Fall 2019
Advising Schedule

Fall quarter classes begin September 16, 2019.

Information is subject to change. Check our website for current class schedule information:
http://www.centralia.edu/academics/schedule.aspx

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ACCOUNTING

Practical Accounting I
- 3087 ACCT 110A4 (3) 8-8:50am MWF WAH 205 Lazo
- Emphasizes fundamental principles of double-entry accounting as applied to bookkeeping systems. The course focuses on the development of the accounting cycle for small businesses and professional organizations.

Financial Reporting
- 3088 ACCT 200A4 (5) 9-9:50am Daily WAH 214 Thompson
- This course emphasizes the fundamentals of double-entry accounting and the preparation of financial statements for business entities. Topics include, but are not limited to, accounting for assets, liabilities, equity, revenue and expenses. Prerequisite: Compass minimum score of MATH 096 or evidenced score entrance equivalent.

Prin of Accounting I
- 3092 ACCT& 201A4 (5) 11-11:50am Daily WSC 215 Thompson
- This course emphasizes fundamental principles of double-entry accounting and the preparation of financial statements for sole proprietorships. Prerequisite: MATH 098 or equivalent or instructor permission.

Individual Income Taxes
- 4112 ACCT 260A4 (5) 10-10:50am Daily WAH 214 Thompson
- Introductory course in taxation emphasizing the preparation of individual federal income tax returns. Course focuses on history, economics, social aspects, equity, and structure of the federal income tax laws of the United States. Prerequisite: ACCT& 201

Payroll Accounting
- 3089 ACCT 270A3 (3) 8-8:50am T WAH 115 Mecham
- +2 hrs/wk TBA
- ACCT 270 is an introductory course covering aspects of the Fair Labor Standards Act, the Social Security Act, Federal Income Tax withholding laws, and other laws affecting payroll operations and employment practices. Prerequisite: ACCT& 201

Bookkeeper Certification Course
- 4147 ACCT 285RP1 (5) CANCELED
- This is the capstone course for accounting students participating in the Associate of Technical Arts (ATA) program and culminating in the student candidacy of either the Certified Bookkeeper (CB), Registered Tax Return Preparer (RTRP), or both. Prerequisite: ACCT& 203, ACCT 240.

AMERICAN SIGN LANGUAGE

American Sign Language I
- 3111 ASL& 121A4 (5) 12-2:20pm TTh WSC 109 Depuy Phill
- 3112 ASL& 121B4 (5) 2:30-4:50pm TTh WSC 109 Depuy Phill
- An introductory course in American Sign Language (ASL). Topics covered include visual awareness, vocabulary, basic grammatical principles, comprehension skills, and the historical overview of the deaf community and its language.

ANTHROPOLOGY

Survey of Anthropology (D)(SS)
- 3094 ANTH& 100A4 (5) 9-9:50am Daily WSC 208 Avalos
- Participate in a four-field approach to the study of the diversity of humans and human cultures. Explore subfields of anthropology: social/cultural anthropology, physical/biological anthropology, archaeology, and anthropological linguistics.

Cultural Anthropology (D)(SS)
- 3095 ANTH& 206A4 (5) 12-12:50pm Daily WSC 208 Avalos
- Explore the whole of the human social and cultural world by means of investigating other people's beliefs and behaviors. Through a cross-cultural perspective we attempt to understand others in order to better learn about ourselves.

Cultural & Ethnic Pluralism (D)(SS)
- 3093 ANTH 225A1 (5) Online Bryant
- Examine ethnicity, ethnic identity, and cultural characteristics of ethnic and social groups in North America and around the world. Understand the relationship between social organization and forms of social, economic, and political domination and subordination.

ART

Art Appreciation (D)(H)
- 3103 ART& 100A4 (5) 10-10:50am Daily WAH 109/116 Frey
- Examine the nature of visual art, its role in society, and methods of creative expression. Provides an overview of art history, surveys contemporary artists, and introduces studio methods in a variety of media.

Drawing I (H)
- 3086 ART 102A4 (5) 1-2:50pm MWF WAH 108/116 Frey
- Study the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Lab fee $9.33.

Drawing II
- 3097 ART 103A4 (5) 1-2:50pm MWF WAH 108/116 Frey
- Intermediate level study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102 or instructor permission. Lab fee $9.33.
### SCHEDULE

**Drawing III**
- 3098 ART 104A4 (5) 1-2:50pm MWF WAH 108/116 Frey

  Advanced level study of the fundamentals of drawing: composition, technique and manipulation of materials, exploration of subject matter. Lectures on contemporary and historical artists support drawing labs. Prerequisite: ART 102, 103 or instructor permission. Lab fee $9.33.

**2D Design (H)**
- 3099 ART 110A (5) 11-11:50am Daily WAH 116 Solomon
- 11-11:50am Daily WAH 144 Solomon

  Learn and utilize the principles of two-dimensional design and its application on a two-dimensional plane through lecture and studio practice. Lab fee $40.

**Computer Graphics (H)**
- 3100 ART 130A3 (5) 12-12:50pm Daily WAH 209 Solomon

  An overview of computer programs used to create images for print and screen, still and moving. Gain basic skills in design and programming by creating digital art work in a series of assignments. Lab fee $54.16.

**Digital Photography (H)**
- 3101 ART 174A3 (5) 1-1:50pm MTW WAH 209 Solomon
- 1:25pm Th WAH 209 Solomon
- +3 hours/week TBA

  An introduction to digital photography as an expressive art form. Students will explore the creative and technical requirements of digital imaging, as well as examine the contributions of contemporary fine artists working in this medium. Prerequisite: basic computer experience required. Lab fee $54.16.

**Art History: Ancient (D)(H)**
- 3102 ART 200A4 (5) 11-11:50am Daily TAC 338 Frey

  A survey of the development of art in Europe, the Near East and Asia from prehistoric times through the 14th century CE. The course will explore developments in architecture, painting, sculpture and other art forms.

### ASTRONOMY

**The Solar System & the Universe (NS)**
- 3113 ASTR 127AP1 (5) Online Garcia

  Brief overview of the history and scope of astronomy, followed by a systematic study of the solar system, stars, galaxies, and the universe. Prerequisite: one year HS algebra or MATH 098.

### BUSINESS ADMINISTRATION

**Intro to Business**
- 3166 BUS & 101A3 (5) 10-10:50am MWF TAC 122 Burger

  +2 hours/week TBA

  Introduction to the world of business. Emphasis will include functions of business, management, types of business ownership, human resources, production, marketing, ethics, and the role of accounting.

**Business Math**
- 3161 BUS & 121A4 (5) 10-10:50am Daily WAH 115 Crawford

  Surveys the commercial application of mathematics designed to assess and analyze business activities and their effect on cost, profitability and overall performance. Prerequisite: MATH 096 or equivalent test score.

**Business Law**
- 3167 BUS & 201A4 (5) 8-8:50am Daily WSC 101 Carter

  Introduction to state and federal constitution, laws and procedures including international trade, crimes, torts, contracts, sales, property, bankruptcy, securities, consumer protection, employment, and debtor-creditor relationships. The relationship between ethics and law will be discussed.
Human Resource Management
meld 4114 BUS 203A3 (5) 10-10:50am MTWTh WAH 205 Patrao
Introduction to fundamental concepts of human resource mis-
agement. This course will focus on recruiting, employee selection and
training, employee performance and compensation, and em-
ployee laws and labor relations. Prerequisite: BUS& 101, college
level reading and writing.

Principles of Finance
meld 3162 BUS 215A3 (5) 8-8:50am MWF WAH 115 Rath
+2 hours/week TBA
An introduction to the sources and uses of funds in a business. Focuses on ratio analysis, cost-volume-profit analysis, business
valuation, and the relationship between risk and rate of return. Emphasizes the managerial implications of financial risk. Prerequisite: ACCT& 201 or ACCT 200 or instructor permission.

Marketing
meld 4115 BUS 220AP1 (5) Online Sampson
A broad overview of the market structure and marketing philosop-
phies currently being used in business. Includes a description, analy-
sis, and evaluation of the marketing system. Each student will
conduct a marketing research project.

BUSINESS OFFICE TECHNOLOGY

Keyboarding for Business
meld 3139 BTEC 101A3 (3) 9-9:50am Daily WAH 207 Copeland
For students without keyboarding skills. Develop speed to 25 wpm
by touch. Develop speed, accuracy, and basic word processing
 techniques for letters, reports, and tables.

Keyboard Skillbuilding I
meld 3139 BTEC 102A3 (3) 9-9:50am Daily WAH 207 Copeland
Individualized program for improving keyboarding techniques and
increasing speed and accuracy. Upon course completion, students
should be able to type at a minimum of 35 wpm with one error
per minute. Prerequisite: BTEC 101 and typing speed of 25 wpm or instructor permission.

Electronic Medical Records
meld 3143 BTEC 107AP1 (4) Online Scott
Provides an overview of medical records as legal documents. Topics include the make-up of an electronic medical record, charting methods, patient scheduling, privacy, and administra-
tive management.

Business English
meld 3144 BTEC 110A4 (5) 11-11:50am Daily WAH 205 Lazo
This course is intended to provide a basis for producing office
documents. Topics include editing skills including grammar, punctua-
tion, proofreading, and spelling. Business English is a basis for
medical documentation, business communications, and office
procedures. Prerequisite: ENGL 098 with 2.0 or higher; placement of
ENGL 099 or higher.

Cooperative Work Experience
meld 3146 BTEC 190A4 (1-12) Online Copeland
This course allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Prerequisite: current or prior enrollment in BTEC 191 or instructor signature.

Work Experience Seminar
meld 3147 BTEC 191AP1 (1) Online Copeland
Discussion topics include professional image, business etiquette, sexual harassment, resolving conflict, and diversity in the workplace. Must be taken prior to or concurrently with Cooperative Work Experience.

Keyboard Skillbuilding II
meld 3149 BTEC 203A3 (3) 9-9:50am Daily WAH 207 Copeland
Individualized advanced skillbuilding program for students who
have taken BTEC 102. Upon completion of this course, students
should be able to type at a minimum of 50 wpm with one error per minute. Prerequisite: BTEC 102.

Word I
meld 3150 BTEC 210A3 (5) 12:12:50pm Daily WAH 205 Lazo
+1 hour/week TBA
meld 3151 BTEC 210B1 (5) Online Lazo
meld 3152 BTEC 210R1 (5) Online Cantin
Course covers Microsoft Word in depth: document preparation, for-
mattic, graphics, WordArt, SmartArt, tabs, columns, sorting, mail
merge, styles, Quick Parts, headers/footers, references. Students will format documents to business standards. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission.

Excel 1
meld 3153 BTEC 214A3 (5) 9-9:50am MTWTh WAH 205 Lazo
meld 3154 BTEC 214R1 (5) Online Cantin
This course is a hands-on approach for beginning through inter-
mediate level applications of Excel spreadsheet using a variety of
business applications. Students will learn formulas, charts, format-
ting, and management of Excel files. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission.

Desktop Publishing
meld 3155 BTEC 218R1 (4) Online Cantin
This course covers terminology, concepts, and tasks related to desk-
Top publishing. Students will plan, create, and design publications
for business and personal use. Prerequisite: IT 117, BTEC 210, typing speed of 35 wpm or instructor permission.

Word 2
meld 3156 BTEC 219R1 (5) Online Cantin
This course covers advanced Microsoft Word features such as:
linked textbooks, outlines, multilevel lists, sections, translator,
AutoCorrect, Building Blocks, Quick Parts, macros, bibliographies,
citations, footnotes, endnotes, table of contents, index, and fill-in forms. Prerequisite: BTEC 210.

Microsoft Office-PowerPoint Module
meld 3158 BTEC 222R1 (1) Online Cantin
Class covers PowerPoint in depth: presentations, formatting, graph-
ics, charts, design, and appropriate visual elements for professional
presentations. Prerequisite: IT 117, typing speed of 35 wpm or in-
structor permission.

Records Management
meld 4113 BTEC 233A4 (5) 1-1:50pm MWF WAH 207 Copeland
+2 hours/week TBA
Principles and procedures of effective records management for
physical and electronic records systems. Practice in indexing, cod-
ing, filing, and retrieval for alphanumeric, numeric, subject, and
geographic systems. Introduction to laws, regulations, security
risks and e-discovery.
### CHEMICAL DEPENDENCY

#### Chemical Dependency Intro
- **Course Number:** 3168 CDP 100A (5)
- **Time:** 10-11:50am
- **Location:** MW WSC 211
- **Instructor:** Rabe

This course introduces the field of chemical dependency counseling. Topics include theories of addiction, professional ethics, Federal and State regulations, preparation for professional exam, and structured communities. Prerequisites: CDP 100 and PSYC 200 or instructor permission.

#### CDP Law and Ethics
- **Course Number:** 3169 CDP 120A3 (4)
- **Time:** 1-2:50pm
- **Location:** TTh WSC 111
- **Instructor:** Rabe

This course focuses on contemporary legal and ethical issues in chemical dependency counseling, including professional and peer relationships, boundaries, NAADAC code of ethics, multiple relationships and values in the counseling relationship, confidence, and HIPAA. Prerequisite: CDP 100 with 2.0 or higher.

#### Counseling Adolescents
- **Course Number:** 3170 CDP 140A3 (3)
- **Time:** 10-11:50am
- **Location:** TTh WSC 211
- **Instructor:** Starroff

This course offers an overview of counseling adolescents, with a focus on biopsychosocial factors and their impact on adolescent drug use. Topics include brain development, cultural implications in adolescence, substance screens, and diagnosis. Prerequisite: CDP 100 and PSYC 200 or instructor permission.

#### CDP Cultural Diversity
- **Course Number:** 3171 CDP 230AP1 (3)
- **Time:** 1-2:50pm
- **Location:** Online
- **Instructor:** Rabe

This course is designed to explore self-awareness and improve knowledge and skills of chemical dependency professionals while working with clients from diverse cultural backgrounds. Prerequisite: CDP 100 with 2.0 or higher.

### CHEMISTRY

#### Chemical Concepts w/Lab (NS)
- **Course Number:** 4181 CHEM 110A4 (5)
- **Time:** 11-11:50am
- **Location:** MTWTh WSC 121
- **Instructor:** Sprafka
- **Lab:** 1-2:50pm M WSC 308

This foundational course covers basic chemical principles and real-world applications. It meets NS distribution. Not intended for Allied Health or general chemistry prep. Prerequisite: MATH 096.

#### Introduction to Chemistry (NS)
- **Course Number:** 3209 CHEM 121A4 (5)
- **Time:** 9-9:50am
- **Location:** MTWTh WSC 121
- **Instructor:** Sprafka
- **Lab:** 1-2:50pm W WSC 308

This course surveys chemistry with applications of chemistry. It meets NS distribution. Not intended for allied health or general chemistry prep. Prerequisite: MATH 098. Lab fee $27.69.

#### General Chemistry Prep (NS)
- **Course Number:** 4182 CHEM 139A4 (5)
- **Time:** 9-9:50am
- **Location:** WSC 307
- **Instructor:** Goodwin

This preparatory course is designed for science/engineering majors intending to take the CHEM 161 sequence. Emphasizes quantitative reasoning, focusing on how mathematics is used in chemistry. Prerequisites: one year of high school algebra or MATH 098.

#### General Chemistry w/Lab I (NS)
- **Course Number:** 3214 CHEM 161A4 (6)
- **Time:** 10-10:50am
- **Location:** MTWTh WSC 121
- **Instructor:** Goodwin

First of a three-quarter-sequence for science and engineering majors. Includes matter, measurements, equations, stoichiometry, gas laws, and solutions. Prerequisite: MATH 098.

#### General Chemistry III w/Lab (NS)
- **Course Number:** 3216 CHEM 163A4 (6)
- **Time:** 10-10:50am
- **Location:** MTWTh WSC 307
- **Instructor:** Sprafka

Third of a three-quarter sequence. Includes equilibrium, acids and base, solution chemistry, gasses, thermodynamics, and solution chemistry. Prerequisite: CHEM 162 with 2.0 or higher.

#### Organic Chemistry I (NS)
- **Course Number:** 3217 CHEM 261A4 (6)
- **Time:** 12-12:50pm
- **Location:** MTWTh WSC 107
- **Instructor:** Goodwin

First course in a three-quarter sequence for science and engineering majors. Topics covered include structure, nomenclature, reactions, and properties of hydrocarbons, and alkyl halides. Prerequisite: CHEM 163 with 2.0 or greater. Lab fee $26.88.

#### Research in Chemistry
- **Course Number:** 3207 CHEM 270AP1 (1-12)
- **Time:** 1-2:50pm
- **Location:** Online
- **Instructor:** Sprafka

This course is designed to set up experiments, collect data in the laboratory, and analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission. Lab fee $13.85.

#### Problem Solving in Chemistry
- **Course Number:** 3215 CHEM 121B4 (5)
- **Time:** 9-9:50am
- **Location:** MTWTh WSC 121
- **Instructor:** Goodwin

This course is designed to provide instruction and practice in quantitative problem solving, critical thinking, and the mathematics and study skills required to be successful in CHEM 161. Corequisite: CHEM 161.

#### Research in Chemistry
- **Course Number:** 3213 CHEM 121NT3 (5)
- **Time:** 5-6:50pm
- **Location:** M WSC 211
- **Instructor:** Sprafka

This course is designed to provide instruction and practice in quantitative problem solving, critical thinking, and the mathematics and study skills required to be successful in CHEM 161. Corequisite: CHEM 161.

#### General Chemistry w/Lab I (NS)
- **Course Number:** 3218 CHEM 161A4 (6)
- **Time:** 10-10:50am
- **Location:** MTWTh WSC 308
- **Instructor:** Goodwin

First of a three-quarter-sequence for science and engineering majors. Includes matter, measurements, equations, stoichiometry, solution chemistry, gasses, thermodynamics, quantum theory, and electronic structure. Prerequisite: CHEM 161 with 2.0. Lab fee $27.46.

#### General Chemistry III w/Lab (NS)
- **Course Number:** 3219 CHEM 163A4 (6)
- **Time:** 10-10:50am
- **Location:** MTWTh WSC 307
- **Instructor:** Sprafka

Third of a three-quarter sequence. Includes equilibrium, acids and base, and solubility equilibria, thermodynamics, introduction to organic and nuclear chemistry. Prerequisite: CHEM 162 with 2.0 or greater. Lab fee $26.88.

#### Research in Chemistry
- **Course Number:** 3208 CHEM 270BP1 (1-12)
- **Time:** 1-2:50pm
- **Location:** Online
- **Instructor:** Goodwin

This course is designed to set up experiments, collect data in the laboratory, and analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission. Lab fee $13.85.
**CHINESE**

**Chinese I (D)(H)**
- 3218 CHIN& 121A4 (5) 11-11:50am Daily WSC 208 Wynder
  Learn the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture.

**Chinese IV (H)**
- 3219 CHIN& 221A4 (5) 1-1:50pm Daily WSC 208 Wynder
  Continued study of the fundamental skills of listening comprehension, speaking, reading and writing the Mandarin Chinese language. Develop an understanding and appreciation of the Chinese people and culture. Prerequisite: CHIN& 123 or instructor permission.

**COMMUNICATION STUDIES**

**Intro to Mass Media (H)**
- 3239 CMST& 102A4 (5) 11-11:50am Daily WAH 115 Fisher
- 3240 CMST& 102BP1 (5) Online Williams
  A survey of the mass media in America: newspapers, magazines, books, recorded music, radio, television, motion pictures, the World Wide Web: with emphasis on structure, function, audience, content, effect and social responsibility.

**Public Speaking (H)**
- 3241 CMST& 220A4 (5) 8-8:50am Daily TAC 340 McQuarrie
- 3242 CMST& 220B4 (5) 9-9:50am Daily TAC 340 McQuarrie
- 3244 CMST& 220D4 (5) 11-11:50am Daily TAC 340 McQuarrie
- 3243 CMST& 220CP1 (5) Online Majors
- 3245 CMST& 220EP1 (5) Online McQuarrie
  Apply methods for managing speech anxiety, holding attention and making points in a variety of public speaking situations, including techniques for being credible and ethical. Communication theories and interpersonal skills also studied.

**Advanced Public Speaking (H)**
- 3234 CMST 240A4 (5) 12-12:50pm Daily TAC 340 McQuarrie
  Build upon the skills learned in an introductory public speaking course. Become prepared to present in professional settings and lead effective business meetings as an audience-centered communicator. Prerequisite: CMST& 220 or instructor permission.

**Intercultural Communication (D)(H)**
- 3235 CMST 250N3 (5) 5-5:50pm M WSC 107 Majors
  Students will explore the dynamics of intercultural communication; how variables such as perceptions, language usage, nonverbal style, gender, class, and values influence face-to-face communication among individuals of different cultures; and strengthen communication skills.

**COOPERATIVE WORK EXPERIENCE**

**Cooperative Work Experience**
- 3247 COOP 190S (1-12) ARR ARR MOR 108 Barnes
  Cooperative Work Experience allows students to apply classroom learning to on-the-job settings. Credit is earned for new and continued learning taking place in the work environment. Reaching set learning objectives and development of positive work habits are emphasized. The Cooperative Education Faculty Coordinator, the student employee, and the worksite supervisor identify the learning objectives. 30-360 hours on-the-job per quarter. Instructor's permission is required. Corequisite: Enrollment in a Work Experience Seminar is required of Co-op students. You may take the Work Experience Seminar before or in the same quarter as the Co-op course.

**CRIMINAL JUSTICE**

**Intro to Criminal Justice**
- 3230 CJ& 101A3 (5) 10-10:50am MTWTh WAH 105 Gilbertson
- 3231 CJ& 105A3 (5) 12-1:50pm TTh ARR Gilbertson
  Examines local, state and Federal law enforcement agencies and the judicial and correctional systems. Career opportunities and qualifying requirements are studied. Lab fee $15.31.

**Constitutional Case Law**
- 3226 CJ 103A3 (5) 11-11:50am MTWTh WSC 101 Gilbertson
- 3227 CJ 103BP1 (5) Online Belden
  Examines the Constitution and Bill of Rights in relation to law enforcement, the judiciary, and corrections. Defines guilt-laden facts, reasonable suspicion, and probable cause. Lab fee $14.86.

**Intro to Law Enforcement**
- 4100 CJ& 104AP1 (5) Online Belden
  A broad survey of the theories, procedures and methods of police operations studied. Also examines police discretionary powers, career opportunities, and trends in law enforcement. Pre/corequisite: CJ& 101 or instructor permission.

**Intro to Corrections**
- 3231 CJ& 105A3 (5) 12-1:50pm TTh ARR Gilbertson
  A broad survey of the history and evolution of adult and juvenile correctional models in America. All forms of incarceration and restrictive custody are studied. Pre/corequisite: CJ& 101 or instructor permission. Lab fee $14.86.

**Criminology**
- 3233 CJ& 112AP1 (5) Online Belden
  Examines social components of crime, deviance, criminality, and societal reactions to crime. Includes discussion of causes and impacts of crime on society, classifications and theoretical interpretations of crime and the criminal justice system.

**Homicide Investigation**
- 3228 CJ& 126A3 (5) 12-1:50pm MW WAH 109 Gilbertson
  Tactics, procedures, and forensic techniques of homicide investigation are examined. Various tools and processes systematically employed to identify, arrest, and convict perpetrators are studied. Pre/corequisite: CJ& 101 or instructor permission. Lab fee $14.44.

**COMMUNICATIONS**

**Dragon NaturallySpeaking**
- 3246 COMM 100AP1 (2) Online Hoel
  Designed to assist students in the development of computer and English composition skills while using Dragon NaturallySpeaking (voice recognition) and text to speech software.
Criminal Interviews & Interrogations

- 4101 CJ 224AP1 (5) Online Belden

Basic and intermediate skills required for criminal and forensic interviews and interrogations. Study, practice, role-play, and evaluate the techniques used to elicit factual information from victims, witnesses and suspects in the course of criminal investigations.

DIESEL EQUIPMENT TECHNOLOGY

Shop Skills

- 3246 DET 100A3 (7) 7-7:50am MTWTh TEC 133 Lipp
  8am-12:30pm MTWTh TEC 135 Lipp

Theory and application of basic tools and practices as used in heavy equipment repair facilities. Prerequisite: Placement for TMATH 116 or MATH 095 with 2.0 or higher. Lab fee $65.69. Class meets 9/16-10/24.

Forklift Certification

- 3249 DET 102A (1) ARR F TEC 133 McCarthy
- 3250 DET 102B (1) ARR F TEC 133 McCarthy

A comprehensive classroom training with practical, and hands-on instruction on forklift operation and safety. Course covers state and federal regulations. For successful completion student must be 18 and pass both practical and hands on exams. Lab fee $40.

Power Transmission

- 3251 DET 125A3 (7) 7-7:50am MTWTh TEC 133 Dunn
  8am-12:30pm MTWTh TEC 135 Dunn

The theory and application of mechanical power transmitting devices and associated components as used in diesel powered equipment. Lab fee $65.69. Class meets 10/28-12/5.

Mobile Electrical Systems II

- 3252 DET 200A3 (7) 7-7:50am MTWTh TEC 159 Lipp
  8am-12:30pm MTWTh TEC 135 Lipp

Students will examine electrical components and electronic systems. This course will cover electronic control modules and advanced direct current troubleshooting. Prerequisite: DET 110 or instructor permission. Lab fee $85.69. Class meets 10/28-12/5.

Internal Combustion Engines II

- 3253 DET 220A3 (7) 7-7:50am MTWTh TEC 159 Dunn
  8am-12:30pm MTWTh TEC 135 Dunn

This course will cover diesel engine analysis and testing for optimal performance and longevity. Students will perform live engine testing, troubleshooting, and repairs. Prerequisite: DET 110 or instructor permission. Lab fee $85.69. Class meets 9/16-10/24.

DRAMA

Introduction to Theater (H)

- 3260 DRMA& 101A4 (5) 9-9:50am Daily WAH 115 Kreilkamp

Overview of theatre as an art form with emphasis on the play in production and the roles of various theatre artists. Students are expected to attend two plays during the quarter at their own expense.

Beginning Acting (H)

- 3258 DRMA 107A4 (5) 10-11:50am TTh WAH 150 Kreilkamp
  10-10:50am F WAH 150 Kreilkamp

Introduction with emphasis on concentration, imagination, movement, and characterization via vocal, physical, emotional exercises, improvisation, and scene work. Students will be expected to attend two plays during the quarter at their own expense.

Dramatic Performance (H)

- 3259 DRMA 115A4 (5) ARR ARR ARR Kreilkamp

For students involved in the creative/performance aspects of a play production, from audition through research/preparation for their portrayal and evaluation of their performance. The student must successfully audition and be cast in a college production. Prerequisite: audition selection for quarterly play production.

ECONOMICS

Microeconomics (SS)

- 3268 ECON& 201A4 (5) 9-9:50am Daily WSC 213 Rodriguez
- 3269 ECON& 201B4 (5) 12-12:50pm Daily WSC 111 Rodriguez

Microeconomics is the study of households and firms and how they interact in markets under varying degrees of competition.

Macroeconomics (SS)

- 3270 ECON& 202A4 (5) 10-10:50am Daily WSC 108 Rodriguez

Macroeconomics is the study of how any system allocates limited resources to meet unlimited wants. Major concerns of macroeconomic policy are: inflation, full employment, national income accounting, fiscal policy, the money supply and trade.

EDUCATION

Guiding Behavior

- 3283 EDUC& 130A3 (3) 4-5:30pm W WSC 213 Spain
  +1.5 hours/week TBA
- 3284 EDUC& 130BS1 (3) Online Price
- 4291 EDUC& 130CS1 (3) Online Kirkpatrick

Examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions while providing positive individual guidance and enhancing group experiences.

Child/Family/Community

- 3285 EDUC& 150N3 (3) 6-7:30pm M WAH 113 Kirkpatrick
  +1.5 hours/week TBA

Investigate the family and community contexts in which children develop. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their children and tools for effective communication.

Intro to Education w/Field Experience

- 3286 EDUC& 205A3 (5) 1-3:10pm MW WSC 211 Spain
  +3.5 hours/week TBA

An overview of education in America including history, purpose, philosophies, characteristics, social aspects and current issues. Exploration of teaching as a profession in the K-12 system. Includes 30 hours in K-12 classroom.

EDUCATION-EARLY CHILDHOOD

Intro Early Child Education (SS)

- 3262 ECED& 105A3 (5) 4-5:40pm M WSC 108 Spain
  +4 hours/week TBA

Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices, and program models. Observe children, professionals and programs in action. Lab fee $25.
Health/Safety/Nutrition

- 3263 ECED& 107A3 (5) 6-8:20pm W WSC 213 Spain

Introduction to implementation of equitable health, safety and nutrition standards for the growing child in group care. Develop skills necessary to keep children healthy, safe, report abuse and neglect, and connect families to community resources.

Practicum-Nurturing Rel

- 3264 ECED& 120A1 (2) Online Spain

Students gain experience engaging in nurturing relationships with children, keeping children safe and promoting children's growth and development.

Infants/Toddlers Care

- 3265 ECED& 132A1 (3) Online Spain

Examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally relevant care.

Family Child Care

- 3266 ECED& 134AW1 (3) Online Staff

Learn the basics of home/family child care program management. Topics include licensing requirements; business management, relationship building, health, safety, and nutrition, guiding behavior and promoting growth and development. Class meets 9/26 - 12/4.

Admin Early Learning Programs

- 3267 ECED& 139AW1 (3) Online Staff

Establish administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available that meet Washington State licensing and NAEYC standards. Class meets 9/26 - 12/4.

Electronics/Robotics

See Mechatronics section

Energy Technology

Intro to Energy Industry

- 3580 PPO 100A3 (5) 1-3:20pm M TAC 338 Crawford +2.5 hours/week TBA

Provides a broad background in fields related to power generation.

Energy Efficiency

- 3581 PPO 150A3 (5) 1-3:20pm W TAC 338 Crawford +1.5 hours/week TBA

A study of Energy Efficiency concepts related to the efficient and effective use of electricity in home and industry. Subjects covered will include electrical terms, green alternative energy sources, transportation, solar, wind, biomass, and insulation.

Plant Systems Boilers

- 3582 PPO 201A3 (5) 1-3:20pm T TAC 338 Steidel

Provides a background in power boilers, boiler systems & equipment, an introduction to the safe operation, maintenance & control of boilers. Prerequisite: PPO 102.

Hydroelectric Power

- 3583 PPO 206A3 (5) 1-3:20pm Th TAC 338 Crawford +2.5 hours/week TBA

Provides a broad background in the field of electric power generation from hydroelectric dams. Basics of producing electricity including turbines, hydropower regulations, fish passageway, and water quality, and tribal rights. Prerequisite: PPO 103.

ENGINEERING

Introduction to Engineering

- 3341 ENGR 100A4 (2) 11-11:50am TTh WSC 108 Threapleton

Introduction to the various fields and careers of engineering. Topics will include: educational planning and transfer issues; problem solving, engineering design, teamwork, and communication skills.

Mechanics of Materials

- 3343 ENGR 225A (5) 9-9:50am Daily WSC 108 Threapleton

The last of a three-course sequence. Includes the study of stress, strain, deflection in beams, columns, machine and structural members. Includes bending moments, shear, torsion, deformation, unsymmetrical bending, and eccentric loading. Prerequisite: ENGR& 214.

Research in Engineering

- 3342 ENGR 270A (12) ARR ARR ARR Threapleton

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

ENGLISH

Vocabulary Development I

- 3304 ENGL 095N (1-5) 5-7:20pm TTh WSC 110 Shriver G

Builds a base of words used in everyday communication, provides systematic study, increases proficiency in oral and written communication and reading comprehension. Students are given a placement test and assigned materials at an appropriate level.

Vocabulary Development II

- 3305 ENGL 096N (1-5) 5-7:20pm MW WSC 110 Shriver G

Builds a base of words used in everyday communication, provides systematic study, increases proficiency in oral and written communication and reading comprehension. Students are given a placement test and assigned materials at an appropriate level.

Vocabulary Development III

- 3306 ENGL 097N (1-5) 5-7:20pm MW WSC 110 Shriver G

Course provides a systematic study of college level academic words and their roots, prefixes, and suffixes to increase proficiency in oral and written communication.

Writing & Grammar Review

- 3307 ENGL 098A4 (1-5) 8-8:50am Daily WSC 107 Burr

This is a bucket class.

- 3308 ENGL 098B (1-5) 10-10:50am Daily WAH 113 Shriver G

This is a bucket class.

- 3309 ENGL 098N (1-5) 5-7:20pm TTh WSC 110 Shriver G

This is a bucket class.

- 3310 ENGL 098R (1-5) 1-3:20pm MW MOR 108 Nellis

Study proper word usage, sentence structure, and punctuation. Writing includes personal essays and summaries. Emphasis is on improving grammar and writing skills for personal needs and preparation for technical coursework. Prerequisite: students must meet mandatory placement requirements to enroll.
Fundamentals of English

 mitigate sentence structure and punctuation, and write several short essays and other writing. Students must meet mandatory placement requirements to enroll.

English Composition I (C)

Composition II (C)

Intro to Literature (H)

Short Fiction (H)

Intro to Creative Writing (H)

Writing in the Workplace

Survey of Environmental Science (NS)

Intro to Environmental Science w/Lab (NS)

Human Geography (D)(SS)

Intro Physical Geology (NS)

Physical Geology II (NS)
Natural Hazards and Catastrophes (NS)

- 3352 GEOL 108A4 (5) 9-9:50am MTWTh WSC 105 Harris
- 3353 GEOL 108B4 (5) 9-9:50am MTWTh WSC 105 Harris
- 3357 GEOL 108C4 (5) 9-9:50am MTWTh WSC 105 Harris
- 3358 GEOL 108D4 (5) 9-9:50am MTWTh WSC 105 Harris

An examination of earth materials and processes through the study of earthquakes, volcanoes, landslides, floods, tsunamis, hurricanes, tornadoes, wildfires, and meteorite impacts. Examination of causes and effects on human populations and the environment; preparedness, prediction and forecasting; mitigation of risks, and case studies. Lab fee $28.36.

Research in Geology

- 3354 GEOL 270A (1-12) ARR ARR ARR Harris

Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

HEALTH

Health & Wellness (HF)

- 3367 HLTH 130A4 (3) 9-9:50am MWF MSG 115 Johnson

An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness. Lab fee $3.10.

Exercise & Nutrition (HF)

- 3368 HLTH 140A4 (3) 12-12:50pm MWF MSG 115 Johnson
- 3369 HLTH 140BP1 (3) Online Johnson

The two core components of a healthy lifestyle--a healthy diet and a safe exercise program will be explored and developed. Students will be expected to exercise on their own. Lab fee $3.10.

Global Health Issues (D)(HF)

- 3370 HLTH 141RP1 (3) Online Jones

Introduction to global health issues, with a current events focus. Explore factors impacting the health of people around the world, including biological, socio-economic and environmental factors. Examine issues of water, disease, nutrition, and maternal-child health.

Stress Management (HF)

- 3371 HLTH 143A4 (2) 11-11:50am MW MSG 106 Johnson
- 4103 HLTH 143B4 (2) 8:30am-12pm Sa MSG 115 Johnson
- 3372 HLTH 143CP1 (2) Online Johnson

Understand how stress can impact quality of life. Learn methods for identifying stressors and strategies to effectively manage them. Construct a personalized stress management program. Section B3 will meet face-to-face on 10/19 and 11/2.

Safety and Fitness (HF)

- 3375 HLTH 145A4 (3) 8-8:50am MWF MSG 106 Johnson
- 4141 HLTH 145B4 (3) 1-1:30pm MTW MSG 106 Johnson

The course emphasizes the importance of safety, first aid, and exercise as they relate to an individual’s level of health and fitness. The course includes the American Heart Association Heartsaver First Aid/CPR and AED certification. Lab fee $48.25. Section B4 meets 9/24 - 10/31.

Community First Aid and CPR

- 3377 HLTH 154A (1) 8:30am-4pm Sa MSG 106 Layton
- 3378 HLTH 154B (1) 8:30am-4pm Sa MSG 106 Layton
- 3379 HLTH 154C (1) CANCELED

Basic First Aid/CPR/AED class covering critical skills needed to respond to and manage first aid, choking or sudden cardiac arrest emergencies in the first few minutes until emergency medical services (EMS) arrives. Lab fee $44.23. Section A meets 9/28; section B meets 10/26.

HISTORY

Western Civilization I (SS)

- 3361 HIST & 116A (5) 10-10:50am Daily WSC 204 Peterson

Analysis of the development of major political, economic, social and cultural characteristics of Antiquity and Medieval Europe.

US History I (SS)

- 3362 HIST & 146A (5) 12-12:50pm Daily WSC 204 Peterson

Analysis of American history from the pre-invasion to the Antebellum Era. Emphasis will be on the political, social, and economic changes.

US History II (SS)

- 3363 HIST & 147A1P (5) Online Mayfield

Analysis of American history from Antebellum Era to the Progressive Era. Emphasis will be on the political, social, and economic changes.

US History III (SS)

- 3364 HIST & 148A (5) 9-9:50am Daily WSC 110 Mayfield

Analysis of American history from World War One to the present. Emphasis will be on the political, social, and economic changes.

HUMAN RELATIONS

Human Relations-Workplace

- 3357 H R 110A4 (5) 10-10:50am Daily TEC 109 Sampson
- 3358 H R 110B3 (5) 11-11:50am MWF WSC 108 Sampson
- 4116 H R 110C3 (5) CANCELED
- 3359 H R 110DP1 (5) Online McClain

Study of behavior, personality, self-management, self-development, and elementary business psychology in the workplace. Focus on understanding and demonstrating skills imperative to workplace success including communications, personal attitude, motivation, and workplace etiquette.

HUMANITIES

Ethics and Cultural Values (H)(D)

- 3384 HUM 110A4 (5) 11-11:50am Daily WAH 105 Mitchler

An interdisciplinary study of philosophy, literature, history and religion within Western and Oriental ethical systems of thought. It focuses on the importance of cultural values through a study of virtue, duty, utility, and rights.

Humanities I (H)

- 3387 HUM & 116A4 (5) 9-9:50am Daily WAH 109 Mitchler

A survey of the major movements in art, architecture, music, philosophy and literature in a historical context, from pre-history to 1400 C.E.

Lyceum I

- 3385 HUM 281A (1) 1-1:50pm W WAH 103 Bannish

The Lyceum offers a variety of lectures on topics of current interest across a wide variety of disciplines. The theme may vary from quarter to quarter.
Lyceum IV
☐ 3386 HUM 284R (1) 1-1:50pm Th MOR 101 Schinnell
The Lyceum offers a variety of lectures on topics of current interest across a wide variety of disciplines. The theme may vary from quarter to quarter.

**INFORMATION TECHNOLOGY**

**Intro to Programming**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Credits</th>
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<th>Location</th>
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<td>3388 IT</td>
<td>101A4</td>
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<td>11-11:50am</td>
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This course provides an introduction to programming using Microsoft Visual Studio. Course focus is on building basic graphical applications using the Python programming language. Lab fee $50.

**Intro to Windows OS**

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<th>Course Code</th>
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<td>3390 IT</td>
<td>117C4</td>
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<td>MWF</td>
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An introduction to Windows Operating System. Course will cover such things as the taskbar, Start menu, recycle bin, windows views, Window Explorer, storage devices, printing, saving, control panels, etc. Lab fee $25.

**Web Scripting 2**

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A second course in Web Development. Focus is on modern, responsive, and accessible web design using the latest web specifications. Students will be publishing their work on a web server. Prerequisite: IT 119.

**PC Operating Systems**

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<tr>
<th>Course Code</th>
<th>Instructor</th>
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<th>Days</th>
<th>Time</th>
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<td>123A5</td>
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<td>MTWTh</td>
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This course is based on the CompTIA A+ certification materials. Material covered includes operating system basics, operating system administration, security, network services, cloud computing, virtualization and troubleshooting theory. Lab fee $50.

**Advanced Networking**

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<tr>
<th>Course Code</th>
<th>Instructor</th>
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This second networking course is based on CompTIA Network+ certification materials. Material covered includes advanced concepts, implementation and terminology relating to LANs, WANs, VLANs, Routing and Wireless Networking. Prerequisite: IT 201. Lab fee $50.

**Java 3**

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<tr>
<th>Course Code</th>
<th>Instructor</th>
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Third and final course in the introduction to Java programming sequence. This course covers recursion, exception handling and recovery, remote file access, event driven programming, binary search trees and priority queues. Prerequisite: IT 224 and IT 228.

**INTENSIVE ENGLISH PROGRAM**

**Comprehensive Language 1 - 3**

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<th>Course Code</th>
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<td>9</td>
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<td>WSC 205</td>
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<td>3405 IEP</td>
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<td>9</td>
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<td>3407 IEP</td>
<td>075A4</td>
<td>9</td>
<td>Daily</td>
<td>9-10:50am</td>
<td>WSC 205</td>
<td>Burr</td>
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Students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Lab fee $20.

**Comprehensive Language 4**

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<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Credits</th>
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<td>3409 IEP</td>
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<td>Daily</td>
<td>9-10:50am</td>
<td>WSC 205</td>
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In this Level 4 Comm Language course, students will develop speaking, grammar, and composition skills needed to succeed in subsequent liberal arts and technical/occupational courses. Lab fee $44.95.

**MATHEMATICS**

**Basic Mathematics**

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<tr>
<th>Course Code</th>
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<td>3422 MATH</td>
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<td>3423 MATH</td>
<td>095N4</td>
<td>1-5</td>
<td>Daily</td>
<td>6:30-7:50pm</td>
<td>TSB 001</td>
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<tr>
<td>3424 MATH</td>
<td>096S4</td>
<td>1-5</td>
<td>Daily</td>
<td>4:30-6:50pm</td>
<td>MOR 112</td>
<td>Winkler</td>
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For students who need to review basic math concepts such as whole number, fraction and decimal operations. Appropriate placement test scores.

**Pre-Algebra**

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<th>Course Code</th>
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<td>1-5</td>
<td>Daily</td>
<td>4:30-6:50pm</td>
<td>MOR 112</td>
<td>Winkler</td>
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Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first degree linear equations. Prerequisite: MATH 095 or appropriate test score placement.

**Algebra for Statistics**

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>3433 MATH</td>
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<td>5</td>
<td>Daily</td>
<td>12-12:50pm</td>
<td>WSC 215</td>
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</table>

An algebra course for students intending to enroll in MATH& 146, Introduction to Stats. This course does not meet the algebra prerequisite for other quantitative skills courses or for transfer to the University of Washington. Prerequisite: MATH 096 or Compass score of 78+.
SCHEDULE

**Algebra I**

- 3434 MATH 098A4 (1-5) 7-7:50am Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3435 MATH 098B4 (1-5) 8-8:50am Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3436 MATH 098C4 (1-5) 10-10:50am Daily WSC 215 Brosz
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3437 MATH 098D4 (1-5) 11-11:50am Daily TSB 001 Brosz
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3438 MATH 098E4 (1-5) 1-1:50pm Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3440 MATH 098N4 (1-5) 4:30-6:50pm MW WAH 207 Pałkowski
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3441 MATH 098S4 (1-5) 4:30-6:50pm MW MOR 112 Winkler
- 3439 MATH 098FP1 (1-5) Online Ziegler

For students with good arithmetic skills and familiarity with signed numbers and basic algebraic expressions. Problem-solving skills are emphasized. Topics include: linear equations and inequalities, graphing, polynomials, and rational expressions. Prerequisite: MATH 096.

**Algebra II**

- 3442 MATH 099A4 (1-5) 7-7:50am Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3443 MATH 099B4 (1-5) 8-8:50am Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3444 MATH 099C4 (1-5) 9-9:50am Daily WSC 215 Brosz
- 3445 MATH 099D4 (1-5) 11-11:50am Daily TSB 001 Brosz
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3446 MATH 099E4 (1-5) 1-1:50pm Daily TSB 001 Spitzer
  Students enrolling in this section have the opportunity to complete MATH 096, 098, 099 in one quarter.
- 3447 ERA 101A3 (5) 8-11:50am TTh TAC 331 Kelley

The second in a four-quarter sequence. Covers the calculus of trigonometric functions and their inverses as defined on the unit circle and right triangles; identities, equations, and applications; complex numbers, polar coordinates, parametric equations, vectors, conics, and sequences and series. Prerequisite: MATH 097 or equivalent placement.

**Pre-Calculus I (M)**

- 3452 MATH 141A4 (5) 9-9:50am Daily WSC 108 Threapleton
- 3453 MATH& 141A4 (5) 9-9:50am Daily WSC 121 Staff
- 3454 MATH& 141B4 (5) 10-10:50am Daily WAH 105 Adams
- 3455 MATH& 141C4 (5) 12-12:50pm Daily WSC 108 Threapleton
- 3456 MATH& 141D4 (5) Online Adams
- 3457 MATH& 141E4 (5) 11:00-11:50am Daily WSC 121 Staff
- 3458 MATH& 141F4 (5) Online Adams
- 3459 MATH& 142A4 (5) 9-9:50am Daily WSC 109 Staff

Study of elementary functions (polynomial, exponential, logarithmic), systems of equations, matrix algebra. Modeling and problem solving techniques are emphasized from a graphic, symbolic and numeric perspective. Prerequisite: MATH 099 or equivalent placement.

**Pre-Calculus II (M)**

- 3463 MATH& 152A4 (5) 1-1:50pm Daily WSC 215 Adams
- 3464 MATH& 152B4 (5) 2-2:50pm Daily WSC 215 Adams
- 3465 MATH& 152C4 (5) 3-3:50pm Daily WSC 215 Adams
- 3466 MATH& 152D4 (5) 4-4:50pm Daily WSC 215 Adams
- 3467 MATH& 152E4 (5) 5-5:50pm Daily WSC 215 Adams

Designed to enhance math proficiency of liberal arts students as they meet personal and professional demands. Includes mathematics in management, statistics, probability, art, and other practical applications in society. Not preparation for calculus. Prerequisite: MATH 099 or equivalent.

**Statistics Prep Seminar**

- 3451 MATH 145A4 (1) 11-11:50am MTWTh WSC 205 Kielker

Refreshes and enhances the necessary prerequisite skills for a college-level statistics course. Topics include algebra for statistics, spreadsheet software skills, and probabilistic reasoning. Prerequisite: MATH 097, 099 or equivalent, or instructor permission. Class meets 9/16 - 10/9.

**Introduction to Stats (M)**

- 3450 MATH 146A4 (5) 1-1:50pm Daily WSC 215 Adams
- 3452 MATH 146B4 (5) 2-2:50pm Daily WSC 215 Adams
- 3453 MATH 146C4 (5) 3-3:50pm Daily WSC 215 Adams
- 3454 MATH 146D4 (5) 4-4:50pm Daily WSC 215 Adams

Introduction to concepts of data collection, organization and summaries. Develop the fundamental concepts of mean, median and standard deviation, probability, probability distributions, and apply these ideas to hypothesis testing, linear regression and analysis of variance. Prerequisite: MATH 097, MATH 099 or equivalent.

**Pre-Calc 1 Seminar**

- 4186 MATH 140A3 (1) 8-8:50am MTTH WAH 105 Adams

Supports skill development in students registered in MATH& 141 Pre-Calculus 1. Topics covered in this course include those defined in MATH& 141 and/or any prerequisite skills needed by the student to be successful in MATH& 141. Corequisite: MATH& 141.

- 3458 MATH& 141D1P1 (5) Online Adams

**Linear Algebra (M)**

- 3450 MATH 118A4 (5) 10-10:50am Daily WSC 213 Kielker

Computational and modeling tools with applications in physics, mathematics, engineering, economics, and business. Topics include systems of equations, matrix algebra, vector spaces, subspaces, bases, orthogonality, transformations, and eigenvalues. Prerequisite: MATH& 142 or equivalent placement.

**MECHATRONICS**

**Electronics Assembly**

- 3347 ERA 101A3 (5) 8-11:50am TTh TAC 331 Kelley

Techniques of electronics assembly using through-hole and surface mount components. Schematics and computer aided design will be studied. Heavy emphasis placed on personal and component safety and Electro-Static Discharge (ESD). Pre/corequisite: MATH 098, ENGL 099 or equivalent. Lab fee $83.75.
**Industrial Computer Operations**  
3464 MEC 105A (2) 12-12:50am MWF TAC 332 Steidel  
Best practices for computer operations in an industrial environment. Topics include Microsoft Windows operating system navigation, hardware maintenance and various industrial software interfaces. Lab fee $33.50.

**Mechanical Systems**  
3465 MEC 151A (5) 8-10:30am MWF TAC 333 Steidel  
Introduction to mechanical system components and safe operation of mechanical drive systems. Simple machines, basic drive systems, and operation of various tools will be studied. Lab fee $83.75.

**Sensors and Instruments**  
3466 MEC 220A (5) 9-11:30am MWF TAC 331 Kelley  
Examination of sensors and diagnostic tools used in industrial environments. Electrical and mechanical measurement instruments will be studied and troubleshooting steps performed to prove competency. Control systems will also be studied. Prerequisite MEC 151. Lab fee $83.75.

**Industrial Electronics**  
3467 MEC 250A (2) 11am-12:30pm TTh TAC 332 Steidel  
Study of electricity in an industrial facility. Topics covered will focus on 3-phase power analysis and motion control devices including motors, motor drivers and controls. Prerequisite: MEC 116 or equivalent knowledge of AC electricity. Lab fee $33.50.

**Allen Bradley PLCs**  
3468 MEC 260A (5) 12-2:30pm MWF TAC 333 Kelley  
Study of Allen Bradley programmable logic controllers. Input and output modules will communicate with peripheral devices such as sensors, motors, lights and relays. Heavy emphasis on ladder logic, safety, troubleshooting and efficiency. Lab fee $83.75.

### MEDIA STUDIES

**Sports Announcing for Football (C)**  
- 3414 M ST 1264A (1) 2-2:50pm M WAH 113 Fisher  
- Learn and apply the basic skills and knowledge required of today’s football announcers. This course will emphasize practical tips, ideas and theories that will help you on your way to becoming a quality football announcer.

**Intro to Radio Broadcasting (C)**  
- 3415 M ST 2304A (5) 12-12:50pm Daily WAH 115 Fisher  
- As an introduction to radio broadcasting you will learn about programming philosophies, announcing skills, production techniques, copy writing and the FCC rules and regulations that apply to the industry. Lab fee $17.94.

**Intro to TV & Video Production**  
- 3416 M ST 2604A (5) 1-1:50pm MWF WAH 105 Fisher  
- 1-1:50pm TTh WAH0140 Fisher  
- Learn studio and control room operations, field and studio camera techniques, basic script writing and video editing. At the end of the quarter students will be able to write, produce and edit short videos. Lab fee $17.94.

**Radio Broadcasting Internship**  
- 3417 M ST 2714A (1) ARR ARR WAH0140 Fisher  
- 3418 M ST 2724A (2) ARR ARR WAH0140 Fisher  
- 3419 M ST 2734A (3) ARR ARR WAH0140 Fisher  
- 3420 M ST 2744A (4) ARR ARR WAH0140 Fisher  
- Practice and perfect your announcing skills on the campus radio station KCED FM. Prerequisite: MST 230, 231 or permission of the instructor.

**TV Broadcasting Internship**  
- 3421 M ST 2814A (1) ARR ARR WAH0140 Fisher  
- Designed for students who wish to produce independent video projects outside of the classroom environment. Permission of instructor required. Prerequisite: MST 260, 261, 262.

### MEDICAL ASSISTANT

**MA Medical Terminology**  
- 3410 MA 139A3 (5) 9-9:50am MTWTh TEC 133 Boerner  
- +1 hr/wk TBA  
- A required class for all students enrolled in the Medical Assistant Program to develop a medical vocabulary from an anatomy, physiology, and pathology format. It is suitable for others entering medical-related fields. Lab fee $5.

**Intro to Medical Assistant**  
- 3411 MA 140A3 (5) 7-7:50am Daily WAH 146 Jenkins  
- +1 hr/wk TBA  
- An introduction to the profession of the Medical Assistant in the health care setting. Designed to explore the fundamentals of the scope of practice in a lecture and lab setting. Lab fee $33.

**MA Clinical Procedures**  
- 3412 MA 241A3 (6) 1-2:20pm MTWTh WAH 146 Boerner  
- 9am-12pm F WAH 146 Boerner  
- Overview of physical examinations, procedures, and testing that a medical assistant would assist a health care provider with in an ambulatory care setting. Prerequisite: acceptance into 2nd year MA. Lab fee $77.

**MA Admin Procedures**  
- 3413 MA 249A3 (8) 10-11:50am MTWTh WAH 212 Boerner  
- Administrative protocols and procedures related to front and back office responsibilities in an ambulatory care setting; with emphasis on communications, medical records management, and fiscal management practices. Prerequisite: acceptance into 2nd year MA program. Lab fee $18.50.

### MUSIC

**Fundamentals of Music (H)**  
- 3476 MUSC 100A (5) 8-8:50am Daily WAH 125 Odonel  
- Introduction to the elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter and rhythm.

**Music Appreciation (D)(H)**  
- 3525 MUSC& 105AP1 (5) Online May  
- Developing an understanding of music through the study of musical elements and cultural contexts.

**Jazz Ensemble I-VI**  
- 3477 MUSC 124N (2) 6-8:30pm W WAH 150 Blaser  
- 3478 MUSC 125N (2) 6-8:30pm W WAH 150 Blaser  
- 3479 MUSC 126N (2) 6-8:30pm W WAH 150 Blaser  
- 3480 MUSC 127N (2) 6-8:30pm W WAH 150 Blaser  
- 3481 MUSC 128N (2) 6-8:30pm W WAH 150 Blaser  
- 3482 MUSC 129N (2) 6-8:30pm W WAH 150 Blaser  
- Performing ensemble made up of students and community members. The ensemble’s instrumentation is flexible, depending on availability of musicians. One evening rehearsal and one evening concert will be required. Off campus performances may be required. Lab fee $17.49.
### Beginning Guitar

3483 MUSC 135A (2) 1:30-2:50pm TTh WAH 107 Tillinghast

Presents the basic skills for reading and techniques needed to play the guitar. Intended for students with little or no background in guitar performance. Students must supply their own acoustic guitar.

### Music of the World (D)(H)

3484 MUSC 139A (5) 9-9:50am Daily WAH 103 Odonel

A music survey of diversity found in music around the world. Examines music as accompaniment to ceremony and ritual, aid to work and routine, and an expression of universal unchanging human emotions. Prior musical experience is not necessary. Prerequisite: proficiency in reading, grammar skills.

### History of American Music (D)(H)

- **Class Code:** 3485 MUSC 140AP1 (5) Online May

This course offers students a thorough and general study of American Music from Tin Pan Alley to the first part of the 21st Century.

### Music Theory I (H)

- **Class Code:** 3526 MUSC& 141A4 (5) 10-10:50am Daily WAH 125 May

A study of musical concepts, such as pitch and rhythmic notation, scales and modes, key signatures, intervals, seventh chords and triads. Prerequisite: MUSC 100 or placement by instructor.

### Concert Choir I-VI

- **Class Code:** 3486 MUSC 144N (2) 6:30-9pm Th WAH 103 Jardine
- **Class Code:** 3487 MUSC 145N (2) 6:30-9pm Th WAH 103 Jardine
- **Class Code:** 3488 MUSC 146N (2) 6:30-9pm Th WAH 103 Jardine
- **Class Code:** 3489 MUSC 147N (2) 6:30-9pm Th WAH 103 Jardine
- **Class Code:** 3490 MUSC 148N (2) 6:30-9pm Th WAH 103 Jardine
- **Class Code:** 3491 MUSC 149N (2) 6:30-9pm Th WAH 103 Jardine

A vocal ensemble performing both sacred and secular music literature. Availability for up to two evening performances is required. Lab fee $17.49.

### Applied Flute

3492 MUSC 150A (1) ARR ARR ARR Odonel

This course teaches performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Prerequisite: ensemble and/or music theory, and instructor permission. Lab fee $300.

### Functional Piano I

3493 MUSC 151A (1) 4-4:50pm T WAH 125 Tillinghast

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Corequisite: simultaneous enrollment in music theory class.

### Applied French Horn

3494 MUSC 154A (1) ARR ARR ARR Blaser

### Applied Trumpet

3495 MUSC 155A (1) ARR ARR ARR Blaser

### Applied Trombone

3496 MUSC 156A (1) ARR ARR ARR Blaser

### Applied Tuba

3497 MUSC 157A (1) ARR ARR ARR Blaser

### Applied Euphonium

3498 MUSC 158A (1) ARR ARR ARR Blaser

### Applied Percussion

3499 MUSC 159A (1) ARR ARR ARR Blaser

### Applied Piano

- **Class Code:** 3500 MUSC 160A4 (1) ARR ARR ARR May

### Applied Violin

- **Class Code:** 3501 MUSC 161A (1) ARR ARR ARR Scarborough

### Applied Viola

- **Class Code:** 3502 MUSC 162A (1) ARR ARR ARR Scarborough

### Applied Cello

- **Class Code:** 3503 MUSC 163A (1) ARR ARR ARR Staff

### Applied Double Bass

- **Class Code:** 3504 MUSC 164A (1) ARR ARR ARR Staff

### Applied Guitar

- **Class Code:** 3505 MUSC 165A (1) ARR ARR ARR Tillinghast

### Applied Saxophone

- **Class Code:** 3506 MUSC 166A (1) ARR ARR ARR Blaser

### Applied Voice

- **Class Code:** 3507 MUSC 167A (1) ARR ARR ARR Colgan

### Applied Composition

- **Class Code:** 3508 MUSC 168A4 (1) ARR ARR ARR May

### Applied Clarinet

- **Class Code:** 3509 MUSC 169A (1) ARR ARR ARR Blaser

### Applied Oboe

- **Class Code:** 3510 MUSC 170A (1) ARR ARR ARR Blaser

### Applied Bassoon

- **Class Code:** 3511 MUSC 171A (1) ARR ARR ARR Staff

### Applied Harp

- **Class Code:** 3512 MUSC 172A (1) ARR ARR ARR Scott

These courses teach performance skills to students majoring in music. Musical literature from various style periods and composers will be selected to acquaint the student with a wide range of repertoire written for the instrument. Prerequisite: ensemble and/or music theory, and instructor permission. Lab fee $300.

### Community Band I-VI

- **Class Code:** 3513 MUSC 175N (2) 7-9pm T WAH 152 Blaser
- **Class Code:** 3514 MUSC 176N (2) 7-9pm T WAH 152 Blaser
- **Class Code:** 3515 MUSC 177N (2) 7-9pm T WAH 152 Blaser
- **Class Code:** 3516 MUSC 178N (2) 7-9pm T WAH 152 Blaser
- **Class Code:** 3517 MUSC 179N (2) 7-9pm T WAH 152 Blaser
- **Class Code:** 3518 MUSC 180N (2) 7-9pm T WAH 152 Blaser

Performance ensemble consisting of students and community members. Repertoire will vary and be selected by the band director(s). The ensemble consists of band instrumentation and meets weekly for three hours. Lab fee $10.
Performing ensemble made up of students and community members. Repertoire will vary and will be selected by the orchestra director. The ensemble consists of orchestral instrumentation and meets weekly for three hours. Lab fee $10.

Music Theory IV (H)
- 3527 MUSC& 241A4 (5) 2-2:50pm Daily WAH 125 May
- 3528 MUSC& 241B1P (5) CANCELED
A study of musical concepts, such as modulation, binary and ternary forms, and contrapuntal genres, including fugues and inventions. Prerequisite: MUSC& 143.

NURSING

Basic Nursing Care Concepts
- 3529 NURS 101A4 (12) ARR Daily WSC 202 Team Taught
Program themes of homeostasis, the role of the nurse, and continuum of care are applied at on-campus theory and skills labs and off-campus clinical experiences at assisted living and long-term care facilities. Prerequisite: admission to the Centralia College Nursing Program. Lab fee $208.27.

Mental Health & Lifespan
- 3530 NURS 201A4 (10) ARR Daily WSC 202 Team Taught
Progressive competencies reflecting program themes are applied to the care of clients with mental health alterations, complications of child-bearing and high-risk newborns and children. Community-based and in-patient clinical experiences are provided. Prerequisites: NURS 101, NURS 102, NURS 103 and corequisite: NURS 220 or equivalent. Lab fee $219.53.

Basic Life Support for Healthcare Providers
- 3531 NURS 210A (1) 9am-1pm ARR ARR Layton
Covers the information and skills needed for adult, child, and infant cardiopulmonary resuscitation; the use of an automated external defibrillator; recognition and treatment of choking; safety factors in training and actual rescue. Corequisite: admission to the nursing program or permission of the instructor. Lab fee $36.52.

Management & Leadership
- 3532 NURS 220A4 (2) ARR Daily WSC 202 Schuchmann
Expands on the program theme of the role of the nurse to provide a stronger theoretical foundation for assuming a management and leadership role in a variety of care settings. Prerequisite: NURS 101, 102 and 103 or equivalent; corequisite: NURS 201. Lab fee $54.16.

NURSING ASSISTANT

Home Care Aide
- 4151 HLSV 100A (7) CANCELED
Course meets state training requirements while providing basic awareness of the role of a Home Care Aide (HCA) and the skills required for the WA State HCA Written and Skills Exams. Background check required. Lab fee $183.50.

Nursing Assistant Certification
- 3566 HLSV 131A (9) 8am-12pm MTWTh TEC 115 Speer
- 3567 HLSV 131B (2) 2-2:50pm Th WSC 303 Norton
- 3568 HLSV 131C (9) 8am-12pm MTW Th WSC 101 Norton
Awareness of the role of the nursing assistant in nursing care and skill development. Topics: maintain a safe environment, provide restorative care, communication, and practice basic concepts of care. Background check is required for clinical. Lab fee $191.30. Class meets 9/16-11/4; clinicals meet 11/5-11/27.

NUTRITION

Nutrition (NS)
- 3533 NUTR& 101A4 (5) 8-8:50am Daily WSC 109 Jewell
- 3534 NUTR& 101B1P (5) Online Ibrahim
An exploration of the six basic nutrients with diet planning principles, human metabolism, weight control and digestion also being studied. Some chemistry or biology background is helpful. Prerequisite: prior knowledge of chemistry or biology would be helpful.

OCEANOGRAPHY

Intro to Oceanography (NS)
- 3536 OCEA& 101B1P (5) 2-3:30pm Th WSC 303 Norton
- 3535 OCEA& 101A4 (5) 10-10:50am MTWTh WSC 101 Norton
Meets requirement for lab course. Explore the physical, geological, chemical and biological characteristics of the ocean: waves and tides, ocean and atmosphere circulation, coastal features and beach processes, ocean basins, sediments, ocean chemistry and physics, plate tectonics, and marine life. Lab fee $17.94.

PHILOSOPHY

Intro to Philosophy (H)
- 3574 PHIL& 101AP1 (5) Online Diamant
Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism.

Introduction to Ethics (H)
- 3573 PHIL 103AP1 (5) Online Diamant
Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas.

PHYSICAL EDUCATION

Basketball
- 3537 P E 103A (1) ARR ARR ARR Sells
- 3538 P E 103B (1) ARR ARR ARR Moir
This course will cover the basic skills and techniques of basketball. Includes team defense and team offense. Lab fee $3.10.

Soccer Fundamentals
- 3539 P E 108A (1) ARR ARR ARR Gundersen
This course will cover the basic skills and techniques of soccer. Includes team defense and team offense. Lab fee $3.10.
**Physical Fitness (HF)**
- **3540 P E 110R (1) 9:30-10:30am TTh MOR 101 Jones**
  - Study all five areas of fitness: aerobic endurance, muscle strength, muscle endurance, flexibility, and body composition. Students work at their own fitness levels. Lab fee $3.10. **Class meets 9/24-11/26.**

**Volleyball**
- **3541 P E 115A (1) 12-12:50pm TTh MSG 103 Ewings**
  - This course will cover the fundamental skills and techniques of beginning volleyball. Includes basic rules, scoring and strategy. Lab fee $3.10.

**Lifestyle Mgmt & Exercise (HF)**
- **3542 P E 120A4 (2) 9-9:50am MWF MSG 125 Goss**
  - Designed to assist individuals in making life style changes associated with health and fitness. Lab fee $3.10.

**Stretching & Flexibility (HF)**
- **3543 P E 121A4 (1) 12-12:50pm TTh MSG 200 Johnson**
  - Learn and perform safe stretches to increase flexibility and range of motion. Understand how stretching can help decrease injury, recover after other workouts and calm the mind and body. Lab fee $3.10.

**Basic Weight Training/Conditioning (HF)**
- **3544 P E 123A4 (1) 10-10:50am MW MSG 125 Goss**
  - Designed to condition the musculature of the body using machine and free weights. Lab fee $3.10.

**Free Weights (HF)**
- **3545 P E 125A (1) 10-10:50am TTh MSG 130 Bower**
  - Designed to develop muscle fitness through lifting free weights, Olympic lifts, plyometrics and power lifting. Students need prior weight training experience. Lab fee $3.10.

**Volleyball Applications**
- **3546 P E 139N (3) ARR ARR ARR Gordon**
  - A course designed to provide experiences in advanced strategies, skills, and team concepts of volleyball. Prerequisite: PE 115 or instructor permission. Lab fee $3.10.

**Cardio Conditioning (HF)**
- **3547 P E 142A4 (1) 10-10:50am TTh MSG 200 Goss**
  - A combination of current cardio experiences to improve cardiovascular endurance, body composition, muscle fitness and flexibility. A variety of movements will be explored, including step aerobics, kickboxing, HIIT, Zumba and circuits. Lab fee $3.10.

**Yoga (HF)**
- **3548 P E 150A4 (1) 9-9:50am TTh MSG 200 Goss**
  - An exercise class integrating components of flexibility, muscular strength and endurance, and relaxation. Students will be encouraged to work at their own level of fitness. Lab fee $3.10.

**Pilates/Core (HF)**
- **3550 P E 152A4 (1) 11-11:50am MW MSG 200 May**
  - An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Lab fee $3.10.

**Tai Chi Basics (HF)**
- **3553 P E 153A (1) 8-8:50am MW MSG 200 Barr**
  - Develop balance, lower-body strength and relaxation in motion with Wu Style Tai Chi. Students will work at their own level of fitness. Lab fee $3.10.

**Beginning Tae Kwon Do (HF)**
- **3564 P E 158N (2) 6-8pm MW MSG 200 Newkirk**
  - Develop balance, coordination, agility, spatial awareness, strength, and flexibility through the Korean art of Tae Kwon Do. Students will work at their own level of fitness. Lab fee $3.10.

**Intermediate Tae Kwon Do**
- **3555 P E 159N (2) 6-8pm MW MSG 200 Newkirk**
  - Further development of the techniques, forms, the sport, and self defense aspects required to advance to blue belt in the Korean martial art of Tae Kwon Do. Lab fee $3.10.

**Advanced Tae Kwon Do**
- **3556 P E 160N (2) 6-8pm MW MSG 200 Newkirk**
  - Further development of the techniques, forms, the sport, and self defense aspects required to advance to blue and orange belt in the Korean martial art of Tae Kwon Do. Lab fee $3.10.

**Softball Fundamentals**
- **3557 P E 162A (1) ARR MWF CEN Storey**
  - A mental and physical approach to the fundamentals of fastpitch softball. An emphasis will be placed on the basic skills and concepts needed to play the game effectively. Lab fee $3.10.

**Basketball Fundamentals**
- **3558 P E 166A (1) ARR ARR ARR Emsley**
  - On-the-field practice in development of the basic fundamentals of baseball. Emphasis on basic skills and conditioning. Lab fee $18.75.

**Baseball Fundamentals**
- **3559 P E 167A (1) ARR ARR ARR Sells**
  - This course will implement basic skills with theory of various phases of the game. Conditioning for a lifetime activity is an important aspect of the course. Lab fee $3.10.

**Lifetime Fitness (HF)**
- **3561 P E 168A3 (2) 10-10:50am MW MSG 106 Haselwood**
  - Cardiovascular endurance, muscle fitness, weight management and flexibility will be studied. One lecture hour and two hours of activity per week. Lab fee $3.10.

**Advanced Basketball**
- **3562 P E 203A (1) ARR ARR ARR Sells**
  - This course will review basic skills and techniques of basketball. Included in the course will also be advanced skills and techniques along with game strategies. Included team offense and team defense. Prerequisite: PE 103 or instructor permission. Lab fee $3.10.

**Adv Soccer Fundamentals**
- **3564 P E 208A (1) ARR ARR ARR Gundersen**
  - This course will review basic skills and techniques of soccer. Included in the course will be advanced skills and techniques along with game strategies, team offense and team defense. Prerequisite: PE 108 or instructor permission. Lab fee $3.10.

**Advanced Physical Fitness (HF)**
- **3565 P E 210R (1) 9:30-10:30am TTh MOR 101 Jones**
  - Designed to continue the individual's personal health-related physical fitness - cardiovascular endurance, muscular strength, muscular endurance, body composition and flexibility. Students will be encouraged to work at their own level of fitness. Prerequisite: PE 110 or instructor permission. Lab fee $3.10. **Class meets 9/24-11/26.**
Advanced Volleyball
3566 P E 215A (1) 12-12:50pm TTh MSG 103 Ewings
Advanced techniques and skills included in competitive volleyball. Advanced offensive and defensive tactics and strategy will be covered. Prerequisite: PE 115 or instructor permission. Lab fee $3.10.

Physical Fitness Concepts (HF)
 3567 P E 229AP1 (3) Online Johnson
A combination of theory and practice in the development of physical fitness. Two lecture hours and two activity hours per week. Lab fee $3.10.

Advanced Volleyball Applications
3568 P E 239N (3) ARR ARR ARR Gordon
Provides experiences in advanced techniques and tactics needed to execute advanced team concepts of volleyball. Lab fee $3.10.

Advanced Softball Fundamentals
3569 P E 262A (1) ARR MWF CEN Storey
Continuation of the physical and mental skills needed for playing fastpitch softball. Emphasis will be on a variety of strategies utilizing in the game of softball. Lab fee $3.10.

Advanced Basebal Fundamentals
3570 P E 265A (1) ARR ARR ARR Emsley
On the field practice in development of the advanced fundamentals of baseball. Emphasis on advanced skills, strategies, and techniques. Prerequisite: PE 166 or instructor permission. Lab fee $18.75.

Advanced Basketball Fundamentals
3571 P E 267A (1) ARR ARR ARR Sells
3572 P E 267B (1) ARR ARR ARR Moir
More advanced skills practiced. Prerequisite: PE 167 or instructor permission. Lab fee $3.10.

ENGINEERING

Engineering Physics I (NS)
3576 PHYS& 221A (5) 8-8:50am MTWTh WSC 108 Threapleton
3577 PHYS& 221B (5) 8-8:50am MTWTh WSC 108 Threapleton
First in a three quarter calculus-based sequence for science and engineering majors stressing classical mechanics. Include dynamics of translational, rotation, and oscillatory systems of solids, particles and fluids. Prerequisite: MATH& 151; corequisite: MATH& 152. Lab fee $18.68.

Research in Physics
3575 PHYS 270A (12) ARR ARR ARR Threapleton
Design a research project, set up experiments, collect data in the lab or in the field, and/or analyze data. Each credit hour requires 33 hours of activity per quarter. Prerequisite: instructor permission.

POLITICAL SCIENCE

Intro Political Science (SS)
3578 POLS& 101A (5) 9-9:50am Daily WSC 204 Peterson
Exploration of the fundamentals of political science: key concepts, principles, and theories. Analyze why and how leaders make the decisions they do, and why citizens obey most of these decisions.

American Government (SS)
 3579 POLS& 202AP1 (5) Online McCulloch
Students will examine the American political structure and its ideological roots. We will explore how the structure is organized and how it operates.

PSYCHOLOGY

General Psychology (SS)
 3584 PSYC& 100AT4 (5) 9-9:50am Daily WSC 211 Starroff
 3585 PSYC& 100B4 (5) 10-10:50am Daily WSC 107 MacNamara
 3586 PSYC& 100C3 (5) 2-2:50pm TTh WSC 107 MacNamara
 3587 PSYC& 100RT4 (5) 9-9:50am Daily MOR 110 Starroff
 3588 PSYC& 100EP1 (5) Online MacNamara
 3589 PSYC& 200AP1 (5) Online MacNamara
An introduction to the scientific study of behavior: history, research methods, biology of behavior, lifespan development, sensation and perception, learning, memory, intelligence, motivation, emotion, personality, psychological disorders and therapies, and social psychology.

Lifespan Psychology (SS)
 3590 PSYC& 200AP1 (5) Online MacNamara
 3591 PSYC& 200B1 (5) Online Osawa
Human development from conception to death. Basic concepts and principles of biological, cognitive, and psychosocial development are integrated for each age period. Typical developmental tasks as well as problems are emphasized. Prerequisite: PSYC& 100.

READING

Specific Reading Skill Development
 3592 READ 097B4 (1-3) ARR MW WSC 110 Shriver G
3593 READ 097N (1-3) 5-7:20pm MW WSC 110 Shriver G
This course is designed to provide students with opportunities to improve their reading in specifically identified areas of need. Comprehension building, word attack skills, and content area reading are a few of the specific areas that can be targeted by this class.

Improvement of Reading
3594 READ 099A (1-5) 11-11:50am Daily MSG 115 Shriver G
3595 READ 099B4 (1-3) 10-10:50am Daily WSC 107 MacNamara
3596 READ 099N (1-5) 5-7:20pm MW WSC 110 Shriver G
Students strengthen thinking, reading comprehension, and vocabulary skills in learning to read and study textbooks, writing summaries, note taking, and test taking. Completion of course satisfies the basic skill deficiency in reading. Prerequisite: COMPASS placement (reading) 49.

Speed Reading
3597 READ 110A (3) ARR ARR ARR Shriver G
Self-paced course for students wishing to increase reading rate and comprehension using proper eye movements, improved vocabulary, and correct reading methods based on reading material. Prerequisite: college level reading and vocabulary skills.

SOCIOLGY

Intro to Sociology (SS)
 3612 SOC& 101A4 (5) 8-8:50am Daily WSC 208 Lyle
 3613 SOC& 101B4 (5) 9-9:50am Daily WSC 107 Seabert
 3614 SOC& 101C4 (5) 11-11:50am Daily WSC 108 Bryant
 3615 SOC& 101D1P (5) Online Tate
Study of society and human interaction. Topics include social ranking, change, deviance, social control, the creation of thought and personality, groups, institutions, political and economic power, social movements, and how to gather valid sociological information.
**Social Problems (SS)**

前置：3616 SOC & 201A4 (5)  10-10:50am  每日  WSC 208  Avalos

研究社会问题在社会中的问题以及我们如何看待某些社会条件作为社会问题。主题包括技术、环境、人口、经济、阶级、种族/族裔关系、性别、年龄、家庭问题、教育、城市、侵犯、犯罪、心理健康、身体健康。

**Cultural & Ethnic Pluralism (D)(SS)**

前置：3611 SOC 225AP1 (5)  在线  Bryant

研究种族、民族身份和文化特征的民族和社会群体在北美和世界。理解社会组织与形式的社会、经济和政治控制和从属关系。

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**SPANISH**

**Spanish I (H)**

前置：3617 SPAN & 121A4 (5)  8-8:50am  每日  WSC 210  Gorecki
前置：3618 SPAN & 121B4 (5)  10-10:50am  每日  WSC 210  Gorecki
前置：3619 SPAN & 121C4 (5)  1-1:50pm  每日  WSC 107  Martinez
前置：3620 SPAN & 121DP1 (5)  在线  Martinez

第一类为100级课程。学习听、说、读、写的基本技能。培养对西班牙语国家和文化意识。是100级水平的系列课程。

**Spanish IV (H)**

前置：3621 SPAN & 221A4 (5)  11-11:50am  每日  WSC 210  Gorecki

第四类为序列的课程。学习听、说、读、写的基本技能。培养对西班牙语国家和文化意识。先修课程：西班牙语III或等同水平的高中西班牙语。

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**STUDENT DEVELOPMENT**

**Study Skills**

前置：3590 SDEV 099N (1-5)  5-7:20pm  MW  WSC 110  Shriver, G

学生学习有效的学习技能和技巧。课程包括学习风格评估、时间管理、研究、记忆技巧、考试策略和研究技术。

**Career Planning**

前置：4120 SDEV 105A4 (2)  CANCELED
前置：3599 SDEV 105B1 (2)  在线  Mercer
前置：3600 SDEV 105C1 (2)  在线  Mercer
前置：4178 SDEV 105E4 (2)  1-1:50pm  MTWTh WAH 214  Rauscher
前置：4179 SDEV 105D4 (2)  1-1:50pm  MTWTh WAH 214  Rauscher

学生根据自己的兴趣、技能和能力评估自己的个性、价值观和工作环境。活动包括兴趣调查、计算机程序、工作市场研究和信息访谈和活动。格式为讲座、讨论、小组活动和个别工作。实验室费用$17.94。**Section A meets 10/14 - 12/2; section E4 meets 9/23 - 10/24; section D4 meets 10/28 - 12/7.**

**Student Success**

前置：3602 SDEV 150A4 (3)  12-12:50pm  每日  WSC 101  Rauscher
前置：3603 SDEV 150B4 (3)  12-12:50pm  每日  WSC 101  Hafezi
前置：3604 SDEV 150C4 (3)  1-1:50pm  每日  WSC 110  Burr
前置：3607 SDEV 150R4 (3)  9-10:20am  TTh  MOR 108  Barnes

大学成功策略：目标设定、时间管理、记忆改进、教科书阅读策略、考试策略、项目管理。由教师、小组和个人工作。包括周六的实地考察挑战课程活动。实验室费用$36.91。**Section A4 meets 9/16 - 10/21; section B4 meets 10/22 - 12/5; section C4 meets 9/16 - 10/21.**

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**WELDING**

**SMAW Welding**

前置：3624 WELD 161A (12)  11-11:50am  每日  TEC 103  Hegsted
前置：3624 WELD 161A (12)  12-2:50pm  每日  TEC 105  Hegsted

气护焊焊接技术、设计、电极选择、焊接设备的设置和操作。实验室练习包括对接、搭接、T型和角焊缝在所有位置。焊条测试和空气碳弧切割包括在内。实验室费用$138.75。**Metallurgy for Welders**

前置：3625 WELD 167A (3)  3-4:30pm  MTW  TEC 105  Hegsted

研究对焊接技术、提取金属的焊接技术、金属的机械、物理和化学性质以及加热和热处理技术。实验室费用$8。

**Shielded Metal Arc Welding**

前置：4150 WELD 181N (5)  5-8:30pm  TTh  TEC 103  Hegsted

安全、设置和焊接在所有位置使用金属电弧焊接设备。实验室费用$73.78。

**Advanced Arc Welding**

前置：3626 WELD 265A (12)  8-8:50am  每日  TEC 103  Peters
前置：3626 WELD 265A (12)  9-11:50am  每日  TEC 105  Peters

高级弧焊理论和实践的高级保护电弧焊接（SMAW）准备为华盛顿建筑官员（WABO）认证考试在板和管。先修课程：WELD 161或导师许可。完成1年焊接。实验室费用$138.75。

**Blueprint Reading**

前置：3627 WELD 271A (3)  12-1:30pm  TTh  TEC 105  Peters

图纸解读技术。包括在焊接行业图纸解读、符号解读、焊接技术、焊接识别和焊接缩略语。
**BACHELOR OF APPLIED SCIENCE CLASSES**

To learn more about the Bachelor of Applied Science Programs offered at Centralia College, please go to [http://bachelors.centralia.edu/](http://bachelors.centralia.edu/)

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**Governmental Accounting**
- 4107 ACCT 401N3 (5) 6-7:50pm Th WSC 111 Broderson
  +3 hours/week TBA

An accounting course as it applies to government and not-for-profit entities. The topics include fund management, budget preparation, presentation of both fund and government-wide financial statements, and not-for-profit entity financial performance. Prerequisite: ACCT& 202 or by permission.

**Life Science Concepts (NS)**
- 3126 BIOL 360A3 (5) 5-5:50pm Th WSC 111 Ibrahim
  6-7:50pm Th WSC 303 Ibrahim
  +3 hours/week TBA

Fundamentals of structure and function from subcellular to organismal levels. Sources of variation in traits and inheritance. Ecological and ecosystem dynamics. Evolution, natural selection, and adaptation. BAS-TE students will develop grade-appropriate lesson plans/activities. Prerequisite: five credits of lower division Natural Science. Lab fee $20.

**Professional & Organizational Communication (H)**
- 3236 CMST 330A3 (5) 10-10:50am Daily WAH 207 Copeland
  12-12:50pm MTWTh WAH 207 Copeland
  +1 hour/week TBA

- 3238 CMST 330N3 (5) 7-8:50pm T WSC 111 Schimelpfenig
  +3 hours/week TBA

Foundation course designed to develop effective written and verbal communication skills in organizational settings. Students will gain an appreciation for the crucial role communication plays in organizations and how to improve their employability. Prerequisite: five credits of lower division Humanities.

**Applied Management**
- 3254 DET 300A3 (5) 8-9:50am MTWTh TEC 159 King
  +2 hours/week TBA

Introduces the principles and concepts of effective management including human resource management, quality control, social responsibility, decision-making, communication, conflict resolution and customer service. Prerequisite: enrollment in BAS-DT or instructor permission. **Class meets 10/21 - 12/6.**

**Emissions Control**
- 3255 DET 320A3 (5) 8-8:50am MTWTh TEC 133 Lucas
  9-11:30am MTWTh TEC 154 Lucas

Course content will focus on the theory and application of diesel exhaust emissions reduction technology. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee $75. **Class meets 9/16 - 10/17.**

**Shop/Fleet Management**
- 3256 DET 430A3 (5) 8-8:50am MTWTh TEC 159 Lucas
  9-11:30am MTWTh TEC 154 Lucas

Introduction and explanation of day-to-day shop processes. Managerial skills, tasks, and responsibilities relevant to the diesel and heavy equipment industry will include: warranties, policies, cores, credits, paper in process, work orders, and budgeting. Prerequisite: enrollment in BAS-DT or instructor permission. Lab fee $75. **Class meets 10/21 - 12/6.**

**Applied Failure Analysis**
- 3257 DET 455A3 (5) 8-8:50am MTWTh TEC 159 Conrad
  9-11:30am MTWTh TEC 154 Conrad

This course focuses on material failures, techniques of failure analysis, and examination/identification of failure root causes. Students will learn to interpret and explain their results to customers. Prerequisite: admittance into BAS-DT or administrative permission. Lab fee $100. **Class meets 9/16 - 10/17.**

**Intro to Special Ed**
- 3271 EDUC 300N3 (5) 5-6:50pm T WSC 211 Smith
  +3 hours/week TBA

Provides an overview of the philosophical, historical and social implications of exceptional characteristics of students with disabilities, English language learners, and gifted and talented students.

**Teaching and Technology**
- 4108 EDUC 330N3 (5) 7-8:20pm T WSC 101 Ryan
  +1.5 hours/week TBA

- 4109 EDUC 330A3 (5) 8-9:20pm Th WSC 101 Ryan
  +1.5 hours/week TBA

This course focuses on various education technologies, ranging from classroom equipment to online learning management systems, with a particular focus on students’ physical and emotional safety.

**Diversity in Students**
- 3273 EDUC 350N3 (5) 8-9:20pm Th WSC 107 Mullins
  +1 hour/week TBA

Using theory, research and practice, students will understand and recognize issues of diversity. Behavioral supports will be assessed relative to vulnerable, special, and minority populations. Topics will include race, ethnicity, gender, class, sexuality, disability, and age. Prerequisite: admission to BAS-TE/instructor permission.

**Development of Differently-Abled**
- 3274 EDUC 380N3 (5) 5-6:50pm T WSC 101 Mackey
  +3 hours/week TBA

Examine typical and atypical development. Identify characteristics of differing abilities, including physical or medical needs and effects disabilities have on educational implications and individual and family lives.

**Special Topics**
- 3275 EDUC 385N3 (5) 8-9:20pm Th WSC 101 Ryan
  +1.5 hours/week TBA

Investigating and responding to current issues and trends in Special Education in order to understand and meet the needs of students.

**Curriculum & Instruction**
- 3277 EDUC 420N3 (5) 5-6:50pm Th WSC 101 Grande
  +3 hours/week TBA

Explore a variety of evidence-based instructional strategies for successful education of students with differing social and cultural backgrounds, and learning styles. Plan and implement class activities that involve students in an active learning environment.

**Integrated Methods**
- 3279 EDUC 425N3 (5) 5-6:50pm T WSC 101 Grande
  +3 hours/week TBA

Students explore integrated methods, strategies, and materials for teaching science, math, and social studies in K-8 classrooms. Students will apply standards and design inquiry-based lessons with cooperative learning strategies infusing literacy, creative arts, and technology.
**SCHEDULE**

### BACHELOR OF APPLIED SCIENCE CLASSES

<table>
<thead>
<tr>
<th>Practicum 1</th>
<th>3281 EDUC 481N3 (2)</th>
<th>7-7:50pm</th>
<th>Th</th>
<th>WSC 108</th>
<th>Smith</th>
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<td>+3 hours/week TBA</td>
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Provides students with a foundation for understanding and articulating issues related to content in curriculum and instruction, diversity in students and special education. Students participate in 30 hours K-8 classroom experience.

### Practicum 4

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<th>3282 EDUC 484N3 (2)</th>
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<th>WSC 211</th>
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<td>+3 hours/week TBA</td>
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This course allows students to integrate into schools and participate in the beginning of the year classroom set-up, teacher in-service, and first days of school for the classroom in which they will be student teaching.

### Environmental Issues (NS)

<table>
<thead>
<tr>
<th>4104 ENVS 440A4 (5)</th>
<th>10-10:50am</th>
<th>Daily</th>
<th>WSC 206</th>
<th>Carlson L</th>
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<tr>
<td>3344 ENVS 440N3 (5)</td>
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<td>WSC 206</td>
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An exploration of environmental issues and their effect on business, communities and consumers. Case studies are used to examine basic concepts of ecology and environmental science as they relate to permitting and other business decisions. Prerequisite: lower division Natural Science course.

### Application Development Fundamentals

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<tr>
<th>4184 IT 301A3 (5)</th>
<th>3-4:50pm</th>
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<th>WAH 216</th>
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<td>+2 hours/week TBA</td>
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Fundamental application development skills needed for construction of mid-sized stand-alone software systems. Topics include object-oriented principles (encapsulation, polymorphism, inheritance), object-oriented design process, UML diagrams, design patterns, application frameworks (MVC, MVVM, MVP), and design quality criteria. Students must complete an individual programming project of mid-level complexity. Experience with Object-Oriented Programming strongly recommended. Lab fee $50.

### Advanced Data Access Techniques

<table>
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<tr>
<th>3396 IT 410A3 (5)</th>
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<td>+2 hours/week TBA</td>
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This course examines utilization of advanced database systems such as NOSQL systems, dimensional cubes and hypercubes (OLAP), ODBC connections, and relational database systems for data analysis and development of data driven applications. Prerequisite: IT 350 or permission of instructor.

### Internship I

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<th>3397 IT 440A3 (5)</th>
<th>12-12:50pm</th>
<th>MTWTh</th>
<th>WAH 216</th>
<th>Keane</th>
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Students enrolled in this internship will have opportunities to serve on a software development team in some capacity, gaining practical experience in the software development life cycle, stakeholder communication, collaboration, and software development. Prerequisites: IT 310, IT 330, IT 340.

### Fundamentals of Management

| 4111 MGMT 301A4 (5) | 9-9:50am | Daily | WAH 113 | McClain |
| 4110 MGMT 301N3 (5) | 5-6:50pm | T | WAH 115 | McClain |
| +3 hours/week TBA |

Students will learn the concepts of creating and working effectively in teams. Students will work individually and in teams to use common business applications to produce written documentation appropriate to the outcome and audience. Students will learn the importance of accessible documents and learn to create and edit documents to increase accessibility. Information literacy concepts will be applied to the research needed to prepare written documents. A variety of workplace scenarios and case studies will be used to practice and reinforce the concepts taught.

### Applied Financial Mgmt

| 4105 MGMT 340A4 (5) | 9-9:50am | Daily | WSC 101 | Rath |
| 3472 MGMT 340N3 (5) | 6-7:50pm | Th | WSC 206 | Burger |
| +3 hours/week TBA |

Surveys the application of tasks normally associated with the corporate financial manager. Topics of study include planning, controls, capital markets, capital budgeting, capital structure, and working capital management. Prerequisite: ACCT 310 with a minimum grade of 2.0.

### Bus Principles, Planning & Strategy

| 4106 MGMT 360NA4 (5) | 11-11:50am | Daily | WSC 204 | McClain |
| 3473 MGMT 360N3 (5) | 7-8:50pm | T | WSC 206 | McClain |
| +3 hours/week TBA |

Core course in strategy and planning. Topics include: establishing organizational mission, formal planning, strategy formulation, and implementation. Identify strengths, weaknesses, opportunities, and threats facing organizations.

### Management of Human Resources

| 4175 MGMT 360NA4 (5) | 11-11:50am | Daily | WAH 109 | Crawford |
| 4176 MGMT 360N3 (5) | 6-7:50pm | Th | WSC 107 | King |
| +3 hours/week TBA |

Core course in the responsibilities and role of human resource management in today's workplace. Material will concentrate on both regulatory and strategic responsibilities of HR. Topics include recruitment, interviewing, compensation and current HR issues.

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**9/11/19**
MORTON SPECIAL INTEREST

Community Speaker Series
- 3110 ASI 063R (1) 1-1:50pm Th MOR 101 Schinnell
The community Speaker Series offers a variety of lectures on topics of current interest across a wide variety of disciplines. Class fee $25.

Pilates/Core
- 3104 ASI 011R (1) 4:30-5:30pm Th MOR 108 Johnson
An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Class fee $25.

Middle Eastern Dance
- 3105 ASI 014S (1) 6:30-7:30pm T MOR Nixon
Learn and practice dance postures, flexibility, and dance movements traditional to Middle Eastern cultures. Discover rich and varied music and movement inherent in Middle Eastern dance. Dress for exercise. Class fee $30.

Better Bones and Balance
- 3106 ASI 015R (1-1) 9:30-10:30am TTh MOR 101 Jones
Reap the benefits OSU Bone Research studies have shown: this exercise program can significantly slow loss of bone density in adults of all ages as well as improve balance, flexibility, coordination, muscle tone and overall body fitness. Class fee $25. Class meets 9/24-11/26.

Success & Leadership
- 3107 ASI 033R4 (2) 9-10:20am TTh MOR 108 Barnes
The study of behavior, personality, self-management, self-development as it relates to academic, personal or workplace goals. Class fee $55.

Safety & Fitness
- 3108 ASI 038R3 (1-2) CANCELED
An exploration of current personal health issues and a presentation of contemporary approaches to obtaining and maintaining a high level of wellness. Class fee $45.