Spring Term: January 19 - May 14, 2021

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

Call# Course# Sec Bld/Rm Days Time Avail Seats Instructor

(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.
5282 ACC1000 EE01C (Online Section) 25/25 Marling

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.
5283 ACC1100 EE01C (Online Section) 25/25 Adkins
5284 ACC1100 EE02C (Online Section) 25/25 TBA
5285 ACC1100 GT01C G230 MW 5:30-7:45pm 25/25 TBA
5288 ACC1100 ST01C A114 MW 11:00-1:15 25/25 Marling

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.
5290 ACC1200 EE01C (Online Section) 25/25 Adkins
7471 ACC1200 SH01C L136 M 5:30-7:30pm 25/25 Adkins

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.
5294 ACC1300 EE01A (Online Section) 25/25 TBA

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.
5296 ACC1400 EE01C (Online Section) 25/25 Marling

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.
5297 ACC2000 EE01C (Online Section) 25/25 Adkins

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.
5298 ACC2200 EE01C (Online Section) 25/25 Marling
5299 ACC2200 SH01C R229 M 9:30-1:45 25/25 Marling

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.
5300 ACC2300 EE01C (Online Section) 25/25 Adkins
5301 ACC2300 GH01C G115A TH 12:30-1:45 25/25 Adkins

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.
5304 AGR1350 ST01J S111 MW 8:30-11:15 25/25 Davison

AGR 1500 Landscape Design (4)
A study of landscape design concepts and principles. Emphasis on site survey; site planning; landscape plant utilization; and development of basic sketching, drawing, lettering, and labeling skills. 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: $30.00.
5305 AGR1500 ST01J S123 MW 2:00-5:30 15/15 Drake
AGR 2150 Herbaceous Plant Materials (3)
Identification of annuals, biennials, perennials, bulbs, and monocots used in the green industry. 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: $20.00. 5306 AGR2150 ST01J S115 MW 8:30-11:15 25/25 Drake

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. 5307 AGR2300 ST01J S115 TTH 12:00-2:45 15/15 Drake

AGR 2450 Irrigation Systems (3)
Irrigation system operation and design. Primary emphasis is on turfgrass, golf course, and commercial operations. Prerequisite(s): ENG 1111 and MTH 1200. Lab and other fee: $20.00. 5308 AGR2450 ST01J S105 TTH 5:30-7:45pm 20/20 Drake

AGR 2500 Advanced Landscape Design (4)
Advanced study and application of landscape design principles and techniques with emphasis on planning, designing, pricing, and selling diversified landscapes. Prerequisite(s): AGR 1500. Lab and other fee: $30.00. 5309 AGR2500 ST01J S123 MW 2:00-5:30 20/20 Drake

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. 5310 AGR2650 ST01J S105 TTH 8:30-11:15 20/20 Davison

AGR 2775 Ag Marketing and Trade (3)
Fundamental principles, policies, problems, structure, and strategy of agricultural marketing and international trade. Development of a marketing plan. Implications of world trade and political aspects of world food production. Prerequisite(s): AGR 2700. Pre/Corequisite(s): ENG 1111. 5311 AGR2775 ST01J S115 TTH 12:30-2:15 24/24 Davison

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. 5312 AGR2800 ST01J S105 MW 11:30-3:00 20/20 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. 5313 AGR2850 ST01J S105 TTH 3:30-5:15 20/20 Davison

(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. 5316 ART1002 ST01C R205 M 5:30-8:10pm 25/25 TBA

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. 5317 ART1111 ST01C HBC209 MW 3:00-4:30 15/15 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. 5318 ART1121 ST01C HBC209 MW 1:00-2:50 15/15 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. 5319 ART1300 E01C (Online Section) 25/25 TBA 5320 ART1300 E02C (Online Section) 25/25 TBA 5321 ART1300 GT01C G119 W 3:00-5:40 25/25 TBA 5322 ART1300 ST01C R226 MW 9:30-10:45 25/25 TBA

(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 or demonstrated proficiency in indicated area of study. 5324 ASL1112 GT01C G113 MW 8:00-9:15 25/25 TBA 5330 ASL1112 ST01C TLC127 MW 11:00-12:15 25/25 TBA

ASL 2112 Intermediate American Sign Language, Course II (3)
Continuation of intermediate integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication. Accomplish real-world communicative tasks in culturally appropriate ways to gain familiarity with products, practices, and perspectives of American Deaf culture. Use of grammar, vocabulary, structures, and spatial orientation to meet functional performance goals and build a foundation for continued language learning. Prerequisite(s): ASL 2111 with a grade of C or higher or demonstrated proficiency in indicated area of study. Instructor permission required. 7252 ASL2112 ST01C TLC127 M 5:30-8:10pm 25/25 TBA
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: $50.00.

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. Classroom 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.

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.

(BNK) Banking
BNK 1100 Consumer Lending (3)
Comprehend the consumer lending process from developing and taking loan applications to collection and recovery; describe consumer lending laws and regulations; list characteristics, benefits, and disadvantages of direct lending, indirect lending, and open-end credit products; explain how the five C's of credit are used in credit evaluation and decision making.

BNK 2000 Introduction into Investments (3)
An introduction to the concepts of investing. Addressing the theory and application of investment topics. It provides the basic knowledge about financial markets, valuation of investment tools, and different investment strategies. Prerequisite(s): BNK 1000. Pre/Corequisite(s): ECO 2210.

BNK 2100 Money & Banking (3)
Theory, methods, and policies on money, the financial system, and monetary policy; ratio analysis; present value techniques; analysis of interest rates; the role of banking and effects of regulation; and analysis and forecasting of monetary and fiscal policy. Prerequisite(s): ACC 1100. Pre/ Corequisite(s): ECO 2210.
### (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: $20.00.

5409 CAD1101 SH01B S102C MW 5:30-7:00pm 20/20 TBA
5410 CAD1101 ST01B S102D TH 9:00-12:30 20/20 TBA

#### 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.

5413 CAD1301 ST01A S102C MW 9:00-12:30 12/12 TBA
7437 CAD1301 ST02A S102C MW 5:30-7:00pm 12/12 TBA

#### CAD 2100 Solid Modeling (3)
Two-dimensional drafting (2D) and three-dimensional (3D) solid model assemblies. Generating 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: $20.00.

5418 CAD2100 SH01B S102C MW 7:00-8:30pm 12/12 Hatem
5419 CAD2100 ST01B S102C MW 9:00-12:30 12/12 Hatem

#### CAD 2200 Advanced Solid Modeling (3)
Advanced 3-D modeling techniques. Presentation files, animation, model analysis, piping systems, and assembly models. Prerequisite(s): CAD 2100. Lab and other fee: $20.00.

5448 CAD2200 ST01B S102C MW 9:00-12:30 12/12 TBA

### (CHM) Chemistry

#### 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 equipment and methods, including mass and volume measurements, graphing, observing chemical and physical properties, carrying out stoichiometric measurements and titrations, drawing conclusions from experimental data, designing experiments to test hypotheses.

(* Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) 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: $65.00.

5422 CHM1150 EE01C (Online Section) 9:00-12:30 20/20 TBA
5423 CHM1150 GT01C G118 MW 10:00-11:15 16/16 TBA
LAB G129 W 11:30-12:00 TBA
5425 CHM1150 ST01C R301 T 12:00-2:50 20/20 TBA
LAB R313 TH 12:00-1:50 TBA
5426 CHM1150 ST02C R316 T 5:30-8:20pm 20/20 TBA
LAB R313 TH 5:30-7:20pm TBA

#### CHM 1160 Introduction to Organic and Biological Chemistry (4)
Introduction to the structures, chemical and physical properties of hydrocarbons, alcohols, phenols, ethers, aldehydes, ketones, carbohydrates, carboxylic acids, esters, lipids, amides, amino acids, and 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, enzymes.

(* Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) Prerequisite(s): MTH 0850 with a grade of C or higher, and CHM 1150 within the last 5 years. Lab and other fee: $70.00.

5427 CHM1160 EE01C (Online Section) 20/20 TBA

#### 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.) Prerequisite(s): CHM 1210 with grade of C or higher. Pre/Corequisite(s): ENG 1112. Lab and other fee: $85.00.

5436 CHM1220 ST01C R316 TH 12:00-1:15 20/20 TBA
LAB R313 T 2:00-4:50 TBA

### (COM) Communication

#### COM 1110 Interpersonal Communication I (3)
An introduction to the principles and theories of 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. Prerequisite(s): ENG 1111.

5438 COM1110 EE01C (Online Section) 25/25 Coleman
5439 COM1110 EE01D (Online Section) 25/25 Coleman
5440 COM1110 EE02C (Online Section) 25/25 Coleman
5442 COM1110 GT02C G114 T 5:30-8:10pm 25/25 TBA
5443 COM1110 GT01C X313 TH 9:30-10:45 25/25 TBA
5444 COM1110 ST01C R315 MW 8:00-9:15 25/25 TBA
5445 COM1110 ST02C R315 TH 11:00-12:15 25/25 TBA
5446 COM1110 ST03C R317 MW 12:30-1:45 25/25 Coleman
5447 COM1110 ST04C R315 M 5:30-8:10pm 25/25 TBA

#### COM 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. Prerequisite(s): ENG 1111.

5448 COM1120 EE01C (Online Section) 25/25 Coleman
5449 COM1120 GT01C G114 TH 11:00-12:15 25/25 TBA
5451 COM1120 GT02C G114 TH 5:30-8:10pm 25/25 TBA
5452 COM1120 ST01C R317 MW 9:30-10:45 25/25 TBA
5453 COM1120 ST02C R317 TH 8:00-9:15 25/25 TBA
5454 COM1120 ST03C R317 TH 2:00-3:15 25/25 TBA
5455 COM1120 ST04C R317 MW 3:30-4:45 25/25 TBA
5456 COM1120 ST05C R317 W 5:30-8:10pm 25/25 TBA
Call# Course# Sec Bld/Rm Days Time Avail Seats Instructor

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. Prerequisite(s): ENG 1111.
5457 COM1130 EE01C (Online Section) 25/25 Coleman

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.
5458 COM1170 GT01C G114 MW 2:00-3:15 25/25 TBA
5459 COM1170 ST01C R315 TH 12:30-1:45 25/25 TBA

COM 2240 Organizational Communication (3)
An introduction to organizational communication research and theory with emphasis on communication processes to create a productive work environment, quality communication, and adaptation to an evolving workplace. An analysis of methods organizations use to sustain, how they communicate with their respective audiences, and assess principles for best organizational communication by analyzing successful historical practices and cutting edge beliefs which are driving organizations today. Prerequisite(s): ENG 1111 and COM 1150.
7064 COM2240 EE01D (Online Section) 25/25 Coleman

COM 2700 Communication Internship (3)
Planned, structured, work experience in a professional setting applying a variety of classroom theory and acquiring new skills for a career in communication. May earn between 1-3 credit hours. Participate at the internship placement for a minimum of 10 hours per week per co-op credit earned. Prerequisite(s): ENG 1112 and 30 semester hours earned. Instructor permission required.
5461 COM2700 ST01C TBA TBA TBA 10/10 Coleman

(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 .
5462 COR1100 ST01C B203 MW 11:00-12:15 20/20 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.
5463 COR1105 GT01C G124 T 5:30-8:10pm 18/18 Monaghan
5464 COR1105 ST01C B203 MW 9:30-10:45 20/20 Benton

COR 1130 Adult/Juvenile Corrections (3)
Facilities, programs, and procedures for detention and incarceration. Prerequisite(s): ENG 0800 with a grade of C or higher.
5465 COR1130 ST01C B203 W 5:30-8:10pm 20/20 Benton

Call# Course# Sec Bld/Rm Days Time Avail Seats Instructor

COR 2250 Correctional Case Management (3)
Focus on the importance of case manager's role in client oversight, correctional case management evolution, 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.
5466 COR2250 ST01C B205 TH 5:30-8:10pm 20/20 Benton

COR 2285 Corrections Practicum (3)
Field service training (day-time hours). Educational experience through appropriate observation and work assignment in jail and adult correction facilities. 2 hours of lecture/discussion and 7 hours of practicum per week. 105 hours of practicum per semester. 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.
5467 COR2285 SH01C TBA TBA TBA 20/20 Lapp

(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.
5468 CRJ1100 GT01C G117 MW 12:30-1:45 20/20 Smithhart
5469 CRJ1100 ST01C B203 T 5:30-8:10pm 20/20 Holt

CRJ 1115 Victimology (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.
5470 CRJ1115 ST01C B205 W 5:30-8:10pm 20/20 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.
5471 CRJ1120 GT01C G232 MW 11:00-12:15 20/20 Smithhart
5472 CRJ1120 ST01C B203 MW 8:00-9:15 20/20 Benton
5473 CRJ1120 ST02C B205 M 5:30-8:10pm 20/20 Young

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.
5474 CRJ1123 GT02C G233 TH 5:30-8:10pm 20/20 Peck
5475 CRJ1123 ST01C B203 MW 12:30-1:45 20/20 Delong
5476 CRJ1123 ST03C B203 W 5:30-8:10pm 20/20 Smithhart

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.
5478 CRJ2235 GT01C G115A TTH 2:00-3:15 20/20 Smithhart
5479 CRJ2235 ST01C B203 TTH 3:00-4:15 20/20 Herdt
CRJ 2240 Criminal Law (3)
Criminal procedures, criminal law, common defense, and prosecutorial processes. Prerequisite(s): CRJ 1100. Pre/Corequisite(s): ENG 1111. 5480 CRJ 2240 GT01C G230 TTH 12:30-1:45 20/20 Delong 5481 CRJ 2240 ST02C B203 TTH 5:30-8:10pm 20/20 Young

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. Pre/Corequisite(s): ENG 1112.

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 2250 and CRJ 1115. Pre/Corequisite(s): CRJ 2235 and CRJ 2240. Instructor permission required.

CRJ 2901 SPECIAL TOPICS IN CRIMINAL JUSTICE (1)
Research current topics in law enforcement with the purpose of increasing student understanding of the criminal justice system. Instructor permission required.

(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): MTH 0500 and ENG 0850 with a grade of C or higher. Pre/Corequisite(s): ITS 1105 or ITS 1245.

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 Windows computer must be used to complete the homework. 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 1500. 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: $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 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 2550 Secure Coding (3)
Topics related to security vulnerabilities in programming languages. Common weaknesses and mitigation strategies. Secure coding practices, analysis, and testing. Prerequisite(s): CSD 1600, CSD 2521, CSE 1120. Pre/Corequisite(s): CSD 2522.

CSD 2800 Advanced Topics (3)
Integration of programming, database, and web design. Project analysis, design, and solution implementation. Writing a final report. Presentation preparation and delivery. Weekly class attendance is required. Prerequisite(s): ITS 1500 and COM 1120 and CSD 1300 and CSD 1310 and ITS 1105 and (CSD 2520 or 2521 or 2531 or 2540 or 2541). Pre/Corequisite(s): ENG 1111. Lab and other fee: $20.00.
**(CSE) CyberSecurity**

**CSE 1110 Introduction to CyberSecurity (3)**

Internet security basics, hackers, spyware, phishing, spam, zombies, Trojan horses, worms, viruses, wi-fi security, denial-of-service, web-blocking, firewalls, and proxy servers. Installation and configuration of security tools and utilities. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of A or ENG 0800 with a grade of C or higher, and ITS 0800. Lab and other fee: $75.00.

**CSE 1120 CyberSecurity - Security + (3)**


**DSL Diesel Technologies**

**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.

**DSL 1550 Truck Steering and Suspension (2)**

Highway truck steering systems, suspension systems, and vehicle chassis. Construction, operation, application, service, maintenance, and diagnostics of systems. Laws and regulations governing these areas. Prerequisite(s): DSL 1300. Lab and other fee: $100.00.

**DSL 1600 Basic Electrical (3)**

Principles, operation, and applications of heavy duty truck electrical systems. Testing and diagnostics on batteries, starters, and alternators. Electrical circuit troubleshooting. Lab and other fee: $100.00.

**EBE 1000 Employability Skills (1)**

Life, career, and educational goals; resume and cover letter; research organization; interviewing skills; discussion of professional image; follow-up letter; co-op/internship processes. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

**EBE 2701 Co-op Education I (1)**

Relating academic studies to the world of work, establishing learning outcomes, preparing related reports. Workplace learning of a minimum of 150 documented hours (10 hours per week for 15-week term). Prerequisite(s): EBE 1000 or AGR 1100 and Approved co-op placement. Instructor permission required.

**EBE 2702 Co-op Education I (2)**

Relating academic studies to the world of work, establishing learning outcomes, preparing related reports. Workplace learning of a minimum of 300 documented hours (20 hours per week for 15-week term). Prerequisite(s): EBE 1000 or AGR 1100 and Approved co-op placement and Instructor permission required.

**EBE 2703 Co-op Education I (3)**

Relating academic studies to the world of work, establishing learning outcomes, preparing related reports. Workplace learning of a minimum of 450 documented hours (30 hours per week for 15-week term). Prerequisite(s): EBE 1000 or AGR 1100 and Approved co-op placement. Instructor permission required.

**EBE 2704 Co-op Education I (4)**

Relating academic studies to the world of work, establishing learning outcomes, preparing related reports. Workplace learning of a minimum of 600 documented hours (40 hours per week for 15-week term). Prerequisite(s): EBE 1000 or AGR 1100 and Approved co-op placement. Instructor permission required.
(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.
5535 ECE1101 ST01A A136 T 11:00-12:50 20/20 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.
5536 ECE1103 ST01C A136 W 2:00-4:40 20/20 Ingram

ECE 1106 Health, Safety, Nutrition (2)
Examination and discussion of content and issues related to the health, safety, and nutrition of young children birth through age 5. Exploration of creating safe learning environments, healthy nutrition, and positive interactions that support optimal growth and development of young children. Ways to engage the family in supporting these practices as well as licensing rules and information about required trainings that students must complete prior to student teaching. Prerequisite(s): ENG 0800. Corequisite(s): ENG 0800 or ENG 0850. Lab and other fee: $15.00. Student Liability fee: $25.00.
7330 ECE1106 ST01A A136 M 5:30-7:10pm 20/20 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.
5538 ECE1112 ST02C A136 M 12:30-2:10 18/18 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.
5539 ECE1115 ST01C A136 T 5:30-8:10pm 20/20 Ingram

ECE 1200 Infant Toddler Curriculum (2)
Exploration and discussion of high-quality care-giving and developmentally appropriate practices when engaging with infants and toddlers and their families. Importance of quality environments that support development, language and literacy, family engagement. Pre/Corequisite(s): ECE 1103 and ECE 1104. Lab and other fee: $15.00. Student Liability fee: $25.00.
7329 ECE1200 ST01C A136 T 1:00-2:50 20/20 Hastings

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.
5540 ECE2120 ST01C A136 TH 5:30-8:10pm 20/20 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 day 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.
5541 ECE2135 ST01C TBA TBA TBA 10/10 Hastings

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. Practise examination practice. Prerequisite(s): ECE 2130 and ECE 2133. Corequisite(s): ECE 2135. Instructor permission required. Lab and other fee: $30.00.
5542 ECE2137 ST01C A144 TH 3:00-4:50 10/10 Hastings

(ECO) Economics

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.
5543 ECO1100 EE01C (Online Section) 25/25 TBA
5544 ECO1100 ST01C L136 MW 9:30-10:45 25/25 TBA

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.
5545 ECO2210 EE01C (Online Section) 25/25 Lander
5546 ECO2210 EE02C (Online Section) 25/25 Lander
7514 ECO2210 SH01C TLC139 M 7:30-8:15pm 25/25 TBA
5548 ECO2210 ST01C L137 TH 2:00-3:15 25/25 Lander
**ECO 2220 Principles of Microeconomics (3)**

Fundamentals of economics from a micro perspective including elasticity, market efficiency, government intervention, consumer choice theory, production cost, market structures, market pricing, externalities, imperfect information, and public goods. Prerequisite(s): ENG 1111.

5549 ECO2220 EE01B (Online Section) 25/25 Lander
5550 ECO2220 EE01C (Online Section) 25/25 Lander
5551 ECO2220 EE02C (Online Section) 25/25 Lander
5552 ECO2220 GT01C G232 TTH 9:30-10:45 25/25 Lander
7379 ECO2220 SH01C L137 M 5:30-6:45pm 25/25 TBA
5553 ECO2220 ST01C A203 TTH 12:30-1:45 25/25 Lander

**(EMS) Emergency Medical Services**

**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, 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.

5560 EMS1100 LT01C HPH93 MW 6:00-9:00pm 20/20 Wade
5561 EMS1100 SH01C TBA LAB B306 F 9:00-1:00 20/20 Cusimano
5562 EMS1100 ST01C B306 TTH 9:00-12:00 20/20 Cusimano
5563 EMS1100 ST02C B306 MW 6:00-9:00pm 20/20 Cusimano

**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.

5564 EMS1114 LT01C TBA TBA TBA 20/20 Detwiler
5565 EMS1114 ST01C TBA TBA TBA 20/20 Detwiler

**EMS 1124 Paramedic Field Practice II (1)**

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.

5566 EMS1124 LT01C TBA TBA TBA 20/20 Detwiler
5567 EMS1124 ST01C TBA TBA TBA 20/20 Detwiler

**EMS 1133 Paramedic Theory II (6)**

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.

5568 EMS1133 LT01C HPH44 TTH 6:00-10:00pm 20/20 Detwiler
5569 EMS1133 ST01C B306 TTH 9:00-12:00 20/20 Welty
5570 EMS1133 ST02C B306 MW 6:00-9:00pm 20/20 Welty

**EMS 1143 Paramedic Practical Skills Lab II (1.7)**

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.

5571 EMS1143 LT01C HPH44 S 8:00-10:00 20/20 Detwiler
5572 EMS1143 ST01C B306 S 8:00-10:00 20/20 Detwiler
EMS 1171 Basic Life Support: CPR (0.5)
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.
5573 EMS1171 GT01X G230 F 9:00-2:00 20/20 Howard 1/29-1/29
5574 EMS1171 GT02X G230 S 9:00-3:00 20/20 Howard 1/30-1/30
5575 EMS1171 GT03X G230 S 9:00-3:00 20/20 Ashworth 2/6-2/6
5576 EMS1171 LT01X HP3H3 S 9:00-3:00 20/20 Castle 1/23-1/23
5577 EMS1171 ST01X B205 F 9:00-3:00 20/20 Ashworth 1/15-1/15
5578 EMS1171 ST02X B205 S 9:00-3:00 20/20 Sells 1/16-1/16
5579 EMS1171 ST03X B205 F 9:00-3:00 20/20 Sells 1/22-1/22
5580 EMS1171 ST04X B205 S 9:00-3:00 20/20 Sells 1/25-1/25
5581 EMS1171 ST05X B205 S 9:00-3:00 20/20 Howard 2/13-2/13

EMS 2288 Paramedic Theory/RNs (5)
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.
5582 EMS2288 ST01C B306 W 8:00-4:00 20/20 Ginter

(ENG) English
ENG 0800 College Reading Comprehension I (3)
College reading skills at the fundamental to intermediate level. General reading comprehension skills, vocabulary development, and study skill strategies needed for college-level courses. Institutional credit only. Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.
5583 ENG0800 GT01B G115B TTH 2:00-4:50 20/20 TBA
5584 ENG0800 GT01C G115B MW 12:30-1:45 20/20 TBA
5585 ENG0800 GT02C G115B MW 5:30-6:45pm 20/20 TBA
5587 ENG0800 ST01B R308A TTH 2:00-4:50 20/20 TBA
5588 ENG0800 ST01C R308 MW 9:30-10:45 20/20 Thompson
7348 ENG0800 ST02C R308A TTH 12:30-1:45 20/20 Huskey

ENG 0850 College Reading Comprehension II (3)
College reading skills at the intermediate level, displaying competency in reading college level texts. General reading comprehension skills, vocabulary development, and study skill strategies needed for college-level courses. Institutional credit only. Prerequisite(s): ENG 0800. Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000.
5590 ENG0850 GT01B G115B TTH 2:00-4:50 20/20 TBA
5591 ENG0850 GT01C G115B MW 12:30-1:45 20/20 TBA
5592 ENG0850 GT02C G115B MW 5:30-6:45pm 20/20 TBA
5594 ENG0850 ST01B R308A MW 2:00-4:50 20/20 TBA
5595 ENG0850 ST01C R308A MW 9:30-10:45 20/20 Thompson
7349 ENG0850 ST02C R308A TTH 12:30-1:45 20/20 Huskey

ENG 0900 College Writing Essentials (3)
Prepares students for English 1111. Builds reading and writing skills, introduces students to MLA guidelines and the college’s library. Institutional credit only. Pre/Corequisite(s): FYE 1000 or FYE 1100 or AGR 1100 or ENT 1000. Corequisite(s): ENG 1111.
5597 ENG0900 GT01B G124 TTH 11:00-1:50 18/18 TBA
5598 ENG0900 GT03B G230 TTH 5:30-8:20pm 25/25 TBA
5599 ENG0900 GY01A G115B MW 9:30-12:20 25/25 Derr
5600 ENG0900 GY02A G115B TTH 11:00-1:50 25/25 Adams
5601 ENG0900 GY03A G115B TTH 5:30-8:20pm 25/25 TBA
5604 ENG0900 ST01B R308A MW 11:00-1:50 25/25 TBA
5605 ENG0900 ST02B R308 MW 5:30-8:20pm 25/25 TBA
5607 ENG0900 SY01A R303 MW 11:00-1:50 25/25 Huskey
5608 ENG0900 SY02A R304 MW 9:30-12:20 25/25 Bays
5609 ENG0900 SY03A R303 MW 5:30-8:20pm 25/25 TBA
5610 ENG0900 SY04A R308A TTH 9:30-12:20 25/25 Thompson
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 EN 1111, must also register for EN 0950) Prerequisite(s): EN 0800 with a grade of C or higher and EN 0900 with a grade of C or higher. Pre/Corequisite(s): EN 0800 with a grade of A, or ENG 5660.

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 1600 Introduction to Literature (3)
Critical readings, discussion and analysis of poetry, fiction, and drama. Pre/Corequisite(s): ENG 1111.
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 measurement tools including, but not limited to: scales, calipers, micrometers, dial indicators, coordinate measurement machines. The use of computer interfaces in metrology and basic 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)
Themes, 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)
Focused 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 1350 Introduction to Additive Manufacturing (3)
Principles of the applications of Additive Manufacturing. Advantages of using Additive Manufacturing over traditional Subtractive Manufacturing processes. An overview of the most widely used technologies, materials and applications. Create files, select appropriate technology, build settings and parameters, and print complex three-dimensional parts. Prerequisite(s): CAD 2100. Lab and other fee: $100.00.

ENT 1370 Rapid Prototyping Model Design and Fabrication (3)
Examines the key elements of product development from the concept through design to production. Provides knowledge of the theory of Rapid Prototyping and enables critical thinking in new product development, process building, sustainability, and innovation theories. Engineering parts inspection and reverse engineering processes employing 3 Dimensional (3D) printing, scanning, and Coordinate Measuring. Prerequisite(s): ENT 1410 and CAD 2100. Lab and other fee: $100.00.
ENT 1450 Direct Current (DC) Circuits (3)

ENT 1460 Alternating Current (AC) Circuits (3)
Examine Alternating Current (AC) fundamentals including complex numbers, impedance concepts, resonance, transformers, superposition theorem, Thévenin's Theorem, Norton's Theorem, and power transfer theorems. Prerequisite(s): ENT 1450 and MTH 1340. Lab and other fee: $25.00.

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 1600 Introduction to Robotics (3)
Investigating the history and evolution of robotics. Classification and characteristics of robots, robotic applications, and safety protocols. Introduction of various industrial robotic teach pendants and robotic movement. Introduction to robotic programming. Pre/Corequisite(s): ENT 1000 and ENT 1050. Lab and other fee: $30.00.

ENT 1650 Robotic Applications (3)
Program and operate FANUC and Motoman robots. Develop programming skills for material handling, including the integration of vision systems and conveyors. Prerequisite(s): ENT 1600. Lab and other fee: $30.00.

ENT 1750 Robotic Welding (3)
Program and operate a FANUC robotic weld cell. Introduction to Gas Metal Arc Welding (GMAW), including safety, joint designs, and troubleshooting. Prerequisite(s): ENT 1600. Lab and other fee: $100.00.

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 Statics (3)
The force analysis of rigid bodies at rest: vectors, forces, moments, centroids, equilibrium conditions, analysis of trusses and frames, friction, moments of inertia, and applications. Prerequisite(s): ENT 1000 and MTH 1340. Pre/Corequisite(s): PHY 1501. Lab and other fee: $10.00.
(FST) Food Science Technologies

FST 1200 Introduction to Food Processing (3)
Fundamental concepts in food processing, including unit operations, food formulations, identification of major processing equipment, and basic quality assurance techniques. Prerequisite(s): FST 1100. Pre/Corequisite(s): AGR 1100 and ENG 1111. Lab and other fee: $50.00. Certification fee: $90.00.

FST 2400 Food Laws and Regulations (3)
Introduction to laws, regulations, history, and policies that govern food regulation in the United States. Prerequisite(s): FST 2300.

FST 2700 Advanced Topics in Food Science (4)
Development of strategy and policy, industry analysis of product development, and process implementation. Coordination of food science, food processing, marketing, Hazard Analysis and Critical Control Points (HACCP), and food law and regulation. Prerequisite(s): FST 2000 and FST 2300. Corequisite(s): FST 2400. Lab and other fee: $50.00.

(FYE) First Year Experience

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.

(GEO) Geography

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.

(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.

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.
### Call Number: GST 1400
#### Mapping and Georeferencing with GIS (3)
- **Course Description:** 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.
- **Schedule:**
  - **5836**
  - **Call Number:** GST1133
  - **Section:** GT01C
  - **Location:** G128
  - **Time:** 9:00-11:50
  - **Days:** F
  - **Instructor:** Erbacher

### (GPH) Graphic Design
#### GPH 1110 Digital Illustration I (3)
- **Course Description:** Use of 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.
- **Schedule:**
  - **5839**
  - **Call Number:** GPH1110
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 3:00-4:50
  - **Days:** MW
  - **Instructor:** Osbun

### GPH 1112 Typography (3)
- **Course Description:** 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.
- **Schedule:**
  - **5840**
  - **Call Number:** GPH1112
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Smith

### GPH 1201 Electronic Imagery I (3)
- **Course Description:** Basic to intermediate image editing including: scanning, retouching, selections, layers, type, and composite imagery. Adobe Photoshop utilized. Prerequisite(s): ENG 0800 with a grade of C or higher. Lab and other fee: $85.00.
- **Schedule:**
  - **5841**
  - **Call Number:** GPH2101
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 5:30-7:20pm
  - **Days:** MW
  - **Instructor:** Reeder

### GPH 2012 Computer Layout II (3)
- **Course Description:** Advanced layout and design using a variety of layout formats in black and white and/or color. Creative problem solving through the use of thumbnails and computer refined comprehensives. Software: Quark Xpress, Adobe InDesign, Adobe Illustrator, and Adobe Photoshop. Prerequisite(s): GPH 2011. Lab and other fee: $85.00.
- **Schedule:**
  - **5842**
  - **Call Number:** GPH2012
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 1:00-2:50
  - **Days:** MW
  - **Instructor:** Osbun

### GPH 2051 Professional Development (3)
- **Course Description:** Life, career, and educational goals; resume and cover letter; research organization; interviewing skills, discussion of professional image; follow-up letter. Development of an individual portfolio from course work within the graphic design curriculum. Methods of self-promotion for the purpose of seeking employment and free-lance work included. Software: QuarkXPress, Adobe Photoshop, Adobe Illustrator, Adobe InDesign. Prerequisite(s): GPH 2001 and GPH 2111 and GPH 2202 and GPH 2120. Lab and other fee: $165.00.
- **Schedule:**
  - **5843**
  - **Call Number:** GPH2051
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Geist

### GPH 2085 Service Learning Capstone (3)
- **Course Description:** Assemble a design studio, creating work for "real-world" clients. Application of principles, theories, and experiences, establishing learning outcomes, preparing related reports. Prerequisite(s): GPH 2011 and GPH 2111 and GPH 2202 and GPH 2120. Lab and other fee: $85.00.
- **Schedule:**
  - **5844**
  - **Call Number:** GPH2085
  - **Section:** ST01C
  - **Location:** HBC206
  - **Time:** 10:00-11:50
  - **Days:** MW
  - **Instructor:** Dawson

### (HRM) Human Resource Management
#### HRM 1725 Human Resource Management (3)
- **Course Description:** Examination of the human resource functions in the business organization. Ethical and legal considerations, job analysis, recruitment, selection, training and development, performance management, compensation, safety and health, employee and labor relations, and global human resources. Psychological forces motivating workers, discipline, and morale. Pre/Corequisite(s): MGT 1060 or MGT 1120.
- **Schedule:**
  - **5853**
  - **Call Number:** HRM1725
  - **Section:** EE01B
  - **Location:** L123
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Dawson

### GST 1500 Remote Sensing (3)
- **Course Description:** Collection and processing of aerial data; interpretation of aerial photography data. Map analysis. Current technology and Geographic Information Systems (GIS) relationship highlighted. Prerequisite(s): GEO 1000 and MTH 0500 with a grade of C or higher. Lab and other fee: $100.00.
- **Schedule:**
  - **5848**
  - **Call Number:** GST1500
  - **Section:** EE01C
  - **Location:** L123
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Parrillo

### GST 2700 Advanced Topics in Geospatial Technology and GIS (4)
- **Course Description:** Use of geospatial technology in business, science, government, education, and research. Modeling and decision making using spatial data. Legal and ethical aspects. Trends in geospatial technology. Geodatabases. Capstone project. Prerequisite(s): CSD 1300 and CSD 1310 and GST 2100. Lab and other fee: $25.00.
- **Schedule:**
  - **5851**
  - **Call Number:** GST2700
  - **Section:** EE01C
  - **Location:** L123
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Parrillo

### GPH 2012 Computer Layout II (3)
- **Course Description:** Advanced layout and design using a variety of layout formats in black and white and/or color. Creative problem solving through the use of thumbnails and computer refined comprehensives. Software: Quark Xpress, Adobe InDesign, Adobe Illustrator, and Adobe Photoshop. Prerequisite(s): GPH 2011. Lab and other fee: $85.00.
- **Schedule:**
  - **5852**
  - **Call Number:** GPH2012
  - **Section:** GH01C
  - **Location:** A203
  - **Time:** 9:30-11:20
  - **Days:** MW
  - **Instructor:** Parrillo

### HRM 2300 Training and Development (3)
- **Course Description:** Comprehensive study of training and organization development. Includes needs assessment, learning theories, training methods, and evaluation. Application through training program creation and presentation. Online sections require students to record and upload video presentation. Pre/Corequisite(s): HRM 1725.
- **Schedule:**
  - **5751**
  - **Call Number:** HRM2300
  - **Section:** EE01C
  - **Location:** L123
  - **Time:** 8:00-9:50
  - **Days:** MW
  - **Instructor:** Parrillo

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**Notes:**
- Prerequisite(s) are listed for each course as required.
- Lab and other fees are noted for each course.
- Instructor names are provided for each course section.
- Course locations and times are specified for each section.
### HRM 2350 Employment Law (3)
Thorough examination of laws regulating employment relationship, discrimination, harassment, performance, and employment environment. Includes legal concepts and forums, sources of law, and terms and conditions of employment. Pre/Corequisite(s): HRM 1725.

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### HRM 2400 Staffing (3)
Staffing models, recruitment strategies, legal compliance, equal opportunity laws, assessment methods, selection process, and staffing management. Preerequisite(s): HRM 1725.

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### HRM 2450 Compensation and Benefits (3)
Broad study of organizational compensation systems, including legal issues, bases for pay, pay structures, executive compensation, and required and discretionary benefits. Preerequisite(s): HRM 1725.

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### 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.

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### 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.

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### 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 ante-bellum 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.

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### 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.

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### HST 1220 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.

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### (HUM) Humanities

#### HUM 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. Cross-listed with prehistoric age through the Twentieth Century. Prerequisite(s): ENG 0800 with a grade of C or higher. Pre/Corequisite(s): ENG 0900 with a grade of C or higher.

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### (HVC) Heating, Ventilation, and Cooling

#### 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.

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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.

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.

HVC 2010 Residential Gas Heating (4)

HVC 2030 Heat Pump Systems (2)
History of heat pumps, heat pump cycles, air source systems, water source systems, air-to-water systems, and heat pump efficiency ratings. Troubleshooting of air system problems, refrigeration system problems, problem analysis. Prerequisite(s): HVC 1015 and HVC 1110 and HVC 1315. Lab and other fee: $25.00.

HVC 2040 Oil and Hydronic Heat (2)
Oil-fired forced air systems. Types of furnaces, ratings and efficiencies. Oil storage. Primary oil burner controls and oil valves. Oil service: startup, sequence operation, efficiency testing, over-fire draft, smoke testing, efficiency calculations, routine maintenance, and soot management. Troubleshooting oil heating systems. Air handling units, water chillers used in the Heating, Ventilation, Air Conditioning, Refrigeration (HVAC-R) industry, hydronic heating, boilers and cooling towers. Prerequisite(s): HVC 1015 and HVC 1100. Lab and other fee: $25.00.

HVC 2220 Residential Electric Heating (1)
Electric furnaces: applications, air handling units, duct heaters, system components, safety, and heating elements. Troubleshooting components of an electric furnace. Prerequisite(s): HVC 1015 and HVC 1100. Lab and other fee: $25.00.

(INS) Insurance
INS 1050 Property and Liability Insurance Principles (3)
Insurance characteristics and purposes. Types of insurance. Underwriting, determining rates, marketing. Insurance company financial performance, risk management, loss exposure, and insurance contracts. Prerequisite(s): ITS 0800 and ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

INS 1100 Insurance Claims Handling Principles/Practices (3)
Develop and enhance professionalism and skills in handling property-casualty insurance claims. Investigate cause of loss, liability, and damages. Negotiation and litigation techniques in claim settlements. Ability to recognize insurance fraud and ethical situations. 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, and MTH 0500 with a grade of C or higher. Pre/Corequisite(s): INS 1050. Lab and other fee: $0.00.

INS 1111 Customer Service for the Insurance Industry (2)
Develop and enhance professionalism and skills in handling insurance claims. Provide proper customer service to clients and claimants. 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.

INS 1200 Software for the Insurance Claims Industry (1)
Review of computer fundamentals. Use of specialized software for the insurance-claims industry. Prerequisite(s): ENG 0800 with a grade of A, or ENG 0850 with a grade of C or higher with a grade of A, or ENG 0850 with a grade of C or higher. Pre/Corequisite(s): INS 1050.

INS 1325 Property Coverages (3)
Property loss exposure and coverages. Specialized property coverages. Commercial property and business income insurance. Commercial crime and equipment breakdown insurance. Inland, ocean marine, farm, and other specialty coverages. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher. Pre/Corequisite(s): INS 1050.

INS 1400 Property Loss Adjusting (5)
Property loss adjusting with special emphasis on persons/property insurance coverage, causes of loss, loss adjusting process and procedures, fraud, residential construction, preparing estimates (cost estimating software), merchandise/time element loss, auto physical damage, and contractor equipment. 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, and MTH 0500 with a grade of C or higher. Pre/ Corequisite(s): INS 1050. Lab and other fee: $0.00.

(INT) Industrial Technology
INT 1000 OSHA 10-Hour General Safety (1)

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 ENG 0850 with a grade of C or higher. Lab and other fee: $100.00.
INT 1201 Hydraulics and Pneumatics I (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.
5912 INT1201 LP01C HPM502 TBA TBA 20/20 Hatem
5913 INT1201 SP01C SI28 TBA TBA 20/20 Hatem

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.
5914 INT1300 LP01C HPM502 TBA TBA 20/20 Hatem
5915 INT1300 SP01C SI23 TBA TBA 20/20 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.
5916 INT1350 LP01C HPM502 TBA TBA 20/20 Hatem
5917 INT1350 SP01C SI28 TBA TBA 20/20 Hatem

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.
5918 INT1400 LP01C HPM502 TBA TBA 20/20 Hatem
5919 INT1400 SP01C SI28 TBA TBA 20/20 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.
5920 INT2200 SP01C SI28 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.
5921 INT2300 LP01C HPM502 TBA TBA 20/20 Hatem
5922 INT2300 SP01C SI28 TBA TBA 20/20 Hatem

INT 2235 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.
5923 INT2325 SP01C SI28 TBA TBA 20/20 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.
5924 INT2350 LP01C HPM502 TBA TBA 20/20 Hatem

INT 2400 Industrial Machine Maintenance (3)
Skills to troubleshoot machines and system levels. Manufacturer’s documentation and 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.
5925 INT2400 LP01C HPM502 TBA TBA 20/20 Hatem
5926 INT2400 SP01C SI28 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.
5927 INT2500 LP01C HPM502 TBA TBA 20/20 Hatem
5928 INT2500 SP01C SI28 TBA TBA 20/20 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.
5929 INT2510 LP01C HPM502 TBA TBA 20/20 Hatem
5930 INT2510 SP01C SI28 TBA TBA 20/20 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.
5931 INT2520 SP01C SI28 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.
5932 INT2800 LP01C HPM502 TBA TBA 20/20 Hatem
5933 INT2800 SP01C SI28 TBA TBA 20/20 Hatem

(ITS) Information Technology Systems
ITS 0800 Computer Fundamentals (1)
Concepts of computers, operating systems, and network usage. Preparatory course for students with little or no computer background. Graded on an S or U (satisfactory or unsatisfactory) basis. Prerequisite(s): ENG 0800 with a grade of C or higher.
5934 ITS0800 ST01B TLC103 TTH 5:30-7:20pm 20/20 Stemen
**ITS 0810 Keyboarding (1)**
Keyboarding techniques, fingering techniques, development of speed and accuracy on the keyboard. Office ergonomics and basic electronic file management. Prerequisite(s): ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.
5935 ITS0810 ST01C TLC103 MW 4:00-4:50 20/20 Rudd

**ITS 1105 Computer Concepts and Software Applications (3)**
Overview of basic computer concepts, 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. 5936 ITS1105 EE01A (Online Section) 25/25 Whittington
7051 ITS1105 EE01B (Online Section) 25/25 Deltoff
5937 ITS1105 EE01C (Online Section) 25/25 Phillips
5938 ITS1105 EE01D (Online Section) 25/25 Morick
5940 ITS1105 EE02C (Online Section) 25/25 Morick
7052 ITS1105 GH01C G124 W 11:00-12:50 18/18 TBA
ONL TBA TBA TBA TBA
7053 ITS1105 SH01C TLC103 TH 12:30-2:20 20/20 TBA
ONL TBA TBA TBA TBA

**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. 5950 ITS1205 EE01C (Online Section) 25/25 Moeller

**ITS 1210 Keyboarding/Word Processing (2)**
Keyboarding techniques. Development of speed and accuracy. Creating and editing documents using packaged word processing software (Microsoft Word). Strongly recommended for students who have few or no keyboarding skills. 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. 5951 ITS1210 EE01C (Online Section) 25/25 Whittington

**ITS 1235 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. 5956 ITS1235 EE01A (Online Section) 25/25 Moeller
5957 ITS1235 EE01B (Online Section) 25/25 Moeller

**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. 5960 ITS1245 EE01A (Online Section) 25/25 Moeller
5961 ITS1245 EE01B (Online Section) 25/25 Moeller

**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. 5964 ITS1300 EE01C (Online Section) 25/25 TBA

**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. 5965 ITS1500 EE01C (Online Section) 25/25 TBA
7034 ITS1500 EE01D (Online Section) 25/25 TBA
5966 ITS1500 GH01C G216 T 5:30-7:20pm 20/20 TBA
ONL TBA TBA TBA TBA
5967 ITS1500 SH01C L323 W 7:30-9:20pm 20/20 TBA
ONL TBA TBA TBA TBA

**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, and life-long learning. Prerequisite(s): ENG 0800 with a grade of C or higher. Instructor permission required. Lab and other fee: $80.00. 5968 JCR1001 EE01A (Online Section) 25/25 Hennigan

**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. 5969 JCR1003 EE01A (Online Section) 12/12 Hennigan

**JCR 2103 Skill Building III (3)**
Application of writing skills, readback and analysis of shorthand notes, proofreading skills, and quality practice habits. Dictation in literary, jury charge, and two-voice testimony material for development of skill and accuracy in speeds ranging from 90-160 words per minute (wpm). Development of writing skill in multivoice dictation and use of speaker IDs. Application of computer-integrated courtroom setup knowledge. Monitored transcription of speed dictation tests in each of the areas of dictation concentration completed within 70 minutes immediately following recorded dictation. Student analysis of vocabulary, grammar, spelling, and punctuation. Production of two-page unedited realtime transcript of unfamiliar material with accuracy rate of 96 percent. Use of online, computer-aided transcription technology with teacher interaction. Designed for competency-based modular instruction. Prerequisite(s): JCR 1102S or RCR 1202 or IRT 129S. Instructor permission required. Lab and other fee: $100.00. 7408 JCR2103 EE01A (Online Section) 25/25 Hennigan
### JCR 2105 Skill Building V (3)
Implementation of writing skills, readback and analysis of shorthand notes, proofreading skills, and quality practice habits. Dictation in literary, jury charge, and two-voice testimony material for development of skill and accuracy in speeds ranging from 130-200 words per minute (wpm). Development of writing skill in medical terminology. Execution of writing skill in multivoice dictation and use of speaker IDs. Application of current events tools. Transcription of speed dictation tests in each of the areas of dictation concentration completed within 70 minutes immediately following recorded dictation. Student analysis of vocabulary, grammar, spelling, and punctuation. Production of four-page unedited realtime transcript of unfamiliar material with accuracy rate of 96 percent. Use of online, computer-aided transcription technology with teacher interaction. Designed for competency-based modular instruction. Prerequisite(s): JCR 2104S or RCR 2201 or IRT 1305. Instructor permission required. Lab and other fee: $100.00.

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### JCR 2300 CAT Transcript Production (2)
Application of principles of transcript editing and production techniques using computer-aided transcription (CAT) software with a focus on CAT terminology, proper scoring and proofreading skills, applying correct grammar rules, dictionary management, parenthetical creation and application, and template file usage in preparation for employment. Prerequisite(s): JCR 2200 and JCR 2103; or RCR 2245 and RCR 2201; or IRT 231 and IRT 130. Instructor permission required.

### (LPN) Practical Nursing
#### LPN 1101 Nursing Fundamentals (9)
Practical nurse's role and scope of practice, ethical and legal issues. Health maintenance and promotion. Biological and social sciences. Data collection techniques, nursing process, and medical/surgical asepsis. Basic practical nursing skills and safe medication administration. Introduction to IV therapy. Prerequisite(s): ENG 1111 and BIO 1105 and MST 1105. Pre/Corequisite(s): PSY 1111 and LPN 1201 and LPN 1301. Instructor permission required. Lab and other fee: $473.00. Student Liability fee: $20.00.

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#### 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.

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#### LPN 1401 Nursing Care of Adults (9)

#### 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 of 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.

### 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.

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(LSC) Logistics and Supply Chain Management
LSC 1100 Introduction to Supply Chain Management (3)
Basic concepts of logistics, warehousing, transportation, purchasing, inventory management, supplier relationships, strategic sourcing, quality process management, globalization, and customer relationship management.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5987  LSC1100  EE01B (Online Section)  25/25  Hale
7381  LSC1100  SH01C  A203  W  3:30-4:45  25/25  TBA
ONL  TBA  TBA  TBA  TBA
7382  LSC1100  SH02C  A203  W  5:30-6:45pm  25/25  TBA
ONL  TBA  TBA  TBA  TBA

LSC 2100 Purchasing and Supply Management (3)
Purchasing, materials management, supply chain management, and sourcing management perspectives on the core tasks and challenges required to manage the purchasing function within the context of an integrated supply chain. Prerequisite(s): MGT 1060 or MGT 1105 or MGT 1120.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5988  LSC2100  EE01C (Online Section)  25/25  Hale
7383  LSC2100  SH01C  S105  W  12:30-1:45  25/25  TBA
ONL  TBA  TBA  TBA  TBA
7384  LSC2100  SH02C  A203  W  7:00-8:15pm  25/25  TBA
ONL  TBA  TBA  TBA  TBA

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.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5989  LSC2270  EE01C (Online Section)  25/25  Hale
7385  LSC2270  SH01C  A203  W  11:00-12:15  25/25  TBA
ONL  TBA  TBA  TBA  TBA
7386  LSC2270  SH02C  R208  T  7:00-8:15pm  25/25  TBA
ONL  TBA  TBA  TBA  TBA

(MAS) Medical Assisting
MAS 1103 Medical Administrative Office I (2)
Front office administrative duties required of the medical assistant. Telephone and other electronic communication devices, appointment scheduling, the medical record, written communication, filing systems, and basic office management. Ethical and legal issues relevant to the medical office employee. Prerequisite(s): Permission of Program Coordinator. Pre/Corequisite(s): BIO 1105 and ENG 1111 and MST 1101 and MST 1105. Instructor permission required. Lab and other fee: $40.00.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5991  MAS1103  KT01C  X310  F  9:00-9:50  20/20  Harris
LAB  X310  F  10:00-12:40  20/20  Harris
5992  MAS1103  T201C  TLC102  TH  5:30-6:20pm  20/20  Harris
LAB  TLC102  TH  6:30-9:10pm  20/20  Harris

MAS 1104 Exam Room Procedures I (2)
Clinical knowledge, skills, and behaviors expected of medical assistant including therapeutic and professional communication, patient history and exam, anthropometric measures and vital signs, infection control, medical and surgical asepsis, safety and emergency practices, and coping skills. Specialties of pediatrics, otolaryngology, ophthalmology, orthopedics, and dermatology. Prerequisite(s): Permission of Program Coordinator. Pre/Corequisite(s): BIO 1105 and ENG 1111 and MST 1105 and MST 1101. Instructor permission required. Lab and other fee: $75.00.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5993  MAS1104  KT01C  X311  MW  9:30-10:00  20/20  Harris
LAB  X311  MW  10:00-11:20  20/20  Harris
5994  MAS1104  ST01C  A228  MW  5:30-6:00pm  20/20  Harris
LAB  A228  MW  6:00-7:20pm  20/20  Harris

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.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5995  MAS1105  ST01C  TLC102  MW  9:30-10:20  20/20  Harris
LAB  TLC102  MW  10:30-11:15  20/20  Harris

MAS 1106 Exam Room Procedures II (3)
Medication administration and medical office emergencies. Review ECG skills. Specialties of pediatrics, obstetrics and gynecology, otolaryngology, 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.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5996  MAS1106  ST01C  A228  MW  1:00-1:50  20/20  Harris
LAB  A228  MW  2:00-3:15  20/20  Harris

MAS 1112 Pharmacology for the Medical Office (3)
Principles of pharmacology for the medical assistant: sources of drugs, drug classifications, actions, rather and interactions. Dosage calculations. Prerequisite(s): Acceptance to the Medical Assisting Program and MTH 0500 with a grade of C or higher. Instructor permission required.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5997  MAS1112  ST01C  TLC102  TH  9:30-10:45  20/20  Harris

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. Pre/Corequisite(s): MST 1160 and MST 1161. Instructor permission required. Lab and other fee: $75.00.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
5998  MAS1115  ST01C  A228  T  4:00-5:20  20/20  TBA
LAB  A228  TH  4:00-5:20  20/20  TBA

MAS 1117 Medical Assisting Directed Practice (2)
Integration of content and competencies covered in the Medical Assisting certificate program. Two hundred (200) unpaid, supervised clinical hours. Prerequisite(s): MST 1171 and MST 1160 and MST 1161 and MST 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.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
7394  MAS1117  KT01C  X310  TBA  10/10  Harris

MAS 1118 Clinical Perspectives Seminar (1)
Forum for shared learning and problem solving of directed practice experiences. Prerequisite(s): MST 1171 and MST 1160 and MST 1161 and MAS 1105 and MAS 1106 and MAS 1112 and MST 1115. Pre/Corequisite(s): PSY 1111. Corequisite(s): MAS 1117. Instructor permission required. Certification fee: $125.00.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
7395  MAS1118  KT01C  X310  M  8:00-8:50pm  10/10  Harris

MAS 2100 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.
Call#  Course#  Sec  Bld/Rm  Days  Time  Avail Seats  Instructor
7396  MAS2100  KT01C  X310  M  6:00-7:50pm  10/10  Harris
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.

602 MGT1060 EE01A (Online Section) 25/25 TBA
603 MGT1060 EE01B (Online Section) 25/25 TBA
604 MGT1060 EE01C (Online Section) 25/25 TBA
605 MGT1060 EE02C (Online Section) 25/25 TBA
606 MGT1060 GH01C G212 T 9:30-11:20 20/20 TBA
ONL TBA TBA TBA TBA
7312 MGT1060 SH01C L137 M 11:00-12:50 25/25 TBA
ONL TBA TBA TBA TBA
6007 MGT1060 SH02C A114 W 5:30-7:20pm 25/25 TBA
ONL TBA TBA TBA TBA

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

6008 MGT1100 EE01A (Online Section) 25/25 Hale
6100 MGT1100 ST01C L136 T 5:30-6:45pm 25/25 TBA

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.

6012 MGT1105 EE01A (Online Section) 25/25 Ball
6011 MGT1105 EE01B (Online Section) 25/25 Ball

MGT 1115 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.

6014 MGT1115 EE01A (Online Section) 25/25 Ball
7387 MGT1115 EE01B (Online Section) 25/25 Ball

MGT 1120 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.

6015 MGT1120 EE01A (Online Section) 25/25 Ball
6016 MGT1120 EE01B (Online Section) 25/25 Ball
6017 MGT1120 EE01C (Online Section) 25/25 Ball
6018 MGT1120 EE02C (Online Section) 25/25 Ball
6019 MGT1120 GH01C G115A T 5:30-7:20pm 25/25 TBA
ONL TBA TBA TBA TBA
7310 MGT1120 SH01C L137 M 11:00-12:50 25/25 Ball
ONL TBA TBA TBA TBA
7397 MGT1120 SH02C L130 M 5:30-7:20pm 18/18 TBA
ONL TBA TBA TBA TBA

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.

6024 MGT2000 EE01C (Online Section) 25/25 TBA
7398 MGT2000 SH01C TLC127 TH 9:30-10:45 25/25 TBA
ONL TBA TBA TBA TBA
6025 MGT2000 SH02C TLC102 T 5:30-6:45pm 25/25 Davis
ONL TBA TBA TBA TBA

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.

7400 MGT2020 SH02C TLC127 T 7:30-8:15pm 25/25 TBA

MGT 2140 Small Business Management (3)
Small business and entrepreneurship. Decision for self-employment through small business opportunities; business planning, financing, marketing, and management. Integration of functional business courses into a balanced overview of entrepreneurship. Application through activities and projects. Prerequisite(s): ACC 1100 and (MGT 1105 or MGT 1120).

6027 MGT2140 EE01C (Online Section) 25/25 Campbell

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.

6029 MGT2270 EE01C (Online Section) 25/25 Marling
6030 MGT2270 SH01C L137 W 9:30-10:45 25/25 Marling
ONL TBA TBA TBA TBA
7401 MGT2270 SH02C TLC139 T 5:30-6:45pm 25/25 TBA

MGT 2450 Data Analytics (3)
Data mining, analysis, and reporting. Interpretation of results using examples from various industries. Prerequisite(s): MTH 0650 with a C or higher, or MTH 1060, or MTH 1200 and (AGR 1100 or ITS 1105 or ITS 1223 and ITS 1245).

6031 MGT2450 EE01C (Online Section) 25/25 Campbell
7401 MGT2450 GT01C G113 W 5:30-8:10pm 25/25 TBA
ONL TBA TBA TBA TBA
6032 MGT2450 SH01C B117 M 9:00-10:50 20/20 Campbell
ONL TBA TBA TBA TBA
6033 MGT2450 SH02C L303 M 5:30-7:20pm 25/25 Campbell
ONL TBA TBA TBA TBA
MGT 2600 Legal Environment of Business (3)
History of the law, law of contracts, agency, sales, and personal property. The law of negotiable instruments, partnership, corporations, and real property. Pre/Corequisite(s): ENG 1112 or ENG 2211.

6034 MGT2600 EE01C (Online Section) 25/25 Fisher
6035 MGT2600 EE02C (Online Section) 25/25 Fisher
6036 MGT2600 GH01C G115A T 12:30-1:45 25/25 TBA
ONL TBA TBA TBA TBA
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6037 MGT2600 SH01C L137 TH 11:00-12:15 25/25 TBA
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7403 MGT2600 SH02C TLC139 TH 5:30-6:45pm 25/25 TBA
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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. Prequisite(s): MGT 1060 or MGT 1105 or MGT 1120.

6038 MGT2650 EE01C (Online Section) 25/25 Campbell
6040 MGT2650 GH01C G117 M 5:30-6:50pm 25/25 Campbell
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6041 MGT2650 SH01C L130 TH 11:30-12:15 18/18 Campbell
ONL TBA TBA TBA
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6042 MGT2650 SH02C L136 M 5:30-6:45pm 25/25 Campbell
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MGT 2680 Introduction to International Business (3)
Global dimensions of business; an overview of theories and institutions of trade, investment, and management emphasizing the managerial perspective on issues arising from international business and worldwide operations. Prequisite(s): MGT 1060 or MGT 1105 or MGT 1120.

6043 MGT2680 EE01C (Online Section) 25/25 Campbell

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 MKT 2000 and Students must have a minimum of 45 semester credit hours.

6044 MGT2800 EE01C (Online Section) 25/25 Hale
7404 MGT2800 SH01C TLC103 M 9:30-10:45 25/25 TBA
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7405 MGT2800 SH02C TLC127 W 5:30-6:45pm 25/25 TBA
ONL TBA TBA TBA

(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.

6046 MKT2000 EE01C (Online Section) 25/25 Campbell
7518 MKT2000 SH01C TLC139 W 5:30-6:45pm 25/25 TBA
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6049 MKT2000 ST01C L137 TH 9:30-10:45 25/25 Campbell

MKT 2150 Product Management (3)
Overview of product management and the product development process. Overview of a product manager's tasks of market analysis, strategy development, and decision making regarding pricing, advertising, promotion, and distribution. Prequisite(s): MKT 2000 and MGT 1120.

6050 MKT2150 EE01C (Online Section) 25/25 Campbell

MKT 2400 Electronic Business Applications (3)
Electronic business and the unique requirements of conducting business on the Internet. Application of electronic business techniques and tools. Management issues of electronic commerce. Legal, ethical, social responsibility issues. Prequisite(s): (MGT 1105 or MGT 1120) and (ITS 1100 or ITS 1105).

6051 MKT2400 EE01C (Online Section) 25/25 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. Prequisite(s): MKT 2000 or MGT 1120 or Pre/co-req: AGR 2700.

6052 MKT2450 SH01C S115 T 5:30-6:45pm 25/25 TBA
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MKT 2550 Promotion & IMC Strategies (3)
Integrated marketing communication systems, and its tools for communication with internal and external customers, promotion and integrated communication strategies and techniques. Prequisite(s): MKT 2000.

6053 MKT2550 EE01C (Online Section) 25/25 Campbell

MLT) Medical Laboratory Technology
MLT 1130 Clinical Chemistry (3)
Organic chemistry: hydrocarbons (saturated and unsaturated), alcohols, aldehydes, ketones, and carbohydrates. Principles, procedures, quality assurance, and clinical significance of quantitative chemical analysis of body fluids, carbohydrates, lipids, proteins, electrolytes, endogenous toxic substances, blood gases, pH, enzymes, vitamins, hormones, and endogenous toxic substances. Note: The online sections require that exams be taken at approved proctoring sites. Prequisite(s): CHM 1150 and MLT 1120 and MLT 1125 and MLT 1160 and MLT 1165 and MLT 1140 and MLT 1145. Corequisite(s): MLT 1135 and MLT 2130 and MLT 2135. Instructor permission required.

6054 MLT1130 EE01C (Online Section) 24/24 Hom
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<th>Instructor</th>
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<tr>
<td>MLT 1135 Clinical Chemistry Lab (2)</td>
<td>Qualitative chemical analysis of body fluids, carbohydrates, lipids, proteins, electrolytes, endogenous toxic substances, blood gases, pH, enzymes, vitamins, hormones, and exogenous toxic substances. Prerequisite(s): CHM 1150 and MLT 1120 and MLT 1125 and MLT 1140 and MLT 1145 and MLT 1160 and MLT 1165. Corequisite(s): MLT 1130. Instructor permission required. Lab and other fee: $115.00.</td>
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<td>MLT 1140 Medical Microbiology I (2)</td>
<td>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.</td>
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<td>MLT 1145 Medical Microbiology I Lab (2)</td>
<td>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.</td>
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<td>MLT 2130 Medical Microbiology II (2)</td>
<td>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.</td>
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<td>MLT 2135 Medical Microbiology II Lab (2)</td>
<td>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 1145 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.</td>
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<td>MLT 2156 Directed Practice /Seminar (5)</td>
<td>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.</td>
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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. Lab and other fee: $25.00. Student Liability fee: $20.00.

MTH 0500 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; interval 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.
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.

6125 MTH0650 GO01C G216 MW 8:00-9:50 16/16 TBA
6126 MTH0650 GO02C G216 TH 8:00-9:50 16/16 TBA
6127 MTH0650 GO03C G216 F 8:30-12:00 16/16 TBA
6128 MTH0650 GO04C G216 MW 10:00-11:50 16/16 TBA
6129 MTH0650 GO05C G216 T 10:00-11:50 16/16 TBA
6130 MTH0650 GO06C G216 MW 1:00-2:50 16/16 TBA
6131 MTH0650 GO07C G216 MW 3:00-4:50 16/16 TBA
6132 MTH0650 GO08C G216 S 8:30-12:00 16/16 TBA
6133 MTH0650 GO21D G212 MW 2:00-4:15 20/20 TBA
6134 MTH0650 GT01C G118 TTH 5:30-7:20pm 25/25 TBA
6135 MTH0650 KQ01C X310 TTH 8:00-9:50 20/20 TBA
6136 MTH0650 KQ02C X310 TTH 5:30-7:20pm 20/20 TBA
6137 MTH0650 LQ01C HIP07 MW 5:30-7:20pm 12/12 TBA
6138 MTH0650 SQ01C R133 TTH 8:00-9:50 30/30 TBA
6139 MTH0650 SQ02C R133 F 8:30-12:00 30/30 TBA
6140 MTH0650 SQ03C R133 MW 10:00-11:50 30/30 TBA
6141 MTH0650 SQ04C R133 TTH 10:00-11:50 30/30 TBA
6142 MTH0650 SQ05C R133 MW 1:00-2:50 30/30 TBA
6143 MTH0650 SQ06C R133 MW 5:30-7:20pm 30/30 TBA
6144 MTH0650 SQ07C R133 TTH 5:30-7:20pm 30/30 TBA
6145 MTH0650 SQ21D R133 TTH 3:00-5:15 30/30 TBA
6146 MTH0650 ST01C R226 MW 10:00-11:50 25/25 TBA

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.

6147 MTH0750 GT01C G205 TH 2:00-4:20 25/25 TBA
6148 MTH0750 GT02C G114 MW 5:30-7:50pm 25/25 TBA
6149 MTH0750 ST01C R305 TTH 5:30-7:50pm 25/25 TBA
6150 MTH0750 ST02C R316 MW 10:00-3:20 25/25 Howard

MTH 1060 Business Mathematics (3)
Application of fundamental problem solving concepts, techniques, and skills relating to the quantitative aspects of business. Topics covered include bank reconciliations, percentages, simple and compound interest, depreciation, markups, markdowns, trade and cash discounts, sales and property taxes, promissory notes, insurance, loan amortization, mortgages, and business statistics. 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.

6151 MTH1060 EO01A (Online Section) 25/25 TBA
6152 MTH1060 EO01B (Online Section) 25/25 TBA
6153 MTH1060 EO02A (Online Section) 25/25 TBA
6154 MTH1060 EO02C (Online Section) 25/25 TBA
6155 MTH1060 EO03C (Online Section) 25/25 TBA
6156 MTH1060 GO01C G205 TTH 9:30-10:45 25/25 TBA
6157 MTH1060 GO02C G118 MW 8:30-9:45pm 25/25 TBA
6158 MTH1060 GO03C G118 MW 11:00-12:15 25/25 TBA
6159 MTH1060 KT01C X313 MW 11:00-12:15 25/25 TBA
6160 MTH1060 ST01C L136 TTH 9:30-10:45 25/25 TBA
6161 MTH1060 ST02C L136 MW 11:00-12:15 25/25 TBA
6162 MTH1060 ST03C L136 TTH 2:00-3:15 25/25 TBA
6163 MTH1060 ST04C L136 TTH 11:00-12:15 25/25 TBA
6164 MTH1060 ST05C L136 T 5:30-8:10pm 25/25 TBA

MTH 1070 Quantitative Reasoning (3)
Real world mathematical models and decision making for percentages, managing money, statistical literacy, variation, linear and exponential growth and decay, proportion, and voting methods. [Note: Online sections require that exams be taken at an approved proctoring site.] Prerequisite(s): ENG 0800 and MTH 0650 or MTH 0750.

6165 MTH1070 EO01C (Online Section) 25/25 Siriphokha
6166 MTH1070 GO01C G233 TTH 9:30-10:45 24/24 Siriphokha

MTH 1115 Industrial Calculations (3)
Application of mathematical concepts to the design and maintenance of products and processes. Basic concepts in measurement and geometry. Presenting and analyzing data using charts, graphs, algebraic equations, vector diagrams, statistical calculations, and trigonometric relationships. Pre/Corequisite(s): ENT 1000 or ENT 1050 or FYE 1100 and ENG 0800 with a grade of A or ENG 0850 with a grade of C or higher.

6167 MTH1115 LP01C HPM502 TBA TBA 20/20 Hatem
6168 MTH1115 MT01C TBA MW 3:30-4:45 20/20 TBA
6169 MTH1115 SP01C SI28 TBA TBA 20/20 Hatem

MTH 1200 Technical Math for Agriculture (3)
Development and application of practical mathematical principles in agriculture including algebra, geometry, and trigonometry fundamentals with emphasis on applications involving equations, percents, measurements, graphing, and problem solving techniques. Prerequisite(s): ENG 0800 with a grade of C or higher, and MTH 0500 with a grade of C or higher.

6170 MTH1200 ST01J SI15 MW 12:30-2:15 25/25 Drake
MTH 1280 College Algebra (4)
Algebraic expressions, coordinates and graphs, transformation and composition of functions, inverse functions, polynomial and rational functions, complex numbers, synthetic and long division, remainder and factor theorem, exponential and logarithmic functions, systems of equations. [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 0750 with a grade of C or higher.
6171 MTH1280 EE01C (Online Section) 25/25 Anderson
6172 MTH1280 EE02C (Online Section) 25/25 Anderson
6173 MTH1280 GT01C G204 MW 5:30-7:20pm 25/25 TBA
6174 MTH1280 GT02C G127 TTH 7:30-9:50pm 25/25 TBA
6186 MTH1280 ST02C R305 MW 10:00-11:50 25/25 Craineva
6187 MTH1280 ST02C R303 TTH 5:30-7:20pm 25/25 TBA

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, Gauss-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.
6188 MTH1340 GT02C G214 MW 5:30-7:50pm 25/25 TBA
6200 MTH1340 ST01C R226 TTH 9:30-11:20 25/25 Kuehlne

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.
6202 MTH2100 ST01C R219 MW 5:30-7:50pm 25/25 TBA

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.
6212 MTH2200 ST01C R306 TTH 5:30-7:50pm 25/25 TBA

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, 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.
6213 MTH2220 GT01C G204 MW 5:30-7:50pm 25/25 Weaver
6217 MTH2220 ST01C R226 MW 12:00-2:20 25/25 Kuehlne

MTH 2430 Differential Equations (4)
Ordinary differential equations of first order, higher order linear equations, uniqueness and existence of solutions, Laplace transform methods, and series methods. Prerequisite(s): MTH 2220 with a grade of C or better.
7365 MTH2430 ST01C R230 MW 6:00-7:50pm 25/25 Murray

(MTM) Manufacturing Technology Management
MTM 3200 Integrative Manufacturing Technology (4)
6220 MTM3200 SH01A S128 MW 5:30-8:10pm 12/12 Brown

MTM 3300 Quality Management Systems in Manufacturing (4)
6221 MTM3300 SH01B S128 MW 5:30-8:10pm 12/12 Brown

MTM 3400 OSHA 30-Hour General Safety (3)
Comprehensive safety program designed for general industry including directors, foremen, and field supervisors. Employee rights, employer responsibilities, and how to identify, abate, avoid and prevent job related hazards. 30 Hour OSHA card received upon successful completion. Prerequisite(s): MTM 3100. Lab and other fee: $50.00.
6222 MTM3400 EE01C (Online Section) 12/12 Brown

MTM 4300 Manufacturing Innovations (5)
Interdisciplinary approach to solve real employer-identified problems. Research and analysis methodology. Focus on continued growth of leadership roles, communication techniques, systematic problem-solving skills, and critical thinking. Identify how to remedy training gaps in individuals and teams. Understand complex project timelines and their interdependencies. Organizational planning and decision making. Identify cost savings efficiencies. Strategies to foster innovation. Responsibilities in innovation skill-building/leadership. Use of an integrated teaching model, (I-BEST) with manufacturing and business management faculty. Prerequisite(s): PHY 1501. Pre/Corequisite(s): MTM 4000.
7320 MTM4300 SH01A S102C MW 5:30-8:10pm 12/12 Brown

MTM 4400 Advanced Project Management for Manufacturing Processes (4)
Analysis of logistics, product relationships, cost factors, inventory management. Examine International Organization for Standardization (ISO), Development of a process improvement plan. Managing budgets and cost factors, leading project teams, resource allocation, delegation of tasks and how they relate to the manufacturing environment. Team development and ways to enhance team performance through planning and executing a project. Evaluation of employees. Applying management theory at all levels. Use of an integrated teaching model, (I-BEST) with manufacturing and business management faculty. Prerequisite(s): MTM 4300. Lab and other fee: $50.00.
7321 MTM4400 SH01B S102C MW 5:30-8:10pm 12/12 Brown

28
(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.
6232 MUS1130 G01C L113 F 11:00-1:50 25/25 Pencil
6225 MUS1130 ST01C P174 T 5:30-8:10pm 25/25 Pencil

MUS 1151 Applied Guitar I (1)
Private instrument instruction focusing on the fundamentals of instrument performance skills. Thirty minutes of private instruction per week. A minimum of 6.5 hours of practice time required per week. May be taken up to 4 terms. Other fee: $100.00.
7213 MUS1151 ST01A P172C T TBA 10/10 Kotur
7214 MUS1151 ST01B P172C T TBA 10/10 Kotur

MUS 1152 Applied Guitar II (2)
Private instrument instruction focusing on the fundamentals of instrument performance skills. Sixty minutes of private instruction per week. A minimum of 13 hours of practice time required. May be taken up to 4 terms. Other fee: $150.00.
7215 MUS1152 ST01A P172C T TBA 10/10 Kotur
7216 MUS1152 ST01B P172C T TBA 10/10 Kotur

MUS 1161 Applied Voice (1)
Private voice instruction focusing on the fundamental of voice production, song literature interpretation, and performance skill. Thirty minutes of private instruction per week. May be taken up to 4 terms. Lab and other fee: $100.00.
7217 MUS1161 ST01A P172A MTWTH TBA 10/10 Pencil
7218 MUS1161 ST01B P172A MTWTH TBA 10/10 Pencil

MUS 1171 Applied Piano (1)
Individual piano instruction focusing on the fundamentals of piano performance skills. May be taken up to 4 terms. Other fee: $100.00.
7219 MUS1171 ST01A P172A MTWTH TBA 10/10 Pencil
7220 MUS1171 ST01B P172A MTWTH TBA 10/10 Pencil

(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.
6230 NTK1110 GH01A G210 S 8:30-12:30 16/16 TBA
6231 NTK1110 SH01A L115 W 11:00-2:40 16/16 TBA
6232 NTK1110 SH02A L115 W 5:30-9:10pm 16/16 TBA

NTK 1120 Cisco - Scaling Networks (3)
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.
6241 NTK2120 GH01A G210 M 11:00-1:40 16/16 Heighton
6242 NTK2120 GH02A G210 M 5:30-8:00pm 16/16 Heighton
6243 NTK2120 SH01A L113 M 11:00-1:40 16/16 Heighton
6244 NTK2120 SH02A L113 M 5:30-9:10pm 16/16 Heighton

NTK 1121 Convergence Technology I (3)
Convergence technology terms and concepts. Networking fundamentals, TCP/IP networking basics, and merging of voice, and data traffic. 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.
6233 NTK1121 GH01B G210 S 8:30-12:30 16/16 TBA
6235 NTK1121 SH01B L115 W 11:00-2:40 16/16 TBA
6236 NTK1121 SH02B L115 W 5:30-9:10pm 16/16 TBA

NTK 1210 Cisco - Connecting Networks (3)
Advanced network routing and switching concepts and theory. Discussion of Wide Area Networks (WANs) and supporting protocols and structures. Hands-on experience with advanced router setup and configuration. Part of a set of courses covering material for the CCNA certification. Prerequisite(s): NTK 2120. Lab and other fee: $75.00.
6245 NTK2130 GH01B G210 M 11:00-1:40 16/16 Heighton
6246 NTK2130 GH02B G210 M 5:30-8:00pm 16/16 Heighton
6247 NTK2130 SH01B L113 M 11:00-1:40 16/16 Heighton
6248 NTK2130 SH02B L113 M 5:30-8:00pm 16/16 Heighton
### NTK 2212 Linux Server Administration (3)
Hands-on experience with Linux server operating systems. Planning, installing, configuring, managing, optimizing, and troubleshooting. Pre/Corequisite(s): NTK 1110. Lab and other fee: $75.00.

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### NTK 2890 Computer Networking Capstone (3)
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. Pre/requisite(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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### (NUR) Nursing
#### NUR 1110 Dosage Calculation (1)
Systems of measurement and calculation of drug dosage. Note: The online sections require that exams be taken at approved proctoring sites. Prerequisite(s): MTH 0650 or MTH 0750, with a grade of C or higher.

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#### NUR 1130 Basic Nursing Concepts (6.5)
Introduces basic nursing concepts, psychomotor skills, assessment techniques, nursing process, and study skills. Applies concepts of ethics and safety in the care of adults undergoing surgery, experiencing problems of mobility, and experiencing endocrine disorders. Incorporates the principles of evidence-based care, advocacy, caring and learning to promote health in adults within the context of environment. Prerequisite(s): Current Ohio State Tested Nurse Aide (STNA) certification or MST 1181 within 2 years. Pre/Corequisite(s): BIO 2121 and NUR 1110. Instructor permission required. Lab and other fee: $438.00. Student Liability fee: $20.00.

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NUR 1132 Adult Nursing I (6.5)

Applies principles of ethics, safety, and nursing process in the care of adults with fluid and electrolyte, acid/base balance, respiratory, renal and select endocrine 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): NUR 1130 and ENG 1111 and PSY 1111 and BIO 2121 and NUR 1110 or NUR 1120. Pre/Corequisite(s): BIO 2122. Lab and other fee: $181.00.

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 and NUR 1132 or NUR 1135 or NUR 1137. 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.

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**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.

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**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, NUR 1136, Pre/Corequisite(s): BIO 1131. Lab and other fee: $150.00.

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**NUR 2236 Adult Nursing II (6.5)**

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.

**NUR 2239 Adult Nursing III (8)**

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.
### (NWM) New Media

#### NWM 1005 Digital Aesthetics and User Experience (3)
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.

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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 2210 New Media Capstone (3)
New media solutions for local companies or community organizations. Portfolio evaluation and preparation. Prerequisite(s): NWM 1010 and NWM 2000 and NWM 1600 or NWM 1610. Lab and other fee: $175.00.

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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, 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 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 every other week. Pre/Corequisite(s): OAD 2301 and OAD 2302.

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#### OAD 2320 Medical Office Certification Review (1)
Review of electronic health records, medical ethics, and medical coding requirements for credentialing exam. Emphasis on Certified Coding Associate (CCA) and Certified Electronic Health Records Specialist (CEHRS). Certification exams administered within course. This course is offered in a hybrid format that is required to meet every other week. Pre/Corequisite(s): OAD 2301 and OAD 2302. Pre/Corequisite(s): MST 1140. Certification fee: $299.00.

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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.

3672 OAD2703 ST01C TLC103 T 3:30-4:45 25/25 Rude

### (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.

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#### 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.

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#### 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.

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### (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, sound, electricity, electromagnetism (EM) and EM waves, optics, modern physics. Collection, analysis, and reporting of data, problem-solving concepts, and methods of physics. Pre/Corequisite(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.

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#### 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. Pre/Corequisite(s): MTH 1280. Pre/Corequisite(s): ENG 1111 and MTH 1340. Lab and other fee: $55.00.

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#### 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. Pre/Corequisite(s): MTH 1280 and PHY 1501. Pre/Corequisite(s): ENG 1111 and MTH 1340. Lab and other fee: $65.00.

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#### 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. Pre/corequisite(s): PHY 2501. Pre/Corequisite(s): ENG 1112 and MTH 2220. Lab and other fee: $65.00.

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### (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 0800 with a grade of A or ENG 0850 with a grade of C or higher.

 Prä/Co-Prerequisite(s): ENG 0900 with a grade of C or higher.

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

Evolution of world system, state and nonstate actors, intergovernmental organizations, nation-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 contemporary 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 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.

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<td>8:00-9:15</td>
<td>25/25</td>
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<tr>
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<td>11:00-12:50</td>
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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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<td>PSY2218</td>
<td>EE01C</td>
<td>(Online Section)</td>
<td>25/25</td>
<td>Miller</td>
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</table>
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.

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.

4640 PTA2283 ST01B TBA TBA TBA 36/36 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, collaborator 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.

6461 PTA2292 EE01X (Online Section) 25/25 Dinsmore 1/19-2/12

### PTA 2293 PTA Seminar III (1)
Companion course to PTA 2283. Discussion of clinical situations and problem solving; understanding the work setting, and client/coworker 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 2262. Pre/Corequisite(s): PTA 2282 and PTA 2292. Corequisite(s): PTA 2283. Lab and other fee: $40.00.

6462 PTA2293 SH01B TBA TBA TBA 25/25 Dinsmore
LEC TBA TBA TBA Dinsmore

### RES 1100 Real Estate Principles (3)
The 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 grade of C or higher.

6463 RES1100 EE01A (Online Section) 25/25 Knight
6464 RES1100 GT01C G118 S 8:00-10:50 25/25 TBA

### 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 grade of C or higher.

6465 RES1200 EE01A (Online Section) 25/25 TBA
6466 RES1200 EE01B (Online Section) 25/25 TBA
6467 RES1200 GT01C G118 S 11:30-2:20 25/25 TBA

### 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.

6468 RES1300 EE01A (Online Section) 25/25 TBA
6469 RES1300 EE01B (Online Section) 25/25 Alexander
6470 RES1300 GT01A G113 M 5:30-8:10pm 25/25 TBA

### 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.

6471 RES1400 EE01A (Online Section) 25/25 TBA
6472 RES1400 EE01B (Online Section) 25/25 TBA
6473 RES1400 GT01B G113 M 5:30-8:10pm 25/25 TBA

### (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 worldviews: examining political, spiritual, and social systems and economic and cultural traditions. Pre/Corequisite(s): ENG 1111.

6477 SOC1110 EE01C (Online Section) 25/25 Malcuit
6480 SOC1110 EE02C (Online Section) 25/25 Malcuit
6482 SOC1110 EE03C (Online Section) 25/25 Corkern
6483 SOC1110 EE04C (Online Section) 25/25 Thamann
6484 SOC1110 EE05C (Online Section) 25/25 Hall
6485 SOC1110 EE06C (Online Section) 25/25 Malcuit
6486 SOC1110 EE07C (Online Section) 25/25 TBA
6487 SOC1110 EE08C (Online Section) 25/25 Gavin
6488 SOC1110 EE11D (Online Section) 25/25 Gavin
6491 SOC1110 EE12D (Online Section) 25/25 Malcuit
6492 SOC1110 EE13D (Online Section) 25/25 Carmack
6493 SOC1110 EE14D (Online Section) 25/25 Carmack
6489 SOC1110 GT01C G230 TTH 9:30-10:45 25/25 Gavin
6490 SOC1110 GT02C G115A MW 11:00-12:15 25/25 Gavin
6494 SOC1110 GT10D G232 TTH 11:00-12:50 25/25 Gavin
6495 SOC1110 GT10D G115B MW 2:00-3:50 15/15 Hall
6498 SOC1110 KT01C X313 TTH 2:00-3:15 25/25 Hall
6499 SOC1110 KT11D X313 MW 2:00-3:50 10/10 Hall
6496 SOC1110 ST01C R232 MW 9:30-10:45 25/25 TBA
6497 SOC1110 ST02C R315 TTH 9:30-10:45 25/25 Coghlan
6499 SOC1110 ST03C R232 MW 11:00-12:15 25/25 TBA
6500 SOC1110 ST04C R232 TTH 11:00-12:15 25/25 Coghlan
6501 SOC1110 ST05C R232 MW 12:30-1:45 25/25 Malcuit
6502 SOC1110 ST06C R232 TTH 12:30-1:45 25/25 Malcuit
7208 SOC1110 ST07C R232 MW 2:00-3:15 25/25 Corkern
6503 SOC1110 TK11D W202 TH 3:30-8:10pm 25/25 Vernon
7197 SOC1110 ST10D R303 TTH 11:00-12:50 25/25 Coghlan
7198 SOC1110 ST11D R226 MW 2:00-3:50 25/25 TBA
7199 SOC1110 ST12D R232 TTH 2:00-3:50 25/25 Coghlan

### 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.

6504 SOC2220 EE01C (Online Section) 25/25 Corkern
6506 SOC2220 ST01C R316 MW 11:00-12:15 25/25 Corkern
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<th>Days</th>
<th>Time</th>
<th>Avail Seats</th>
<th>Instructor</th>
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<tr>
<td>SOC 2230 Social Problems (3)</td>
<td>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/Co-requisite(s): SOC 1110 and ENG 1111.</td>
<td>6507 SOC2230 EE01C (Online Section)</td>
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<tr>
<td>SOC 2240 Racial and Cultural Minorities (3)</td>
<td>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/Co-requisite(s): ENG 1111 and SOC 1110.</td>
<td>6509 SOC2240 EE01C (Online Section)</td>
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<tr>
<td>SOC 2270 Marriage and Family (3)</td>
<td>Sociological examination of theoretical perspectives related to the institutions of marriage and family. Topics covered include: historical context of family, role of marriage and family in society, socialization, parenting, impact of family on the individual, family issues, family throughout the life course. Variations of global family types and lifestyles among diverse groups examined. Pre-requisite(s): ENG 1111 and SOC 1110.</td>
<td>6510 SOC2270 EE01C (Online Section)</td>
<td>25/25</td>
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</tr>
<tr>
<td>(SPN) Spanish</td>
<td>SPN 1100 Survival Spanish (3)</td>
<td>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 1111, 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. Pre-requisite(s): ENG 0800 with a grade of C or higher.</td>
<td>6512 SPN1100 EE01C (Online Section)</td>
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<tr>
<td>SPN 1112 Beginning Spanish, Course II (3)</td>
<td>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. Pre-requisite(s): SPN 1111 with a grade of C or higher, or demonstrated proficiency in indicated area of study. Pre/Co-requirent(s): ENG 1111.</td>
<td>7255 SPN1112 GT01C G117 MW 8:00-9:15</td>
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<td>STT 2640 Elementary Statistics I (3)</td>
<td>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.] Pre-requisite(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.</td>
<td>6535 STT2640 EE01C (Online Section)</td>
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<td>STT 2650 Elementary Statistics II (2)</td>
<td>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.] Pre-requisite(s): STT 2640 with a grade of C or higher. Lab and other fee: $0.00.</td>
<td>6551 STT2650 EE01A (Online Section)</td>
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### (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.

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#### 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/Co-requisite(s): ENG 0900.

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#### 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.

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#### 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.

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#### 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.

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#### 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.

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### (THE) Theatre

#### THE 1102 Acting Practicum I (1)
Continued acting experience in a live, Clark State Theatre Arts production. Instructor permission required.

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### 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. 6604

### (WDD) Web Design and Development

#### WDD 3300 Web Analytics and SEO (3)
Data research collection, analysis, and reporting to inform the web design process. Search Engine Optimization (SEO) techniques and use of Google Analytics and Google Search Console. Pre/Co-requisite(s): ENG 1111. Lab and other fee: $20.00.

#### WDD 3500 Python for Web Development (3)
Python data structures such as lists, dictionaries, and sets. Object-oriented programming. Use the Internet as a source of data. Scrape, parse, and read web data as well as access data using web APIs. Work with HTML, XML, and JSON data formats in Python. Attention to professional practices, such as using an IDE (integrated development environment), consistent coding styles for readability and maintainability, and version control such as git. Pre/Co-requisite(s): CSD 2521 and STT 2640. Instructor permission required. Lab and other fee: $20.00.

#### WDD 3600 Server-side Programming and Database (3)
Programming on the web server to interact with relational and non-relational database management systems like MySQL and Mongo. Work with and create APIs (Application Programming Interfaces). Create and use a testing environment for web server programming and database development. Pre/corequisite(s): CSD 2521 and CSD 2610 and CSD 2800. Lab and other fee: $20.00.

### WLD Welding

#### 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. Pre/corequisite(s): ENG 0800 with a grade of C or higher. Pre/corequisite(s): AGR 1100 or ENT 1000. Lab and other fee: $150.00.

#### 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 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. Pre/corequisite(s): WLD 1000 or Instructor Permission. Lab and other fee: $150.00. Certification fee: $20.00.

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**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.

**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.