

Spring CLASSES

ZANE STATE COLLEGE

ZSC



REGISTRATION IS NOW OPEN!



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CONTACT: THE ADMISSIONS TEAM
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COURSE FORMAT OFFERINGS

We've color coded these offerings for your convenience throughout this catalog:

 **IN PERSON** – on campus

 **ONLINE** – fully online

 **BLENDED** – in person and online

 **SELECTIVE ENTRY ONLY**

Classes marked OT36 and/or TAG may have transfer guarantees to state institutions in Ohio.
Check transfercredit.ohio.gov.

 **OT36** – Ohio Transfer 36

 **TAG** – Transfer Assurance Guide

*Private institutions often accept these transfer courses as well, but you should check with your institution to be sure. The OT36 is comprised of general education courses and TAG is associated with specific majors/degree programs.

CODES FOR COURSES

ACCT = Accounting
ALTE = Alternative Energy
AMSL = American Sign Language
ARTS = Art History
BIOL = Biology
BMCA = Business Microcomputer Applications
BUSM = Business Management
CHEM = Chemistry
CJUS = Criminal Justice
COMM = Communications
CULA = Culinary Arts
CYBR = Cyber Security
DCMT = Digital Content Media Technology
ECON = Economics
EDUC = Education
EET = Electrical/Electronics Engineering Technology
ENGL = English
ENVS = Environmental Science
FYEX = First-Year Experience
HIST = History
HLTH = Health
HRMG = Human Resources Management
ISET = Industrial Systems Maintenance Technology
ITCS = Information Technology
MATH = Mathematics
MECH = Mechanical Engineering
MEDA = Medical Assisting
NAFS = Natural Field Science
PHIL = Philosophy
PHYS = Physics
POLS = Political Science
POTA = Ohio Peace Officer Training Academy
PSYC = Psychology
SOCI = Sociology
SWKA = Social Work Assistant
THTR = Theater
WILD = Wildlife Conservation

ZANE STATE COLLEGE

ZSC

ACCOUNTING

Financial Accounting ACCT 1010 01

1:00 p.m.-2:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Financial Accounting ACCT 1010 02

1/16/24 - 5/11/24

Financial Accounting ACCT 1010 03

10:00 a.m.-11:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T/B) TAG – OBU010

An introduction to financial accounting. Topics include the nature of business and accounting, the language of accounting, the preparation and analysis of basic corporate financial statements and the impact of simple accounting transactions on financial statements. Accounting principles applicable to income measurement; cash and internal control; investments and receivables; inventories; current and long-term liabilities; operating assets and stockholder's equity are covered. Time-value of money concepts are introduced. Prerequisite: MATH 0995 with a "C" or better or placement into college level math.

Computer-Aided Accounting ACCT 2050 01

3:00 p.m.-4:20 p.m.
Tuesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

An introduction to computerized accounting using QuickBooks Pro accounting software, covering creating a company, working with vendors, customers, banking, correcting and customizing, accounting cycle and using classes, inventory, payroll, working with estimates and time tracking, budgets, closing and adjusting, and reporting. A fee applies to this course. Prerequisite: ACCT 1010 or ACCT 1110.

Managerial Accounting ACCT 2220 01

1/16/24 - 5/11/24

Managerial Accounting ACCT 2220 02

10:00 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T) TAG – OBU011

A study of the gathering and application of information by accountants and managers. Introduces the elements of cost and covers how to plan, make decisions, evaluate performance and control an organization. Prerequisite: ACCT 1010 or ACCT 1110.

Intermediate Accounting II ACCT 2420 01

12:00 p.m.-1:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

A continuation of ACCT 2410 (Intermediate Accounting I). The advanced study of: current liabilities, long-term liabilities, stockholder's equity, dilutive securities, earnings per share, investments, revenue recognition, accounting for income tax, pensions, leases, disclosure, accounting changes, changes in cash flows and analysis of financial statements. Prerequisite: ACCT 2410.

ALTERNATIVE ENERGY

Photovoltaic Energy Systems ALTE 1800 01

8:00 a.m.-5:00 p.m.
Monday-Friday
9:00 a.m.-2:00 p.m.
Saturday
1/8/24 - 1/13/24

(2 credit hours - 1 lecture 2 lab - T)

This course explores the design and installation of solar photovoltaic systems and their applications, both off-grid and on-grid. Topics include: the science of photovoltaic technology, the economics of solar energy, basic photovoltaic systems, a review of electrical concepts, residential and light commercial photovoltaic systems, PV module I-V characteristics, PV module performance ratings and construction as well as environmental effects on performance, PV array characteristics, solar battery operation, charge controller operation, stand-alone and grid-connected PV systems, PV troubleshooting concepts, and site analysis and selection for photovoltaic systems. A fee applies to this course. Prerequisite: Placement into college level math.

DON'T SEE THE COURSE YOU NEED?
CONTACT YOUR ADVISOR OR EMAIL HELLO@ZANESTATE.EDU.

AMERICAN SIGN LANGUAGE

American Sign Language II AMSL 1020 01

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 Lab - B) TAG – OFL025

American Sign Language I is an introduction into the world of deafness. This course focuses on the basics of American Sign Language, the natural language used by deaf individuals and the deaf community. The students will focus on the grammatical structure of ASL and will begin to develop both receptive and expressive skills in ASL. The students will learn the alphabet, numbers, time, colors, how to introduce themselves, exchange personal information, talk about people and family members, descriptive vocabulary, giving and receiving directions, making requests, action words and common sentences and phrases used in everyday situations. Deaf culture, its characteristics and Deaf History will also be discussed. Prerequisite: None.

ART HISTORY

Art History II ARTS 1020 01

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH005 when taken with ARTS 1010

This course is an introduction to major works of Western art from the late Medieval period to the Modern/Contemporary era. Students will become acquainted with some of the most important monuments and images from European and American history and learn key artistic and historical terms, concepts and styles. Material will focus of the influence of historical and cultural context in shaping the production and development of art in different regions. This is a writing-intensive course that will instruct students on how to view, analyze, discuss and write about visual culture. Prerequisite or co-requisite: ENGL 1500.

BIOLOGY

Environmental Science BIOL 1070 01

11:30 a.m.-1:20 p.m.

Monday

11:30a.m.-2:20 p.m.

Wednesday

1/16/24 - 5/11/24

Environmental Science BIOL 1070 02

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - G) OT36 – TMNS; CTAG – CTNRM001

A laboratory science course for non-science majors. Provides an introduction to science, the scientific method, basic biological and ecological concepts and applies these to current environmental issues. A fee applies to this course. Prerequisite: None.

General Biology I BIOL 1210 01

8:30 a.m.-11:20 a.m.

Monday

1/16/24 - 5/11/24

General Biology I BIOL 1210 02

11:30 a.m.-2:20 p.m.

Monday & Wednesday

1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - G) OT36 – TMNS; TAG – OSC003


A study of cellular and molecular biology. This laboratory-based course focuses on life and its classification, scientific method, chemistry of life, cell structure and function, bioenergetics, DNA and proteins synthesis, cell division, principles of inheritance, and evolution. A fee applies to this course. Prerequisite: None.

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Stop by the Financial Aid Office in Student Services, located in College Hall.
Email: financialaid@zanestate.edu | Call: 740.588.5000



General Biology II
BIOL 1220 01

8:30 a.m.-11:20a.m.
Wednesday
1/16/24 - 5/11/24

General Biology II
BIOL 1220 02

11:30 a.m.-2:20 p.m.
Tuesday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - G) OT36 – TMNS; TAG – OSC004

A study of organismal biology and ecology. This laboratory-based course focuses on phylogeny, diversity of organisms, form and function of plants and animals, animal behavior, ecology, and conservation biology. Students perform multiple dissections and conduct a research project. A fee applies to this course. Prerequisite: BIOL 1210.

Zoology
BIOL 1510 01

9:00 a.m.-10:50 a.m.
Monday
8:00 a.m.-10:50 a.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - G) OT36 – TMNS; CTAG – CT-NRM003

A survey of anatomy, physiology, morphology, behavior and the taxonomy of the major animal phyla to provide an introduction to the principles, skills, and applications of biology to students interested in wildlife conservation, and the biological and environmental sciences. The course emphasizes the diversity and evolutionary adaptations of animal groups, taxonomy, general principles in biology, and the process of science. Laboratory investigations include data collection and analysis, examinations of animal anatomy through direct observation and dissection, morphology, and behavior. A fee applies to this course. Prerequisite: None.

Anatomy and Physiology I
BIOL 2400 01

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Anatomy and Physiology I
BIOL 2400 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMNS

An introduction to the study of the structure and function of the human body stressing the chemical basis of life, molecular biology, human tissues, and the interrelation of the skeletal, muscular, and nervous systems. Prerequisites: Grade of "C" or better in BIOL 1210 or permission of the instructor or department director.

Anatomy and Physiology I
BIOL 2410 01

5:30 p.m.-8:20 p.m.
Monday
1/16/24 - 5/11/24

Anatomy and Physiology I
BIOL 2410 02

11:30 a.m.-2:20 p.m.
Tuesday
1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - G) OT36 – TMNS

An introduction to structure and function of the human body stressing the anatomical terminology, cellular and tissue structure and function and the interrelation of the skeletal, muscular, and nervous systems. A fee applies to this course. Prerequisite: Grade of "C" or better in BIOL 1210 or permission of the instructor or department director.

Anatomy and Physiology II
BIOL 2420 01

10:00 a.m.-11:20 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Anatomy and Physiology II
BIOL 2420 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMNS

A continuation of the study of the structure and function of the human body stressing the interrelation of cardiovascular, lymphatic, immune, endocrine, respiratory, digestive, urinary, and reproductive systems. Prerequisites: Grade of "C" or better in BIOL 2400 and BIOL 2410; Co-requisite: BIOL 2430.

Anatomy and Physiology II
BIOL 2430 01

5:30 p.m.-8:20 p.m.
Wednesday
1/16/24 - 5/11/24

Anatomy and Physiology II
BIOL 2430 02

11:30 a.m.-2:20 p.m.
Thursday
1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - G) OT36 – TMNS

A continuation of the study of the structure and function of the human body stressing the interrelation of the cardiovascular, lymphatic, immune, endocrine, respiratory, digestive, urinary, and reproductive systems. A fee applies to this course. Prerequisites: Grade of "C" or better in BIOL 2400 and BIOL 2410; Co-requisite: BIOL 2420.

BUSINESS MICROCOMPUTER APPLICATIONS

Introduction to Windows and Word BMCA 1020 01

1/16/24 - 3/9/24

(1 credit hour - 0 lecture 2 lab - B)

This course covers Microsoft Windows and Word utilizing a hands-on approach. The basics of Windows will be explored as well as how to create a variety of documents in Microsoft Word. Prerequisite: None.

Introduction to Microcomputer BMCA 1050 02

1/16/24 - 5/11/24

(2 credit hours - 1 lecture 2 lab - B)

This course will provide you with an in-depth introduction to the different types of software applications that are used today at home, school and by business and industry. Emphasis will not only be placed on acquiring new skills, but in applying them through the use of a variety of projects and case studies. Prerequisite: None.

(1 credit hour - 0 lecture - 2 lab - B)

This course emphasizes basic keyboarding and skill development using the touch-type method. Prerequisite: None.

EXCEL BMCA 1200 02

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T/B)

This course will introduce you to basic and advanced spreadsheet applications utilizing Microsoft Excel. You will learn to use a spreadsheet to keep track of numerical data by tracking, analyzing and evaluating a variety of financial statements. Excel will also be used as a planning tool by providing different scenarios for impending projects. A fee applies to this course. Prerequisite: None.

Word BMCA 1500 01

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T/B)

A course designed to teach the essentials of Microsoft Word for Windows. Course topics may include basic formatting, working with tabs and indents, page formatting, headers and footers, sections, merging, templates, outlines, report formatting, and graphics. Prerequisite: None.

BUSINESS MANAGEMENT

Principles of Management BUSM 1110 01

1:00 p.m.-2:50 p.m.

Tuesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T/B)

A study of managerial functions including planning, organizing, leading, and controlling; and their implementation by objectives, policies, decision making, authority, executive development, communication, and attitude. Prerequisite: None.

Legal Environment BUSM 1310 01

1/16/24 - 5/11/24

Legal Environment BUSM 1310 02

11:30 a.m.-12:50 p.m.

Tuesday & Thursday

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - B) TAG – OBU004

This course is intended to help students attain a basic understanding of the American legal system particularly as it relates to businesses. The course will introduce the nature and operation of the court system, the legal impact of crimes and torts on businesses, and "private law" - focusing on contracts. Environmental factors such as administrative law, ethics, intellectual property, and e-commerce will be considered. Prerequisite: None.

Small Business Management and BUSM 2070 01

1:00 p.m.-2:20 p.m.

Thursday

1/16/24 - 5/11/24

Small Business Management and BUSM 2070 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - B/T) CTAG – CTENTR001

This course is designed to give the student the fundamentals of managing a small business. A study of starting, managing, and financing a company, with an emphasis on the problems and risks unique to operating a small business. The student will develop a comprehensive business plan using the concepts learned throughout the course. Co-requisites: ACCT 1010 or ACCT 1110 or Permission of Instructor.

International Business
BUSM 2130 01

10:00 a.m.-11:20 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

International Business
BUSM 2130 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

A study of the economic, social, legal, cultural and political considerations of doing business internationally. Explores the role of international monetary systems, investment theory, financial markets and exchange rates. Prerequisite: ACCT 1010.

Financial Management
BUSM 2720 01

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Financial Management
BUSM 2720 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

Corporate structure, forms of business organization, financing through securities, sources of capital, management of assets, administration of income and expenses, expansion and combinations are studied. Prerequisites: ACCT 1010 and BMCA 1200 or permission of instructor.

Real Estate Principles and
BUSM 2730 01

1/16/24 - 3/9/24

(3 credit hours - 3 lecture 0 lab - T)

Basic foundation course in real estate philosophy, theory, economics, and administration. Covers elementary physical, legal, location, and economical characteristics of real estate, real estate markets, and influences on real estate values.

Prerequisite: None.

Real Estate Law
BUSM 2740 01

1/16/24 - 3/9/24

(3 credit hours - 3 lecture 0 lab - T)

Includes eleven legal areas commonly concerned with typical real estate professionals. Among topics covered are law of agency as applied to real estate brokers and salesmen, law of fixtures, estates, conveyances of real estate, mortgages and liens, license laws of Ohio, and zoning. Prerequisite: None.

Real Estate Finance
BUSM 2750 01

3/18/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

Includes institutions, methods, instruments, and procedures involved in financing of real estate, nature, and characteristics of mortgage market. Effects of monetary and fiscal policies on real estate financing considered. Prerequisite: None.

Real Estate Appraising
BUSM 2760 01

3/18/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of the city, neighborhood, site, and property; applied techniques and estimating value from three approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report. Prerequisite: None.

Real Estate Brokerage
BUSM 2770 01

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course expands on BUSM 2730 and includes: specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professionals; Ohio licensing laws and requirements. Prerequisite: None.

CHEMISTRY

Introduction to Chemistry
CHEM 1010 01

8:30 a.m.-11:20 a.m.
Thursday
8:30 a.m.-10:20 a.m.
Tuesday
1/16/24 - 5/11/24

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Introduction to Chemistry

CHEM 1010 02

8:30 a.m.-10:20 a.m.

Monday

8:30 a.m.-11:20 a.m.

Wednesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - G) OT36 – TMNS

This course is an introduction to fundamental chemical concepts with topics including, but not limited to, the metric system, atomic structure, periodic classification of elements, chemical bonds and compounds, mole concept, chemical equations and reactions, stoichiometry, gas laws, solutions, chemical equilibrium, and acids and bases. Co-requisite: MATH 0990 or MATH 0995 or placement into college level math.

General Chemistry I

CHEM 1210 01

11:30 a.m.-2:20 p.m.

Monday & Wednesday

1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - G) OT36 – TMNS; TAG-OSC008

This course focuses on the principles of general chemistry, including measurements and chemical analysis, atomic and molecular structures, chemical formulas and equations, stoichiometry and solution reactions, periodicity, bonding and molecular geometry, states of matter, and thermochemistry. Students will complete lab experiments related to these topics. This course is recommended for students who are pursuing an associate degree in science, engineering, or an allied health related field. A fee applies to this course. Co-requisite: MATH 0990 or MATH 0995 or placement into college level math.

General Chemistry II

CHEM 1220 01

11:30 a.m.-2:20 p.m.

Tuesday & Thursday

1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - G) OT36 – TMNS; TAG-OSC009

This course continues to investigate the principles of college chemistry, including, solutions, chemical equilibrium, acid/base chemistry, biochemistry, and organic chemistry. Students will complete lab experiments related to these topics. This course is recommended for students who are pursuing an associate degree in science, engineering, or an allied health related field. A fee applies to this course. Prerequisite: Grade of "C" or better in CHEM 1210.

CRIMINAL JUSTICE

Civil Liabilities

CJUS 1100 01

2:00 p.m.-3:50 p.m.

Tuesday

1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course provides students with a basic understanding of civil liability. It introduces remedies and risk management techniques to help avoid and mitigate lawsuits aimed at the individual officer/criminal justice agency. Prerequisite: None.

Defensive Tactics

CJUS 1120 01

9:00 a.m.-10:50 a.m.

Friday

3/18/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

This course combines the theoretical and practical aspects of confronting and controlling subjects in a criminal justice capacity. Appropriate levels of force, pre-incident indicators, managing unknown contacts, tactical positioning and physical defense/control techniques will be covered. Prerequisite: None.

Police/Corrections Defensive

CJUS 1150 01

9:00 a.m.-12:50 p.m.

Friday

3/18/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

This course provides a practical driving experience which instructs the student in the safe handling of a motor vehicle in both ordinary and emergency situations. Precision driving is stressed. Prerequisites: No student under the age of 18 years old, valid driver's license.

Investigations

CJUS 1230 01

10:00 a.m.- 12:50 p.m.

Thursday

10:00 a.m.-11:50 a.m.

Tuesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 1 lab - T)

This course is a study of the investigative procedures including; initial contact by the investigator, collection and preservation of evidence, interviews/interrogations, hot and cold information, and case development. Prerequisite: None.



Victimology
CJUS 2080 01

2:00 p.m.-3:50 p.m.
Thursday
1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course is an introduction to the study of criminal/victim relationships with emphasis on specific crimes and the plight of the crime victim throughout history. Prerequisite: None.

Constitutional Law
CJUS 2200 01

10:00 a.m.-11:50 a.m.
Monday
1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course is an enhancement to previous discussions and studies of important United States Supreme Court cases with particular emphasis on corrections and law enforcement. Prerequisite: None.

Firearms
CJUS 2660 01

9:00 a.m.-12:50 p.m.
Friday
1/16/24 - 3/9/24

(2 credit hours - 0 lecture 4 lab - T)

This course is an introduction to shooting fundamentals with an emphasis on safety and nomenclature. Shooting skill sets will be developed employing the revolver, semi-automatic pistol and shotgun. Prerequisites: No student under the age of 18 years old, must complete criminal history check with no disqualifiers.

Seminar in Administration of
CJUS 2770 01

10:00 a.m.-11:20 a.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This is the Criminal Justice Capstone Course which requires students to analyze current issues and problems in the criminal justice system. Students will be required to demonstrate sophomore level academic speaking and writing skills. Prerequisites: None.

COMMUNICATIONS

Interpersonal Communication
COMM 1220 01

11:30 a.m.-12:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Interpersonal Communication
COMM 1220 03

1:00 p.m.-2:20 p.m.
Thursday
1/16/24 - 5/11/24

Interpersonal Communication
COMM 1220 05

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) TAG – OCM002

This interactive course will explore the principles of communication as it pertains to personal and workplace relationships. Perception, culture, listening, and conflict management are among the topics which will be explored. Prerequisite: None.

Public Speaking
COMM 2610 01

11:30 a.m.-12:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Public Speaking
COMM 2610 03

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Public Speaking
COMM 2610 04

10:00 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Public Speaking
COMM 2610 05

8:30 a.m.-9:50 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMCOM; TAG – OCM013

Introduction to public speaking processes which are designed to help individuals communicate effectively in a variety of public speaking situations. This course focuses on developing, organizing, preparing, delivering, and analyzing public presentations. Prerequisite: ENGL 1500.

CULINARY ARTS

Professional Baking CULA 1080 01

8:00 a.m.- 9:50 a.m.
Monday
10:00 a.m.-12:50 p.m.
Monday
1/8/24 - 5/4/24

(3 credit hours - 2 lecture 3 lab - T)

An intensive course covering all fundamentals, principles, and applications of practical bakery food preparation and pastry making. Students will learn the production of international yeast rising bakery products and the chemistry of baking. There will also be a section on the causes of and solutions to common bakery production errors. A fee applies to this course. Prerequisites: CULA 1040 and CULA 1060 or permission of instructor.

Meat Technology CULA 1130 01

8:00 a.m.- 9:50 a.m.
Wednesday
10:00 a.m.-12:50 p.m.
Wednesday
1/8/24 - 5/4/24

(3 credit hours - 2 lecture 3 lab - T)

An introduction to all food service aspects of dealing with meat including grading, inspection, storage, butchery, and basic methods of meat preparation. The student will become familiar with different cuts of the animal and with a variety of meat including red meat, white meat, fish, poultry, and game. A fee applies to this course. Prerequisite: CULA 1040.

Nutrition and Menu Planning CULA 1140 01

1:00 p.m.-2:50 p.m.
Monday
1/8/24 - 5/4/24

(2 credit hours - 2 lecture 0 lab - T)

Students will learn the characteristics of the major nutrient groups, their relationship to diet and health, and the foods in which they are found. Students will apply these principles to creating menus, marketing, food purchasing, and preparation to meet the nutritional needs and tastes of consumers both in private and public sectors. Prerequisite: CULA 1040.

Garde-Manger CULA 2180 01

8:00 a.m.- 9:50 a.m.
Tuesday
10:00 a.m.-12:50 p.m.
Tuesday
1/8/24 - 5/4/24

(3 credit hours - 2 lecture 3 lab - T)

The student will demonstrate preparation and presentation of cold foods, ice carvings, classical preparations of specialty foods, and buffet preparation. Students will become familiar with and be able to prepare nutritional cold foods, hot hors d'oeuvres, sausages, and truffles, as well as demonstrate correct carving of fruits and vegetables. A fee applies to this course. Prerequisites: CULA 1200 and CULA 2060.

Food Service Management CULA 2220 01

8:00 a.m.-10:50 a.m.
Thursday
1/8/24 - 5/4/24

(3 credit hours - 3 lecture 0 lab - T)

Provides the advanced student practical details related to all aspects of setting up and running a restaurant, cafeteria, or institutional food service operation. Included will be training related to basic management principles, and practices of successful food service operations purchasing and inventory management, facility design, standardized recipes, cost control techniques, food handling for health and safety, and employee management. Prerequisite: CULA 1200 field experience or with permission of instructor.

CYBERSECURITY

Security Compliance CYBR 2300 01

1/16/24 - 3/9/24

(3 credit hours - 3 lecture 0 lab - T)

This course focuses on enterprise-level information security compliance. It focuses on how to identify and implement a system of controls for security governance and regulatory compliance as well as how to plan and conduct IT audits. Prerequisite: Grade of "C" or better in CYBR 1300.

DON'T SEE THE COURSE YOU NEED?
CONTACT YOUR ADVISOR OR EMAIL HELLO@ZANESTATE.EDU.

Introduction to Cisco Networking CYBR 1200 01

1/16/24-3/9/24

(3 credit hours - 2 lecture 3 lab - T)

This course introduces fundamental networking concepts and technologies. The online course materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. Topics include: exploring the network, configuring a network operating system, network protocols and communications, network access, Ethernet, the OSI model and its layers, IP addressing, and subnetting IP networks. This course maps to Cisco Systems' first CCNA course. A fee applies to this course. Prerequisite: None.

Security+ CYBR 1300 0

1/16/24-3/9/24

(3 credit hours - 2 lecture 3 lab - T) CTAG – CTIT015

This course offers in-depth coverage of the current risks and threats to an organization's data, combined with a structured way of addressing the safeguarding of these critical electronic assets. The course provides a foundation for those responsible for protecting network services, devices, traffic, and data. Additionally, the course provides the broad-based knowledge necessary to prepare students for further study in other specialized security fields. It is also intended to serve the needs of individuals seeking to pass the Computing Technology Industry Association's (CompTIA) Security+ certification exam. A fee applies to this course. Prerequisite or co-requisite: CYBR 1200, ITCS 1010 or ITCS 2510.

Penetration Testing CYBR 2000 01

3/18/24-5/11/24

(3 credit hours - 2 lecture 3 lab - T)

The goal of this course is to help the student master an ethical hacking methodology that can be used in penetration testing or ethical hacking situations. A fee applies to this course. Prerequisite or co-requisite: CYBR 1200, ITCS 1010 or ITCS 2510.

Cisco Routing and Switching CYBR 2200 01

3/18/24-5/11/24

(3 credit hours - 2 lecture 3 lab - T)

This course is a continuation of the material learned in CYBR 1200. It continues to introduce students to the first half of the CCNA curriculum as provided by Cisco Systems, Inc. The goal of this course is to learn fundamental networking concepts and technologies. The online course materials will assist in developing the skills necessary to plan and implement small networks across a range of applications. Topics include: switched networks, basic switching concepts and configuration, VLANs, routing concepts, inter-VLAN routing, static routing, routing dynamically, Single-Area OSPF, access control lists, DHCP, and NAT for IPv4. A fee applies to this course. Prerequisite: Grade of "C" or better in CYBR 1200.

Incident Response and Disaster Recovery CYBR 2400 01

1/16/24-3/9/24

(3 credit hours - 3 lecture 0 lab - T)

This course provides the student with a foundation in disaster recovery principles, including preparation of a disaster recovery plan, assessment of risks in the enterprise, development of policies, and procedures, and understanding of the roles and relationships of various members of an organization, implementation of the plan, and recovering from a disaster. Prerequisite: CYBR 1200 or CYBR 1300.

Digital Forensics CYBR 2600 01

3/18/24-5/11/24

(3 credit hours - 2 lecture 3 lab - T)

This course introduces the student to the fundamental concepts of digital forensics. Digital evidence is used in proving or disproving allegations in civil or criminal cases. Labs using primarily open source, free software and a variety of hardware reinforce the concepts discussed. Prerequisite or co-requisite: CYBR 1200, ITCS 1010 or ITCS 2510.

DIGITAL MEDIA CONTENT

Graphic Design DCMT 1020 01

11:00 a.m.-1:20 p.m.

Monday & Wednesday

1/16/24 - 5/11/24


(3 credit hours - 2 lecture 3 lab - T/B) CTAG – CTGRPH001

This course covers the fundamental principles of design and how these relate to effective communication. It explores the media and tools used to create imaging and how these tools are integrated into the image-making process. Topics include conceptual design, critical thinking in the creation of practical design, how design relates to business, human perception and the visual process. A fee applies to this course. Prerequisite: None.



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 = In Person  = Online  = Blended  = Selective Entry Only

Presentation and Collaboration Management
DCMT 1125 01

1/16/24-3/9/24

(1 credit hour - 1 lecture 0 lab - T)

Plan and prepare powerful presentations that engage an audience. Students will utilize a number of current collaboration suites, including but not limited to WebEx, Zoom, and Microsoft Teams. Techniques for in-person and online presentations are emphasized. Prerequisite: None.

Digital Storytelling
DCMT 1130 01

1:00 p.m.-3:20 p.m.

Tuesday & Thursday

1/16/24 - 3/9/24

(3 credit hours - 2 lecture 3 lab - T)

Students will explore cohesive writing and design strategies to engage a target audience based on the content medium and platform. Prerequisite: None.

Digital Photography
DCMT 1440 01

1:00 p.m.-3:20 p.m.

Tuesday & Thursday

3/18/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

The techniques of digital photography will be covered. These include an overview of digital cameras, capturing an image with a digital camera, exposure, aperture, shutter speed, lenses, filters, lighting, use of flash, composition, and digital work flow. The language of digital imaging and digital techniques will be discussed. A fee applies to this course.

Prerequisite: DCMT 1020.

Video Capture
DCMT 2040 01

8:30 a.m. - 10:50 a.m.

Monday & Wednesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T) CTAG – CTIM006

Develops skills in developing, acquiring, and manipulating video and sound to be integrated into computer-based multimedia applications. Students will learn and practice the fundamentals of sound recording and video capture. A fee applies to this course.

Prerequisite: DCMT 1020.

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Live Streaming and Production
DCMT 2310 01

8:30 a.m.-10:50 a.m.

Tuesday & Thursday

1/16/24 - 3/9/24

(3 credit hours - 2 lecture 3 lab - T)

This course is an exploration of consumer and professional technology utilized in broadcasting digital content. Student will be able to stream video, sound, and content to various platforms including but not limited to social media. An emphasis will be placed on live production requirements while also scaling the setup and equipment accordingly. Prerequisite: None.

Emerging Media Technologies
DCMT 2320 01

8:30 a.m.-10:50 a.m.

Tuesday & Thursday

3/18/24 - 5/11/24

(3 credit hour - 2 lecture 3 lab - T)

This course explores emerging trends and technologies in digital content creation. This includes but is not limited to topics such as augmented reality, virtual reality, 360-degree photos, and 360-degree videos. An exploration of social media trends and metrics measuring the engagement of audiences is covered. Prerequisite: None.

ECONOMICS

Microeconomics
ECON 1510 01

1:00 p.m.-2:20 p.m.

Thursday

1/16/24 - 5/11/24

Microeconomics
ECON 1510 02

8:30 a.m.-9:50 a.m.

Monday & Wednesday

1/16/24 - 5/11/24

Microeconomics
ECON 1510 03
1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS004

Fundamentals of microeconomics: a study of the individual firm and how it allocates resources, prices goods and services, and organizes itself to meet competition. Focuses on the behavior of customers and supplies in the marketplace which affects the kinds of goods and services produced and consumed through an understanding of demand and supply schedules, elasticity and subdivision, fixed, variable, marginal, and total revenue, and profit maximization. Prerequisite: None.

Macroeconomics
ECON 1520 01
1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS005

A study of the overall performance of an economy of a society as a whole entity. Alternative economic systems are explored and macroeconomics studies the various mechanisms a society can use to allocate scarce resources. Prerequisite: None.

EDUCATION

Observation and Assessment
EDUC 1110 01

9:30 a.m.-11:20 a.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 1 lab - T)
This course includes study of authentic and formal assessment tools used in the P-12 setting. Emphasis is placed on the development of observation skills through the study of types of observations, reliability testing, objective reporting, portfolio development, and use of observation findings. Prerequisite: EDUC 1010.

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Early Childhood Literacy
EDUC 1250 01
1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course studies the development of language, writing, and reading in 0–8-year-olds. Emphasis is placed on the knowledge and skills needed to encourage literacy development. Prerequisite: EDUC 1010.

Classroom Mathematics
EDUC 1350 01

8:00 a.m.-9:20 a.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

A study of the nine strands of mathematics and math curriculum scope and sequences for children 2-8 years of age occurs in this course. Content focuses on the process of learning mathematics and the skills necessary for the P-12 professional to assist with learning. Prerequisites: EDUC 1010 with a grade of "C" or better and placement into MATH 0990 or MATH 0995 or college level math.

Behaviors and Transitions
EDUC 2030 01

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course explores assessment and diagnosis of behavior disorders P-12. Focus is given to pro-social behaviors and the role of the education paraprofessional in the process. Attention is also given to the role of the paraprofessional (P-12) in the classroom. Transitions from P to K and high school to adulthood are discussed. Prerequisite: EDUC 1450.

Family School and Community
EDUC 2110 01

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T) TAG – OED011

Study of educational considerations for teachers including the policies, theories, practices, skills, and knowledge of home, school, and community partnerships. Emphasis is placed on examining the multiple influences on the whole child; accessibility of community services and supports; ethical, practical, and culturally competent decisions to foster family engagement; knowledge and skills needed to address family structure, socio-cultural and linguistic backgrounds, identities and customs, and advocacy for children and families. Prerequisite: EDUC 1010.

High and Low Incidence EDUC 2450 01

1/16/24 - 5/11/24

(4 credit hours - 4 lecture 0 lab - T)

Candidates experience an exploration of the IDEA identified diagnoses ranging from mild to severe. Emphasis is given to federal statutory definitions and assistive technology related to these disabilities. Prerequisite: EDUC 1450.

Professionalism in Education EDUC 2720 01

1/16/24 - 5/11/24

(1 credit hour - 1 lecture 0 lab - T)

This course is the capstone course for the ATED program, designed to provide the student with the opportunity to gain the skills necessary to successfully enter the field of education. Attention is given to building a resume, a portfolio, interviewing, networking, obtaining a license, and general professionalism in the work place. Prerequisites: EDUC 1090 and EDUC 1830.

ELECTRICAL/ELECTRONICS ENGINEERING TECHNOLOGY

Electronic Devices EEET 1130 01

6:00 p.m.-8:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Electronic Devices EEET 1130 02

11:30 a.m.-2:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Electronic Devices EEET 1130 03

11:30 a.m.-2:20 p.m.
Monday & Thursday
1/16/24 - 5/11/24

Electronic Devices EEET 1130 04

11:30 a.m.-2:20 p.m.
Monday
2:30 p.m.-5:20 p.m.
Tuesday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - T) TAG – OET005

Introduction to the theory and operation of common semiconductor devices including rectifier diodes, zener diodes, SCRs, UJT's, triacs, diacs, bipolar transistors, JFETs, MOSFETs, op-amps, LEDs, seven-segment displays, photoelectric devices, phototransistors, optoisolators, single-phase, three-phase, and pulse-width modulated power supplies, integrated circuit amplifiers, and solid-state relays. Prerequisite: EEET 1110.

A.C. Circuit Analysis EEET 1230 01

11:30 a.m.-2:20 p.m.
Tuesday & Wednesday
1/16/24 - 5/11/24

A.C. Circuit Analysis EEET 1230 02

11:30 a.m.-2:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

A.C. Circuit Analysis EEET 1230 03

2:30 p.m.-5:20 p.m.
Thursday
1/16/24 - 5/11/24

A.C. Circuit Analysis EEET 1230 04

11:30 a.m.-2:20 p.m.
Tuesday
6:00 p.m.-8:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - T) TAG – OET003

Voltage and current phase relationships in R-L-C series, parallel, series-parallel single-phase and three-phase circuits. Other topics include apparent power, real power, VARs, power factor, and delta- and wye-connected circuits, voltage and current relationships in single-phase and three-phase transformers including kVA rating. The generation, transmission, and distribution of three-phase power will be introduced in the classroom and reinforced by a tour of a local power generating station and substation. Types of oscillators, filters, resonance, frequency response, tank circuits, Bode plots, and amplitude and frequency modulation are introduced. Prerequisite: EEET 1110; Co-requisite: MATH 1250.



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**Programmable Logic Controllers
EEET 2510 01**

6:00 p.m.-8:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

**Programmable Logic Controllers
EEET 2510 02**

11:30 a.m.-2:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

**Programmable Logic Controllers
EEET 2510 03**

2:30 p.m.-5:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - T) TAG – OET002; CTAG – CTEET002

An introduction to digital electronics including a study of binary, hexadecimal, and octal numbering systems; common TTL and CMOS logic gate functions and electrical characteristics; the use and interpretation of a manufacturer's TTL and CMOS data manuals; consistent logic symbology; Boolean Algebra; DeMorgan's Theorem; and Karnaugh Mapping. Other integrated circuits studied include flip-flops, synchronous and asynchronous counters; drivers and buffers; decoders and encoders; digital displays; multiplexers and demultiplexers; arithmetic circuits; shift registers; RAM and ROM memory devices, memory mapping, and memory decoding; D/A and A/D converters; and microprocessors, microcomputer architecture, and the basics of microcomputer system organization.
Prerequisite: EEET 1130.

**Electronics Technician Certification
EEET 2600 01**

8 a.m. – 5 p.m.
Monday - Thursday
3/11/24-3/14/24

(2 credit hours - 2 lecture 0 lab - T)

This course is a review of the core elements of electronics, of which EEET students should have knowledge and is intended for students who are seeking the status of Certified Electronics Technician, Associate Level, with The Electronics Technicians Association International. Topics include safety precautions, basic math used in electronic service, decibels, DC and AC circuits, capacitance, inductance, transformers, filter circuits, generators, alternators, motors, electronic components, semiconductors, discrete Solid State circuits, electronic power supplies, amplifiers, basic radio, radio frequency signal propagation, common frequencies, transmitters, basics of telephone, digital concepts, gates, logic circuits, computer basics, microprocessors, basic diagnostic techniques, test equipment, soldering, desoldering, printed circuit board repair, hand tools, recordkeeping, productivity calculation, personal behavior, and technical writing.
Prerequisite: EEET 2150 and EEET 2450.

**ELECTRICAL ENGINEERING IN
PROTECTION AND CONTROL**

**Substation Design and
EEET 3300 01**

6:00 p.m.-9:50 p.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

The student will be able to perform a physical identification of all components in a substation including the control house. This course focuses on electric substation installation and operation of equipment for changing voltage, switching circuits, regulating output levels, interrupting faults, and providing communication and control functions. Prerequisite: EEET 3200.

**Three-Phase Circuit Phasor Analy
EEET 3340 01**

6:00 p.m.-8:50 p.m.
Thursday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

Circuit analysis of wye-wye, delta-delta, delta-wye, wye-delta transformer connections to wye or delta loads and the determination of all line-to-line voltages, phase-to-ground voltages, line currents and phase currents in mathematical and graphical form including the effect of faults, lightning strikes, motor loads, and power factor correction capacitors on the voltage and current waveforms phase shift and amplitudes. Topics include instrument transformer theory and applications, sizing instrument transformers, wiring transformers, meter installations, and electronic meter functionality. Co-requisite: MATH 2510.
Prerequisite: EEET 3100.

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Generation, Transmission, and EEET 3400 01

6:00 p.m.-7:50 p.m.
Wednesday
1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course provides a high-level description of the process of fueling power plant generators including nuclear, coal, natural gas, and hydro as well as integrating power from solar and wind farms to the grid and coverage of the technologies required to implement. A broad understanding of what transmission voltages are and how the transmission voltages vary from point to point and the methodology to keep control of the electrical energy. Also, the role of generation dispatchers, transmission dispatchers, distribution dispatchers, station electrician, P&C technicians and technologists, meter electricians, ICE techs, engineers, and designers will be included. How voltages and currents are changed from the power plant, over the transmission lines, to the substations, and to the residential and commercial customers while maintaining a stable power supply. Prerequisite: EEET 3000.

High Voltage Power Circuit EEET 3450 01

6:00 p.m.-7:50 p.m.
Tuesday
1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course introduces the fundamentals of high voltage power circuit breakers used in the electrical utility industry with emphasis on function and criticality. Topics include understanding the various designs and interrupting mediums, how circuit breakers interrupt fault currents, Sulfur Hexafluoride gas (SF₆), breaker timing, commissioning (including power factor testing) and maintenance. Upon completion, students should be able to identify various types of circuit breakers, interpret nameplate information, and perform various tests on these devices. Prerequisite: EEET 3000 and EEET 3250.

Metering and Energy Management EEET 4200 01

6:00 p.m.-7:50 p.m.
Tuesday
1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

This course provides students with knowledge of modern electric metering theory, application, and safety, together with an understanding of electric energy use and conservation management. Prerequisite: None.

Industrial Equipment Protection EEET 4300 01

6:00 p.m.-8:50 p.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

This course provides advanced studies of protective relaying and includes single and three-phase metering principles, meter construction, and component parts. Upon completion, students should be able to describe and test overcurrent schemes, transformer differential schemes, and motor protection schemes. Perform arc flash calculations. Specify, select, and supervise the installation of switchgear including circuit breakers for large, complex power distribution and control. Prerequisite: None.

Protective Relaying II EEET 4400 01

6:00 p.m.-8:50 p.m.
Monday & Thursday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - T)

This course is a continuation of EEET 4100. Upon completion of the course, the student will be able to design, implement, and complete test and check out for a complex relay system including both electromechanical and digital relays. This subject will also include fault analysis and symmetrical components (zero sequence, positive sequence, and negative sequence). Perform relay coordination settings calculations. Prerequisite: EEET 4100.

Protection and Control Capstone EEET 4500 01

5:00 p.m.-5:50 p.m.
Monday, Tuesday, Wednesday, and Friday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

Students will acquire project management skills through this course by completing a team design project in which they will design, build, program, test, and checkout a simulated relay network that provides real time data via SCADA, alarming functions for system anomalies, and automatic control based on system constraints provided by the project deliverables. Co-requisites: EEET 4350 and EEET 4400.

ENGLISH

Studio 1500 **ENGL 0990 01**

11:30 a.m.-12:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - V)
Students will learn to read and analyze complex texts, use the writing process to develop a topic and organize ideas, improve research skills, and respond to writing prompts.
Prerequisite: Placement into ENGL 0990 or a "D" in ENGL 0980.

Composition I **ENGL 1500 01**

10:00 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Composition I **ENGL 1500 02**

10:00 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Composition I **ENGL 1500 03**

11:30 a.m.-12:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Composition I **ENGL 1500 04**

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TME001
This course emphasizes the writing and revising process with essay mastery as the primary goal. Students read literary examples as models and write in descriptive, narrative, expository, persuasive, and poetic modes. A research essay written in APA style is a requirement to successfully complete this course. Prerequisites: Placement into ENGL 1500 or a grade of "C" or better in ENGL 0980; word processing knowledge is necessary.

Composition II **ENGL 2500 01**

10:00 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Composition II **ENGL 2500 02**

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Composition II **ENGL 2500 03**

11:30 a.m.-12:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Composition II **ENGL 2500 04**

1/16/24-5/11/24

Composition II **ENGL 2500 05**

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TME002
Students will employ the writing process introduced in Composition I. Composition II emphasizes the development of rhetorical skills for literary analysis, critical appraisal, and academic research. Students will read literary texts and create several expository and persuasive essays.
Prerequisite: ENGL 1500.

British Literature since 1780s: **ENGL 2520 01**

10:00 a.m.-11:20 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH056

This survey course introduces students to a broad range of British literature (print and film) involving works from the Early Romantic Period up to the present day. The works studied will include novels, short stories, poetry, and drama. By reading and analyzing these works, students will learn about various themes, conventions, literary movements, and historical events during this time period and will also strengthen their critical thinking skills. Writers studied will include Wordsworth, Dickens, Blake, Shelley, Austen, Yeats, and Heaney. Prerequisite: Grade of "C" or better in ENGL 1500.



**CHECK WITH YOUR ADVISOR
ABOUT WHAT'S REQUIRED FOR ADMISSION
TO SELECTIVE HEALTH PROGRAMS.**

**Professional Writing
ENGL 2800 01**

10:00 a.m.- 11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

**Professional Writing
ENGL 2800 02**

10:00 a.m.- 11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

**Professional Writing
ENGL 2800 03**

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

**Professional Writing
ENGL 2800 05**

11:30 a.m.-12:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

**Professional Writing
ENGL 2800 06**

10:00 a.m.-11:20 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TME002; TAG – OBU005

This course strengthens students' composition skills and introduces them to workplace writing including layout and design, graphics, reports, summaries, memos, letters, and job search documents. Students analyze and synthesize data, practice oral and small group communication, and create a professional writing portfolio. Writing these documents will require students to analyze audience, situation, and context and respond appropriately. Prerequisite: ENGL 1500.

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ENVIRONMENTAL

**Drinking Water Treatment
ENVS 2710 01**

5:30 p.m.-7:20 p.m.
Monday
5:30 p.m.-8:20 p.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

This course provides background information necessary for the State of Ohio Class I Water Operator. Emphasis is placed on both theory and design aspects of the major treatment techniques, operations problems, laboratory analysis, and issues specific for drinking water treatment. A fee applies to this course. Prerequisite: None.

FIRST YEAR EXPERIENCE

**Academic Recovery
FYEX 0990 01**

2:30 p.m.-3:20 p.m.
Tuesday
1/16/24 - 5/11/24

(1 credit hour - 1 lecture 0 lab - V)

Learn about college policies, procedures, and expectations in order to be readmitted as a full-time student. Create an action plan for successful continuance at the College. Examine previous behavior and set goals to improve college success. Prerequisite: None.

**First Year Success Strategies
FYEX 1010 01**

9:00 a.m.-9:50 a.m.
Monday
1/16/24 - 5/11/24

**First Year Success Strategies
FYEX 1010 02**

3:30 p.m.-4:20 p.m.
Wednesday
1/16/24 - 5/11/24

(1 credit hour - 1 lecture 0 lab - B)

Familiarizes students with the college campus, academic divisions and program faculty, computer resources, student-related policies and procedures, and student support services. Assists with financial planning for college. Teaches effective planning and time management strategies and efficient study strategies. Examines the relationship of personal characteristics and motivation to education and career planning. Explains the various course formats. Guides students' development of an individualized first-year academic plan. A fee applies to this course. Prerequisite: None.

Introduction to Online Learning

FYEX 1100 01

1/8/24 - 1/14/24

(1 credit hour - 1 lecture 0 lab - B)

This orientation course will help students gain the skills necessary to learn well in an online environment. The course will introduce students to the essential tools necessary to access course materials, communicate with classmates and instructors, submit homework, take tests, and check grades. At the start of any journey, it is important that students start off on the right foot, have a sense of where they are going, and make sure all of their equipment is ready for the long haul. In this course, students will find the learning outcomes for the course, a course menu legend to help plot their way through the lessons, hardware and software requirements to ensure a smooth journey, and any necessary browser plug-ins. Prerequisite: None.

HEALTH

The Health Care System: Issues and Professions

HLTH 1050 01

1/16/24-5/11/24

(2 credit hours - 2 lecture 0 lab - B)

HLTH 1050 is an introduction to the health care system and various allied health professions. Students explore such topics as the evolution of medicine and technology, medicolegal issues, patient rights, and acceptable behavior in the healthcare arena. Prerequisite: None.

Medical Terminology

HLTH 1210 01

1/16/24-5/11/24

(2 credit hours - 2 lecture 0 lab - T/B) TAG – OHL020; CTAG – CTMT001

HLTH 1210 provides a study of the vocabulary used by medical personnel. Basic prefixes, suffixes, root words, and combining vowels are emphasized as the foundation for mastery. Prerequisite: None.

Disease and the Disease Process

HLTH 1730 01

1/16/24-5/11/24

(2 credit hours - 2 lecture 0 lab - B)

HLTH 1730 provides an introduction to human diseases and various disabling conditions. It covers etiology, symptoms, diagnosis and various interventional approaches. This course reinforces and builds upon content of other allied health courses in preparation for more in-depth technical allied health coursework. Prerequisites: BIOL 2400 and BIOL 2410.

ZANE STATE COLLEGE



HEALTH INFORMATION MANAGEMENT

Clinical Classification Systems I

HIMT 1500 01

1/16/24-5/11/24

(4 credit hours - 4 lecture 0 lab - T)

Introduction to the nomenclature classification and indexing systems utilized in coding outpatient diagnoses using the current edition of International Classifications of Disease. Topics include coding conventions, coding principles, and official outpatient coding guidelines. Coding compliance, the physician query process, and reimbursement systems are also discussed. Prerequisites: BIOL 2400 and HLTH 1210.

Basic Pharmacology and Pathophysiology

HIMT 2110 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - B)

Introduction to the basic concepts underlying various pathological processes. Students will draw on their knowledge of normal anatomy and physiology to understand how pathogenesis of disease occurs. Various diseases, diagnostic processes, appropriate testing, and treatment options, including drug medications will be discussed. Prerequisite: None.

Healthcare Statistics and Registries

HIMT 2220 01

1/16/24-5/11/24

(2 credit hours - 2 lecture 0 lab - T)

Exploration of theory and application of health care statistics as related to data definitions, uses, mathematical review, statistical data collection, computation of statistical formulae, collection and reporting of vital statistics, the use of registries, and the presentation and interpretation of health care data. Prerequisites: HIMT 1600 and HIMT 1700; Co-requisite: HIMT program MATH elective.

Management of Health Information Services

HIMT 2650 01

1/16/24-5/11/24

(2 credit hours - 2 lecture 0 lab - T)

Planning, organizing, staffing, budgeting and analysis of management systems along with job standards and performance evaluations emphasizing development of supervisory management and leadership skills. Prerequisites: HIMT 1300 and HIMT 2010.

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HISTORY

Western Civilization from 1492 to Present HIST 1110 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OHS042

This is a survey of Western Civilization examining ideas and cultural and political institutions from the European Age of Discovery to the present day. Topics covered include: the Wars of Religion, the Scientific Revolution, Absolutism, the Enlightenment, the French Revolution, nineteenth century science and ideologies, twentieth century wars, the Cold War and Globalization. Prerequisite or co-requisite: ENGL 1500.

U.S. History II HIST 1210 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OHS044

This course will highlight reconstruction of the South, the Gilded Age, Imperialism, Progressivism, World War I, Roaring Twenties, Great Depression, New Deal, World War II, Cold War, 1950s, Civil Rights, Vietnam War, Nixon and Watergate, Reagan, Clinton, Obama. Students will examine these topics from political, economic, and cultural perspectives. Prerequisite or co-requisite: ENGL 1500.

HUMAN RESOURCES MANAGEMENT

Strategic Compensation HRMG 1330 02

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course provides an in-depth study of the history, principles, theories, and practices of compensation and an overview of alternative reward systems and strategies. Students will review compensation surveys, policies governing benefits (including health, life, disability, pension/retirement, and pay for time not worked), and the laws governing compensation. Co-requisite: HRMG 2650 or permission of instructor.

Cultural Diversity for Human Resources HRMG 2250 01

2:30 p.m. – 3:50 p.m.

Thursday

1/16/24-5/11/24

Cultural Diversity for Human Resources HRMG 2250 02

2:30 p.m. – 3:50 p.m.

Thursday

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - B)

Introduces the student to diversity management and affirmative action programs. The emphasis is to increase student awareness of demographic changes, cultural differences, legal aspects, and diversity challenges. Students will learn the concepts of managing diversity and valuing differences in a workplace environment. Prerequisite: None.

Labor Relations HRMG 2300 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - T)

An overview of the history, organization, and development of labor unions and other professional employee associations. Topics include union management tactics, collective bargaining, and labor laws. Co-requisite: HRMG 2650 or permission of instructor.

INDUSTRIAL SYSTEMS MAINTENANCE TECHNOLOGY

Motor Controls ISET 2400 01

12:00 p.m.-2:20 p.m.

Tuesday & Thursday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

An introduction to the theory of motor controls with emphasis on green principles for energy reduction and increased efficiency. AC and DC motors along with overload, starters/stops, wiring, contactors and loads are also covered in both lecture and lab learning experiences. Prerequisite: None.

INFORMATION TECHNOLOGY

Web Site Applications ITCS 1230 01

9:00 a.m.-10:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

Provides coverage of HTML and CSS, including guidelines for Web accessibility and in-depth coverage of Cascading Style Sheets. Design styles and Cascading Style Sheets are used to enhance Web page layout and appearance which creates interactive Web pages with dynamic content and styles. HTML is also used to create mobile applications. A fee applies to this course. Prerequisite: None.

Linux+ ITCS 1400 01

1/16/24-3/9/24

(3 credit hours - 2 lecture 3 lab - T) CTAG – CTIT016

This course introduces students to the Computing Technology Industry Association's (CompTIA) Linux+ objectives. Linux+ is a vendor neutral certification that validates the fundamental knowledge and skills required of junior Linux administrators. In order to receive CompTIA Linux+ certification, a candidate must pass two exams. A fee applies to this course. Prerequisite or co-requisite: CYBR 1200 or ITCS 1010 or ITCS 2510.

Introduction to C Sharp ITCS 1410 01

11:30 a.m.-1:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T) CTAG – CTPROG003

The course provides the programmer with complete coverage of all introductory and many advanced programming topics, with emphasis on the C# programming language. The course introduces basic object-oriented programming concepts such as abstraction, polymorphism, inheritance and encapsulation. Application of basic programming concepts such as structure, decision-making, looping, arrays, classes, methods as well as enforcing good style and logical thinking. Intermediate-level topics include exceptions, GUIs, events and files. Advanced topics include multithreading, graphics, dynamic data structures and generics. A fee applies to this course. Prerequisites: ITCS 1030 and placement into college level math.

Server-side Scripting ITCS 1430 01

11:30 a.m.-1:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

ASP.NET is one of the most powerful technologies for providing dynamic content on the web. It is utilized for the purpose of calling and using programming language which manipulate data, query databases, generate customization graphics, and perform related tasks in the building of server applications. Hands-on development of projects using this powerful technology enables skill building for using ASP.NET and similar tools. A fee applies to this course. Prerequisites: ITCS 1030 and placement into college level math.

Introduction to Open-Source Programming ITCS 2100

3/18/24-5/11/24

(3 credit hours - 2 lecture 3 lab - T)

This course provides an introduction to the fundamentals of programming. Concepts will include the structures used in creating expressions, variables, conditions, functions, objects and exceptions. Prerequisite: None.

Security in the Information Age ITCS 2110 01

5:30 p.m.-7:20 p.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T/B)

This course introduces the principles and fundamentals of information and system security. It is designed to prepare students for future roles as business decision-makers. Topics such as network and applications security, communication security, threats and vulnerabilities as well as ethics, disaster recovery, and operational/organizational security will be covered. A fee applies to this course. Co-requisite: FYEX 1100 or ITCS 1010.

Packet Analysis ITCS 2170 01

11:30 a.m.-2:20 p.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

This course introduces the principles and fundamentals of packet analysis. This course offers hands-on training in network analysis and troubleshooting using Wireshark. Core tasks and techniques of protocol analysis (for example: IP, TCP, UDP, ARP, DHCP, HTTP, ICMP) are covered as well as capture and analysis techniques used for network troubleshooting and network security. A fee applies to this course. Prerequisite: CYBR 1100 or CYBR 1400 or ITCS 1010

Database Management Systems ITCS 2250 01

(3 credit hours - 2 lecture 3 lab - T)

This course presents the concepts of database management. These concepts are applied to a relational database management system. Database design and normalization, creation, tables, queries, forms, reports and other features are accomplished with the use of database management system software. Structured Query Language (SQL) will also be covered. A fee applies to this course. Prerequisite: ITCS 1010.

Capstone ITCS 2290 01

1/16/24-5/11/24

(1 credit hour - 0 lecture 3 lab - T/B)

This course integrates the concepts learned in Project Management Methodologies. Concepts are applied through team projects. Students will be expected to prepare and present a written report and an oral presentation. A fee applies to this course. Prerequisites: ITCS 2090.

Windows Server Administration ITCS 2500 01

1/16/24-3/9/24

(3 credit hours - 2 lecture 3 lab - T)

This course explores the planning, installation, configuration, administration, troubleshooting, and securing of Microsoft Windows Server operating systems. This course prepares students for one of the Microsoft Certified Professional (MCP) exams required for the Microsoft Certified Systems Administrator (MCSA) and/or Microsoft Certified Systems Engineer (MCSE) certifications. Prerequisite or co-requisite: CYBR 1200, ITCS 1010, or ITCS 2510.

Cisco Routers II ITCS 2550 01

9:00 a.m.-10:50 a.m.

Monday & Thursday

1/16/24 - 5/11/24

(6 credit hours - 4 lecture 4 lab - T) CTAG – CTIT009; CTAG – CTIT010

Introduces the student to the second half of the CCNA curriculum provided by Cisco Systems, Inc. This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. Topics include: OSPF, EIGRP, ACLs, SNMP, STP, PPPoE, GRE, single-homed eBGP, Cisco SPAN, other protocols in both IPv4 and IPv6 networks, as well as review for the CCNA Exam. Prerequisite: CYBR 2200 or ITCS 2510.

MARKETING

Advertising MKTG 2020 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - T) TAG – OCM012

A study of the principles of advertising and promotion, stressing history and the development of advertising and advertising techniques, including illustration, copy, slogans, and layout, as well as various advertising media, and direct-mail marketing. Co-requisite: MKTG 1000 or permission of instructor.

MATHEMATICS

Algebra and Trigonometry Lab MATH 0250 01

10:30 a.m.-11:20 a.m.

Monday & Wednesday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 2 lab - V)

This course provides students enrolled in MATH 1250 the support and supplemental instruction needed to ensure their success in MATH 1250. Co-requisite: MATH 1250.

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College Algebra Lab
MATH 0340 01

11:30 a.m.-12:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(1 credit hour - 0 lecture 2 lab - V)

This course provides students enrolled in MATH 1340 the support and supplemental instruction needed to ensure their success in MATH 1340. Co-requisite: MATH 1340.

Statistics Lab
MATH 0650 02

10:00 a.m.-10:50 a.m.
Monday & Wednesday
1/16/24 - 5/11/24
1/16/24 - 5/11/24

(1 credit hour - 0 lecture 2 lab - V)

This course provides students enrolled in MATH 1650 the support and supplemental instruction needed to ensure their success in MATH 1650. Co-requisite: MATH 1650.

Introductory Algebra
MATH 0990 01

8:30 a.m.-11:20 a.m.
Tuesday & Thursday

(5 credit hours - 4 lecture 2 lab - V)

Students will study and apply algebra concepts that are foundational for college-level algebra courses. Topics include factoring algebraic expressions, operations involving algebraic fractions, laws of exponents, roots and radicals, linear equations and graphs, simultaneous linear equations, and solving application problems involving linear equations and/or formulas. Prerequisite: Placement by testing.

Path to College Mathematics
MATH 0995 01

11:30 a.m.-2:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

(5 credit hours - 4 lecture 2 lab - V)

Path to College Mathematics is designed to enable students to develop conceptual understanding and problem-solving competencies in numeracy, proportional reasoning, algebraic reasoning, and functions with statistics as preparation for quantitative and statistical reasoning mathematics. Students will study real numbers, solve equations and inequalities, graph simple linear equations, systems of linear equations, inequalities, and determine the slope of a line. Students will apply exponent rules and work with scientific notation. Students will study geometry and measurement, including conversion of units in both the U.S. and Metric systems. Student will also determine measures of central tendency and dispersion. Students will solve real-life application problems and develop critical thinking skills. Prerequisite: Placement by testing.

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Quantitative Reasoning
MATH 1050 01

8:30 a.m.-10:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Quantitative Reasoning
MATH 1050 02

1:00 p.m.-2:50 p.m.

Tuesday & Thursday
1/16/24 - 5/11/24

Quantitative Reasoning
MATH 1050 03

1/16/24 - 5/11/24

(4 credit hours - 4 lecture 0 lab - G) OT36 – TMM011

This course is designed to develop students' quantitative and logical reasoning abilities, and improve students' ability to communicate quantitative ideas. This project-based course requires the student to create, analyze, and interpret mathematical models based on real world problems. Prerequisite: 1) Placement into college level math; or 2) Pass Math 0995 with a grade of "B" or better; or 3) Pass MATH 0995 with a grade of "C" or better. *(MATH 0995 students are permitted to advance to MATH 1050 with a grade of "C", but are required to register for a section of the co-requisite lab, MATH 1051).

Quantitative Reasoning Lab
MATH 1051 01

10:30 a.m.-11:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

(1 credit hour - 0 lecture 2 lab - V)

This course provides students enrolled in MATH 1050 the support and supplemental instruction needed to ensure their success in MATH 1050. Co-requisite: MATH 1050.

Algebra and Trigonometry MATH 1250 01

8:30 a.m.-10:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

(4 credit hours - 4 lecture 0 lab - G) OT36 – TMMSL

MATH 1250 furnishes students with a more rigorous background in trigonometry and algebra. Included in the topics are functions and their graphs, right triangle trigonometry, trigonometric functions of any angle, radians, vectors and their applications, Law of Sines and Law of Cosines, graphs of trigonometric functions, exponents and radicals, complex numbers, logarithmic and exponential functions, systems of equations of higher degree, logarithmic and exponential equations, equations of quadratic form, and equations with radicals. A graphing calculator is required. Prerequisite: Grade of "C" or better in MATH 0990 or pass MATH 0990 credit by exam or placement into college level math.

College Algebra MATH 1340 01

11:30 a.m.-1:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

College Algebra MATH 1340 02

9:30 a.m.-11:20 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(4 credit hours - 4 lecture 0 lab - G) OT36 – TMM001

College Algebra in conjunction with MATH 1350, Pre-Calculus, provides the necessary background for MATH 2510, Calculus I. Topics include radicals and rational exponents, equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and systems of equations. A graphing calculator is required. Prerequisite: 1) Placement into college level math; or 2) an ACT score of 22; or 3) grade of "B" or better in MATH 0990; or 4) pass the MATH 0990 Credit-by-Exam. *(Students passing MATH 0990 with a "C" must also be concurrently enrolled in MATH 1341).

Pre-Calculus MATH 1350 01

8:30 a.m.-10:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Pre-Calculus MATH 1350 02

3:30 p.m.-5:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(5 credit hours - 5 lecture 0 lab - G) OT36 – TMM002

Broadens the algebra background and affords students the opportunity to develop an extensive trigonometric background. Included are the topics of functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, systems of equations, inequalities, conic sections, sequences and series, right triangle trigonometry, trigonometric functions of any angle, graphs of the trigonometric functions, inverse trigonometric functions, oblique triangles, vectors, and trigonometric identities, equations, and formulas. MATH 1350 provides students with the necessary background for MATH 2510, Calculus I. A graphing calculator is required. Prerequisite: 1) Grade of "C" or better in MATH 1250; or 2) pass the MATH 1250 Credit-by-Exam; or 3) grade of "C" or better in MATH 1340; or 4) pass the MATH 1340 Credit-by-Exam.

Statistics MATH 1650 02

11:30 a.m.-12:50 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Statistics MATH 1650 03

8:30 a.m.-9:50 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

Statistics MATH 1650 05

8:30 a.m.-9:50 a.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Statistics MATH 1650 06

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMM010

Equips student with understanding of statistical concepts dealing with the processing and interpretation of numerical information. Basic statistical applications including measures of central tendencies and variations, probability, sampling, hypothesis testing, and correlation analysis will be studied. A scientific or graphing calculator is required. Prerequisite: Placement into college level math or grade of "C" or better in MATH 0995. *(Students passing MATH 0995 with a "C" must also be concurrently enrolled in MATH 0650).

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Calculus I
MATH 2510 01

12:00 p.m.-2:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

(5 credit hours - 5 lecture 0 lab - G) OT36 – TMM005

This course is a first course in a sequence of two covering the fundamental concepts of single variable calculus and their applications. Topics in this course are functions and graphing, limits and continuity, derivatives, derivative applications, integrals, applications of integration, and integration by substitution. Concepts of differential and integral calculus as applied to trigonometric, inverse trigonometric, and transcendental functions are included. Prerequisite: Grade of "C" or better in MATH 1350.

Calculus II
MATH 2520 01

3:30 p.m.-5:50 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

(5 credit hours - 5 lecture 0 lab - G) OT36 – TMM006

This course is a second course in a sequence of two covering the fundamental concepts of single variable calculus and their applications. Topics in this course are indeterminate forms and L' Hospital's rule, techniques of integration including integration by parts, trigonometric substitution, and the method of partial fractions, the Trapezoid Rule, the Midpoint Rule, improper integrals, further applications of integration, sequences and series, parametric equations, polar coordinates, conic sections, and differential equations. Prerequisite: Grade of "C" or better in MATH 2510.

MECHANICAL ENGINEERING TECHNOLOGY

Mechanical 3-D Modeling
MECH 1100 01

12:20 p.m.-2:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Mechanical 3-D Modeling
MECH 1100 02

6:30 p.m.-8:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T) TAG – OET012; CTAG – CTMET005

MECH 1100 introduces parametric solid modeling as used in the mechanical design environment. Students will learn to create parts, assemblies, and drawings in a commercially used 3-D package. The theory of bottom-up design is mainly the focus, with an introduction to top-down design. Prerequisite: Grade of "C" or better in MECH 1000.

Tools, Measurement, and Layout
MECH 1150 01

10:30 a.m.-12:20 p.m.
Monday & Wednesday
1/16/24 - 5/11/24

Tools, Measurement, and Layout
MECH 1150 02

2:30 a.m.-4:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

(2 credit hours – 1 lecture 3 lab – T)

This course is an introduction to the use of fasteners, hand tools, portable power tools, measuring instruments, and machine tool equipment. Students will learn to identify, describe, and properly use wrenches, screwdrivers, pliers, hammers, torque wrenches, portable power tools, scaled instruments, Vernier instruments, micrometer instruments and gage blocks. Prerequisite: None.

Manufacturing Processes
MECH 1200 01

8:30 a.m.-10:20 a.m.
Monday & Wednesday
1/16/24 - 5/11/24

■ = In Person ■ = Online ■ = Blended ■ = Selective Entry Only

Manufacturing Processes

MECH 1200 02

4:30 a.m.-6:20 p.m.

Tuesday & Thursday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T) TAG – OET010; CTAG – CT-MET004

MECH 1200 introduces students to the industrial processes of manufacturing. Typical industrial processes for metals and plastics are studied. Relationships among materials, processes, and design are established. Labs consist of hands-on projects in manufacturing as well as industry visits to local manufacturing facilities. Prerequisite: None.

Strength of Materials

MECH 2300 01

10:00 a.m.-11:20 a.m.

Tuesday & Thursday

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T) TAG – OET008

The study of internal stresses and deformation on members due to externally applied loads. Utilization of the derived data is used in designing members which will safely support the imposed loads. Prerequisite: MECH 2200.

Machine Design

MECH 2600 01

12:30 p.m.-2:20 p.m.

Monday & Wednesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

Study of design and determination of the size and shape of various machine components such as bearings, brakes, shafts, fasteners, gears, drive belts/chains, and flywheels. Utilizes previously learned CAD knowledge including solid modeling. A term project is required as well as a capstone proficiency exam. Prerequisites: None.

Project Management

MECH 2700 01

12:00 p.m.-1:20 p.m.

Thursday

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

This course emphasizes the study of project management as it relates to construction and industry, including the background knowledge and application of the project management process from concept and selection to completion and closure. Prerequisite: None.

Robotics

MECH 2800 01

9:30 a.m.-11:20 a.m.

Monday & Wednesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 2 lab - T)

An introduction to robotics including coordinate systems, drives, programming, and applications. Labs will include programming electric servo robots and their integration into work cells. Prerequisite: None.

MEDICAL ASSISTING

Basic Medical Laboratory

MEDA 1020 01

1:30 p.m.-3:20 p.m.

Tuesday

2:30 p.m.-5:20 p.m.

Thursday

1/16/24 - 5/11/24

Basic Medical Laboratory

MEDA 1020 02

8:30 a.m.-11:20 a.m.

Thursday

1:30 p.m.-3:20 p.m.

Tuesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

MEDA 1020 introduces the medical assisting student with basic lab techniques in the medical laboratory including specimen collection and performing basic laboratory testing in a physician's office. Methods of specimen collection include venipuncture, capillary puncture, and urine collection. This course contains both classroom instruction and clinical experiences for successful completion. Prerequisites: Grade of "C" or better in MEDA 1010 and MEDA 1012.

Medical Assisting Clinical

MEDA 1022 01

9:30 a.m.- 11:20 a.m.

Monday

8:30 a.m.-11:20 a.m.

Wednesday

1/16/24 - 5/11/24

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Medical Assisting Clinical MEDA 1022 02

9:30 a.m.- 11:20 a.m.

Monday

8:30 a.m.-11:20 a.m.

Wednesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

Application of clinical skills is the focus of this course. Common therapeutic procedures, minor surgery procedures, aseptic technique, and patient preparation are included. A fee applies to this course. Prerequisite: Acceptance into the MEDA program; Co-requisite: MEDA 1020.

Pharmacology and Drug MEDA 1024 01

11:30 a.m.-2:20 p.m.

Thursday

11:30 a.m.-1:20 p.m.

Tuesday

1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T)

MEDA 1024 provides the medical assisting student with basic knowledge of symbols and abbreviations used in writing prescriptions for drugs frequently prescribed by the physician. The responsibility of the medical assistant and other health professionals in providing the patient with drug therapy is emphasized. Co-requisite: MEDA 1020.

NATURAL FIELD SCIENCE

Geographic Information Systems NAFS 2150 01

8:30 a.m.-11:20 a.m.

Wednesday

1/16/24 - 5/11/24

Geographic Information Systems NAFS 2150 02

8:30 a.m.-11:20 a.m.

Thursday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 2 lab - B)

Introduction to computers, computer concepts, and terminology, as well as the impact of computers on today's society. Graphical and statistical analysis of natural science data are combined with the use of word processing, spreadsheet, and presentation graphics software on microcomputers. In addition, the student will learn how to access and search online journal databases and other useful internet tools utilized in natural sciences research. Prerequisite: None.

PHILOSOPHY

Introduction to Philosophy

PHIL 1010 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH045

This course begins with the most basic question of philosophy, "What should we believe?" –about God, religion, morality, politics, the nature of the self, the nature of the world around us, and even about knowledge itself. Students will study the process of figuring out what to believe—of becoming enlightened—as defined by Immanuel Kant. As Kant acknowledges, the process of enlightenment requires courage as it may lead us to change some of our beliefs and the process of changing one's beliefs is often difficult, both intellectually and socially. In this course, students will seek answers to the previous questions, and many more, by looking at what philosophers throughout history have had to say about these topics. Prerequisite or co-requisite: ENGL 1500.

Introduction to Ethics

PHIL 1020 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH046

This course is a course on philosophical ethics, and thus, will investigate philosophical questions regarding morality, such as the following: What is the good? What is virtue? Where do moral obligations come from? Is morality objective or relative to society and culture? Do we have proof for a moral claim such as lying is morally wrong? The course will be organized historically around some of the most important Philosophers and philosophical theories which have attempted to answer these questions. Included in this course is an investigation into applied ethical issues such as lying, abortion, euthanasia, and sexual ethics. Particular attention will be paid to how the various philosophical theories studied in the course can affect one's analysis of applied ethical problem. Prerequisite or co-requisite: ENGL 1500.

Critical Thinking

PHIL 1030 01

10:00 a.m.-11:20 a.m.

Monday

1/16/24 - 5/11/24

Critical Thinking PHIL 1030 02

10:00 a.m.-11:20 a.m.
Monday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH060

Critical Thinking is the general term given to a wide range of cognitive skills related to accurately making, understanding, and evaluating arguments. Students will learn to identify good and bad arguments and evaluate empirical evidence by learning about the logical structure of various forms of argument; drawing inferences from data; identifying language problems, including ambiguity and vagueness; recognizing hidden assumptions; and developing the skill of making rationally defensible choices. Students will be challenged to identify their own styles of critical thought and to apply new techniques to real-life issues. This course is designed to enhance one's ability to think critically, a crucial skill for academic, personal, and professional success. Co-requisite: ENGL 1500.

PHYSICS

Physics I PHYS 2010 01

11:30 a.m.-2:20 p.m.
Tuesday & Wednesday
1/16/24 - 5/11/24

Physics I PHYS 2010 02

11:30 a.m.-2:20 p.m.
Tuesday & Thursday
1/16/24 - 5/11/24

Physics I PHYS 2010 04

2:30 p.m.-5:20 p.m.
Tuesday
1/16/24 - 5/11/24

(4 credit hours - 3 lecture 3 lab - G) OT36 – TMNS; TAG – OSC014

Physics 2010 covers the mechanics of solids and liquids, mechanical waves, sound, and heat. Mechanics is the branch of physics that is concerned with describing the behavior of objects that are in motion or at rest. Topics covered in Physics I include physics math, kinematics, Newton's Laws

of Motion, forces, uniform circular motion, work, energy, impulse and momentum, rotational motion, materials analysis, the physics of fluids, simple harmonic motion, mechanical waves, sound, heat, temperature, thermal physics, and the kinetic theory of gases. Physics I builds the foundation for understanding the topics covered in Physics II and gives students a better understanding of the way the physical world around them works. Prerequisite: Placement into college level math.

POLITICAL SCIENCE

American National Government POLS 1010 01

8:30 a.m.-9:50 a.m.
Wednesday
1/16/24 - 5/11/24

American National Government POLS 1010 02

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS011

American National Government is an introduction to the nature, purpose, and structure of the national government in the United States. The process of and participants in the creation of public policy are emphasized, including a citizen's role in a democracy. The positive and negative aspects of broad participation are compared. Prerequisite or co-requisite: ENGL 1500.

PSYCHOLOGY

Introduction to Psychology PSYC 1010 01

10:00 a.m.-11:20 a.m.
Wednesday
1/16/24 - 5/11/24

Introduction to Psychology PSYC 1010 02

11:30 a.m.-12:50 p.m.
Wednesday
1/16/24 - 5/11/24

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Introduction to Psychology

PSYC 1010 03

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS015

An overview of major theories, concepts, and biological processes involved in the study of human behavior. Topics include history of psychology, research methods, biological bases of behavior, sensation and perception, consciousness, learning, memory, cognition and intelligence, motivation and emotion, lifespan development, personality, stress and coping, psychological disorders and their treatment, and social behavior. Prerequisite or co- requisite: ENGL 1500.

Abnormal Psychology

PSYC 2010 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS017

Explores the causes, treatments, and underlying theories of anxiety, cognitive, developmental, dissociative, eating, gender identity, mood, personality, psychophysiological, schizophrenic, sexual, somatoform, and substance-related disorders. Students will learn the DSM classification system of mental disorders. Prerequisite: PSYC 1010.

Lifespan Development

PSYC 2040 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) TAG – OSS048

Study of the biological, psychological, and social dimensions of human development from conception through older adulthood. Special emphasis will be included on the needs of older adults. Prerequisite: None.

Social Psychology

PSYC 2170 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS016

Examines how people influence the thoughts, feelings, and behaviors of individuals. Topics include perception toward self and others, attitudes, interpersonal attraction, social influences on behavior (obedience, conformity, etc.), group processes, prosocial behavior, aggression, and prejudice and discrimination. Prerequisite: PSYC 1010.

SOCIOLOGY

Introduction to Sociology

SOCI 1010 01

1:00 p.m.-2:20 p.m.

Monday & Wednesday

1/16/24 - 5/11/24

Introduction to Sociology

SOCI 1010 02

1/16/24 - 5/11/24

Introduction to Sociology

SOCI 1010 03

10:00 a.m.-11:20 a.m.

Monday & Wednesday

1/16/24 - 5/11/24

Introduction to Sociology

SOCI 1010 04

10:00 a.m.-11:20 a.m.

Tuesday

1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS021

Introduces students to the basic concepts, theories, perspectives and processes in sociology. Topics include culture, socialization, groups, organization, social deviance, social class and inequality, social change and institutions. This course will help students better understand themselves as well as their relationship to the larger society. Prerequisite or co-requisite: ENGL 1500.

Deviant Behavior

SOCI 2050 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS

An examination of the concepts and issues which embody the study of deviant behavior/deviance such as criminal behavior, abuse, obesity, the paranormal, and suicide. Theoretical approaches to these issues will explore the various viewpoints held by different cultures and sub-culture. Co-requisite: ENGL 1500.

Race and Ethnicity SOCI 2060 01

11:30 a.m.-12:50 p.m.
Tuesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG –OSS050

An exploration of American diversity in terms of the dynamics of intergroup relations, focusing on selected racial and ethnic groups. In addition, other diversities that may be included in the exploration: religion, gender, sexual preference, and the Appalachian area. Prerequisite or co-requisite: ENGL 1500.

Race and Ethnicity SOCI 2060 02

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG –OSS050

An exploration of American diversity in terms of the dynamics of intergroup relations, focusing on selected racial and ethnic groups. In addition, other diversities that may be included in the exploration: religion, gender, sexual preference, and the Appalachian area. Prerequisite or co-requisite: ENGL 1500.

Criminology SOCI 2270 01

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMSBS; TAG – OSS034

This course introduces the student to the sociological statement of the crime problem including an examination of the characteristics, etiology and correction of crime with emphasis on the problem and its relation to social norms. Co-requisite: ENGL 1500.

SOCIAL WORK ASSISTANT

Group Dynamics SWKA 1050 01

11:30 a.m.-1:20 p.m.
Monday
11:30 a.m.-2:20 p.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 2 lecture 3 lab - T/B)

Theoretical knowledge and practical experiences to prepare students for understanding the dynamics of group behavior. Course includes learning how to facilitate various forms of groups, how to develop treatment plans, and how to conduct recreational, diversional, and educational activities for those with mental illness, intellectual disabilities, and older adults. Prerequisite: None.

Interviewing SWKA 1090 01

10:00 a.m.-11:20 a.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

Introduction to the theory and practice of structuring an interview using various techniques for questioning including Motivational Interviewing. Practical experiences include gathering, analyzing, and synthesizing information. Prerequisite: Grade of "C" or better in SWKA 1010.

Learning and Behavior Theory SWKA 1110 01

5:00 p.m.-6:20 p.m.
Wednesday
1/16/24 - 5/11/24

(3 credit hours - 3 lecture 0 lab - T)

Study of the principles of learning and behavior as they relate to the process of developing behavioral change interventions including understanding the features of behavior modification. This course will include the areas of application for behavior modification, measurement of behavior and behavior change, basic principles of behavior, and how to establish new behaviors. Prerequisite: None.

Social Welfare System SWKA 2150 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - T) TAG – OSS030

Introduction to the historical foundation of the U.S. social welfare system as well as the identification and analysis of current policies. Also included will be an understanding of globalization and other issues in regard to human diversity and the provision of services to vulnerable populations. Prerequisite: None.

THEATER

Script Analysis THTR 1020 01

1/16/24-5/11/24

(3 credit hours - 3 lecture 0 lab - G) OT36 – TMAH; TAG – OAH024

Introduction to the methods of reading, studying and analyzing play scripts for production. The script as a vehicle for performance and the understanding of it from the perspective of the actor, director, and technician. Prerequisite: THTR 1010.

WILDLIFE CONSERVATION

Natural Resources Power WILD 1300 01

8:30 a.m.-11:20 a.m.

Friday

1/16/24 - 5/11/24

Natural Resources Power WILD 1300 02

12:30 p.m.-3:20 p.m.

Friday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

The operation, maintenance, and safety of equipment used in outdoor recreation facilities. Includes knowledge of mechanical systems. Labs include operation and/or maintenance of chainsaws, mowers, tractors, and welding equipment.

Prerequisite: None.

Field Ornithology WILD 2150 01

8:30 a.m.-11:20 a.m.

Thursday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

An intensive, highly field-oriented course provides practical, "hands-on" experience essential to students interested in field biology. Field studies will emphasize identification and natural history of local avian species, using a variety of field techniques. In addition to field work, the course will involve lecture specimen labs and readings to examine important aspects of anatomy, physiology, behavior, ecology, and conservation as they apply to birds. Prerequisite: None.

Field Herpetology WILD 2200 01

2:30 p.m.-5:20 p.m.

Wednesday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

An intensive, highly field-oriented course that provides practical, "hands-on" experience essential to students interested in field biology. Field studies will emphasize identification and natural history of local reptile and amphibian species, using a variety of field techniques. In addition to field work, the course will involve short lectures, specimen labs, and readings to examine important aspects of anatomy, physiology, behavior, ecology, and conservation as they apply to reptiles and amphibians. A fee applies to this course. Prerequisite: None.

Field Biometry WILD 2550 01

9:30AM-11:20 a.m.

Tuesday

1/16/24 - 5/11/24

(2 credit hours - 2 lecture 0 lab - T)

Basic principles of data collection, management, and analysis are combined with statistical concepts, such as central tendency, probability, and regression for application to students' capstone research and reported in projects completed in Ecology (BIOL 2600). A fee applies to this course. Prerequisite: Sophomore status in the WILD program.

Field Botany WILD 2900 01

11:30 a.m.-2:20 p.m.

Wednesday

1/16/24 - 5/11/24

(1 credit hour - 0 lecture 3 lab - T)

This course is an advanced field lab course in identification of winter grasses, forbs, and trees and spring ephemerals, spring flowering plants, wetland indicators, and early summer species. It follows on the heels of the fall botany course (WILD 1410) and expands the skills of students to accurately assess year-round plant diversity for natural resources field positions. Prerequisite: WILD 1410.

EVENT *Calendar!*

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