

## SPRING 2025

*First Day of Classes* **April 7, 2025**  
*Advising Schedule updated* **March 24, 2025**

### SCHEDULE KEY

☞ Class has an online component(s); enrollment in an online, hybrid, or virtual/hybrid class will result in a once-per-quarter, once-per-student \$4 fee. Additionally, a \$2 per credit fee will be applied for online courses.

Shaded Class is offered after 4:30pm

☐ Class is offered at Centralia College East in Morton

### CLASS SECTION CODES

Most courses require reliable access to a computer or laptop (a cell phone is not sufficient) and internet access to complete online homework and access online materials.

- C** Face-to-face, class meets 100% instructional time on campus with required dates and times.
- O** Online, class is held online with no required dates/times for meetings; all activities are delivered through Canvas or a similar system
- P** Hybrid Plus, class meets more than 0% but less than 50% of instructional time with live instruction
- H** Hybrid, class meets more than 50% but less than 100% of instructional time with live instruction.
- VP** Virtual, Plus, class meets over web conferencing with more than 0% but less than 50% of instructional time with real-time instruction with required dates and times.
- VH** Virtual, Hybrid, class meets over web conferencing with more than 50% but less than 100% of instructional time with real-time instruction with required dates and times.

## ACCOUNTING

### *Principles of Accounting II (AE)*

☞ 22123 ACCT& 202 O1 (5) Online **T. Ushman**

Accounting for partnerships and corporations. Topics include accounting for payroll, current and long-term liabilities, partnerships, corporations, and investments; preparation of the statement of cash flows; and financial statement analysis. Prerequisite: ACCT& 201 or ACCT 110 and 120 or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Principles of Accounting III (AE)*

☞ 22340 ACCT& 203 H1 (5) 11:45am-12:50pm TWTh **WAH 214** A. Ushman

☞ 22341 ACCT& 203 O1 (5) Online A. Ushman

Managerial accounting for manufacturing businesses. Topics include job order and process costing; cost behavior and cost-volume-profit relationships; variable and contribution margin income statements; standard costs; flexible budgets; relevant costs; and capital budgeting decisions. Prerequisites: ACCT& 201 or ACCT 110 and 120. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Introduction to Audit*

☞ 22339 ACCT 210 H1 (5) 9:15-10:20am TWTh **WAH 214** A. Ushman

An introduction to the audit environment of financial accounting and reporting following Generally Accepted Auditing Standards (GAAS). Topics include: auditing standards, planning, risk assessment, audit evidence, documentation, sampling, the auditor's report, and ethics. Prerequisite: ACCT& 201 or ACCT 110 and 120. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *QuickBooks*

☞ 22395 ACCT 220 O1 (4) Online A. Ushman

This course introduces students to QuickBooks to record accounting transactions for small business operations. The focus is on vendors, customers, inventory, payroll, and banking. Topics include establishing files; purchases, bills, and checks; sales, invoices, payments, discounts, and deposits; end-of-period accounting procedures; inventory; payroll; transferring funds; and reconciling. Students must have basic accounting knowledge. Prerequisites: ACCT& 201 or ACCT 110 & ACCT 120. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Business Entity Tax*

☞ 22124 ACCT 240 O1 (5) Online **A. Ushman**

Calculation of tax liability and preparation of tax forms for business entities, rental property, and other property disposition. Also includes tax research. Prerequisite: ACCT& 201 or ACCT 110 and 120 and ACCT 260. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Bookkeeper Certification Course*

☞ 22122 ACCT 285 O1 (5) Online A. Ushman

The capstone course in the Associate in Applied Science (AAS) Accounting/Tax program, covering principles of accounting, payroll, and taxation. Students earn up to 6 Certificates of Completion from the American Institute of Professional Bookkeepers (AIPB) and can optionally take additional exams necessary for the AIPB Certified Bookkeeper (CB) designation. Prerequisite: ACCT& 202, ACCT 260, ACCT 270. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## AMERICAN SIGN LANGUAGE

### *American Sign Language I (H)*

22269 ASL& 121 C (5) **CANCELED** Depuye

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.

### *American Sign Language II (H)*

22459 ASL& 122 H1 (5) 1-2:20pm TTh **WSC 109** Depuye

A continuation of ASL 121, with emphasis on developing fluency in American Sign Language. **Class meets 4/7 – 5/15.**

## American Sign Language III (H)

41884 ASL& 123 H1 (5) 2:30-3:50pm TTh WSC 109 Depuye

A continuation of ASL 122, with emphasis on comprehension and production of increasingly complex linguistic structures, and conceptual accuracy of multiple meanings and English/ASL idioms. Class meets 4/7 – 5/15.

## ANTHROPOLOGY

### Survey of Anthropology (D) (SS)

☞ 27925 ANTH& 100 O (5) Online 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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Biological Anthropology (NS)

☞ 27926 ANTH& 205 O (5) Online Avalos

Exploration of human biology, evolution, paleontology, taxonomy, primatology, genetics and human variation. A student cannot receive credit for both ANTH& 205 and ANTH& 215. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Cultural Anthropology (D) (SS)

☞ 22272 ANTH& 206 H (5) 10:30-11:35am MTWTh WSC 110 Avalos

☞ 22273 ANTH& 206 O (5) Online 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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Myth, Ritual, and Magic (D) (SS)

27761 ANTH 235 C (5) 11:45am-1:50pm MW WSC 110 Avalos

An ethnographical overview of the supernatural beliefs of peoples and cultures. Attention is paid to various Anthropological and Sociological theories concerning the nature, cause(s), and source(s) of supernatural belief in world societies and cultures.

## ART

### Art Appreciation (H) (D)

☞ 22285 ART& 100 H (5) 10:30-11:20am MTWTh WAH 116 Frey

☞ 22797 ART& 100 O (5) Online Frey

☞ 43719 ART& 100 O2 (5) Online 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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Drawing II

☞ 22270 ART 103 H (5) 11:45am-12:35pm MTW WAH 108 Solomon  
Lab ARR ARR WAH 108 Solomon

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 \$68. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Printmaking I (H)

☞ 22349 ART 106 H (5) 1-2:50pm MW WAH 116 Solomon

Lab ARR ARR WAH 144 Solomon

☐☞ 30606 ART 106 R1 (5) 9:15-11:20am MW MOR 112 Holmgren

Lab ARR ARR MOR 112 Holmgren

An introduction into the studio methods of printmaking as well as its historical significance and contemporary applications. Create multiples using various matrixes including screen prints, etchings and relief prints. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Computer Graphics (H)

☞ 22271 ART 130 H (5) 10:30-11:20am MTW WAH 209 Solomon

Lab ARR ARR 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 programs by creating digital art work in a series of assignments. Lab fee \$85. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Introduction to Fibers (H)

☞ 22631 ART 160 H (5) 1-3:30pm TTh WAH 116 Frey

An introduction to fiber art history and techniques with an emphasis on traditional, hand-manipulated processes such as basketry, felting, dyeing and simple loom work. Lab fee \$48.29. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Art History: 18th-20th C (D) (H)

☞ 22630 ART 202 H (5) 9:15-10:20am MTWTh WAH 109 Frey

A survey of the history of art in 15th-20th century Asia and 18th-20th century Europe. Historical developments in architecture, sculpture, painting and other art forms will be examined. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## BIOLOGY

### General Biology w/Lab (NS)

☞ 22769 BIOL& 160 O (5) Online Hammon

Lab Online Hammon

☞ 44567 BIOL& 160 O2 (5) Online Hammon

Lab Online Hammon

Surveys the structures and functions of cells and organisms. Explores basic genetic and evolutionary processes. Outlines the characteristics of life, its history, and biodiversity. Lab fee \$18.46. **Section O AND O2 require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Human Biology (NS)

☞ 22263 BIOL& 170 O1 (5) Online Jung  
☞ 22498 BIOL& 170 O2 (5) Online Hammon

Overview of the major anatomy of humans including genetics, cells, tissues, and organ systems with their interactions and development from embryo to old age, including representative diseased conditions. Includes contextualization of humans in larger evolutionary, ecological, and social structures as related to their biology. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Human Biology w/Lab (NS)

☞ 27940 BIOL& 175 H (5) 11:45am-12:50pm MW WSC 208 Jewell  
Lab (5) 2-3:50pm W WSC 314 Jewell

Overview of the major anatomy of humans including genetics, cells, tissues, and organ systems with their interactions and development from embryo to old age, including representative diseased conditions. Includes contextualization of humans in larger evolutionary, ecology, and social structures as related to their biology. With lab. Students cannot receive credit for both BIOL& 175 and BIOL& 170. Lab fee \$20. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Majors Organismal Physiology (NS)

22264 BIOL& 223 C(5) 10:30-11:20am MTWTh WSC 121 Bozzolo/Jung  
Lab 1 1-2:50pm T WSC 307/303 Bozzolo/Jung  
Lab 2 3-4:50pm T WSC 307/303 Bozzolo/Jung

Plant and animal comparative anatomy and physiology. Final course in a three-quarter series (BIOL& 221, 222, and 223). Prerequisite: BIOL& 221 or 222 or instructor permission. Lab fee \$20.96.

## Human Anatomy and Physiology 1 (NS)

33749 BIOL& 241 C (5) 9:15-10:05am MTWTh WSC 121 Jung  
Lab 1-2:50pm M WSC 314 Jung

Investigate interactions between structure (anatomy) and function (physiology) essential for human health. Investigate organization and function of macromolecules, membranes and the cell, tissues, integument, skeleton and articulations, skeletal muscles, nervous system and the brain. Prerequisite: BIOL& 160 or BIOL& 170 with a 2.0 grade or better, CHEM& 121 recommended, or instructor permission. Lab fee \$18.46.

## Human Anatomy and Physiology 2 (NS)

☞ 22370 BIOL& 242 P (5) Online Tedder  
Lab 5-7pm T WSC 314 Tedder

Investigate the interactions between structure (anatomy) function (physiology) essential for human health. Investigate organization and function of the sensory, endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Prerequisite: BIOL& 241 or instructor permission. Lab fee \$18.46. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Microbiology (NS)

☞ 22266 BIOL& 260 H (5) 10:30-11:35am Th WSC 215 Jewell  
Lab 1 1-2:50pm TTh WSC 301 Jewell  
Lab 2 3-4:50pm TTh WSC 301 Jewell

Introductory microbiology focused on human health covering eukaryotes, prokaryotes, and viruses. Includes laboratory applications of lecture concepts. Prerequisite: both a college-level chemistry and biology course, or instructor permission. Lab fee \$36.40. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## BOTANY

### Plant Identification & Classification (NS)

22350 BOTA 113 C (5) 9:15-10:05am MTWTh WSC 307 Bozzolo  
Lab 1-2:50pm W WSC 307 Bozzolo

Identification and classification of vascular plants of western Washington with emphasis on important plant families, conservation, and native plant uses. Field trips during labs to observe native plants in local habitats. Lab fee \$17.72.

### Dendrology (NS)

22352 BOTA 150 C (5) 11:45am-12:35pm MTWTh WSC 307 Bozzolo  
Lab 1-2:50pm Th WSC 307 Bozzolo

Introduction to biology through trees, from cells and evolution through tree ecology and urban trees. Identification of trees will be featured, including both Pacific Northwest natives and common street trees. Lab fee \$18.44.

## BUSINESS ADMINISTRATION

### Introduction to Business (AE)

☞ 22136 BUS& 101 H1 (5) 9:15-10:20am MTW WSC 110 McClain

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Business Law (AE)

☞ 22137 BUS& 201 O1 (5) Online Newman  
☞ 45103 BUS& 201 O2 (5) Online Newman

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Human Resource Management

☞ 29800 BUS 203 O1 (5) Online McClain

Introduction to fundamental concepts of human relations management. This course will focus on recruiting, employee selection and training, employee performance and compensation, and employee laws and labor. Prerequisite: BUS& 101, college level reading and writing. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Retail Management***

🔗 29801 BUS 210 H1 (5) 10:30-11:35am MW WAH 113 McClain  
Gain broad perspective for all facets of retail operations including: multi-channels, merchandising, pricing, layout, store organization, site location, customer behavior, and customer service. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) and internet access to complete online homework and access online materials.**

## ***Project Management***

🔗 22287 BUS 250 H1 (5) 10:30-11:35am TTh WAH 115 Crawford  
Explore the concept of projects and the unique administrative approach needed to successfully complete a project on time and within budget. Identify the components of projects and the tools available to track project progression. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

# BUSINESS OFFICE TECHNOLOGY

## ***Beginning Keyboarding***

🔗 29805 BTEC 101 O1 (3) Online **Queen**  
Conquer the keyboard. Develop touch typing and ergonomics techniques to boost accuracy, speed, and comfort. Learn Microsoft Word basics to create business documents. Build your confidence at the keyboard. No typing skill is required. IT 117 Intro to Windows OS is recommended. Prerequisite: IT 117 Intro to Windows OS. Lab fee \$59. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Intermediate Keyboarding***

🔗 22724 BTEC 102 O1 (3) Online **Queen**  
Elevate your typing skills. Refine touch typing accuracy and speed, integrate ergonomic excellence, and create professional business documents in Microsoft Word. Enhance technique, accuracy, and speed for a competitive edge in the workplace. Recommended Prerequisite: IT 117 and BTEC 101 or 30+ net wpm. Lab fee \$59. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Applied Business Math***

🔗 22125 BTEC 120 H1 (5) 9:15-10:05am MTW WAH 115 Crawford  
🔗 39207 BTEC 120 O1 (5) Online Crawford  
Fundamental arithmetic skills applied to a wide range of business activities. Topics include; banking, discounts, payroll, simple interest, markups and markdowns and promissory notes. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Cooperative Work Experience***

🔗 22126 BTEC 190 O1 (1-12) Online O'Hern  
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. 33-396 hours, on-the-job per quarter. Instructor's permission is required. Co-requisite: 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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Work Experience Seminar***

🔗 22623 BTEC 191 O1 (1) Online **Queen**  
🔗 44151 BTEC 191 O2 (1) Online **Bruhn**  
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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Advanced Keyboarding***

🔗 29812 BTEC 203 O1 (3) Online **Queen**  
Achieve typing mastery. Perfect touch typing, embrace ergonomics, and craft polished business documents in Microsoft Word. Thrive in any professional context with precision, speed, and finesse. Aim for industry-standard speed and accuracy. Prerequisite: BTEC 102 or 45+ nwp. Lab fee \$59. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Word 1***

🔗 22624 BTEC 210 H1 (5) 11:45am-12:50pm TWTh WAH 205 O'Hern  
🔗 22131 BTEC 210 O1 (5) Online O'Hern  
Course covers Microsoft Word in depth: document preparation, formatting, 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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Excel 1***

🔗 22626 BTEC 214 H1 (5) 10:30-11:35am TWTh WAH 205 O'Hern  
🔗 22133 BTEC 214 O1 (5) Online O'Hern  
This course is a hands-on approach for beginning through intermediate level applications of Excel spreadsheet using a variety of business applications. Students will learn formulas, charts, formatting, and management of Excel files. Prerequisite: IT 117, typing speed of 35 wpm, instructor permission. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Ten-Key Calculator

☎ 22127 BTEC 220 H (1) 9:15-10:20am MW WAH 205 O'Hern/Spitzer

Touch control of the 10-key calculator with emphasis on speed and accuracy. Complete business calculations using the function keys. Prerequisite: Business Math suggested. Lab fee \$7.15. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## General Office Procedures

☎ 22128 BTEC 224 O1 (5) Online O'Hern

Topics include professional image, employer expectations, human relations, receptionist techniques, telephone procedures, mail processing, business ethics, job safety, office equipment and supplies, travel and meeting arrangements, financial activities, and composing and preparing professional documents. Prerequisite: BTEC 110, BTEC 210, BTEC 233, BTEC 214. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Medical Office Procedures

☎ 22129 BTEC 261 O1 (5) Online Rose

Culminating course for Medical Office students. Topics cover the expected skills for successful employment in a medical setting, such as professional image, medical ethics and law, appointment scheduling, office finances, and telephone procedures. Prerequisite: BTEC 107, BTEC 110, BTEC 233, BTEC 260. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Medical Documentation

☎ 22130 BTEC 263 O1 (4) Online Rose

Medical documentation prepared through the transcription of chart notes, procedure notes, letters, and other medical documents using transcription or speech recognition files. Prerequisite: BTEC 260, BTEC 210, BTEC 110. Lab fee \$35. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Medical Law and Ethics

☎ 22342 BTEC 266 VH (3) 9:15-10:20am MW Virtual Newman

Overview of medical law/ethics for healthcare professionals in various settings: billing/coding, transcription, phlebotomy, etc. Designed to explain ethical/legal obligations to the patient, employer, and health worker and clarify confidentiality requirements regarding patient records and history. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Class meets virtually.**

# CHEMISTRY

## Introduction to Chemistry (NS)

22253 CHEM& 121 C (5) 10:30-11:20am MTWTh WSC 109 Sprafka  
Lab 1-2:50pm T WSC 308 Sprafka  
☎ 22354 CHEM& 121 H (5) 3-3:50pm T WSC 108 Sprafka  
Lab 4-5:50pm T WSC 308 Sprafka

One quarter survey of general chemistry intended for Allied Health students. Topics include: atoms, bonds, reactions, solutions, and acids and bases. Prerequisite: MATH 097 or MATH 098. Lab fee \$27.69. **Section H requires reliable access to a computer or laptop (a cell phone is not sufficient) and internet access to complete online homework and access online materials.**

## Introduction to Organic/Biochemistry (NS)

22256 CHEM& 131 C (5) 11:45am-12:35pm MTWTh WSC 109 Sprafka  
Lab 1-2:50pm Th WSC 308 Sprafka

One quarter study of major organic functional groups and their properties, major biochemical compounds, and major cellular energy pathways and metabolism. Targeted for Allied Health programs. Prerequisite: CHEM& 121 with a 2.0 or better or instructor permission. Lab fee \$22.04.

## General Chemistry Preparation (NS)

22258 CHEM& 139 C (5) 10:30-11:35am MTWTh WSC 213 Peck

Preparatory chemistry for science/engineering majors intending to take the CHEM& 161 sequence. Emphasizes quantitative reasoning, focusing on how mathematics is used in chemistry. Introduces nomenclature, dimensional analysis, stoichiometry, atomic structure, gas laws and solutions. Prerequisite: MATH 098 or instructor permission.

## General Chemistry w/Lab II (NS)

22259 CHEM& 162 C (6) 9:15-10:05am MTWTh WSC 109 Sprafka  
Lab 1-4:50pm W WSC 308 Sprafka

Second of a three-quarter sequence. Includes periodic trends, chemical bonding and structure, valence bond/molecular orbital theory, intermolecular forces, liquids and solids, solutions, and kinetics. Lab emphasizes data analysis and interpretation. Prerequisite: CHEM& 161 with a 2.0 or better or instructor permission. Lab fee \$27.69.

## General Chemistry w/Lab III (NS)

22261 CHEM& 163 C (6) 9:15-10:05am MTWTh WSC 215 Peck  
Lab 1 CANCELED Peck  
Lab 2 1-4:50pm W WSC 302 Peck

Third of a three-quarter sequence. Includes equilibrium, acids and bases, acid/base and solubility equilibria, thermodynamics, electrochemistry, and an introduction to organic and nuclear chemistry. May include polymers, transition metal, and/or coordination chemistry. Prerequisite: CHEM& 162 with a 2.0 or better or instructor permission. Lab fee \$27.69.

## COLLEGE & CAREER SUCCESS

### College & Career Success

☎ 36725 COLL 100 H1 (3) 8-9:05am TTh TAC 331 Malroy  
☎ 36726 COLL 100 H2 (3) 9:15-10:20am MW TAC 331 Williams  
☎ 36730 COLL 100 H3 (3) 10:30-11:35am MW WAH 214 Smallwood  
☎ 36731 COLL 100 H4 (3) 10:30-11:35am TTh WAH 214 Smallwood  
☎ 36732 COLL 100 H5 (3) CANCELED  
☎ 36733 COLL 100 O1 (3) Online Pennington

### College & Career Success: TRDS

☎ 36742 TRDS 101 H (3) 8-9:05am WTh TEC 105 Lipp  
Prepares students for college and career success through activities enhancing self-awareness and developing self-management skills and strategies. Students will learn to navigate college; reflect on diversity, identify career goals, and develop essential skills for academic success, information literacy, critical thinking, effective communication, time management, resource utilization, and financial planning. Lab fee \$15. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## COMMERCIAL DRIVERS LICENSE

### *Commercial Truck Driving*

22411 CDL 100 C1 (12) 7:30am-4:30pm Daily FTC 109 Halstead  
22413 CDL 100 C2 (12) 7:30am-4:30pm Daily FTC 109 Halstead

This course is designed to prepare students for Washington State tests necessary to obtain a Commercial Driver License (A). Prerequisites: 18 years of age or older; pass Federal Department of Transportation health and drug screening; valid Washington state driver license; no DUI, hit and run, reckless, or negligent infractions within the past 5 years; and no more than three moving violations in the past 3 years. Instructor Permission. Lab fee \$3,350. **Section C1 meets 4/7 - 5/9; section C2 meets 5/12 - 6/13.**

## COMMUNICATION

### *Dragon NaturallySpeaking*

22470 COMM 100 O (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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## COMMUNICATION STUDIES

### *Debate I (H)*

22245 CMST 130 H (5) 10:30-11:35am MW WAH 103 McQuarrie

Students will learn to analyze, construct and deliver arguments on controversial topics using supportive evidence to respond to opposing viewpoints. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Public Speaking (H)*

22248 CMST& 220 H1 (5) 8-8:50am MTWTh WAH 103 McQuarrie

22249 CMST& 220 H2 (5) 9:15-10:05am MTWTh WAH 103 McQuarrie

22250 CMST& 220 H3 (5) 11:45am-12:35pm MTWTh WAH 113 Kreilkamp

22499 CMST& 220 O1 (5) Online McQuarrie

22803 CMST& 220 O2 (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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## CRIMINAL JUSTICE

### *Introduction to Criminal Justice (SS)*

22633 CJ& 101 H (5) 10:30-11:20am TTh TAC 331 Miller

Provides an overview of the criminal justice system by examining the history, structure, operations, and problems within the American criminal justice system. Students will analyze general topics associated with the contemporary criminal justice system to develop a critical perspective on the nature of justice and society's response to criminal behavior. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Juvenile Justice (D) (SS)*

22634 CJ& 106 O (5) Online Miller

This course will explore the origins of juvenile deviance and apply criminological theories to delinquency and justice as it exists today. Students will learn the general economic, social, and psychological impact of juvenile trends and the causes and correlates of delinquency. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Community Policing*

22635 CJ 109 O (5) Online Miller

Focus on resolving community issues and concerns via Community Oriented Policing and Problem Solving (COPPS) skills and strategies. Pre/corequisite: CJ& 101 or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Coop Work Experience*

33622 CJ 190 O1 (5) Online Miller

This course allows students to apply classroom knowledge and learning to on-the-job settings. Units are earned for new and continued learning taking place in the work environment. Learning objectives and development of positive work habits are emphasized. Pre/corequisite: BTEC 191 or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Reports, Forms & Affidavits*

22251 CJ 204 O (5) Online McFadden

Investigative report writing including narratives, police reports, common forms, affidavits, and search warrants. This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### *Criminal Interviews and Interrogation*

22637 CJ 224 O (5) Online McFadden

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## DIESEL EQUIPMENT TECHNOLOGY

### *Forklift Certification*

22274 DET 102 C1 (1) 8am-3pm F TEC 133 Lipp

22275 DET 102 C2 (1) 8am-3pm F TEC 133 Lipp

22815 DET 102 C3 (1) 8am-3pm F TEC 133 Lipp

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. **Section C1 meets on 4/25; C2 meets on 5/9, and C3 meets on 6/6.**

## ***Internal Combustion Engines I***

22711 DET 120 C1 (7) 9:15am-10:20am MTWTh TEC 133 Harris  
Lab 10:30am-3:30pm WTh TEC 135 Harris  
41893 DET 120 C2 (7) 9:15am-10:20am MTWTh TEC 133 Lipp  
Lab 10:30am-3:30pm MTWTh TEC 135 Lipp

This course covers the operating principles of internal combustion engines. A variety of diesel engines will be disassembled and reassembled with the use of service manuals. Prerequisite: DET 110 or instructor permission. Lab fee \$69.47. **Section C1 meets 5/12 – 6/16, Section C2 meets 4/7 – 5/8**

## ***Practical Shop Application***

22276 DET 230 C1 (7) 8-9:05am MTWTh TEC 135 Conrad  
Lab 9:15am-2:30pm MTWTh TEC 135 Conrad

The discussion and implementation of proper shop practices and repair procedures. Lab fee \$104.01. **Class meets 5/12 – 6/16.**

## ***Mobile HVAC Systems***

22426 DET 235 C1 (7) 8-9:05am MTWTh TEC 133 Conrad  
Lab 9:15am-2:30pm MTWTh TEC 135 Conrad

The theory and application of basic principles used in Heating Ventilation and Air Conditioning (HVAC) systems of diesel-powered equipment. Lab fee \$87.69. **Class meets 4/7 – 5/8.**

## **DRAMA**

### ***Dramatic Performance (H)***

22243 DRMA 115 C (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.

### ***Musical Theatre (H)***

22244 DRMA 118 H (5) 10:30-11:20am MTWTh WAH 107 Kreilkamp

The study of musical theatre, its major works, its significance in theatre history, and role in American culture with an emphasis on production elements and the play in performance. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### ***Multicultural Theatre (D) (H)***

22695 DRMA 210 H (5) 1-3:15pm MW WAH 113 Kreilkamp

An introduction to the dramatic literature and contemporary theatre practices of people of color; the study of the intersections of cultures in American society as portrayed in American theatre and performance. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## **ECONOMICS**

### ***Microeconomics (SS)***

22241 ECON& 201 H1 (5) 10:30-11:20am MTWTh WSC 210 Rodriguez

22500 ECON& 201 O1 (5) Online Rodriguez

Microeconomics is the study of households and firms and how they interact in markets under varying degrees of competition. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### ***Macroeconomics (SS)***

22242 ECON& 202 H1 (5) 11:45am-12:35pm MTWTh WSC 107 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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## **EDUCATION**

### ***Child Development (SS)***

22284 EDUC& 115 O1 (5) Online Kirkpatrick

Build foundation for explaining how children develop in all domains, conception through early adolescence. Explore various developmental theories, methods for documenting growth, and impact of brain development. Prerequisite: co-enrollment or previous enrollment in an ECED/EDUC course. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### ***Guiding Behavior***

29657 EDUC& 130 5306 (3) Online Minnich

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

### ***School Age Care***

22147 EDUC& 136 5321 (3) Online Haberman

Develop skills to provide developmentally appropriate and culturally relevant activities/care for children ages 5-12 in a variety of settings. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

### ***Introduction to Education with Field Experience***

22408 EDUC& 205 O1 (5) Online Fritch

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. Students who have completed EDUC& 201 cannot earn credit for EDUC& 205. Lab fee \$18.19. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

# EDUCATION-EARLY CHILDHOOD

## Trauma-Informed Care

☎ 29770 ECED 104 H1 (2) 4:30-7pm W WAH 146 Schneider

After assimilating new and known understandings of trauma, student will apply their work and perspective regarding trauma-informed care to their work with children and families. This course could be eligible for DCYF's Trauma-Informed Care financial incentive award to eligible providers through the Fair Start for Kids Act. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) and internet access to complete online homework and access online materials.**

## Health/Safety/Nutrition

☎ 22138 ECED& 107 H1 (5) 1-3:30pm W WAH 146 Fritch

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Family Child Care

☎ 22540 ECED& 134 5322 (3) Online Meek

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

## Home Visiting & Family Engagement

☎ 29645 ECED& 138 8335 (3) Online Niemer

Plan and provide home visits and group activities. Promote secure parent-child relationships. Support families to provide high-quality early learning opportunities embedded in everyday routines and experiences. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

## Administration of Early Childhood Education

☎ 29650 ECED& 139 8227 (3) Online Dennis

Develop administrative skills required to develop, operate, manage and improve early childhood education and care programs. Acquire basic business management skills. Explore resources and supports for meeting Washington State licensing and professional NAEYC standards. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

## Curriculum Development

☎ 22139 ECED& 160 H1 (5) 1-3:30pm T WAH 146 Kirkpatrick

Investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice. Lab fee \$20. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Language/Literacy Development

☎ 22140 ECED& 180 O1 (3) Online Gauthier

☎ 45102 ECED& 180 O2 (3) Online Gauthier

Teaching strategies for language acquisition and literacy skill development are examined at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Observation & Assessment

☎ 29652 ECED& 190 5324 (3) Online Minnich

Collect and record observation and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions, and communicating findings. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is shared through Washington Online. Class meets 4/3 – 6/12.**

## ECE Practicum 2

☎ 22402 ECED 233 H1 (5) 4-5:30pm T WAH 115 Kirkpatrick

Develop a professional understanding of teaching methods and practices with an opportunity to evaluate teaching skills and learning environment. Must have completed at least 30 credits in ECE or have instructor permission. Course includes 60 hours of field experience in an early learning classroom. Current TB test, proof of MMR and background check required. Lab fee \$18.19. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

# ELECTRONICS/ROBOTICS

## Introduction to Industrial Systems

22462 ERA 119 C (3) 9:15-10:50am Th TEC 159 Gill  
Lab 11am-12:50pm Th ARR Gill

This course will cover the basics of modern industrial systems. Students will learn about the different components that work together to produce a physical product or system from its conception to being delivered to the customer. Lab fee \$50.

## Communication Systems

22278 ERA 235 C (3) 9:15-10:50am M TEC 159 Gill  
Lab 11am-3:50pm M ARR Gill

Survey of communication systems used in electronics. Wired systems will include Serial, Parallel, Ethernet, fiber optic, industrial communication protocols and others. Wireless systems will include RF, IR, Bluetooth and wi-fi including basic applications in robotics. Lab fee \$50.25.



## ERA Capstone

22390 ERA	276 C	(4)	9:15-10:05am W	TEC 159	Gill
Lab			10:15am-2:15pm	TEC 159	Gill

Class will cover systematic design process, project management, and lean manufacturing principles through research and product development. Students will put these principles into practice by designing a prototype of a system that will provide a solution to a community/industry need/challenge. Students will be required to supply project proposals, plans, budgets, report, and a final prototype. Prerequisite: Instructor permission required.

## ENGINEERING

### Electrical Circuits (AE)

22176 ENGR& 204 C	(5)	10:30-11:20am MTWTh	WSC 108	Threapleton
Lab		1-2:50pm Th	WSC 106	Threapleton

An introduction to basic electrical circuits and systems. Topics include: basic analysis techniques; nodal and mesh analysis; Thevenin and Norton equivalent circuits; operational amplifiers; step, natural and steady state circuit response. Concurrent enrollment in MATH 212 is recommended. Prerequisite: MATH& 152 and PHYS& 222.

### Statics (AE)

22177 ENGR& 214 H	(5)	11:45am-12:35pm MTWTh	WSC 108	Threapleton
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First of a three-course sequence. The basic principles of vector statics; friction, analytical and graphical methods of solving force systems including frames, trusses, and other simple mechanisms; centroids and moments of inertia; chains and cables. Co-requisite: MATH& 151. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ENGLISH

### Fundamentals of English I

22705 ENGL 098 H1	(5)	9:15-10:20am MTW	WSC 101	Burr
22226 ENGL 098 H2	(5)	10:30-11:35am MTW	WSC 211	Burr
22367 ENGL 098 N1	(5)	CANCELED		Sire

Study fundamentals of writing, such as grammar, sentence structure, punctuation, and development while also learning about the writing process and developing resourcefulness. Prerequisite: students must meet mandatory placement requirements to enroll.

**These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

**Section H1 and H2 are bucket classes.**

### Fundamentals of English II

22706 ENGL 099 H1	(5)	9:15-10:20am MTW	WSC 101	Burr
22227 ENGL 099 H2	(5)	10:30-11:35am MTW	WSC 211	Burr
22368 ENGL 099 N1	(5)	CANCELED		Sire

Study a variety of college-level prose forms while working on grammar, mechanics, essay structure and development, effective wording, style, and information literacy. Prerequisite: students must meet mandatory placement requirements to enroll.

**These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

**Section H1 and H2 are bucket classes.**

## English Composition I (C)

28094 ENGL& 101 H1	(5)	8-8:50am	TWTh	WAH 105	Sire
22228 ENGL& 101 H2	(5)	9:15-10:05am	MTWTh	WAH 105	Mitchler
22232 ENGL& 101 H3	(5)	9:15-10:05am	MTWTh	WSC 111	Erickson
22231 ENGL& 101 O3	(5)	Online			Sire
22804 ENGL& 101 H5	(5)	10:30-11:20am	MTWTh	WSC 111	Erickson
22230 ENGL& 101 H6	(5)	11:45am-12:35pm	MW	TAC 332	Waliezor
22229 ENGL& 101 O1	(5)	Online			Young
22233 ENGL& 101 O2	(5)	Online			Young

An expository writing course encouraging students to think and write with clarity and conciseness; to organize and develop their ideas; and to express themselves sharply, economically, and grammatically. Students must meet mandatory placements to enroll in ENGL& 101. Prerequisite: placement into ENGL& 101 or 2.0+ in 5 credits of ENGL 099, WRT 105, or BTEC 221. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Composition II (C)

22238 ENGL& 102 H1	(5)	9:15-10:05am	MW	TAC 332	Waliezor
22234 ENGL& 102 H2	(5)	10:30-11:20am	MTWTh	TAC 338	Birkenstein
22237 ENGL& 102 H3	(5)	10:30-11:20am	MW	TAC 332	Waliezor
22235 ENGL& 102 H4	(5)	10:30-11:20am	TTh	TAC 340	Williams
22239 ENGL& 102 H5	(5)	11:45am-12:35pm	MTWTh	TAC 338	Birkenstein
22236 ENGL& 102 H6	(5)	11:45am-12:35pm	TTh	TAC 340	Williams
22638 ENGL& 102 N3	(5)	6-7:50pm	T	WAH 211	Davidson
28098 ENGL& 102 O1	(5)	Online			Davidson
30238 ENGL& 102 O2	(5)	Online			Davidson

A course in argumentative and persuasive writing, methods of research, development and preparation of original source-based papers and projects. Prerequisite: completion of ENGL& 101 with a minimum grade of 2.0. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Introduction to Creative Writing (H)

33748 ENGL 208 O1	(5)	Online			Young
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Writers will explore and write within various literary genres, which may include poetry, creative nonfiction, short fiction, drama, or hybrid work. Writers will be encouraged to strengthen their writing through participation in workshop, revision, and preparation for performance and/or publication of their work. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Children's Literature (D) (H)

22240 ENGL 233 O	(5)	Online			Williams
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Examines the diverse body of literature written for children and adolescents, plus techniques used to read aloud to children. Classics and contemporary works will be approached chronologically and thematically. Prerequisite: college level reading and writing skills. Placement into ENGL& 101 or completing 5 credits of ENGL 099 with 2.0+. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Science Fiction (H)

22434 ENGL 251 O	(5)	Online			Birkenstein
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Surveys rise and development of science fiction, focusing on short stories; students may address novels in course projects. Explores common themes; science fiction as social commentary; technology; war; relationships; race; gender; defining 'human.' Creative writing options. Prerequisite: ENGL& 101. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Intermediate Creative Writing (H)

☞ 22373 ENGL 271 O (5) **CANCELED** Young  
Students will hone and focus their creative invention, workshoping, revision, and editing skills while working on a single fiction or creative nonfiction project. Prerequisite: ENGL& 101 and ENGL 208 or instructor approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Writing in the Workplace

☞ 22150 WRT 105 H1 (5) 8-8:50am MTWTh WAH 205 Erickson  
Study a variety of workplace communications, along with proper use of grammar, sentence structure, mechanics and vocabulary within those communications. Prerequisite: 5 credits of ENGL 098 with 2.0+ or placement into ENGL 099/WRT 105. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ENVIRONMENTAL SCIENCE

### Intro to Env Science W/Lab (NS)

☐☞ 30600 ENV5& 101 R1 (5) 11:45am-12:50pm TWTh MOR 101 Jones  
Lab 11:45am-2pm F MOR 101 Jones

An interdisciplinary course for non-science majors and beginning science students. Topics include biodiversity, climate, pollution, energy and food. Independent laboratories and field trips included. Students cannot receive credit for both ENV5& 100 and ENV5& 101. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## GEOLOGY

### Introduction Physical Geology (NS)

22221 GEOL& 101 C (5) 10:30-11:20am MTWT WSC 105 Harris  
Lab 1 1-2:50pm T WSC 105 Harris  
Lab 2 3-4:50pm T WSC 105 Harris

Explore and recognize earth materials, processes and structures within a plate tectonics framework; origin and structure of the Earth, rocks and minerals, geologic time, earthquakes and volcanoes, ocean basins, formation of landscapes, special topics. Lab fee \$28.36.

### Earth Surface Processes (NS)

22639 GEOL 102 C (5) 9:15-10:05am MTWTh WSC 105 Harris  
Lab 1 1-2:50pm Th WSC 105 Harris  
Lab 2 3-4:50pm Th WSC 105 Harris

Introduces the processes that shape Earth's landscape. Includes the study of mass wasting, river dynamics, groundwater sources, glacial landforms, deserts, and coastal processes. One of more field trips may be required. Includes lab. Corequisite: MATH 098. Lab fee \$27.10.

### Natural Hazards and Catastrophes (NS)

☞ 22219 GEOL 108 O (5) Online 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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## HEALTH

### Women's Health Issues (D) (HF)

☞ 22211 HLTH 120 O1 (3) **CANCELED** Jones  
An opportunity to examine current women's health and well-being issues. Lab fee \$3.10. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Health & Wellness (HF)

22212 HLTH 130 C1 (3) 9:15-10:20am MW MSG 106 Johnson  
☞ 30055 HLTH 130 O1 (3) Online 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. **Section O1 requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Exercise & Nutrition (HF)

22657 HLTH 140 C1 (3) 10:30-11:35am TTh MSG 106 Johnson  
☞ 22214 HLTH 140 O1 (3) Online Johnson  
☞ 22213 HLTH 140 O2 (3) Online Bruhn

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. **Section O1 and O2 requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Stress Management (HF)

22216 HLTH 143 C1 (2) 9:15-10:20am TTh MSG 106 Johnson  
☞ 22215 HLTH 143 O1 (2) Online Johnson  
☞ 30077 HLTH 143 O2 (2) Online Bruhn

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 O1 and O2 requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Safety and Fitness (HF)

☞ 22217 HLTH 145 O1 (3) 10am-1pm F MSG 106 McMullan  
☞ 22218 HLTH 145 O2 (3) 1:30-5pm F MSG 106 McMullan

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 \$47.35. **Sections O1 and O2 meet on 4/25. This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## HISTORY

### World Civilization III (D) (SS)

☞ 28110 HIST& 128 O (5) Online Mayfield  
Examines the issues of modern world history including role of warfare, empire, diplomacy, and revolution in shaping international events and interactions taking place when cultural values, ideas, and technologies of multiple societies interact over time. (SS)(D) **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *US History I (SS)*

☞ 22208 HIST& 146 O (5) Online Mayfield  
Analysis of American history from the pre-invasion to the Antebellum Era. Emphasis will be on the political, social, and economic changes. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *US History II (SS)*

22209 HIST& 147 C (5) 10:30-11:35am MTWTh TAC 122 Peterson  
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)*

22210 HIST& 148 C (5) 11:45am-12:50pm MTWTh TAC 122 Peterson  
☞ 30595 HIST& 148 R1 (5) CANCELED Mayfield  
Analysis of American history from World War One to the present. Emphasis will be on the political, social, and economic changes.

**This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *African American History (D) (SS)*

☞ 28115 HIST& 220 O (5) Online Mayfield  
Examines the history of the continent from the pre-colonial era to the present. Topics include pre-colonial lineage, patterns of ethnic identity, colonialism and tribal identity, urbanization and its impact, and apartheid. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## HUMAN RELATIONS

### *Human Relations-Workplace*

☞ 22149 H R 110 H1 (5) 10:30-11:35am MW WAH 115 Crawford  
☞ 22800 H R 110 O1 (5) Online McClain  
The 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. Prerequisite: HR 101 or instructor permission. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## HUMANITIES

### *Ethics & Cultural Values (H) (D)*

☞ 22369 HUM 110 P (5) 11:45am-12:35pm MTWTh WAH 105 Mitchler  
An interdisciplinary course involving the study of philosophy, literature, history and religion within the context of Western and Oriental ethical systems of thought, focusing on cultural values through a study of virtue, duty, utility, and rights. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Humanities III (H)*

☞ 28125 HUM& 118 O (5) Online Mitchler  
A survey of the major movements in art, architecture, music, philosophy, and literature in a historical context, from 1800 C.E. to the present. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Lyceum III (AE)*

28124 HUM 283 C (1) CANCELED 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.

## INDUSTRIAL TRADES

### *College & Career Success: TRDS*

36742 TRDS 101 H (3) 8-9:05am WTh TEC 105 Lipp  
Prepares students for college and career success through activities enhancing self-awareness and developing self-management skills and strategies. Students will learn to navigate college; reflect on diversity; identify career goals, and develop essential skills for academic success, information literacy, critical thinking, effective communication, time management, resource utilization, and financial planning. Lab fee \$15.

### *Fluid Systems*

22424 TRDS 140 C (5) 9:15-9:50am WTh TEC 159 Steidel  
Lab 10:11-10:50am WTh TEC 154 Steidel  
Application of basic mathematical operations about Industrial Trades. Emphasizes the use of mathematics in hydraulics and pneumatics. Includes hands-on work with hydraulic and pneumatic equipment, following safety standards. Prerequisite: MATH 095 or equivalent or instructor permission. Co-requisite: TRDS 100 or instructor permission. Lab fee \$50.

### *Electrical Systems*

22446 TRDS 180 C (5) 12-12:50pm WTh TEC 159 Steidel  
Lab 1-2:50pm WTh TEC 154 Steidel  
Application of mathematical operations in relation to Industrial Trades electrical systems fundamentals, with hands on lab work using proper tools, meters and electrical equipment, always following industrial safety standards. Prerequisite: TRDS 100, TRDS 120, or equivalents; co-requisite TRDS 140 or equivalent. Lab fee \$50.

## INFORMATION TECHNOLOGY

### *Computer Science I Java*

☞ 22417 CS& 141 H (5) 11:45am-12:35pm MTWTh WAH 216 Harlan  
A study of rapid application development (RAD) JAVA. Development of GUIs using Swing Technology. Object Oriented Programming as it is implemented in JAVA. Introduction to graphics, animation, and multi-threading. Prerequisite: MATH 099 or equivalent. Lab fee \$25.10. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section B5 meets virtually.**

## Programming II

☞ 22662 IT 112 H (5) 9:15-10:05am MTWTh WAH 211 Montalbano  
☞ 22664 IT 112 VH (5) 9:15-10:05am MTWTh Virtual Montalbano

A course in object-oriented programming concepts. Students will develop, test, and debug object-oriented programs. Topics include classes, access modifiers, inheritance, polymorphism, encapsulation, and Unified Modeling Language (UML) class diagrams. Prerequisite: IT 111 or instructor permission. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

## Introduction to Windows OS

☞ 41237 IT 117 O1 (3) Online Coleman

An introduction to the Windows Operating System. Course will cover such things as the taskbar, Start menu, recycle bin, window views, Window Explorer, storage devices, printing, saving, control panels, etc. Lab fee \$25. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

## Web Development I

☞ 22666 IT 121 H (5) 10:30-11:20am MTWTh WAH 211 Kerschner  
☞ 22668 IT 121 VH (5) 10:30-11:20am MTWTh Virtual Kerschner

An introduction to dynamic web design using client-side programming. The focus will be on rich user interfaces, interactivity, and asynchronous communications. Prerequisite: IT 119. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

## Software Development II

☞ 22671 IT 221 H (5) 11:45am-12:35pm MTWTh WAH 211 Montalbano  
☞ 22673 IT 221 VH (5) 11:45am-12:35pm MTWTh Virtual Montalbano

A course in Test-Driven Development. Students will work in teams to complete complex software applications using Agile development strategies, version control systems, and testing frameworks. Prerequisite: IT 220 Software Development I. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

## Application Development Capstone

☞ 22675 IT 280 H (5) 9:15-10:05am MTWTh WAH 216 Harlan  
☞ 22676 IT 280 VH (5) 9:15-10:05am MTWTh Virtual Harlan

Students will deliver a comprehensive software project that demonstrates mastery of the concepts introduced in the Application Development program. Prerequisite: IT 212, IT 220, or instructor permission. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

# MATHEMATICS

## Pre-Algebra

☞ 22366 MATH 096 H1 (1-5) 8-9:05am MWTh TSB 001 Spitzer  
☞ 22464 MATH 096 H2 (1-5) 11:45am-12:50pm MWTh TSB 001 Spitzer  
☞ 22364 MATH 096 N1 (1-5) 4:30-5:45pm MTWTh TSB 001 Keahey

Covers percents, proportions, unit conversions, geometry, simplifying algebraic expressions and solving simple first-degree linear equations. Prerequisite: MATH 095 or appropriate test score placement. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Non-STEM Algebraic Literacy

☞ 22180 MATH 098 H1 (1-5) 8-9:05am MWTh TSB 001 Spitzer  
☞ 22466 MATH 098 H2 (1-5) 11:45am-12:50pm MWTh TSB 001 Spitzer  
☞ 22365 MATH 098 N1 (1-5) 4:30-5:45pm MTWTh TSB 001 Keahey

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 exponent expressions. This class will prepare students for MATH 099, MATH 102, MATH& 107, and MATH& 146. Prerequisite: MATH 096 or equivalent. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## STEM Algebraic Literacy

☞ 22461 MATH 099 H1 (1-5) 8-9:05am MWTh TSB 001 Spitzer  
☞ 22469 MATH 099 H3 (1-5) **CANCELED** h Spitzer  
☞ 22468 MATH 099 H2 (1-5) 11:45am-12:50pm MWTh TSB 001 Spitzer  
☞ 22460 MATH 099 N1 (1-5) 4:30-5:45pm MTWTh TSB 001 Keahey

Introduces the concept of functions, their graphs and properties. Particular attention will be paid to linear, quadratic, exponential and logarithmic functions. This class will prepare students for MATH& 131, MATH& 141, and MATH 147. Prerequisite: MATH 098 or equivalent. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Introduction to Discrete Structures

22642 MATH 102 C (5) 8-9:05am MTWTh **WSC 211** Taylor

This class is designed to introduce mathematical concepts in computer science. Topics include logic, set theory, graphs and trees, recursion, and basic modular arithmetic.

## Math in Society (M)

22184 MATH& 107 C (5) 11:45am-12:50pm MTWTh WSC 210 Lee  
☞ 22185 MATH& 107 O (5) Online Ziegler

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. **Section O requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Pre-Calculus I (M)

22187 MATH& 141 C (5) 8-9:05am MTWTh WSC 210 Lee

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)

22188 MATH& 142 C (5) 10:30-11:35am MTWTh WSC 107 Ziegler

Graphical, numerical, symbolic development 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& 141.

## Introduction to Statistics (M)

22374 MATH& 146 C2 (5) 9:15-10:20am MTWTh WSC 213 Lee

22375 MATH& 146 C1 (5) 11:45am-12:50pm MTWTh WSC 213 Kiekel

☞ 22193 MATH& 146 O1 (5) Online Adams

☞ 22725 MATH& 146 O2 (5) Online Kiekel

☞ 22733 MATH& 146 O3 (5) Online Kiekel

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. **Sections 01, 02, and 03 require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Class section 01 meets 4/21-6/20.**

## Business Calculus (M)

☞ 22377 MATH& 148 O1 (5) Online Ziegler

An introduction to calculus concepts needed for business applications. Topics discussed are limits, derivative, integrals, and partial derivatives. Business applications are stressed. Prerequisite: MATH 147 or MATH& 141 or equivalent. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Calculus I (M)

22195 MATH& 151 C1 (5) 8-9:05am MTWTh WSC 107 Adams

☞ 22194 MATH& 151 O1 (5) Online Adams

The first in a four-quarter sequence. Limits, derivatives of algebraic and some transcendental functions, applications of derivatives, the indefinite integral. Topics covered from numerical, analytical and graphical viewpoints. Prerequisite: MATH& 142 or equivalent. **Section 01 requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Calculus II (M)

22196 MATH& 152 C (5) 10:30-11:35am MTWTh WSC 101 Adams

The second in a four-quarter sequence. Covers the calculus of transcendental functions (exponential, logarithm, inverse circular, hyperbolic), techniques of integration, sequences, series, and power series. Prerequisite: MATH& 151 or equivalent.

## Elementary Differential Equations (AE)

22191 MATH 212 C (5) 9:15-10:20 MTWTh WSC 211 Taylor

Linear ordinary differential equations with emphasis on supporting concepts of differential operators, Wronskians, characteristic polynomials, homogeneous and nonhomogeneous cases, variation of parameters, undetermined coefficients. Solution of IVP by Laplace transforms and power series method. Prerequisite: MATH& 163.

## Intermediate Statistics (M)

☞ 28130 MATH 246 O1 (5) Online Kiekel

Continuation of MATH& 146 (Introduction to Statistics). Expands on concepts of data collection, data cleaning, descriptive statistics, and inferential statistics. Emphasis is on statistical software and applications in data science. Prerequisite: MATH 245 or instructor permission (Co-enrollment is acceptable). **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Calculus IV (AE)

22192 MATH 264 C (3) 11:45am-12:35pm MTW WSC 211 Taylor

Fourth in a four-quarter sequence. Optimization of 2 and 3 variable functions, Lagrange Multipliers, applications and techniques of multiple integration, Green's Theorem, Stokes Theorem, and line and surface integrals. Prerequisite: MATH& 163 or equivalent.

## MECHATRONICS

### Sensors and Instruments

22419 MEC 220 C (5) 9:15-11:50am T TEC 159 Gill

Lab 12-1:50pm T ARR Gill

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.

## MEDICAL ASSISTANT

### MA Medical Terminology

☞ 22202 M A 139 H (5) 9:15-10:05am MTWTh TEC 115 Layton T

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### MA Electrocardiography

☞ 22204 M A 208 H (2) ARR ARR TEC 115 Layton T

Electrocardiography (ECG) for the medical assistant student; including anatomy of the heart and the cardiac cycle, ECG applications and methods for testing in ambulatory care. Prerequisite: acceptance into 2nd year MA program. Lab fee \$15.

**This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### MA Clinical Procedure II

☞ 22206 M A 243 H (6) 10:30am-12:20pm MTWTh TEC 115 Layton T

Surgical setup for clinical/office procedures explored in detail; review of the role of diagnostic imaging, rehabilitation, and nutrition in the interdisciplinary approach of patient care. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher. Lab fee \$175. **Class meets 4/7-5/9. This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## MA Externship Seminar

22421 MA 244 O (1) Online Layton T

This class allows the medical assistant extern to explore objectives and challenges in bridging their classroom/lab experiences to the experiences they are encountering in their externships. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## MA Clinical Externship

22732 MA 245 O (6) ARR ARR ARR Layton T

One hundred eighty unpaid hours of externship in an ambulatory health care setting that allows the medical assistant student to bridge their classroom education and lab training to the real world medical setting. Prerequisite: MA 242, MA 246 with a 2.5 GPA or higher. Lab fee \$17.35. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## MUSIC

### Music Appreciation (D) (H)

22175 MUSC& 105 O1 (5) Online May

Developing an understanding of music through the study of musical elements and cultural contexts. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Musical Theatre (H)

30244 MUSC 118 H1 (5) 10:30-11:20am MTWTh ARR Kreilkamp

The study of musical theatre, its major works, its significance in theatre history, and role in American culture with an emphasis on production elements and the play in performance. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Jazz Ensemble I -VI (AE)

22384	MUSC	124 N	(2)	6-8:30pm	W	WAH 152	Blaser
28131	MUSC	125 N	(2)	6-8:30pm	W	WAH 152	Blaser
22456	MUSC	126 N	(2)	6-8:30pm	W	WAH 152	Blaser
28133	MUSC	127 N	(2)	6-8:30pm	W	WAH 152	Blaser
28135	MUSC	128 N	(2)	6-8:30pm	W	WAH 152	Blaser
28137	MUSC	129 N	(2)	6-8:30pm	W	WAH 152	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.

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

22445 MUSC 139 H1 (5) 10:30-11:20am TTh WAH 103 O'Donel

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

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

22170 MUSC 140 O1 (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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Music Theory III

28480 MUSC& 143 C (5) 10:30-11:45am MTWTh ARR Kim

A study of musical concepts, such as dominant substitutions, voice leading chords, secondary dominants, motives, and phrase structures. Prerequisite: MUSC& 142. Lab fee \$25.

### Concert Choir I - VI (AE)

28407	MUSC	144 N	(2)	6:30-9pm	Th	WAH 107	Kim
28409	MUSC	145 N	(2)	6:30-9pm	Th	WAH 107	Kim
22437	MUSC	146 N	(2)	6:30-9pm	Th	WAH 107	Kim
22439	MUSC	147 N	(2)	6:30-9pm	Th	WAH 107	Kim
28420	MUSC	148 N	(2)	6:30-9pm	Th	WAH 107	Kim
28422	MUSC	149 N	(2)	6:30-9pm	Th	WAH 107	Kim

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

### Functional Piano III (AE)

22644 MUSC 153 C (1) 11:55am-12:45pm Th WAH 125 Kim

Functional piano study/skill for music majors. A practical course to accompany the music theory courses. Corequisite: simultaneous enrollment in music theory class. Prerequisite: MUSC 152 or instructor permission. Audition required.

### Applied Music Classes:

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. Instructor permission and/or audition required. Corequisite: ensemble and/or music theory. Lab fee \$300.

### Applied Flute (AE)

22435 MUSC 150 C (1) ARR ARR ARR O'Donel

### Applied French Horn (AE)

28429 MUSC 154 C (1) ARR ARR WAH 125 Blaser

### Applied Trumpet (AE)

28438 MUSC 155 C (1) ARR ARR WAH 125 Blaser

### Applied Trombone (AE)

28439 MUSC 156 C (1) ARR ARR WAH 125 Blaser

### Applied Tuba (AE)

28440 MUSC 157 C (1) ARR ARR WAH 125 Blaser

### Applied Euphonium (AE)

28441 MUSC 158 C (1) ARR ARR WAH 125 Blaser

### Applied Percussion (AE)

22436 MUSC 159 C (1) ARR ARR WAH 125 Blaser

### Applied Piano (AE)

22171 MUSC 160 C (1) ARR ARR ARR Kim

### Applied Violin (AE)

28442 MUSC 161 C (1) ARR ARR ARR Kim

### Applied Viola (AE)

28443 MUSC 162 C (1) ARR ARR ARR Staff

### Applied Cello (AE)

28444 MUSC 163 C (1) ARR ARR ARR Staff

### Applied Double Bass (AE)

28445 MUSC 164 C (1) ARR ARR ARR Staff

### Applied Guitar (AE)

☾ 22172 MUSC 165 C (1) ARR ARR Tillinghast

### Applied Saxophone (AE)

28446 MUSC 166 C (1) ARR ARR ARR Blaser

### Applied Voice (AE)

☾ 22173 MUSC 167 C (1) ARR ARR ARR Kim

### Applied Composition (AE)

33536 MUSC 168 C (1) ARR ARR ARR May

### Applied Clarinet (AE)

28447 MUSC 169 C (1) ARR ARR ARR Blaser

### Applied Oboe (AE)

28448 MUSC 170 C (1) ARR ARR ARR Blaser

### Applied Bassoon (AE)

28449 MUSC 171 C (1) ARR ARR ARR Blaser

### Community Band I - VI (AE)

22386	MUSC	175 N (2)	7-9pm	T	WAH 152	Blaser
25150	MUSC	176 N (2)	7-9pm	T	WAH 152	Blaser
22388	MUSC	177 N (2)	7-9pm	T	WAH 152	Blaser
28462	MUSC	178 N (2)	7-9pm	T	WAH 152	Blaser
28464	MUSC	179 N (2)	7-9pm	T	WAH 152	Blaser
28468	MUSC	180 N (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.

### Community Orchestra I – VI (AE)

22441	MUSC	185 N (2)	6:30-9pm	M	WAH 152	Friedlander
28450	MUSC	186 N (2)	6:30-9pm	M	WAH 152	Friedlander
22443	MUSC	187 N (2)	6:30-9pm	M	WAH 152	Friedlander
28473	MUSC	188 N (2)	6:30-9pm	M	WAH 152	Friedlander
28475	MUSC	189 N (2)	6:30-9pm	M	WAH 152	Friedlander
28477	MUSC	190 N (2)	6:30-9pm	M	WAH 152	Friedlander

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.

## NURSING

### Common Alterations in Health II

22690 NURS 103 C (7) ARR ARR ARR Team Taught

Continues the development of progressive competencies which reflect program themes, including the provision of holistic care applied to patients with alterations in renal, GI, neurological, musculoskeletal, perioperative, mental health, and care of the child-bearing family. Prerequisite: NURS 102, NURS 112; Corequisite: NURS 113. Lab fee \$501.83.

### Common Alterations in Health II Practicum

☾ 22691 NURS 113 H (5) ARR ARR ARR Team Taught

Practical application of health assessment and medical/surgical nursing skills. Emphasizes provision of medical surgical nursing care of adults in acute care, procedural, and community settings. Includes hands-on experience in the nursing lab, simulation lab, and direct patient care in the clinical setting. Prerequisite: NURS 102, NURS 112; co-requisite: NURS 103. Lab fee \$59.50. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials**

### Mental Health and Lifespan

28522 NURS 201 C (7) 8-11am WTh ARR Team Taught

Progressive competencies reflecting program themes are applied to caring for clients with: mental health alterations, complications of child-bearing, high-risk newborns, and children. Expands on program theme of the role of nurse to provide a stronger theoretical foundation for assuming a management and leadership role in a variety of care settings. Prerequisites: admission into Centralia College Nursing Program. Corequisites: NURS 211. Lab fee \$501.83.

### Complex Management

22189 NURS 203 C (8) 8am-4pm Th ARR Morgenroth

Continues the development of progressive competencies in homeostasis, nursing roles, and care continuity for complex health needs through on-campus theory and community-based capstone projects. Prerequisites: NURS 202, NURS 212. Corequisites: NURS 222. Lab fee \$501.83

### Mental Health and Lifespan Practicum

28523 NURS 211 C (5) ARR ARR ARR Team Taught

Practical application of health assessment and fundamental nursing skills within the in-patient and specialty unit populations. Includes hands-on experience in the nursing lab, simulation lab, and direct patient care in the varied community and in-patient clinical settings. Prerequisite: Admission into Centralia College Nursing Program. Corequisites: NURS 201. Lab fee \$190.13.

### Transition to Practice

☾ 22186 NURS 222 P (4) ARR ARR ARR Team Taught

The opportunity to be mentored in the practice of professional nursing practice provided through preceptor-guided experiences in selected specialties in various acute-care and community-based settings. Prerequisites: NURS 202, NURS 212. Corequisites: NURS 203. Lab fee \$50. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials**

## NURSING ASSISTANT

### Basic Life Support for Healthcare

22423	HLSV	110 C1 (1)	ARR	ARR	TEC 115	Layton C
22647	HLSV	110 C2 (1)	8am-12pm	M	FTC 110	Layton C
22718	HLSV	110 C3 (1)	1-5pm	M	FTC 110	Layton C
29154	HLSV	110 N1 (1)	5-9pm	M	TBD	Layton C

Course 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. Lab fee \$15. **Section C1 PHLE only. Section C2 co-requisite: HLSV 131C1 meets on 4/21. Section C3 co-requisite: HLSV 131C2 meets on 4/21. Section N1 co-requisite HLSV 131N1 meets on 4/30.**

## Nursing Assistant Certification

22281	HLSV	131 C1	(12)	8am-12pm	MTWTh	ARR	Speer
	Lab			ARR	MTWTh	FTC 110	Speer
	Clinical			7am-12:30pm	MTWTh	ARR	Speer
22648	HLSV	131 C2	(12)	1-5pm	MTWTh	FTC 110	Speer
	Lab			ARR	ARR	FTC 110	Speer
	Clinical			12:30-5pm	MTWTh	ARR	Speer
29329	HLSV	131 N1	(12)	5-9pm	MTWTh	FTC 110	Neely
	Lab			ARR	MTWTh	FTC 110	Neely
	Clinical			5-10:30pm	MTWTh	ARR	Neely

This comprehensive training course provides awareness of the role of the nursing assistant (WAC 246-841). A nursing assistant demonstrates competency in basic technical and communication skills and recognizes individual, cultural, and religious diversity. Specialty credentials in Dementia, Mental Health, Nurse Delegation, and Special Focus on Diabetes are included. A favorable background check is required to participate in clinicals (RCW 18.130.064). Co-requisite: HLSV 110 BLS for Healthcare. Lab fee \$290. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## NUTRITION

### Nutrition (NS)

22169	NUTR&	101 C	(5)	10:30-11:35am	MW	WSC 208	Neal
22168	NUTR&	101 O	(5)	Online			Kumar

An exploration of human nutrition with an emphasis on metabolism, digestion, dietary planning and analysis, and weight control. Prerequisite: HS biology or chemistry. **Section O requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## OCEANOGRAPHY

### Intro to Oceanography (NS)

22179	OCEA&	101 O	(5)	Online			Will
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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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## PHILOSOPHY

### Introduction to Philosophy (H)

22167	PHIL&	101 O1	(5)	Online			Graham
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Investigate the assumptions philosophers have made about reality, knowledge, truth, God, morality, social construction, freedom, and paternalism. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Introduction to Ethics (H)

22166	PHIL	103 O1	(5)	Online			Diamant
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Focus on choices made in concrete circumstances. Study traditional ethical theories and present-day moral dilemmas. This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. **This courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## PHLEBOTOMY

### Advanced Phlebotomy

22422	PHLE	132 C1	(8)	1-2:30pm	MTWTh	TEC 133	Rose
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Expansion of Phlebotomy skills introduced in PHLE 131. This course will offer lecture and lab sessions with emphasis on hands on practice and dexterity for successful and safe venipuncture. Prerequisite: PHLE 131 with a 2.5 GPA or higher. Lab fee \$125.

### Phlebotomy for Healthcare 1

22379	PHLE	201 H1	(6)	1-2:30pm	MTWTh	TEC 115	Layton T
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Laboratory procedures and regulations as set forth by federal standards will be the focus of this course. The student phlebotomy technician will be taught how to perform Clinical Laboratory Improvement Amendments (CLIA) waived laboratory testing that is within their scope of practice in the medical office laboratory. Prerequisite: healthcare provider license MA, RN, NA-C. Lab fee \$150. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.** **Class meets 4/7 - 5/9.**

### Phlebotomy for Healthcare 2

22405	PHLE	202 H1	(8)	10:30am-2:30pm	MTWTh	TEC 115	Layton T
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Expansion of Phlebotomy skills introduced in PHLE 201. This course will offer lecture and lab sessions with emphasis on hands on practice and dexterity for successful and safe venipuncture. Prerequisite: PHLE 201 with a 2.5 GPA or higher and healthcare license. Lab fee \$125. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.** **Class meets 5/12 - 6/20.**

## PHYSICAL EDUCATION

### Volleyball

22658	PE	115 C1	(1)	11:45am-1:30pm	TTh	ARR	Hoel
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This course will cover the fundamental skills and techniques of beginning volleyball. Includes basic rules, scoring and strategy. Lab fee \$3.10.

### Stretching & Flexibility (HF)

22163	PE	121 C1	(1)	11:45am-12:50pm	TTh	MSG 200	Johnson
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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.

### Weight Training (HF)

22659	PE	123 C1	(1)	10:30-11:35am	MW	MSG 130	Robinson
22660	PE	123 O1	(1)	Online			Robinson

Designed to condition the musculature of the body using machine and free weights. Lab fee \$3.10. **Section O1 requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**



## Free Weights (HF)

30087 P E 125 C1 (1) CANCEL Robinson

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.

## Cardio Conditioning (HF)

30088 P E 142 C1 (1) CANCEL Robinson

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)

22164 P E 150 C1 (1) 9:15-10:20am MW MSG 200 Montee

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)

22344 P E 152 C1 (1) 9:15-10:20am TTh MSG 200 Montee

An exercise class designed to teach breathing with movement, body mechanics, balance, coordination, spatial awareness, strength and flexibility. Lab fee \$3.10.

## Beginning Tae Kwon Do (HF)

22661 P E 158 N1 (2) 6-7:50pm 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.

## Lifetime Fitness (HF)

22392 P E 168 O1 (2) Online Johnson

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Physical Fitness Concepts (HF)

22165 P E 229 O1 (3) Online McMullan

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## PHYSICS

### General Physics III w/Lab (NS)

39024 PHYS& 115 C1 (5) 9:15-10:05am MTWTh WSC 108 Threapleton  
Lab 1-2:50pm W WSC 106 Threapleton

Fluids, electrostatics, simple circuits, and the fundamental laws of thermodynamics. A continuation of PHYS& 114. Prerequisite: PHYS& 114. Lab fee \$17.90.

### Engineering Physics III (NS)

22161 PHYS& 223 C (5) 8-8:50am MTWTh WSC 108 Threapleton  
Lab 1-2:50pm M WSC 106 Threapleton

Optics modern physics, electricity and magnetism. Includes geometrical and physical optics, Maxwell's equations, AC/DC circuits and special relativity. Prerequisite: PHYS& 222 and MATH& 153. Lab fee \$19.22.

## POLITICAL SCIENCE

### American Government (SS)

22162 POLS& 202 C (5) 9:15-10:20am MTWTh TAC 122 Peterson  
Students will examine the American political structure and its ideological roots. We will explore how the structure is organized and how it operates.

### Comparative Government (D) (SS)

22684 POLS& 204 O1 (5) Online Roberts  
Examine political theory and application within a comparative framework: ideology, nature of participation, as well as a variety of governmental structures, and functions. Contemporary situations will provide the cases for example and analysis. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## PSYCHOLOGY

### General Psychology (SS)

22407 PSYC& 100 R (5) CANCELED Starroff  
22158 PSYC& 100 O1 (5) Online MacNamara  
22157 PSYC& 100 O2 (5) Online Osawa  
22735 PSYC& 100 O3 (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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Lifespan Psychology (SS)

22159 PSYC& 200 O1 (5) Online MacNamara  
28519 PSYC& 200 O2 (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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Research Methods (AE)

22537 PSYC 209 N (5) 5-6:50pm T WSC 110 Bryant

Overview of scientific method, major research designs, statistical concepts and utilization of materials related to scientific journals. Prerequisites: PSYC& 100 (may be currently enrolled), eligible for ENGL& 101 and college-level math. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Abnormal Psychology

36746 PSYC& 220 O (5) Online Starroff

An introduction to the study of abnormal behavior, including behavioral problems, personality disorders and maladjustment, and the study of the causes, diagnoses, and treatment. Prerequisite: PSYC& 100. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Social Psychology (AE)

☞ 28518 PSYC 250 O1 (5) Online MacNamara  
The scientific study of how a person's thoughts, emotions and behaviors are influenced by other people. Includes an exploration of: propaganda, persuasion, social cognition, human aggression, prejudice, love, and interpersonal sensitivity. Prerequisite: PSYC& 100 or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## SOCIOLOGY

### Introduction to Sociology (D)(SS)

☞ 22155 SOC& 101 H1 (5) 9:15-10:05am MTWTh WSC 107 Lytle  
30633 SOC& 101 C1 (5) 10:30-11:35am MTWTh WAH 146 Bryant  
☞ 22154 SOC& 101 O1 (5) Online Tate-Libby  
☞ 22156 SOC& 101 O2 (5) Online Tate-Libby  
☞ 30605 SOC& 101 R1 (5) 1-3:05pm Th MOR 108 Bryant  
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. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Introduction to Social Work (D)(SS)

☞ 28520 SOC 150 H1 (5) 12-1:50pm MW WAH 109 Seabert  
Introduction to the field of social work, including the history of the profession; fields of practice and career opportunities; ethics and principles; diversity and social justice issues; and social welfare policies. Engages with sociological perspectives on social problems and the relationship between individuals and the social systems in which they participate. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Social Problems (D)(SS)

☞ 22153 SOC& 201 O1 (5) Online Bryant  
Investigate problems within society and how we view certain social conditions as social problems. Topics include technology, environment, population, economy, class, race/ethnic relations, sexism, ageism, family problems, education, cities, deviance, crime, mental health, physical health. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## SPANISH

### Spanish I (H)

40675 SPAN& 121 C1 (5) 10:30-11:35am MTWTh WAH 109 Gorecki  
First class in 100 level sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish speaking countries and their cultures.

### Spanish II (H)

22152 SPAN& 122 C1 (5) 1-3pm TTh WSC 210 Gorecki  
Second class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish-speaking countries and their cultures. Prerequisite: SPAN& 121 or instructor permission.

## Spanish III (H)

22151 SPAN& 123 C1 (5) 9:15-10:20am MTWTh WSC 210 Gorecki  
Third class in sequence. Learn the fundamental skills of listening comprehension, speaking, reading and writing. Develop an awareness of Spanish-speaking countries and their cultures. Prerequisite: SPAN& 122 or instructor permission.

## SUBSTANCE USE DISORDER PROFESSIONAL

### Introduction to SUDP (AE)

☞ 22394 SUDP 100 O1 (5) Online Rabe  
Introduction to the field of substance use disorder counseling. Topics include theories surrounding the etiology of addiction, basic psychopharmacology, Federal and State regulations, introduction to prevention, intervention, assessment, treatment planning and case management. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Future BASBH student**

### Drug & Alcohol Responses

☞ 22346 SUDP 130 O1 (5) Online Rabe  
Physical, psychological, and behavioral response to alcohol, drugs, and compulsive behaviors. Topics include drug classification, the neurochemistry of addiction, and an overview of basic drug kinetics to include absorption, distribution, metabolism, and elimination. Prerequisite: SUDP 100 (2.0 or higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

### Group Counseling

☞ 22410 SUDP 240 H1 (5) 1-2:50pm T TAC 331 Rabe  
An introduction to group dynamics and group process, as applied to Substance Use Disorder counseling. Topics include group formation and planning, ethical considerations, diversity, group developmental stages, documentation, and group counseling approaches/techniques. Prerequisite: SUDP 100 (2.0 or higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Current BASBH students.**

### Relapse Prevention

☞ 22347 SUDP 250 O1 (2) Online Rabe  
An overview of the recovery process with an emphasis on Relapse Prevention. Topics include identifying warning signs of relapse, Post-Acute Withdrawal Syndrome, and developing effective relapse prevention strategies and techniques with the client. Prerequisite: SUDP 100 (2.0 or higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Supervised Practicum

~6 29983 SUDP 260 P (5) 9:15-10:20am M TAC 338 Rabe

Allows the student to bridge their classroom education and training in a supervised practicum in a pre-arranged faculty approved facility for 150 supervised hours that includes a minimum of 50 face-to-face hours under direct supervision. Prerequisite: SUDP 100 (2.0 or higher) or instructor permission is required for this course to count toward the Substance Use Disorder Professional degree. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## WELDING

### Welding for Mechanics

34448 WELD 151 C1 (5) 8am-12:50pm F TEC 105 Hegsted  
Lab ARR ARR ARR Hegsted

Introduction of cutting and welding processes. Includes information on welding equipment and material, various welding techniques and proper safety procedures. Prerequisite: DET 110 or DET 130 or instructor permission. Lab fee \$73.78.

### GTAW I

22429 WELD 159 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

Theory and practice of oxyacetylene welding, brazing, cutting and gas tungsten arc welding (GTAW). Safety, handling and use of compressed gases, materials, types of weld joints, and procedures will be studied. Prerequisites: WELD 164, WELD 165 and WELD 267; co-requisites: WELD 195 and WELD 259. Lab fee \$143.09. **Class meets 4/7 – 5/8.**

### SMAW I

22692 WELD 161 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

Introduction to shielded metal arc welding (SMAW). The lab consists of safety, machine setup and operation, joint design, and electrode selection. Co-requisite: WELD 165 and WELD 265. Lab fee \$173.44. **Class meets 4/7 – 5/8.**

### FCAW/GMAW I

22431 WELD 164 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

Gas metal-arc welding (GMAW) and flux-cored arc welding (FCAW) safety, setup, operation, and troubleshooting. Lab practices include butt, lap, tee, and corner joints in all positions. Prerequisite: WELD 161, WELD 165 and WELD 265. Co-requisites: WELD 175 and WELD 267. Lab fee \$173.44. **Class meets 4/7 – 5/8.**

### SMAW Theory

22693 WELD 165 C1 (2) 9:15-10am TBD TEC 105Peters/Hegsted

Theory of shielded metal arc welding (SMAW). This class will cover safety, machine setup and operation, joint design, and electrode selection of the shield metal arc welding process as well as standards of certification and the certification process. Co-requisites: WELD 161 and WELD 265. Lab fee \$20. **Wednesday lecture.**

### FCAW/GMAW Theory

22428 WELD 175 C1 (2) 10-11am TBD TEC 105Peters/Hegsted

Theory of GMAW and FCAW (gas and self-shielded). This class will cover safety, machine setup and operation, joint design, and electrode selection of the GMAW and FCAW processes as well as standards of certification and the certification process. Prerequisites: WELD 161, WELD 165 and WELD 265; co-requisites: WELD 164 and WELD 267.

## Oxyfuel & GTAW

31327 WELD 180 N1 (5)	5-5:50pm	TTh	TEC 105	Daarud
Lab	6-8:50pm	TTh	TEC 103	Daarud

Safety, setup, and welding in all positions using gas metal arc welding equipment. Lab fee \$73.78.

### GTAW Theory

22433 WELD 195 C1 (2) 11am-12pm TBD TEC 105Peters/Hegsted

Theory of the manual processes of gas tungsten arc welding (GTAW) and oxyacetylene brazing. This class will cover safety, machine setup and operation, joint design, and electrode selection as well as standards of certification and the certification process. Prerequisite: WELD 164 and WELD 267; co-requisite: WELD 259.

### GTAW II

22430 WELD 259 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

Advanced Gas Tungsten Arc Welding (GTAW), all position plate and pipe welding. This course prepares welders for WABO certification. Prerequisite: WELD 164 and WELD 267; corequisite: WELD 195. Lab Fee: \$173.44. **Class meets 5/12 – 6/20.**

### SMAW II

22694 WELD 265 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

The practice of advanced shielded metal arc welding (SMAW) to prepare for the Washington Association of Building Officials (WABO) certification tests on plate and pipe. Corequisites: WELD 161 and WELD 165. Lab fee: \$173.44. **Class meets 5/12 – 6/20.**

### FCAW/GMAW II

31190 WELD 267 C1 (6) 9:15am-3pm MTWTh TEC 103Peters/Hegsted

Advanced gas metal arc welding (GMAW) and flux cored arc welding (FCAW). All position plate and pipe welding. This course prepares welders for Washington Association of Building Officials (WABO) certification. Prerequisite: WELD 161 and WELD 265; Co-requisites: WELD 164 and WELD 165. Lab fee \$143.09. **Class meets 5/12 – 6/20.**

### Arc Certification Theory

31226 WELD 284 C1 (1) 12-1pm TBD TEC 105Peters/Hegsted

The study of welder qualification pertaining to the following Washington Association of Building Officials (WABO) and American Welding Society (AWS) Standards: WABO 27-13, AWS D1.1, and AWS D1.8. Corequisites: WELD 161, WELD 165, and WELD 265 or instructor permission. **Wednesday lecture.**

# BACHELOR APPLIED SCIENCE

## Data Analytics for Accounting

29287 ACCT 404 O1 (5) Online Brodersen

Using previously learned accounting principles, apply principles of data analytics in an accounting context. Students develop skills to ask relevant questions; understand and prepare different types of data to use in analysis; perform descriptive, diagnostic, predictive, and prescriptive analytics; and communicate the findings. Prerequisites: ACCT& 201, BTEC 214 or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Sociology of Health & Healthcare

28639 BASBH 325 N (5) 5-6:50pm Th WSC 109 Sirs

This course explores health, illness, and healthcare from a sociological perspective. It considers the relationship between individuals' health and their cultural and structural realities, including the social determinants of health and social construction of illness. In addition, it examines healthcare professions from a sociological perspective and critically analyze the structure, functions, and outcomes of the U.S. healthcare system. Prerequisite: admission in BASBH program. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is for BAS students.**

## Case Management

28638 BASBH 400 N (5) 7-8:50pm T WSC 109 Sirs

Overview of case management within the context of human service delivery. Students develop observation, problem-solving, recording and relationships building skills through the exploration of the case management process which includes client engagement and assessment, interview techniques and collection of client engagement and assessment, interview techniques and collection of client information. Students learn how to plan and develop a case file, refer clients for services, monitor the service coordination process and terminate a case. They also explore professional responsibility and cultural diversity in the context of case management practice. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is for BAS students.**

## Practicum

22539 BASBH 470 P1 (5) 7-7:50pm Th WSC 109 Sirs

Through supervised clinical experience, the student begins hands-on training in a behavioral health/human service field. Skills focused upon are: intake interviewing, case management, assessment of client/consumer needs and intervention strategies to meet those needs, individual and group counseling, outreach activities, recording procedures, appropriate use of community referral and networking resources, staff relations, and inter-agency communications. One hundred sixty hours of recorded clinical experience are required. Prerequisite: completion of 45 credits of BASBH program coursework. Co-requisite: Enrollment in BASBH program. Lab fee \$7.21. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Capstone

22651 BASBH 471 N (5) 7-8:50pm Th WSC 109 Sirs

In the capstone course, students synthesize, apply, and extend content learned throughout the Behavioral Health degree program. In consultation with faculty, students will propose, complete, evaluate, and present a project that demonstrates their mastery of a specific component of their Behavioral Health coursework relevant to the field and to their own academic and professional goals. Prerequisite: completion of 45 credits of BASBH program coursework. Co-requisite: enrollment into BASBH program. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is for BAS students.**

## Diesel Internship

35417 DET 365 O (5) Online Lipp

Culminating activity that requires the application of program learning outcomes to a specific job or project. Students will work to attain learning outcomes through activities and deliverables agreed upon between the student, internship provider, and instructor. Co-requisite: Admittance into BAS program or administrator approval, or co-enrolled in MGMT 460 and 25 credits of BAS courses. Lab fee \$74.21.

## Electrical III

29213 DET 415 C (5) 9:15-10:20am WTh FTC 108 Harris  
Lab 10:30am-2:45pm WTh TEC 154 Harris

Course content will focus on the theory and application of advanced electrical circuits, schematic reading, and proper troubleshooting techniques. Prerequisite: enrollment in BASDT or by permission. Lab fee \$75. **Class meets 4/7 – 5/8.**

## Power Generation Systems

29258 DET 465 C (5) 9:15-10:20am WTh FTC 108 Lipp  
Lab 10:30am-2:45pm WTh TEC 154 Lipp

Students will operate, maintain, test, and troubleshoot generators and related energized and de-energized components. Emphasizes safe working practices when working around on-site power generation systems. Prerequisite: enrollment in BASDT or by permission. Lab fee \$75. **Class meets 5/12 – 6/16.**

## Teaching Art & Movement

22148 EDUC 335 N1 (3) 6-7:20pm T WAH 103 Baker

Students examine current theory, research, and best practices related to the arts and movement. Instruction will include employing strategies for integrating the arts and an appreciation for the arts across and within content areas. Prerequisites: admittance into BAS program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Language Arts and Development

22141 EDUC 345 N (3) 5-6:20pm T WAH 105 Fast

Examine the methods for teaching writing, reading, listening, and speaking strategies and skills, including vocabulary, grammar, usage, and language development. Prerequisite: admittance into BAS-TE program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Intermediate Reading

📞 22142 EDUC 365 N1 (3) 6:30-7:50pm T WAH 109 Styger  
Explores reading, comprehension, and literacy as it pertains to intermediate readers. Prerequisite: admittance into BAS-TE program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Typical & Atypical Child Development

📞 22309 EDUC 380 N1 (5) 6:30-8:20pm T WAH 146 Fritch  
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. Prerequisite: admittance into BAS-TE program or instructor permission. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Education and the Law

📞 22143 EDUC 400 N1 (3) 8-9:20pm T WAH 105 Jager  
Examine educational law emphasizing rights and responsibilities of students and teachers, and current issues of education and special education. Explore current legislation, issues, and trends related to schools and special education. Prerequisite: admittance into BAS-TE program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Exceptional Learners

📞 22308 EDUC 410 N1 (5) 8-9:50pm Th WAH 146 Fritch  
This course will identify effective, research-based instructional strategies, accommodations, and adaptations for learners with diverse academic and behavioral needs. Participants will demonstrate how to make data-based decisions informed by multiple measures of evidence. Prerequisite: admittance into BAS-TE program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Classroom Management

📞 22144 EDUC 421 N (5) 5-7:50pm Th WAH 103 Grande Moody  
Students will examine current theory, research, and best practices related to classroom management. Instruction will include employing techniques and strategies for managing individual and group behavior in a variety of instructional settings. Prerequisite: admittance into BAS-TE program or administrator approval; corequisite: EDUC 483.

## SPED Seminar

📞 22286 EDUC 480 N1 (2) 5-5:50pm T WAH 146 Fritch  
Students will work toward completing and documenting field tasks required for student teaching, certification, and the Special Education Portfolio as dictated by the state. Prerequisite: admission into BAS-TE program or administrator approval. Lab fee \$67. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Student Teaching SPED

📞 22145 EDUC 490 O (10) Online Grande Moody  
Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned. Students will meet one on one or in small groups with supervising faculty. Prerequisite: EDUC 497 with a 2.0 or higher. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Student Teaching Elementary 2

📞 22146 EDUC 498 O (10) Online Grande Moody  
Supervised instructional experience to develop, implement, practice, and evaluate theory and methods learned in BAS-TE program. Prerequisite: ENGL& 102; 2.0 or higher in all prior EDUC courses. Lab fee \$67. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Environmental Issues in Management

📞 38010 ENVS 440 O1 (5) Online Hueckel  
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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## Ethics (H)

📞 22670 HUM 315 O (5) Online King  
Foundation course in ethics as applied to businesses and organizations related to management issues. Students will explore theoretical concepts in business ethics and apply them to real-world situations based on challenges managers face. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. This class is for BAS students.**

## Software Engineering II

📞 22415 IT 340 H (5) 8-8:50am MTWTh WAH 211 Montalbano  
📞 22448 IT 340 VH (5) 8-8:50am MTWTh Virtual Montalbano  
Class will focus on data models, entities, normalization/denormalization, SQL, stored procedures, and general design. MS SQL Server is used for the class. Includes survey of other modern database systems such as NOSQL and Postgres. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually. This class is for BAS students.**

## Info Security for Developers

📞 22677 IT 430 H1 (5) 10:30-11:20am MTWTh WAH 216 Harlan  
📞 22679 IT 430 VH (5) 10:30-11:20am MTWTh Virtual Harlan  
Students will examine information system security. Students will develop protocols and controls to harden information systems, and learn how vulnerabilities in information systems can be exploited using common, easy-to-access tools and techniques. Lab fee \$50. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually. This class is for BAS students.**

## *IT Internship*

☎ 22681 IT 440 O (3) **CANCELED** Harlan

Culminating activity requiring the application of program learning outcomes to a specific job or project. Students will work to attain learning outcomes through activities and deliverables agreed upon between the student, internship provider, and instructor. Prerequisite: admittance into BAS program or administrator approval or co-enrolled in MGMT 460 and 45 credits of BAS courses. Lab fee \$57.21. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Internship 2*

☎ 35403 IT 450 O1 (5) Online Harlan

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. Prerequisite: BAS-IT:AD admittance or permission of the instructor. Lab fee \$50. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *BAS-IT: AD Capstone*

☎ 22682 IT 460 H (5) 1-1:50pm MTWTh WAH 216 Harlan

☎ 22683 IT 460 VH (5) 1-1:50pm MTWTh Virtual Harlan

Students will deliver a working software project, and all associated documentation to demonstrate mastery of the software development life cycle, and of modern software development methodologies. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials. Section VH meets virtually.**

## *Management of Human Resources*

☎ 22544 MGMT 420 O (5) Online King

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. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Supply Chain Management*

☎ 29286 MGMT 430 O1 (5) Online Burger

Supply Chain Management (SCM) explores the fundamental elements required for business efficiencies in operations. SCM utilizes analytical management techniques for ascertaining demand for the organization's goods and services, justifying and acquiring the necessary resources, planning and controlling the transformation of resources into goods and services, and inventory management. SCM surveys supply chain strategy and design, scheduling and production design, supply chain management operations, and provides an introduction to distribution and quality management. Course reviews the SCM application in both large and small organizations, private and public enterprise, service and manufacturing organizations. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Quality Mgmt. Principles*

☎ 29283 MGMT 440 O1 (5) **CANCELED** Hueckel

Understand terminology, methods and tools which are essential for the quality practitioner, planner, and decision-maker. Acquire familiarity and a working knowledge of the principles and practice of quality management, quality control and process improvement. Analyze operational information and various quantitative and qualitative approaches that reduce production, inventory and transportation costs, and improve service levels and profitability. Develop skills of analyzing and improving quality by utilizing techniques and methods of total quality management, continuous improvement, six-sigma quality, and statistical process control. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Warehouse Mgmt.*

☎ 29301 MGMT 445 O1 (5) Online Burger

Upon successful completion of this course, students should be able to demonstrate knowledge and think critically in the formulation of logistics, distribution and warehouse management strategies necessary to support the firm's strategic decisions. Analysis of the logistics concepts to include a brief history of logistics, the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location, facility layout, and customer service. Different modes of transportation are examined along with legal requirements and documentation. Writing assignments, as appropriate to the discipline, are part of the course. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Internship Seminar*

☎ 22299 MGMT 460 O (2) Online Burger

Discuss topics relevant to the workplace, such as, professional image, business etiquette, resolving conflict, problem-solving, diversity, preparing for and securing employment. Course prerequisite: admittance into BAS program or administrator approval. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Management Internship*

☎ 22404 MGMT 470 O1 (3) Online Burger

BAS-AM program outcomes in an internship with specific outcomes as agreed to by the student, internship provider and instructor. Classes will focus on sharing progress, issues or barriers from the internships. Prerequisite: completion of BAS-AM foundation courses and 30 additional BAS-AM core credits with a 2.0 minimum GPA. Lab fee \$76.21. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## *Strategic Management*

☎ 29288 MGMT 490 H (5) 9:15-10:20am MW WAH 113 Burger

☎ 22338 MGMT 490 O (5) Online Burger

A capstone course which focuses on the key aspects that must be addressed for sustained organizational success, effective problem solving, and the capture of opportunities from the perspective of the general manager or the entrepreneur. Prerequisite: BAS 460 or instructor permission. **These courses require reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

## ***Positive Psychology, Health and Aging***

22538 PSYC 409 N (5) 5-6:50pm T WSC 111 MacNamara

Students examine the foundations of positive psychology and its relationship to healthy aging through PERMA (Positive emotion, Engagement, Relationship, Meaningfulness, and Achievement), and explore positive interventions through theory, research and practice. Presents an overview on aging that includes the social aspects of aging, how personality affects aging, research on learned helplessness and specific techniques to combat depression based on cognitive behavioral therapy. Prerequisite: admission in BASBH program. **This course requires reliable access to a computer or laptop (a cell phone is not sufficient) with internet access to complete online homework and review online materials.**

VERSION\_08

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Centralia College offers more than 50 associate degree and certificate options and five bachelor of applied science degrees in a variety of fields, providing a rich complement of career and technical, basic skills, and continuing education programs. Degree- or certificate-seeking students must apply for program admission and register in the degree or certificate program of their choice.

Centralia College provides equal opportunity and access in education and employment and does not exclude, deny benefits to, or otherwise discriminate against any person on the basis of race, ethnicity, creed, color, sex, gender, citizenship status, national origin, age, marital status, religious preference, the presence of any sensory, mental, or physical disability, reliance on public assistance, sexual orientation, veteran status, political opinions or affiliations, or genetic information under any of its programs, activities and services. The College complies with all Washington State anti-discrimination laws (RCW 49.60) and the following federal laws relating to equal opportunity: Title VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans with Disabilities Act (ADA) of 1990.

The following person has been designated to handle inquiries regarding non-discrimination, equal opportunity, affirmative action or the ADA policies or for Title IX/504 compliance issues: Director of Equity and Inclusion, Thalia Vaillancourt, 600 Centralia College Blvd, Centralia, WA 98531, 360-623-8630.

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