional Studies of Latin America (3)
Survey course of the land, people, history, politics, social institutions, economic development, literature, and the arts of Latin America. Prerequisite(s): ENG 1111. Pre/Corequisite(s): ENG 1112.
2573 RST2800 EE01C (Online Section) 14/25 Schneider

(SOC) Sociology
SOC 1110 Introduction to Sociology (3)
Analysis of social theory, methodology, and principles to provide a framework to study culture, socialization, stratification, and deviance. Comparative analysis of sociologically relevant diverse worldviews examining political, spiritual, and social systems and economic and cultural traditions. Pre/Corequisite(s): ENG 1111.
2574 SOC1110 EE01B (Online Section) 0/25 Carmack
2575 SOC1110 EE01C (Online Section) 7/25 Malcuit
4018 SOC1110 EE01D (Online Section) 7/25 Gavin
2576 SOC1110 EE02B (Online Section) 2/25 Carmack
2577 SOC1110 EE02C (Online Section) 10/25 Malcuit
2578 SOC1110 EE02D (Online Section) 13/25 Malcuit
2579 SOC1110 EE03C (Online Section) 6/25 Corkem
7177 SOC1110 EE03D (Online Section) 2/25 Carmack
2579 SOC1110 EE04C (Online Section) 4/25 Thamann
7457 SOC1110 EE04D (Online Section) 13/25 Malcuit
2580 SOC1110 EE05C (Online Section) 3/25 Hall
2581 SOC1110 EE06C (Online Section) 3/25 Malcuit
2582 SOC1110 EE07C (Online Section) 13/25 Malcuit
2583 SOC1110 EE08C (Online Section) 9/25 Gavin
2585 SOC1110 GT01B G117 MW 2:00-4:50 3/15 Hall
2586 SOC1110 GT01C G230 TTH 9:30-10:45 22/25 Wharton
2587 SOC1110 GT01C G115A MW 11:00-12:15 12/25 Gavin
2588 SOC1110 GT03C G204 TTH 11:00-12:15 11/25 Gavin
2589 SOC1110 GT04C G230 T 5:30-8:10pm 20/25 Bostic-Kelley
4020 SOC1110 KT01B X313 MW 2:00-4:50 9/10 Hall
2591 SOC1110 KT01C X313 TTH 2:00-3:15 16/24 Hall
2594 SOC1110 ST01B R223 TTH 2:00-4:50 17/26 Carmack
2595 SOC1110 ST01C R316 MW 9:30-10:45 13/25 Ballinger
4021 SOC1110 ST01D R226 TTH 2:00-3:50 20/25 Coghill
2596 SOC1110 ST02C R315 TTH 9:30-10:45 16/25 Coghill
2597 SOC1110 ST03C R232 MW 11:00-12:15 9/25 Ballinger
2598 SOC1110 ST04C R232 TTH 11:00-12:15 17/25 Coghill
2599 SOC1110 ST05C R232 TTH 12:30-1:45 8/25 Coghill
2600 SOC1110 ST06C R232 MW 2:00-3:15 2/25 Corkem
2602 SOC1110 ST08C R232 TH 5:30-8:10pm 18/25 Vernon
SOC 2220 Comparing Cultures (3)
Compare and contrast non-Western world cultures with focus on family organizations, food-getting, social stratification, economics, religion, the arts, and change. Pre/Corequisite(s): ENG 1111.
2604 SOC2220 EE01C (Online Section) 9/25 Corkern
2605 SOC2220 GT01C G204 TTH 9:30-10:45 15/25 Gavin
2606 SOC2220 ST01C R316 MW 11:00-12:15 16/25 Corkern

SOC 2230 Social Problems (3)
Builds on a general understanding of contemporary causes, treatment, and prevention of social problems within the United States. Advance understanding of social problems, and proposed solutions through the lens of three sociological theories and methodologies. Analyzing proposed solutions to social problems from culturally diverse perspectives. Pre/Corequisite(s): SOC 1110 and ENG 1111.
2607 SOC2230 EE01C (Online Section) 8/25 Gavin
2609 SOC2230 ST01C R232 MW 12:30-1:45 9/25 Malcuit

SOC 2240 Racial and Cultural Minorities (3)
Sociological exploration of American racial and ethnic groups. Emphasis placed on the social construction of race and ethnicity, patterns of intergroup contact. Historical comparative analysis of selected groups with emphasis on economic, political and structural inequalities. Pre/ Corequisite(s): SOC 1110 and ENG 1111.
2610 SOC2240 EE01C (Online Section) 18/25 Malcuit

(SPN) Spanish
SPN 1100 Survival Spanish (3)
Basic pronunciation, phrases, and greetings in Spanish for travel or work. Tools for understanding and forming sentences in Spanish. May not be taken for credit toward graduation if successfully completed SPN 1112, 2111, 2112 or above at Clark State or any other accredited institution. True beginners’ level. Will not meet language requirement for transfer at four-year institutions. Prerequisite(s): SPN 1100 with a grade of C or higher.
2612 SPN1100 EE01C (Online Section) 4/25 Nash

SPN 1112 Beginning Spanish, Course II (3)
Integration of Interpersonal, Interpretive, and Presentational Modes of Communication. Practice real-world communicative tasks in culturally appropriate ways. Identify products, practices, and perspectives of the target culture(s). Use grammar, vocabulary, and structures to meet functional performance goals to build a foundation for continued language learning. Perform better and stronger in the Novice range on the American Council of Teachers of Foreign Languages (ACTFL) Performance Scale. Some abilities developing in Intermediate range. College-level textbook required. Prerequisite(s): SPN 1111 with a grade of C or higher, or demonstrated proficiency in indicated area of study. Pre/Corequisite(s): ENG 1111.
4109 SPN1112 GT02C G117 MW 11:00-12:15 13/15 Savitscus
4088 SPN1112 ST01C R302 MW 11:00-12:15 14/24 Savitscus

STT 2640 Elementary Statistics I (3)
Introduction to statistical techniques and methodology, including terminology, sample methods, descriptive statistics, data analysis, data relationships, elementary set theory, elementary probability, random variables, binomial distribution, contingency tables, and estimation; with a laboratory exploration of probabilistic and statistical concepts, and compilation of routine statistical computations. [Note: Online sections require that exams be taken at an approved proctoring site.] Prerequisite(s): ENG 0800 with a grade of C or higher, and MTH 0650 or MTH 0750, with a grade of C or higher. Lab and other fee: $0.00.
2629 STT2640 EE01C (Online Section) 5/25 Siriphokha
2630 STT2640 EE02C (Online Section) 2/25 Siriphokha
3501 STT2640 EE03C (Online Section) 3/25 Siriphokha
6996 STT2640 EE04C (Online Section) 4/26 Siriphokha
3248 STT2640 GT01C G118 MW 2:00-3:00 1/16 Banaszak
3249 STT2640 ST01C R226 MW 5:30-6:30pm 2/24 Evans
3250 STT2640 ST01X TLC104 W 9:00-10:50 3/24 Kuehnle 1/33/23
3251 STT2640 ST01X TLC104 W 11:00-11:50 3/24 Kuehnle
3250 STT2640 ST02C TLC104 W 11:00-11:50 4/24 Kuehnle
3267 STT2640 ST03C TLC104 W 1:00-2:00 1/24 Craioveanu
3263 STT2640 SY01C TLC103 W 10:00-11:00 4/24 Anderson
3273 STT2640 SY02C TLC104 W 2:00-3:00 13/24 Anderson
3247 STT2640 SY03C TLC103 W 6:30-7:30pm 20/24 Hudson

STT 2641 Elementary Statistics II (2)
Application of statistical techniques and methodology, sampling theory, design of experiments, correlation and regression, hypothesis testing, and analysis of variance; with a computer laboratory exploration of statistical concepts, computation of statistical parameters, and analysis of statistical significance. [Note: Online sections require that exams be taken at an approved proctoring site.] Prerequisite(s): STT 2640 with a grade of C or higher. Lab and other fee: $0.00.
3244 STT2650 EE01A (Online Section) 5/25 Siriphokha
3254 STT2650 ST01A TLC139 TTH 12:00-12:50 14/24 Moul
3255 STT2650 ST01A TLC104 TTH 1:30-2:30 3/24 Kuehnle 3/25-5/8
3252 STT2650 ST01X TLC104 W 9:00-10:50 3/24 Kuehnle 3/25-5/8
(SWK) Social Work

SWK 1100 Introduction to Social Work (3)
Introduction to the profession: historical development, value base, social systems perspective on social problems, and major fields of practice. Includes required knowledge, skills and values; critical thinking; problem solving; self-awareness; and appreciation of racial, ethnic, and cultural pluralism. Pre/Corequisite(s): ENG 1111.

SWK 1105 Chemical Dependency I: Pharmacology and Physiology of Psychoactive Substances (3)
Pharmacology of psychoactive substances including physiological and psychological effects and their propensity for addiction. Identification of basic treatment theories and treatment and prevention strategies in the field of addictions. Prerequisite(s): ENG 0800 with a grade of C or higher or ENG 0850. Pre/Corequisite(s): ENG 0900.

SWK 1110 Peer Support Fundamentals I (4)
Paraprofessional training for individuals with lived experience in mental health issues and/or substance use recovery to work with populations of the same to promote stability and long-term recovery. Knowledge and training in methods of engagement, process of recovery, and ethical concerns. Utilization of concepts from the I-Best model to develop basic skills. Instructor permission required.

SWK 1115 Peer Support Co-op I (1)
Development of paraprofessional skills to work with clients in mental health and/or addiction recovery. Integration of skills in screening, case management, advocacy, education and mentorship with clients to stabilize their recovery. Prerequisite(s): SWK 1110. Corequisite(s): SWK 1131. Instructor permission required. Student Liability fee: $20.00.

SWK 1122 Social Work Methods and Procedures (3)
Conceptual framework of generalist social work practice model. Creative problem solving, social work values, ethics, and principles related to interventions with individuals, groups, organizations, and communities. Exposure to different theoretical perspectives. Motivational interviewing techniques. Prerequisite(s): SWK 1100.

SWK 1131 Peer Support Seminar I (1)
Designed to provide a forum for student shared learning and problem-solving their co-op placement issues. Integrate classroom into practical setting. Prerequisite(s): SWK 1110. Corequisite(s): SWK 1115. Instructor permission required.

SWK 1136 Affective Education and Group Treatment (3)
Intrapersonal and interpersonal communication skills. Emphasis on personal growth and development. Group treatment model. Various group types, functions, and processes. Pre/ Corequisite(s): ENG 1111 and SWK 1100 or Instructor Permission.

SWK 2205 Chemical Dependency II: Assessment, Diagnosis, and Treatment Strategies (3)
Theories of addiction. Treatment and prevention models and strategies with abusive/addicted populations. Counseling techniques and strategies used in individual, group, and family approaches to addictions treatment. Concepts and practices of assessment, diagnosis, and treatment planning. Prerequisite(s): ENG 1111 and SWK 1105 or Instructor Permission.

SWK 2215 Chemical Dependency III: Co-Occurring Disorders of Addiction and Mental Health (3)
Study of the population presenting with both substance abuse/addiction and mental health symptoms. History, definitions, symptomatology, assessment, and treatment strategies of Co-Occurring Disorders (COD). Prerequisite(s): ENG 1111 and SWK 1105 and SWK 2205 or instructor permission.

SWK 2223 Generalist Practice with Families (3)
Generalist social work practice model with emphasis on families, social work role, planning, goal setting, evaluation, and crisis work strategies within a generalist model of intervention. Pre/ Corequisite(s): SWK 1122 or Instructor permission.

SWK 2271 Social Services Practicum I (2)
Practicum placement of 210 hours in local social service agency under professional supervision. Development of professional social work skills, integration of social work theories and skill-based training and professional social work documentation. Prerequisite(s): SWK 1122. Corequisite(s): SWK 2291. Instructor permission required. Student Liability fee: $20.00.

SWK 2272 Social Services Practicum II (2)
Practicum placement of 210 hours in local social service agency under professional supervision. Development of professional social work skills, integration of social work theories and skill-based training and professional social work documentation. Prerequisite(s): SWK 1122. Corequisite(s): SWK 2292. Instructor permission required. Student Liability fee: $20.00.
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**THE 2201 Acting I (3)**
Basic training and practice in vocal, physical, and creative processes used by the actor for the stage, emphasis on character development and scoring techniques. Pre/Corequisite(s): ENG 1111. 3644 3644 3644 3644

**THE 2215 Lighting and Sound (3)**
Theory and practice of stage lighting and sound techniques and equipment. Prerequisite(s): ENG 0800. Pre/Corequisite(s): THE 1111. 3751 3751 3751 3751

**THE 2225 Theatre Technology Practicum V (2)**
Advanced theatre technology skills experience in a live, Clark State Theatre Arts production in a responsible role. Instructor permission required. 7179 7179 7179 7179

**THE 2242 Theatre History II (3)**
Survey of the history and development of theatrical production from Restoration through the present. Emphasis on play production rather than literature. Representative plays studied. Pre/corequisite(s): ENG 1111. 2692 2692 2692 2692

**WLD 1000 Introduction to Welding Processes (3)**
An introduction to the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety. Skill development in oxyacetylene brazing, cutting, and plasma cutting. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/corequisite(s): AGR 1100 or ENT 1000. Lab and other fee: $150.00. 2693 2693 2693 2693

**WLD 1010 Gas Metal and Flux Cored Arc Welding (GMAW/FCAW) (3)**
Introduction to Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW) process. Perform GMAW and FCAW in the flat, horizontal, vertical, and overhead position. Emphasis placed on power source, electrode wire selection, various joint designs, and troubleshooting techniques. Qualification standards and acceptance criteria will be provided in accordance with American Welding Society, Schools Excelling through National Skills Education, AWS QC10, Specification for Qualification and Certification of SENSE Level 1 - Entry Welders. Prerequisite(s): WLD 1000 or Instructor Permission. Lab and other fee: $150.00. Certification fee: $20.00. 2695 2695 2695 2695

**WLD 1020 Shielded Metal Arc Welding (SMAW) (3)**
Introduction to the Shielded Metal Arc Welding (SMAW) process. Perform SMAW in the flat, horizontal, vertical, and overhead position. Emphasis placed on power sources, electrode selection, various joint designs, and troubleshooting techniques. Qualification standards and acceptance criteria will be provided in accordance with American Welding Society, Schools Excelling through National Skills Education, AWS QC10, Specification for Qualification and Certification of SENSE Level 1 - Entry Welders. Prerequisite(s): WLD 1000 or Instructor Permission. Lab and other fee: $150.00. 2697 2697 2697 2697
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**WLD 1030 Gas Tungsten Arc Welding (GTAW) (3)**

Introduction to the principles of Gas Tungsten Arc Welding (GTAW), setup and safe use of GTAW equipment. Perform GTAW in the flat, horizontal, vertical, and overhead positions. Emphasis on power source, tungsten selection, various joint designs, and troubleshooting techniques. Qualification standards and acceptance criteria will be provided in accordance with American Welding Society, Schools Excelling through National Skills Education. AWS QC10, Specification for Qualification and Certification of SENSE Level 1 - Entry Welders. Prerequisite(s): WLD 1000. Lab and other fee: $150.00.