

# Winter Quarter 2019 Class Schedule

Updated 1/29/2019 7:00:00 AM

## ACCOUNTING

### **ACCT& 201 PRINCIPLES OF ACCOUNTING I**

Covers fundamentals of accounting theory and practice, including a study of the accounting cycle, and the use of special journals. Focus is on double entry accounting system and financial statement preparation. Covers transactions for a business organized as a sole proprietorship and their effects on balance sheet accounts. Prerequisite: ACTG 115 or Instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4913	5 Cr	11:00AM-11:50AM	MTTh	01/02/19-03/18/19	11 127	Dorum, Lucy	HYBRID

### **ACCT& 203 PRINCIPLES OF ACCOUNTING III**

Introduces the theory of cost accounting and an analysis of accounting data as a part of the managerial process of planning, decision-making, and control. Emphasis is given to job order, process and standard cost accounting data, and the preparation and use of budgets and internal control reports necessary for making economic decisions for manufacturing businesses. Prerequisite: ACCT& 201 Prerequisite(s): Successful completion of ACCT& 201 or instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4983	5 Cr	9:00AM-10:50AM	MW	01/02/19-03/18/19	11 144	Dorum, Lucy	HYBRID

### **ACTG 120 ELECTRONIC BUSINESS MATH**

Covers business math applications, including payroll, percentages, merchandising, consumer credit, simple and compound interest, prorating, stocks and bonds, and the metric system, using keyboard functions and the touch method of electronic calculator operation. Prerequisite(s): Accuplacer score equivalent to completion of MAT 092 and ENG 091 (minimum reading/writing combined score of 245) or equivalent or higher, or instructor approval.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4903	2 Cr	ARRANGED	ARRANGED	01/02/19-03/18/19	ON LINE	Dorum, Lucy	ONLINE

### **ACTG 141 QUICKBOOKS I**

Covers principal applications, basic operating commands, and functions necessary to use QuickBooks automated accounting software. Basic applications include, but are not limited to, vendor, customer, and banking activities, and creating files. Prerequisite(s): Successful completion of ACTG 110 and ACTG 135 or instructor approval.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4923	2 Cr	9:00AM-10:50AM	MW	01/02/19-02/06/19	11 127	Cooke, Suzann	ENHANCED

### **ACTG 143 QUICKBOOKS II**

Covers continued applications for vendor and customer activities using QuickBooks automated accounting software. Also covers starting up companies, inventory management, sales tax, payroll, and working with balance sheet accounts. Prerequisite(s): Successful completion of ACTG 115 and ACTG 141 or instructor approval.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4933	3 Cr	9:00AM-10:50AM	MW	02/11/19-03/18/19	11 127	Cooke, Suzann	ENHANCED

### **ACTG 160 PAYROLL & BUSINESS TAXES**

Provides practice in all payroll operations, the recording of accounting entries involving payroll, and the preparation of required payroll and business tax returns. Covers the concepts, laws, and terminology required to perform specific payroll accounting functions. Prerequisite(s): Successful completion of ACTG 115 or instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4943	5 Cr	9:00AM-10:50AM	TTh	01/03/19-03/19/19	11 144	Dorum, Lucy	HYBRID

### **ACTG 211 PRINCIPLES OF ACCOUNTING I LAB**

Provides instructional activities that support material covered in ACCT& 201 in a supervised lab environment. Concurrent with ACCT& 201 or instructor approval. Prerequisite(s): Successful completion of ACTG 135 or instructor approval.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4953	2 Cr	11:00AM-11:50AM	W	01/02/19-03/13/19	11 127	Dorum, Lucy	
4963	2 Cr	ARRANGED	ARRANGED	01/02/19-03/13/19	ON LINE	Dorum, Lucy	ONLINE

### **ACTG 213 PRINCIPLES OF ACCOUNTING III LAB**

Provides instructional activities that support material covered in ACCT& 203 in a supervised lab environment. Concurrent with ACCT& 203. Prerequisite(s): Successful completion of ACTG 211 and 135 or instructor approval. Co-requisites: ACCT& 203.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4993	3 Cr	ARRANGED	ARRANGED	01/09/19-03/13/19	ON LINE	Dorum, Lucy	ONLINE

### **ACTG 224 FUNDAMENTALS OF FUND/GOVERNMENTAL ACCOUNTING**

Introduces the fundamentals of accounting theory and practice of government/nonprofit accounting, including a study of accounting methods; the reasons for and the use of the various funds; the purpose and use of budgets in this field of accounting; and the differences between generally accepted accounting principles, GASB standards, and fund/governmental accounting. Prerequisite(s): Successful completion of ACTG 115 and ACCT& 201 or instructor approval.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4973	5 Cr	ARRANGED	ARRANGED	01/02/19-03/18/19	ON LINE	Cooke, Suzann	ONLINE

### **ACTG 236 ACCOUNTING SPREADSHEETS II**

Provides advanced instruction in electronic worksheets, various business spreadsheets, 3D worksheets, and various functions, including the conditional function and accounting schedules. Prerequisite(s): Successful completion of ACTG 135 or instructor approval.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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**ACTG 260 BUSINESS OFFICE I**

Provides an opportunity for students to experience and participate in a realistic office environment by providing financial statements, completing financial examinations, preparing payroll, and furnishing other similar financial accounting work products to the public. Prerequisite(s): Successful completion of ACTG 143, ACTG 235, CAS 121, and ACCT& 201, or instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
49B3	5 Cr	12:00PM-2:00PM	MTWTh	01/07/19-03/14/19	11 127	Cooke, Suzann	ENHANCED

**ACTG 262 BUSINESS OFFICE II**

Provides an opportunity for students to experience and participate in a realistic office environment by providing financial statements, completing financial examinations, preparing payroll, and furnishing other similar financial accounting work products to the public. Prerequisite(s): Successful completion of ACTG 260, or instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
49C3	5 Cr	ARRANGED	MTWTh	01/07/19-03/14/19	11 127	Cooke, Suzann	HYBRID

**ACTG 271 INTERNSHIP I**

Provides students with practical on-the-job field experience. Program offers students a way to combine classroom study with related work experience under the supervision of an employer. Work experience must be related to the student's educational and career objectives. Must be approved by the instructor and includes a weekly seminar component. Prerequisite(s): Instructor approval.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
49H3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/18/19	ARR	Cooke, Suzann	

**ACTG 295 INDIVIDUAL INCOME TAX PREPARATION**

Provides on-the-job practical field experience. Program offers students a way to combine classroom study with related work experience under the supervision of an employer. Work experience must be related to the student's educational and career objectives. Must be approved by the instructor and includes a weekly seminar component. Prerequisite(s): Successful completion of ACTG 291 and 293 or instructor approval.

Instructor Permission required.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
49G3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/18/19	ARR	Cooke, Suzann	

**BUS& 201 BUSINESS LAW**

Introduces students to business law as it applies to the business world through the Uniform Commercial Code. Examines legal institutions and processes, legal reasoning, and the interaction of law and business. Laws pertaining to business contracts, sales, bailments, commercial paper, employment, agency, business organization, insurance, and property are reviewed. Prerequisite(s): Successful completion of ACTG 115 or instructor approval.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
49D3	5 Cr	11:00AM-11:50AM	MTWTh	01/02/19-03/18/19	11 144	Cooke, Suzann	HYBRID
49F3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/18/19	ON LINE	Cooke, Suzann	ONLINE

# AEROSPACE COMPOSITE

## **ACM 105 BASIC MATHEMATICS; BASIC PHYSICS; WEIGHT & BALAN**

Understand the scientific principles that apply to the operation of aircraft, engines, and the equipment that Advanced Composite Manufacturers will be in daily contact with. Students will develop a comprehensive understanding of the importance of weight and balance to aircraft safety, and make all of the required calculations for weight and balance checks, equipment changes, extreme loading checks, and the addition of ballast.

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0983	5 Cr	4:00PM-8:15PM	MTWTh	01/02/19-03/21/19	SHC115	Mensonides, J	

## **ACM 110 BLUEPRINTS, DRAWINGS, AND PRECISION MEASURING**

Determine and identify dimensions of a part from drawings, including orthographic and isometric projections. Sketch objects/parts in either orthographic or isometric views.

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0993	4 Cr	4:00PM-8:15PM	MTWTh	01/02/19-03/21/19	SHC115	Mensonides, J	

## **ACM 115 MATERIALS AND PROCESSES/LAB & EQUIPMENT SAFETY**

Students will identify and determine the proper use of fasteners, demonstrate a basic understanding of aircraft hardware identification and terminology, learn about lab safety and the proper use of tools, calculate/apply torque values, and perform precision measurements.

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
09A3	5 Cr	4:00PM-8:15PM	MTWTh	01/02/19-03/21/19	SHC115	Mensonides, J	

## **ACM 120 COMPOSITE FABRICATION**

ACM 120 COMPOSITE FABRICATION 4CR Learn manufacturing methods and processes commonly used for the fabrication of composite materials. Instruction includes material choices, fabrication techniques, material handling, and safety procedures. Prerequisite(s): Successful completion of ACM 105, ACM 110, and ACM 115 (GPA 2.0 or better).

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
09B3	4 Cr	4:00PM-8:15PM	DAILY	01/02/19-03/21/19	SHC119	Conway, Jacki	

## **ACM 125 COMPOSITE ASSEMBLY**

Identify and use appropriate materials and processes to assemble structures made of composite materials. Includes room temperature and elevated temperature bonding, drilling, countersinking, and installing mechanical fasteners and potted fasteners. Prerequisite(s): Successful completion of ACM 105, ACM 110, and ACM 115 (GPA 2.0 or better).

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
09C3	4 Cr	4:00PM-8:15PM	DAILY	01/02/19-03/21/19	SHC119	Conway, Jacki	

### **ACM 130 COMPOSITE REPAIR**

Inspect, test, and repair composite structures. This course explains how imperfections affect composite properties and provides hands-on training for the repair of defects. Prerequisite(s): Successful completion of ACM 105, ACM 110, ACM 115 (GPA 2.0 or better).

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
09D3	4 Cr	4:00PM-8:15PM	DAILY	01/02/19-03/21/19	SHC119	Conway, Jacki	

### **ACM 145 SPECIAL PROJECTS**

Develops skills in print reading, project planning, layout, distortion control, fixturing, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned. Prerequisite(s): Successful completion of ACM 105, ACM 110, and ACM 115 (GPA 2.0 or better).

Additional Fee: 52.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
09F3	3 Cr	4:00PM-8:15PM	DAILY	01/02/19-03/21/19	SHC119	Conway, Jacki	

## **AMERICAN SIGN LANGUAGE**

### **ASL& 121 AMERICAN SIGN LANGUAGE I**

Informs students about deafness, deaf culture, the deaf community, and American Sign Language. Learn to communicate both expressively and receptively in American Sign Language in basic conversation situations. Prerequisite(s): Appropriate Accuplacer (reading/writing combined score of 277 or equivalent) or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0502	5 Cr	2:00PM-4:30PM	MW	01/02/19-03/20/19	17 230	Wilson, Jaime	HYBRID

### **ASL& 122 AMERICAN SIGN LANGUAGE II**

An expansion of ASL& 121, working toward mastery of American Sign Language. Course focuses on deeper insights into vocabulary, grammar, receptive/expressive skills, and history with increased knowledge of deaf communities and culture. Prerequisite: Successful completion of ASL& 121 or appropriate prior ASL experience.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0570	5 Cr	4:30PM-7:00PM	MW	01/02/19-03/20/19	17 240	Wilson, Jaime	HYBRID

## **ARCHITECTURAL ENGINEERING DESIGN**

### **ARC 124 RESIDENTIAL DRAFTING AND DESIGN II**

Overview of construction specifications, residential floor plans, symbols and systems, electrical plans, plumbing plans, HVAC plans, and foundation systems and plans. Prerequisite(s): Successful completion of ARC 122, ARC 171, and ARC 182, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6303	5 Cr	8:00AM-9:50AM	TTh	01/03/19-03/21/19	19 201	Bushnell, Pop	ENHANCED

### **ARC 151 CONSTRUCTION MATERIAL RESEARCH**

Students will investigate and research materials, methods, and trends in construction; the Construction Specification Institute's (CSI) MasterFormat, SectionFormat, and PageFormat systems; and methods of specifying. Prerequisite(s): Successful completion of ARC 122, ARC 171, and ARC 182, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6313	Var	8:00AM-9:50AM	MW	01/02/19-03/20/19	19 201	Bushnell, Pop	ENHANCED

### **ARC 174 CIVIL ENGINEERING**

An introduction to civil engineering software. Students will learn to create, edit and modify civil CAD design objects, add annotation, obtain information, import/export, and use civil CAD data in other applications.

Prerequisite(s): Successful completion of ARC 126 and ARC 282, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6323	5 Cr	10:00AM-10:50AM	TTh	01/03/19-03/21/19	19 203	Lunceford, Ce	ENHANCED

### **ARC 191 ENGINEERING MECHANICS OF MATERIALS**

Students will apply basic engineering used in the building design field: forces, force systems, loading, and reactions; material stress and strain; selection of wood columns and wood connection materials; steel structural materials; and reinforced concrete materials. Prerequisite(s): Successful completion of ARC 126, and MAT 094 or higher or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6333	5 Cr	1:00PM-2:50PM	TTh	01/03/19-03/21/19	19 201	Bushnell, Pop	ENHANCED

### **ARC 220 RESIDENTIAL DRAFTING AND DESIGN IV**

Overview of site planning, framing methods and plans, commercial building codes, and materials for commercial construction. Students will create drawings using industry standard CAD software.

Prerequisite(s): Successful completion of ARC 126, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6343	5 Cr	11:30AM-12:20PM	TTh	01/03/19-03/21/19	19 201	Bushnell, Pop	ENHANCED

### **ARC 225 DESIGN PROJECT II**

Project management and design of an intermediate architectural drafting project. Project conforms to regulatory codes, hypothetical client needs, and established schedules. Producing a complete set of computer-drafted and engineered construction drawings. Give effective oral reports of progress.

Prerequisites: ARC 223 and ARC 281

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6353	5 Cr	1:00PM-1:50PM	M	01/07/19-03/18/19	19 203	Lunceford, Ce	ENHANCED

### **ARC 227 SPECIAL INTERN PROJECT**

Complete the written Work-Based Learning Experience Plan. Prerequisites: Instructor permission required. Instructor Permission required.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6363	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ARR	Bushnell, Pop	

### **ARC 229 SPECIAL DESIGN PROJECT**

Complete special design project as approved by the Instructor to aid in realistic training. Lab hours arranged. Prerequisites: Successful completion of ARC 262 and ARC 286, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6373	5 Cr	3:00PM-3:50PM	M	01/07/19-03/18/19	19 203	Lunceford, Ce	ENHANCED

### **ARC 231 COST ESTIMATING I**

Completion of a computerized, detailed cost estimate for one-story house with site development.

Additional Fee: 43.90

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6383	3 Cr	11:30AM-12:20PM	M	01/07/19-02/25/19	19 201	Bushnell, Pop	ENHANCED

### **ARC 237 ENERGY ANALYSIS**

Covers using prescriptive performance for compliance with current energy code. Lab hours arranged.

Prerequisites: ARC 223, MAT 105

Additional Fee: 34.10

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6393	1 Cr	10:00AM-10:50AM	M	01/07/19-02/25/19	19 203	Lunceford, Ce	ENHANCED

### **ARC 262 INTRODUCTION TO THREE DIMENSIONAL MODELING**

A hands-on introduction to 3D modeling. This course walks students through the basics of the software. Develop a preliminary design model using massing. Learn about strategies and techniques to develop speed and efficiency in modeling and presentations. Prerequisite(s): Successful completion of ARC 182, or instructor approval.

Additional Fee: 43.90

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
63A3	3 Cr	11:00AM-11:50AM	W	01/02/19-02/27/19	19 203	Lunceford, Ce	ENHANCED

### **ARC 288 APPLIED CADD**

Use current industry-standard 3D software applications (i.e. ' Revit, SketchUp, Civil3D) to create or modify a design. Produce production drawings. Save, print, or transmit drawings to industry-standard applications. Prerequisite(s): Successful completion of ARC 262, 223 and ARC 282, or instructor approval.

Additional Fee: 53.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
63B3	5 Cr	2:00PM-2:50PM	MW	01/02/19-03/20/19	19 203	Lunceford, Ce	ENHANCED

## **ART**

### **ART& 100 ART APPRECIATION**

Introduction to the diversity of the art world from ancient civilizations to contemporary society. A discussion of art terminology and methods will be covered in an overview of art materials and techniques.

Prerequisite(s): Appropriate Accuplacer (283 in reading) score or equivalent; or successful completion of ENG 094 is required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0501	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Rendal, Cami	ONLINE

## **AUTOMOTIVE COLLISION TECHNICIAN**

### **IAUT 104 INTRODUCTION TO AUTOMOTIVE ELECTRICAL**

This course is an introduction to automotive electrical systems. Students will learn electrical theory, basic electrical testing equipment and procedures, determine circuit resistance, current flow and voltage using Ohms law, proper wire splicing and repairs, and identification of electrical system components. Co-requisite: IAUT 102, IAUT 115, IAUT 130 AND IAUT 139.

Instructor Permission required.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9683	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 402	Vargo, Alan	
96C3	4 Cr	2:00PM-5:45PM	MTWTh	01/02/19-03/21/19	03 401	Chinery, Tod	

### **IAUT 105 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY**

Instructor Permission required.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9673	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 402	Vargo, Alan	

### **IAUT 115 INTRO TO AUTOMOTIVE STEERING, SUSPENSION & BRAKE**

This course is an introduction to automotive steering, suspension and braking systems. Students will learn to identify steering and suspension components, properly use appropriate lifting and supporting methods, identify worn or damaged components, understand the function of the brake system, and perform proper tubing flaring procedures. Co-requisites: IAUT 102, IAUT 104, IAUT 130 AND IAUT 139.

Instructor Permission required.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9693	5 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 402	Vargo, Alan	

### **IAUT 130 AUTOMOTIVE HVAC**

This course is an introduction to automotive HVAC systems. Students will learn to identify HVAC system components, determine proper refrigerant type, diagnose common HVAC symptoms, and locate, identify, and describe the function of the various air-conditioning components. Co-requisite: IAUT 102, IAUT 104, IAUT 115, AND IAUT 139.

Instructor Permission required.

Additional Fee: 59.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
96A3	2 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 402	Vargo, Alan	
96D3	2 Cr	2:00PM-5:45PM	MTWTh	01/02/19-03/21/19	03 401	Chinery, Tod	

## **IAUT 140 BASIC AUTOMOTIVE WELDING**

Instructor Permission required.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
96B3	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 402	Vargo, Alan	

## **ACT 132 PANEL REPLACEMENT**

Covers the fundamentals of replacing hoods, bumpers, fenders, grilles, lids, and other bolted-on panels. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9603	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

## **ACT 133 PANEL REPAIR**

Covers metal-straightening fundamentals, including proper tool usage; application of fillers; and sanding for proper size, shape, and texture. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9613	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

## **ACT 134 AUTO COLLISION MAJOR REPAIRS**

Introduces vehicle damage measuring systems, straightening auto body structure, and replacing structural components. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 56.75

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9623	5 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

## **ACT 141 AUTO BODY ALUMINUM REPAIR**

This course is an introduction to aluminum body repair. Prerequisite(s): ACT 102-125.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9663	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

## **ACT 154 TOPCOAT REFINISHING**

Covers color matching, final masking, surface cleaning, and topcoat finishing. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 71.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9633	8 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

### **ACT 166 SURFACE IMPERFECTIONS/EXTERIOR TRIM**

Covers paint-application problem solving, final detailing, decals, and trimming. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 56.75

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9643	5 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

### **ACT 171 PLASTIC REFINISHING**

Covers paint-shop equipment and painting fundamentals as they relate to plastics. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 56.75

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9653	5 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 301	Freeman, Kurt	

## **AUTOMOTIVE RESTORATION AND CUSTOMIZATION**

### **ARCF 103 FUNDAMENTALS OF SHOP EQUIPMENT**

Covers shop safety, fundamentals of tool use, and proper use of shop equipment. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 46.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1703	3 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 109 WELDING & METAL SKILLS**

Covers welding, heating, and cutting techniques using MIG and oxyacetylene equipment. Students will learn safe handling and correct metal-forming techniques of sheet metal. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1713	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 114 BASIC REPAIRS AND ASSEMBLY**

Covers basic repair and assembly procedures for bolt-on body components. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT and 139.

Instructor Permission required.

Additional Fee: 71.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1723	8 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 119 CUSTOM FABRICATION**

Explores basic customizing techniques used on original factory parts, as well as fabrication of custom parts. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1733	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 124 REFINISHING EQUIPMENT**

Explores refinishing equipment use and maintenance. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1743	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 306	Mullins, Mich	

### **ARCF 129 REFINISH PREPARATION**

Explores corrosion protection and vehicle refinish preparation. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1753	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 306	Mullins, Mich	

### **ARCF 130 ADVANCED PAINT APPLICATION**

Covers application of advanced masking, topcoat shading, and graphics on a restoration or custom project. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1763	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 306	Mullins, Mich	

### **ARCF 133 FIBERGLASS/COMPOSITES TECHNIQUES**

Further develop skills in customizing techniques used on original factory parts, as well as fabrication of custom parts. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1773	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 134 CUSTOM REFINISHING**

Covers topcoat, clear coat, and custom refinishing. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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1783 6 Cr 7:30AM-1:50PM DAILY 01/02/19-03/21/19 03 306 Mullins, Mich

### **ARCF 141 SURFACE IMPERFECTIONS/SHOW AND SHINE**

Covers paint-application problem-solving and show detailing. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1793	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 306	Mullins, Mich	

### **ARCF 154 AUTOMOTIVE RESTORATION & CUSTOM LAB**

Finish projects and competencies in restoration and/or customizing. Nine credits in summer quarter; variable credit other three quarters. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 76.35

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
17A3	9 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 159 METAL STRENGTHENING AND SHAPING**

Metal straightening and shaping techniques on a custom or restoration project. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
17B3	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 167 CUSTOM PAINT APPLICATION**

Covers application of custom masking, topcoat shading and graphics. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 46.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
17C3	3 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 306	Mullins, Mich	

### **ARCF 168 APPLIED METAL SKILLS**

Covers application of previously acquired metal skills as they relate to the student's project work. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 46.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
17D3	3 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

### **ARCF 170 CUSTOM REFINISHING - SPECIAL PROJECTS**

Develop skills in advanced custom and/or restoration techniques. Students will have the opportunity to apply knowledge to projects of personal interest, as assigned, and/or job shadowing. Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
17F3	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 307	Freeman, Kurt	

## **AUTOMOTIVE TECHNICIAN**

### **AUT 174 ENGINE MINOR MECHANICAL REPAIR**

Diagnose and repair general engine mechanical, lubrication, and cooling system problems. Upon completion of this course, students will be familiar with the terminology, basic theory, diagnostics, and minor engine mechanical service and repair procedures. Prerequisite(s): Must have required tools and textbooks. Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139. Co-requisites: AUT 175 and AUT 178.

Instructor Permission required.

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4603	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 701	Smith, Michea	

### **AUT 175 ENGINE MAJOR MECHANICAL REPAIR**

Diagnose and repair engine blocks, heads, and valve trains. Upon completion of this course, the student will be familiar with the terminology, basic theory, diagnostics, and removal and installation procedures to successfully diagnose and repair automobiles and light truck engines. Prerequisite(s): Must have required tools and textbooks. Co-requisites: AUT 178.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4613	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 701	Smith, Michea	

### **AUT 178 ENGINE MECHANICAL LAB**

Repair engine components by applying knowledge attained in required courses. This is a hands-on class that uses live projects. Upon completion of this course, students will be familiar with diagnosis, maintenance and repair of automobile and light truck engines. Prerequisite(s): Must have required tools and textbooks. Co-requisites: AUT 174 and AUT 175.

Instructor Permission required.

Additional Fee: 46.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4623	3 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 701	Smith, Michea	

### **AUT 217 AUTOMOTIVE IGNITION SYSTEMS**

Diagnose and repair electronic and computer-controlled automotive ignition systems. Upon completion of this course, students will be familiar with the terminology, basic theory, and diagnostic and repair procedures used on automobiles and light trucks. Prerequisite(s): Must successfully complete courses AUT 174, 175, 178, 209, and 212 and must have required tools and textbooks. Co-requisites: AUT 223 and AUT 236.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4683	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 901	Covington, G	

### **AUT 223 AUTOMOTIVE FUEL SYSTEMS**

Diagnose and repair fuel management systems. Upon completion of this course, students will be familiar with the terminology, basic theory, and diagnostic and repair procedures used on automobiles and light trucks. Prerequisite(s): Must successfully complete courses AUT 174, 175, 178, 209, and 212, and must have required tools and textbooks. Co-requisites: AUT 217 and AUT 236.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4693	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 901	Covington, G	

### **AUT 236 AUTOMOTIVE EMISSIONS SYSTEMS**

Diagnose and repair emissions control systems. Upon completion of this course, students will be familiar with the terminology, basic theory, and diagnostic and repair procedures used on automobiles and light trucks. Prerequisite(s): Must successfully complete courses AUT 174, 175, 178, 209, and 212, and must have required tools and textbooks. Co-requisites: AUT 217 and AUT 223.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
46A3	Var	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 901	Covington, G	HYBRID

### **AUT 247 AUTOMATICS TRANSMISSIONS**

This course provides students with the knowledge and skills to competently repair automatic transmissions. Upon completion of the course, students will be familiar with the terminology, basic theory, diagnostics, maintenance, and repair of automobile/light truck automatic transmissions. Prerequisite(s): Must have required tools and textbooks. Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, and IAUT 139.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4643	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 601	Brown, David	HYBRID

### **AUT 250 AUTOMATIC TRANSAXLES**

This course provides students with the knowledge and skills to competently repair automatic transaxles. Upon completion of the course, students will be familiar with the terminology, basic theory, diagnostics, maintenance, and repair of automobile transaxles. Prerequisite(s): Must successfully complete AUT 247 and have required tools and textbooks.

Instructor Permission required.

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4653	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 601	Brown, David	HYBRID

### **AUT 251 AUTOMATIC TRANSMISSIONS/TRANSAXLES LAB**

This course is designed to teach students to competently repair automatic transmission/transaxle assemblies by applying knowledge attained in required courses. This is a hands-on class that uses live projects. Upon completion of this course, students will be familiar with diagnosis, maintenance, and repair of automobile/light truck drive trains by applying academic knowledge to hands-on projects.

Prerequisite(s): Must successfully complete courses AUT 247 and 250, and must have required tools and textbooks prior to entering this course.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4663	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 601	Brown, David	HYBRID

### **AUT 270 INTRODUCTION TO HYBRID SAFETY**

This course is an introduction to the safety precautions required when working on hybrid and electric vehicles. Students will learn about the basics of hybrid electrical systems, personal protective equipment (PPE), and how to power down the most common hybrid vehicles. Offered only during winter quarter.

Prerequisite(s): Successful completion of IAUT 102, IAUT 104, IAUT 115, IAUT 130, IAUT and 139.

Instructor Permission required.

Additional Fee: 51.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4633	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 601	Smith, Michea	HYBRID
4673	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 601	Brown, David	HYBRID
46B3	4 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 901	Covington, G	HYBRID

### **FAUT 120 FORD INTRODUCTION TO AUTOMOTIVE**

Additional Fee: 42.05

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
46C3	2 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 801	Brown, David	

### **FAUT 149 FORD AUTOMOTIVE SUSPENSION,STEERING WHEEL ALIGNM**

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
46D3	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 801	Brown, David	

### **FAUT 172 FORD BASE STEERING, SUSPENSION & ALIGNMENT**

Additional Fee: 61.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
46F3	6 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 801	Brown, David	

### **FAUT 179 FORD GENERAL MAINTENANCE AND TIRES**

Additional Fee: 66.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
46G3	7 Cr	7:30AM-1:50PM	DAILY	01/02/19-03/21/19	03 801	Brown, David	

## **AVIATION MAINTENANCE TECHNICIAN**

### **AMT 109 BASIC ELECTRICITY**

Direct current circuits, series, and parallel circuit arrangements and their application, understanding the

relationship of voltage, current, resistance, and power, calculating and measuring these values, and understand the operation of the multi-meter and its use in troubleshooting.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4403	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC116	Doyon, Greg	

### **AMT 125     ADVANCED ELECTRICITY**

Understand the effect of resistance, capacitance, and inductance in AC circuits, and understand transformers. Learn about basic semi-conductor devices (diodes and transistors), and be able to explain their function in simple circuits.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4413	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC116	Doyon, Greg	

### **AMT 133     AIRCRAFT FUEL/ICE/RAIN CONTROL/FIRE PROTECT SYS**

Covers principles of operation and configuration of warning systems, electrical brake controls, anti-skid systems, and landing gear position indicating and warning systems. Learn the effects of ice and rain on aircraft during operations in inclement weather, the equipment and materials used to counter ice and rain, and the maintenance of this equipment. Explore components and operation of fire detection and extinguishing equipment, as well as smoke and toxic gas detection systems.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4473	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

### **AMT 140     AIRCRAFT LANDING GEAR**

Inspect, check, service, and repair landing gear retraction systems, shock struts, brakes, wheels, tires, and steering systems.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4443	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

### **AMT 141     HYDRAULIC & PNEUMATIC POWER SYSTEMS**

Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems and components. Identify and select hydraulic fluids.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4453	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

### **AMT 142     HANGAR AND FLIGHT LINE OPERATIONS**

Perform maintenance on items of shop equipment used in the day-to-day operation of the aircraft maintenance hangar, calibrate precision tools as needed, and assist in repair station operations. Note: Offered during winter quarter.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44K3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC116	Doyon, Greg	
44S3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

### **AMT 143     AIRFRAME ELECTRICAL SYSTEMS**

Learn about operation of AC and DC electrical systems used on large and small aircraft, generating and starting systems, AC and DC electric motors, wiring, controls, switches, indicators, and protective devices, and constant speed and integrated drive generators.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4423	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC116	Doyon, Greg	

#### **AMT 144 ENGINE ELECTRICAL SYSTEMS**

Develop an understanding of the operation of generators, alternators, DC motors, and AC motors, and their repair and overhaul. Learn the special requirements of electrical components operating in high temperature areas and how to install wiring, controls, switches, and indicators, and to protect them from its effects.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4433	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC116	Doyon, Greg	

#### **AMT 145 CABIN ATMOSPHERE CONTROL SYSTEMS**

Physiological aspects of flight. Inspection and maintenance of oxygen, pressurization, heating, cooling and air-conditioning systems.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4463	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

#### **AMT 146 AIRCRAFT INSTRUMENT/COMMUN/NAVIGATION SYSTEMS**

Learn principles of operation of common aircraft instruments, air or vacuum driven gyros, pilot-static systems, and static system leak tests. Gain operating principles of common avionics equipment, antennas, autopilots, servos, approach coupling systems, interphones, static discharge devices, and ground proximity warning systems. Inspect and repair antennas and electronic equipment.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4483	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC117	Mcconkie, Ben	

#### **AMT 217 FAA TESTING & TURBINE ENGINES**

Covers preparation for and completion of FAA certification examinations. FAA written examinations are accomplished outside of CPTC at an FAA Designated Written Examination Center. After successful completion of written examinations, students must pass an oral and practical examination administered by an FAA Designated Maintenance Examiner. Students are charged a fee for these examinations. Note: Fees for these examinations are not included in the college tuition or lab fees. The remaining 120 hours of training concentrate on turbine engines, including their history, different types, the theory of operation of turbine engines, the Brayton cycle, Bernoulli's theory, and turbine engine air-flow characteristics. Learn the theory of operation of different types of compressors, combustion chambers, turbines and turbine stator vanes (nozzles). Learn the exhaust sections maintenance of turbine engines, including turbine engine removal, overhaul, inspection, and repair procedures. Learn to install turbine engines; make adjustments; troubleshoot, test, and check run procedures; and become familiar with regulations, publications, and records for turbine engines.

Additional Fee: 84.30

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4493	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC118	Joy, Earl	

### **AMT 219 ENGINE LUBRICATION SYSTEMS**

Covers the components of and the operation of engine lubrication systems. Introduction to the requirements and characteristics of engine lubricants and lubrication systems.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44A3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC118	Joy, Earl	

### **AMT 221 ENGINE INSTRUMENT SYSTEMS**

Covers the theory and principles of operation of electrical and mechanical fluid rate -of -flow indicating systems. Covers electrical and mechanical temperature, pressure, and RPM-indicating systems.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44B3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC118	Joy, Earl	

### **AMT 229 PROPELLERS & FAA FINAL TESTING**

Propellers consist of the theory of operation and nomenclature. Propeller controls and instrumentation. Fixed pitch, controllable pitch, constant speed, and feathering propellers. Governors, anti-ice, phasing, and synchronization systems. Inspection, maintenance, and repairs to propellers and related systems. Familiarization of unducted fan engines. Included at the end of the course, 6 hours devoted to preparation for FAA certification examinations. FAA written examinations are accomplished at an FAA Designated Written Examination Center. After successful completion of written examinations, students must pass an Oral and Practical Examination administered by an FAA Designated Mechanics Examiner (DME). Students are charged a fee for these examinations administered by FAA designated examiners and centers. Note: Fees for these examinations are not included in the college tuition or lab fees systems.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44G3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC120	Vick, Phillip	

### **AMT 231 ENGINE INSPECTION**

Engine inspection consists of detailed work with the Federal Aviation Regulations, types of inspections, conformance to type certificate data sheets and major alterations, airworthiness directives, and maintenance record entries.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44C3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC120	Vick, Phillip	

### **AMT 233 ENGINE IGNITION & STARTING SYSTEMS**

Covers the operation, maintenance, and overhaul of magnetos and ignition, harnesses, the inspection, servicing, troubleshooting, and repair of reciprocating and turbine engine ignition system, components and turbine engine electrical and pneumatic starting systems.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44D3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC120	Vick, Phillip	

### **AMT 235 INDUCTION, AIRFLOW, COOLING & EXHAUST SYSTEMS**

Learn about the maintenance of carburetors and fuel-injected, naturally aspirated, turbo-charged, and super-charged induction systems. Learn about maintenance of ice and rain control systems, as well as principles of air-cooled engines and problems that can occur with an air-cooled engine. Study the history, development, and function of exhaust systems. Students will describe, inspect, maintain, troubleshoot, and

repair components of exhaust systems. Learn operation principles of turbine-engine reversing systems and power recovery turbines.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44F3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC120	Vick, Phillip	

### **AMT 239 ADVANCED HANGAR OPERATIONS**

Advanced hangar operations and maintenance is designed for the students currently enrolled in the helicopter and powerplant classes. It includes servicing and repair of shop equipment, calibration of precision tools, and assisting in the repair station operations. Note: This course work is only offered during winter quarter.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
44H3	Var	7:00AM-1:00PM	DAILY	01/02/19-03/21/19	SHC120	Vick, Phillip	

## **BIOLOGY**

### **BIOL& 160 GENERAL BIOLOGY W/LAB**

Provides an introduction to cellular biology for students preparing for the health professions. Major concepts include the structure, reproduction, and metabolism of cells; genetics; ecological perspectives; and evolutionary biology. Prerequisite(s): Minimum Accuplacer reading/writing combined score of 277 or equivalent or successful completion of ENG 094.

Additional Fee: 54.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0503	Var	8:00AM-10:00AM	WF	01/02/19-03/20/19	21 235	Noffke, Wendy	HYBRID
0504	Var	10:00AM-12:00PM	WF	01/02/19-03/20/19	21 235	Noffke, Wendy	HYBRID
0574	5 Cr	8:00AM-10:00AM	M	01/07/19-03/19/19	21 235	Noffke, Wendy	HYBRID

### **BIOL& 175 HUMAN BIOLOGY W/LAB**

This course is an in-depth approach to body systems, emphasizing the relationship between structure and functions. This is a laboratory course appropriate for non-science majors or for students beginning study in life sciences. Prerequisite(s): Minimum Accuplacer reading/writing combined score of 277 or equivalent or successful completion of ENG 094.

Additional Fee: 54.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0505	Var	10:00AM-11:50AM	TTh	01/03/19-03/21/19	21 235	Noffke, Wendy	HYBRID
0506	Var	10:30AM-12:10PM	M	01/07/19-03/18/19	21 235	Noffke, Wendy	HYBRID

### **BIOL& 241 HUMAN ANATOMY AND PHYSIOLOGY I**

Provides students with the first course of the two-quarter study of body structure and related physiology on cellular -through -system levels. Includes an in-depth study of cells, tissues, and integumentary, skeletal, muscular, nervous, and sensory systems. Prerequisite(s): Successful completion of CHEM& 110 or higher and BIOL& 160 or BIOL& 175. All prerequisite courses must be completed with a grade of 2.0 or better.

Additional Fee: 30.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0507	5 Cr	8:00AM-10:50AM	TTh	01/03/19-03/21/19	21 231	Jaffer, Nooru	HYBRID

0573 5 Cr 3:00PM-5:30PM TTh 01/03/19-03/21/19 21 231 Schwartz, Jes HYBRID

### **BIOL& 242 HUMAN ANATOMY AND PHYSIOLOGY II**

Provides students with the second course of the two-quarter study of body structure and related physiology on cellular -through -system levels. Includes an in-depth study of body organization and cardiovascular and lymphatic physiological processes. Includes immunology, respiratory, digestive, metabolic, excretory, reproductive, and endocrine systems. Prerequisite(s): Successful completion of BIOL& 241 with a grade of 2.0 or better.

Additional Fee: 30.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0509	5 Cr	8:00AM-10:50AM	MW	01/02/19-03/20/19	21 231	Jaffer, Nooru	HYBRID
0510	5 Cr	11:00AM-1:50PM	MW	01/02/19-03/20/19	21 231	Schwartz, Jes	HYBRID

### **BIOL& 260 MICROBIOLOGY**

Provides students with the content of diversity, structure, and physiology of beneficial and harmful microbes. Laboratory practice in identification of microbial species through culturing, staining, and biochemical testing. Prerequisite(s): Successful completion of BIOL& 160 with a grade of 2.0 or better and CHEM& 110 with a grade of 2.0 or better.

Additional Fee: 30.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0511	Var	12:00PM-1:40PM	F	01/11/19-03/15/19	21 235	Noffke, Wendy	HYBRID

## **CENTRAL SERVICE/STERILE PROCESSING**

### **MMN 126 PRINCIPLES & METHODS OF CLEANING & DISINFECTION**

Includes classroom and laboratory experience in the fundamentals of cleaning and disinfection. Topics include cleaning and disinfecting chemicals, handling and transporting of patient care equipment, and general decontamination protocols for instruments and equipment. Students will gain knowledge and experience with high-level disinfection and flexible endoscopes. The proper and safe handling of infectious waste is included. Web enhanced. Prerequisite(s): Successful completion of MMN 103, MMN 106, MMN 111, MMN 124.

Additional Fee: 69.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8303	6 Cr	8:00AM-1:30PM	DAILY	01/02/19-01/30/19	21 107	Griffin, Chri	ENHANCED

### **MMN 129 PRINCIPLES & PRACTICES OF STERILIZATION**

Students learn techniques and practice in the packaging, assembly, and sterilization of procedural trays, instrument sets, and sterile supplies. Major topics include methods of high- and low-temperature sterilization, sterilization chemicals, and packaging materials. Guidelines for point -of -use processing and transport are discussed. Operations, parameters, and maintenance of various sterilizers are learned, as well as monitoring of the sterilization process and quality control. Proper storage and storage concerns for sterile supplies are included. Prerequisite(s): Successful completion of MMN 103, MMN 106, MMN 111, MMN 124, MMN 126.

Additional Fee: 40.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8313	6 Cr	8:00AM-1:30PM	DAILY	01/31/19-02/28/19	21 107	Griffin, Chri	ENHANCED

## MMN 132 MATERIEL MGMT AND CENTRAL SERVICE APPLICATIONS

This course is an overview of the handling and distribution of materials in a medical facility. Topics covered include inventory management, replenishment methods, and tracking systems. Students become familiar with quality assurance measures and techniques. Prerequisite(s): Successful completion of MMN 103, MMN 106, MMN 111, MMN 124, MMN 126, MMN 129.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8323	3 Cr	8:00AM-1:30PM	DAILY	03/01/19-03/21/19	21 107	Griffin, Chri	ENHANCED

# CHEMISTRY

## CHEM& 110 CHEMICAL CONCEPTS W/LAB

An introduction to chemistry intended for non-science majors. This course looks at how models of atoms, bonding, and the structures of materials provide an understanding of common chemical properties and reactions. Co-requisites: Students who have not completed MAT 099 or achieved an Accuplacer advanced algebra score of 233 or equivalent or higher must take MAT 099 concurrently with this course.

Additional Fee: 33.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0512	Var	8:00AM-9:50AM	MW	01/02/19-03/20/19	15 105	EI Ebiary, H	HYBRID
0513	Var	8:00AM-9:50AM	TTh	01/03/19-03/21/19	15 105	EI Ebiary, H	HYBRID

## CHEM& 121 INTRODUCTION TO CHEMISTRY

CHEM& 121 INTRO TO CHEMISTRY 5CR Understanding the metric system, atomic theory, bonding, quantitative relationships, solutions, gases, acids and bases, salts, and nuclear chemistry. Prerequisite(s): Successful completion of CHEM& 110 or high school chemistry. Co-requisites: MAT 099 or higher or appropriate Accuplacer placement or equivalent concurrently with this course.

Additional Fee: 33.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0514	5 Cr	2:00PM-3:50PM	MW	01/02/19-03/20/19	15 105	Keenan, Leo	HYBRID

## CHEM& 131 INTRODUCTION TO ORGANIC/BIOCHEMISTRY

This course is a survey of organic and biochemistry. The following topics are covered: Nomenclature of organic matter, alcohols, alkenes, organic acids and bases, amines & amides, carbohydrates, proteins, enzymes, nucleic acids, and metabolic pathways.

Additional Fee: 33.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0515	5 Cr	2:00PM-3:50PM	TTh	01/03/19-03/21/19	15 105	Keenan, Leo	HYBRID

# COLLEGE SUCCESS FOR ALL

## COLL 102 COLLEGE SUCCESS FOR ALL

College Success for All prepares students for success at Clover Park Technical College and beyond. This

class is offered pass/fail and utilizes CANVAS, CPTC's online learning management system, to familiarize students with this learning environment. Designed to provide students with the basic skills to be successful in college by developing connections with campus resources, faculty, staff, and peers. The course includes 20 hours of classroom instruction and 20 hours of online and computer work. It includes, but is not limited to: study skills, learning styles, communication skills, time management, campus resources, test taking strategies, diversity, and campus policies and procedures. This class also includes mandatory safety and FERPA training, along with SALT component for financial planning. Prerequisite(s): None, but required for all students.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2P03	3 Cr	7:00AM-7:50AM	MWF	01/02/19-03/21/19	14 102	Van Beek, Car	HYBRID
2P13	3 Cr	10:00AM-10:50AM	MWF	01/02/19-03/21/19	16 113	Salave'a, Eli	HYBRID
2P23	Var	4:00PM-4:50PM	MTW	01/02/19-03/21/19	15 112	Davis, Jane	HYBRID
2P33	3 Cr	8:00AM-8:50AM	TWTh	01/02/19-03/21/19	14 102	Mcgovern, Tly	HYBRID
2P43	Var	8:00AM-8:50AM	TWTh	01/02/19-03/21/19	17 240	Watts, Bryant	HYBRID
2P53	Var	9:00AM-9:50AM	TWTh	01/02/19-03/21/19	16 116	Mollas, Tula	HYBRID
2P63	Var	10:00AM-10:50AM	TWTh	01/02/19-03/21/19	21 109	Phillips, Hal	HYBRID
2P73	Var	11:00AM-11:50AM	TWTh	01/02/19-03/21/19	16 113	Salave'a, Eli	HYBRID
2P83	Var	12:00PM-12:50PM	TWTh	01/02/19-03/21/19	17 240	Crouchet, Cri	HYBRID
2P93	Var	1:00PM-1:50PM	TWTh	01/02/19-03/21/19	03 205	Phillips, Hal	HYBRID
2PA3	Var	2:00PM-2:50PM	TWTh	01/02/19-03/21/19	03 205	Phillips, Hal	HYBRID
2PB3	Var	9:00AM-9:50AM	TWTh	01/02/19-03/21/19	21 109	Phillips, Hal	HYBRID
2PF3	3 Cr	10:00AM-10:50AM	TWTh	01/02/19-03/21/19	11 112	Vano, Jennie	HYBRID
2PG3	3 Cr	3:00PM-3:50PM	TWTh	01/02/19-03/21/19	17 240	Latiolais, Sc	HYBRID
2PD3	Var	9:00AM-12:00PM	Sa	01/05/19-03/16/19	15 112	Perkins, Petr	HYBRID
2PC3	Var	1:00PM-2:50PM	F	01/07/19-03/15/19	SHC116	Phillips, Hal	HYBRID

## **COMPUTER APPLICATIONS**

### **CAS 105 KEYBOARDING**

Use computers to develop touch control and proper keyboarding techniques; introduction to basic word-processing functions.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5703	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **CAS 115 INTRODUCTION TO COMPUTING**

Explore personal computer concepts from a user's perspective. In this introductory course, learn computer terminology; run programs; save, retrieve, and search for files; use help; and perform computer maintenance. Develop basic skills in word processing, Internet, e-mail, and PowerPoint.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2003	3 Cr	9:00AM-9:50AM	MTW	01/02/19-03/20/19	11 112	Carey, Jessi	HYBRID

### **CAS 121 WORD I**

Use beginning word-processing techniques while creating and editing business documents. Create tables,

columns, envelopes, and mailing labels. Work with special features to track and review changes and compare documents.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2013	3 Cr	12:00PM-12:50PM	MW	01/02/19-03/20/19	11 112	Ruby, Michael	HYBRID

### **CAS 130 EXCEL I**

Create and analyze professionally formatted spreadsheets. Enter data, formulas, and functions. Create charts and insert graphics. Sort and filter lists. Prerequisite(s): MAT 092 skills preferred.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2023	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Bonner, Lapri	ONLINE

### **CAS 141 POWERPOINT**

Create professionally formatted presentations that include animation and transitions. Insert and format charts, graphics, diagrams and pictures. Save presentations for various delivery options.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2033	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Pastori, Fran	ONLINE

### **CAS 145 PUBLISHER**

Explore desktop publishing in this project-based class. Create and edit flyers, newsletters, brochures, logos, calendars, and various business publications. Use mail merge to create letters and labels. Use tools to edit text, colors, graphic-design objects, and logos. Prepare files for commercial printing.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2043	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Carey, Jessi	ONLINE

### **CAS 151 ACCESS I**

Develop basic relational databases as you create, edit, format, and print tables, queries, forms, and reports. Copy records and import tables from another Access database. Define field properties and create relationships. Run, sort, and filter queries. Use comparison and logical operators, and perform calculations. Explore the basics of creating a cohesive database.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2053	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Cooke, Suzann	ONLINE

## **COMPUTER PROGRAMMING**

### **CPW 142 JAVA OBJECT-ORIENTED PROGRAMMING I**

Construct a foundation of procedural programming concepts and skills requisite for professional object-oriented software development. Use Java, a modern-structured, object-oriented language, to develop your problem-solving and algorithm formulation skills. Prerequisite(s): Successful completion of CPW 101 and MAT 094.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5403	5 Cr	9:00AM-12:00PM	TTh	01/03/19-03/21/19	11 111W	Meerdink, Ken	ENHANCED

### **CPW 205 OBJECT-ORIENTED ANALYSIS & DESIGN**

Explore methodologies and technologies used in analyzing, designing, and developing object-oriented software systems intended to solve real-world problems. Build on the Systems Development Life Cycle model initially presented in the CPW 101 course to model and design systems using tools such as CRC cards and the Unified Modeling Language, which includes class, use case, and sequence diagrams. Discuss the theoretical and practical aspects of object orientation. Prerequisite(s): Successful completion of CPW 245.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5423	5 Cr	1:00PM-4:00PM	MW	01/02/19-03/20/19	11 111W	Meerdink, Ken	ENHANCED

### **CPW 210    ADVANCED DATABASE PROGRAMMING**

Advanced database programming using a commercial relational database management system. Perform object creation, manipulation, and control using SQL. Write simple and complex queries to solve problems. Create advanced objects like stored procedures and triggers. Explore non-relational systems and business intelligence. Prerequisite(s): Successful completion of CPW 101, CPW 150.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5453	5 Cr	1:00PM-4:00PM	TTh	01/03/19-03/21/19	11 111E	Ortiz, Joseph	HYBRID

### **CPW 212    ADVANCED .NET PROGRAMMING**

Learn advanced .NET programming ' writing classes, working with indexers, overloading operators, and other advanced object-oriented concepts. Work with databases using ADO.NET, databinding, and object-relational mappers. Learn techniques for working non-relational data storage. Prerequisite(s): Successful completion of CPW 116.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5463	5 Cr	1:00PM-4:00PM	MW	01/02/19-03/20/19	11 111E	Ortiz, Joseph	HYBRID

### **CPW 213    .NET WEB PROGRAMMING**

Earn professional experience in analyzing, designing, and developing dynamic, data-driven, commercial web applications using Microsoft ASP.NET. Gain a solid foundation in web development covering topics from state management, security, using various data stores, working with forms, and more. Prerequisite(s): Successful completion of CPW 116 and CPW 203. Prerequisite or Co-requisite: CPW 212.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5473	5 Cr	9:00AM-12:00PM	TTh	01/03/19-03/21/19	11 111E	Ortiz, Joseph	HYBRID

### **CPW 217    PORTFOLIO**

Build a portfolio website showcasing skills developed in the Computer Programming and Web Development program. Create a fully functional website from start to finish. Analyze and derive requirements by creating a project proposal or by working with an actual client. Larger projects will utilize source control and emphasize team work. Prerequisite(s): Successful completion of CPW 215.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5483	5 Cr	9:00AM-12:00PM	F	01/04/19-03/15/19	11 111E	Ortiz, Joseph	HYBRID

### **CPW 218    C++**

Deals with learning programming using C++ as the primary language, with a focus on problem-solving and introduction to object-oriented concepts and terms. Prerequisite(s): Successful completion of CPW 245.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5433	5 Cr	1:00PM-4:00PM	TTh	01/03/19-03/21/19	11 111W	Meerdink, Ken	HYBRID

### **CPW 223 INTRODUCTION TO JAVASCRIPT**

Introduces the fundamentals of working with JavaScript. Applies variables, objects, arrays, strings, conditional statements, and external data to create dynamic, interactive web pages.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5443	5 Cr	9:00AM-12:00PM	MW	01/02/19-03/20/19	11 111E	Ortiz, Joseph	HYBRID

### **CPW 245 DATA & LOGIC STRUCTURES**

Expand your understanding of object-oriented programming techniques by implementing abstract data types as data structures in solving complex computing problems. Study the fundamental algorithms of computer science while using mathematical principles to analyze the efficiency of their implementation. Prerequisite(s): Successful completion of CPW 143.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5413	5 Cr	9:00AM-12:00PM	MW	01/02/19-03/20/19	11 111W	Meerdink, Ken	ENHANCED

## **COMPUTER NETWORKING AND INFORMATION SYSTEMS SECURITY (CNISS)**

### **NSS 101 IT ESSENTIALS I**

Introduces students to the knowledge and skills necessary to competently install, build, configure, upgrade, troubleshoot, and repair PC-compatible hardware, including troubleshooting basic networks and Internet connectivity. Additionally, this course will cover the latest memory, bus, peripherals, and wireless technologies.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4703	5 Cr	8:00AM-3:00PM	MWF	01/02/19-02/13/19	16 107	Morris, Cath	ENHANCED

### **NSS 105 IT ESSENTIALS II**

Introduces students to the knowledge and skills necessary to competently use, install, configure, upgrade, and troubleshoot current operating systems technologies. Prerequisite(s): Successful completion of NSS 101 or instructor permission.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4713	4 Cr	8:00AM-3:00PM	MWF	02/20/19-03/20/19	16 107	Morris, Cath	ENHANCED

### **NSS 109 CISCO NETWORKING I**

The first of four courses in the new Cisco NetAcad CCNA Routing and Switching curriculum, which teaches basics of Ethernet technologies, cabling LANS and WANS, network media, basics of TCP/IP and IP addressing, and routing fundamentals.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4723	Var	12:00PM-3:00PM	TTh	01/03/19-03/21/19	16 209	Souza, Donal	ENHANCED

### **NSS 120 MS DESKTOP SUPPORT I**

Introduces students to the knowledge, skills, and tasks necessary to troubleshoot basic problems computer users will face while running a desktop operating system.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4733	Var	8:00AM-3:00PM	MWF	01/02/19-02/01/19	16 207	Lanphier, Jay	ENHANCED

### **NSS 125 MS DESKTOP SUPPORT II**

Introduces students to the knowledge, skills, and tasks necessary to troubleshoot basic problems computer users will face related to configuring and maintaining applications running on a desktop operating system. Co-requisites: Concurrently enrolled in NSS 120 or instructor permission.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4743	Var	8:00AM-3:00PM	MWF	02/04/19-03/20/19	16 207	Lanphier, Jay	ENHANCED

### **NSS 127 SCRIPTING FOR NETWORK ADMINS**

This introductory scripting course is designed to provide students with the fundamental knowledge and skills to use scripting to automate administrative tasks commonly used by system administrators.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4753	Var	12:00PM-2:00PM	TTh	01/03/19-03/21/19	16 107	Morris, Cath	ENHANCED

### **NSS 135 IMPLEMENTING SYSTEM SECURITY**

Capstone course of general security concepts, communications security, infrastructure security, basics of cryptography, and organizational security. Includes access, attacks, auditing, vulnerabilities, devices, algorithms, protocols, disaster recover, and documentation.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4763	4 Cr	12:00PM-3:00PM	TTh	01/03/19-03/21/19	16 111	Hollowell, Ke	ENHANCED

### **NSS 139 SERVER OS INSTALLATION AND CONFIGURATION**

Introduces knowledge, skills, and tasks necessary to deploy, support, and secure windows server network operating systems in a variety of stand-alone and enterprise network environments. Provides hands-on training for Information Systems Security professionals responsible for managing accounts and resources, maintaining server resources, monitoring server performance, safeguarding data, and securing server network operating systems. Provides guidance for students pursuing industry certification.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4773	4 Cr	8:00AM-11:00AM	TTh	01/03/19-03/21/19	16 109	Souza, Donal	ENHANCED

### **NSS 141 DIGITAL FORENSICS**

Introduces the use of software to perform recovery of deleted or corrupted data. Techniques will be used to demonstrate the use of statistical analysis practices to predict or show trends involving security issues of access, crime, or loss prevention.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4783	5 Cr	8:00AM-11:00AM	TTh	01/03/19-03/21/19	16 207	Lanphier, Jay	ENHANCED

### **NSS 145 SERVER SECURITY**

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4793	4 Cr	12:00PM-3:00PM	TTh	01/03/19-03/21/19	16 207	Lanphier, Jay	ENHANCED

### **NSS 156 CYBER SECURITY FUNDAMENTALS**

This course introduces students to the evolving field of cybersecurity. Students will learn about common cyber-attacks and the techniques used to identify, detect, and defend against cybersecurity threats. They will also gain a basic understanding of personal, physical, network, Internet, and enterprise security. This course also provides a foundation for more advanced study of cybersecurity.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47A3	4 Cr	8:00AM-11:00AM	TTh	01/03/19-03/21/19	16 107	Morris, Cath	ENHANCED

### **NSS 160 INTRODUCTION TO LINUX**

Introduces the fundamentals of the Unix/Linux operating system, concepts, architecture, and administration. Students will practice these basic concepts and approaches using LINUX.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47B3	5 Cr	12:00PM-3:00PM	MWF	01/02/19-03/20/19	16 111	Hollowell, Ke	ENHANCED

### **NSS 161 ADMINISTERING WINDOWS SERVER OS**

Introduces knowledge and skills necessary for systems administrators to successfully implement core services in windows server operating systems. Provides extensive hands-on training for Information Systems Security professionals responsible for installing and maintaining a variety of network services. Including DHCP, DNS, IP addressing, and Virtual Private Networks. Prerequisite(s): NSS 139 or equivalent experience

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47C3	4 Cr	8:00AM-11:00AM	MWF	01/02/19-03/20/19	16 109	Souza, Donal	ENHANCED

### **NSS 164 VIRTUALIZATION AND CLOUD TECHNOLOGIES**

Introduces virtualization and cloud technologies needed to advance in today's technology workplace. Provides an overview of virtualization and cloud technologies focusing on using virtualization software in networked environments in building virtual networks, implementing clusters, enhancing performance and security, and using virtualization and cloud management tools to centralize management of multiple virtual servers. This class includes opportunities for hands-on learning experiences to build the skills necessary for a successful career in the computer industry, which is increasingly focused on virtualization. Prerequisite(s): Successful completion of CompTIA's A+ and Network+ certifications or equivalent training.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47D3	4 Cr	8:00AM-10:30AM	TTh	01/03/19-03/21/19	16 111	Hollowell, Ke	ENHANCED

### **NSS 180 INTERNSHIP I**

On-the-job practical field experience combining classroom study with related work experience under the supervision of an employer. Includes scheduled seminars. Prerequisite(s): Instructor permission.

Additional Fee: 23.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47F3	2 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	16 112	Randall Jody	ENHANCED

### **NSS 201      ADVANCED LINUX**

Advanced fundamentals of the Linux operating system, servers, and desktop computers. This course is a hands-on, practical approach to the advanced abilities and usage of Linux system concepts, architecture, and administration. Prerequisite(s): Successful completion of NSS 160 or basic understanding of the Linux Operating System.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47G3	5 Cr	8:00AM-11:00AM	MWF	01/02/19-03/20/19	16 111	Hollowell, Ke	ENHANCED

### **NSS 206      ADVANCED WINDOWS SERVER CONFIGURATION**

Introduces the knowledge and skills necessary for systems administrators to successfully implement advanced services in Windows server operating systems. Provides extensive hands-on exercises where students learn to configure and manage a wide range of services, including network load balancing, clustering, DHCP, DNS, and direct access. Provides guidance for students pursuing industry certification. Prerequisite(s): Successful completion of NSS 162 Administering Windows Server OS or instructor permission.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47H3	5 Cr	12:00PM-3:00PM	MWF	01/02/19-03/20/19	16 109	Souza, Donal	ENHANCED

### **NSS 250      INTERNSHIP II**

This course provides practical field experience in a security-related specialty area. Includes scheduled seminar. Prerequisite(s): Instructor's Permission.

Additional Fee: 23.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47J3	2 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	16 112	Randall Jody	ENHANCED

### **NSSB 203      PENETRATION TESTING SECURITY AND ANALYSIS**

Introduces the history of hacking, its various forms, and examples of the latest attacks, tools, and techniques employed by today's hackers. Includes countermeasures that help illustrate how to protect against these devastating maneuvers. Prerequisite(s): Successful completion of NSS 135.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47K3	5 Cr	8:00AM-11:00AM	MTWTh	01/02/19-02/06/19	16 112	Randall Jody	

### **NSSB 210      NSSB SECURITY LEARNING LAB I**

Provides opportunities for students to gain the knowledge, enhance their skills, and provide hands-on experience needed or required within the industry to be successful in the security field. Co-requisites: Concurrently enrolled in NSSB 203 and NSSB 232.

Additional Fee: 66.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47L3	3 Cr	8:00AM-11:00AM	F	01/04/19-03/15/19	16 112	Randall Jody	

### **NSSB 215 COMPUTER FORENSICS**

Basic practices and techniques used in computer forensics. This course introduces the chain of custody and determination of the sequence of events when a misuse or crime is suspected. Topics include: evidence collection and analysis, interpretation of clues from mail messages, news posting, and file signatures on hard drives and other computer storage media. Prerequisites: NSS 140.

Additional Fee: 71.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47M3	4 Cr	12:00PM-3:00PM	MTWTh	01/02/19-02/14/19	16 112	Randall Jody	

### **NSSB 220 SECURITY LAB II**

Provides opportunities for students to gain the knowledge, enhance their skills, and provide hands-on experience needed or required within the industry to be successful in the security field. Co-requisites: Concurrently enrolled in NSSB 215 and NSSB 246.

Additional Fee: 66.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47N3	3 Cr	12:00PM-3:00PM	F	01/04/19-03/15/19	16 112	Randall Jody	

### **NSSB 232 INVESTIGATION & RESPONSE**

Analyze the risks involved and determine what level of security is needed to operate a website. Topics include how to protect a web setup from intrusion, sabotage, eavesdropping, and tampering, and view the website with existing tools and techniques of hackers. Develop a secure website plan to select, secure, configure, and set up firewalls, as well as secure an extended and distributed enterprise network or Virtual Private Network.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47P3	5 Cr	8:00AM-11:00AM	MTWTh	02/07/19-03/21/19	16 112	Randall Jody	

### **NSSB 246 SCRIPTING FOR PENETRATION TESTERS**

Introduces scripting languages used for one-off programming jobs or prototyping and their use for large generic applications as a flexible way to configure and secure generic software components to fit specialist requirements. This class will illustrate some practical applications of scripting and provide an introduction to some of the most widely used scripting languages.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47Q3	5 Cr	12:00PM-3:00PM	MTWTh	02/07/19-03/21/19	16 112	Randall Jody	

### **NSSC 201 CISCO NETWORKING II**

The second of four courses in the new Cisco NetAcad CCNA Routing and Switching curriculum. Includes the basics of configuring routers, routing protocols, TCP/IP concepts, access control lists, and network troubleshooting skills. Prerequisite(s): Successful completion of NSS 109.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47W3	5 Cr	8:00AM-11:00AM	MWF	01/02/19-02/08/19	16 209	Turner, Jeffr	HYBRID

### **NSSC 203 CISCO NETWORKING III**

The third of four courses in the new Cisco NetAcad CCNA Routing and Switching curriculum. Includes VLSM, basics of OSPF and EIGRP, switch concepts and configuration, Spanning Tree Protocols, VLANs, and VTP. Prerequisite(s): Successful completion of NSSC 201.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47R3	5 Cr	8:00AM-11:00AM	MWF	02/11/19-03/20/19	16 209	Turner, Jeffr	ENHANCED

### **NSSC 205 CISCO NETWORKING IV**

The last of four courses in the new Cisco NetAcad CCNA Routing and Switching curriculum. Includes IPSEC, VPN, Frame Relay, PPP, NAT, PAT, DHCP, and WAN technologies. Prerequisite(s): Successful completion of NSSC 203.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47T3	5 Cr	8:00AM-11:00AM	TThF	01/03/19-02/08/19	16 209	Turner, Jeffr	ENHANCED

### **NSSC 207 CISCO LEARNING LAB I**

Provides opportunities for students to gain the knowledge, skills, and hands-on experience needed to prepare for the Cisco CCENT certification exam. Co-requisites: Concurrently enrolled in NSSC 201 (Cisco Networking II) & NSSC 203 (Cisco Networking III).

Additional Fee: 66.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47S3	3 Cr	12:00PM-3:00PM	MWF	01/02/19-03/20/19	16 209	Turner, Jeffr	

### **NSSC 208 MANAGING NETWORK SECURITY**

Introduces knowledge and skills needed to install, configure, operate, manage, and verify network security products and security features. The course focuses on implementing IP network security. Prerequisite(s): Successful completion of NSSC 205 or current CCENT certification.

Additional Fee: 76.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47U3	5 Cr	8:00AM-11:00AM	TThF	02/12/19-03/21/19	16 209	Turner, Jeffr	ENHANCED

### **NSSC 210 CISCO LEARNING LAB II**

Provides opportunities for students to gain the knowledge, skills, and hands-on experience needed to prepare for the Cisco CCNA certification exam. Co-requisites: Concurrently enrolled in NSSC 205 (Cisco Networking IV) & NSSC 208 (Managing Network Security).

Additional Fee: 66.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
47V3	3 Cr	12:00PM-3:00PM	MWF	01/02/19-03/20/19	16 209	Turner, Jeffr	

## **CONSTRUCTION**

### **CONST 112 FOOTINGS & FOUNDATIONS**

Introduction to the methods of construction footing and foundation forms, terminology and inspections for the typical residential home. ""

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2283	3 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 116 FLOOR FRAMING**

Introduction to the construction procedures and terminology used in framing a residential wood floor. ""

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2213	3 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 120 WALL FRAMING, SHEETING & CEILINGS**

Introduction to wall framing construction procedures and terminology, the application of ceiling and/or two-story framing, inspections, sheeting, and aligning. ""

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2223	5 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 122 ROOF FRAMING**

Introduction to roof framing and the use of a framing square, including both truss roof and stick- built residential roofs. "" Introduction to various roofing materials, including proper installation techniques.

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2233	5 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 126 ROOFING MATERIALS & INSTALLATION**

Introduction to various roofing materials, including proper installation techniques. ""

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2243	3 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 142 INTERIOR FINISH II**

Continuation of interior wall and ceiling finish, interior doors and hardware, cabinet and counter top installation, interior trim, and finish flooring.

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2203	3 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 144 ELECTRICAL & PLUMBING BASICS**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2253	4 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 152 LEED**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2263	2 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 155 DECKING**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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2273 2 Cr 8:00AM-2:30PM DAILY 01/02/19-03/21/19 05 100 Quinlan, Jame

### **CONST 158 ENERGY AUDITOR**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2293	5 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **CONST 160 HOME INSPECTOR**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
22A3	4 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

## **CONSTRUCTION - SUSTAINABLE BUILDING SCIENCE**

### **SBS 121 SURVEY OF ENERGY RATINGS**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
22B3	3 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **SBS 130 ALTERNATIVE ENERGY SYSTEMS**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
22C3	5 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

### **SBS 142 BUILDING ENVELOPE**

Additional Fee: 32.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
22D3	4 Cr	8:00AM-2:30PM	DAILY	01/02/19-03/21/19	05 100	Quinlan, Jame	

## **CORE ALLIED HEALTH**

### **CAH 102 MEDICAL TERMINOLOGY**

Provides students with the basic techniques of medical word building using basic word elements. The class will be organized according to specific body systems and will include key terms and the introduction of anatomical, physiological, and pathological terms.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3003	5 Cr	8:00AM-8:50AM	DAILY	01/02/19-03/21/19	21 109	Freyre, Marie	HYBRID

3013	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Freyre, Marie	ONLINE
3023	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Scott, Patric	ONLINE
3033	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Freyre, Marie	ONLINE

## CAH 105 COMPUTER APPLICATIONS

Introduction course to the use of Microsoft office and related online programs. Students will become familiar with online tools and learn team based projects while developing a proficiency in the use of technology. 'This course is recommended for students with previous computer knowledge and ability.'

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3043	5 Cr	10:00AM-10:50AM	MWTh	01/02/19-03/21/19	21 106	Mandley, L	HYBRID
3053	5 Cr	11:00AM-11:50AM	MWTh	01/02/19-03/21/19	21 106	Mandley, L	HYBRID
3063	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Mandley, L	ONLINE
3073	5 Cr	2:30PM-5:00PM	MW	01/02/19-03/21/19	21 106	Mandley, L	HYBRID

# COSMETOLOGY

## COSMO 112 INFECTION CONTROL PRINCIPLES AND PRACTICES

Acquire knowledge for successful and responsible infection control, first aid, and safety. Learn and apply concepts of microbiology for safe handling of tools, proper dispensing of chemicals, and prevention of the spread of bacteria in a school or salon as required by state board regulations. Obtain Barbicide certification. Pre-req: Instructor permission required.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5303	Var	7:30AM-3:00PM	TWThF	01/02/19-01/04/19	08 207	Mcmahill, Mel	HYBRID

## COSMO 116 GENERAL SCIENCE OF HAIR

Learn why professional hair services must be based on an understanding of the growth, structure, and composition of hair. Gain skills in evaluating various hair and scalp conditions. Understand the purpose for draping and scalp massage as a foundation for attentive client care services. Pre-req: Instructor permission required.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5313	Var	7:30AM-3:00PM	TWThF	01/08/19-01/17/19	08 207	Mcmahill, Mel	HYBRID

## COSMO 123 COSMETOLOGY FUNDAMENTALS

Study design and art principles to assist in achieving customized designs for the client. Gain skills in the art of consultation while developing professional behaviors for salon success and effective communication. Pre-req: Instructor permission required.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5323	Var	7:30AM-3:00PM	TWThF	01/18/19-01/24/19	08 207	Mcmahill, Mel	HYBRID

## COSMO 136 APPLICATIONS OF HAIRCUTTING AND HAIRSTYLING

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5333	Var	7:30AM-3:00PM	TWThF	01/25/19-03/21/19	08 207	McMahon, Mel	HYBRID

### **COSMO 142 ADVANCED APPLICATIONS OF HAIRCUTTING & HAIRSTYLING**

This course presents techniques and procedures for fundamental clipper cutting, which build on the theory and previous experiences of haircutting and enables students to be current in haircutting trends. Wet Styling introduces finger waving, pin curling, and roller placements, along with long hair designs. Infection control principles and practices are reinforced. Prerequisite(s): Successful completion of COSMO 136.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5343	4 Cr	7:30AM-3:00PM	ThF	01/03/19-02/01/19	08 208	Chiaro, Loree	HYBRID

### **COSMO 146 CHEMICAL TEXTURE SERVICE**

Presentation of the three main concepts of chemical texturizing commonly known as permanent waving, relaxing with chemicals, and curl reforming and straightening. Brazilian blowout certification is achievable through this course. This course covers the theory of chemical texturizing and the tools used to achieve desired effects, infection control principles and practices, and client consultation. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53A3	5 Cr	7:30AM-3:00PM	TWThF	01/08/19-01/30/19	08 205	Frederick, Sa	HYBRID

### **COSMO 158 GENERAL SCIENCE OF HAIR COLORING**

Introduction to the creative artistry of color through the study of color theory, the use of the color wheel, and basic color applications and techniques. Formulating color will also be presented. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5353	7 Cr	7:30AM-3:00PM	ThF	02/07/19-03/21/19	08 208	Chiaro, Loree	HYBRID

### **COSMO 163 LAB CLINIC II**

Experience hands-on learning in a realistic salon setting. Fundamental and developing skills are reinforced and expanded as students provide consultation, haircutting, hairstyling, conditioning treatments, and hair coloring services on clients/models. Prerequisite(s): Successful completion of COSMO 142, COSMO 164 and COSMO 158, or instructor approval.

Additional Fee: 98.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5373	9 Cr	7:30AM-3:00PM	TWThF	02/05/19-03/21/19	08 CL#1	Maguire, Patr	

### **COSMO 164 LAB CLINIC I**

Expand hands-on learning in a realistic salon setting. Fundamental and developing skills are reinforced and expanded as students provide consultation, haircutting, hairstyling, and conditioning treatments on clients/models. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.

Additional Fee: 98.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5363	8 Cr	7:30AM-3:00PM	TW	01/08/19-03/13/19	08 CL#3	Chiaro, Loree	HYBRID

### **COSMO 172 LAB CLINIC III**

Continue to gain hands-on learning in a realistic salon setting. Fundamental and developing skills are reinforced and expanded as students provide consultation, haircutting, hairstyling, conditioning, hair coloring, and chemical texturizing services on clients/models. Prerequisite(s): Successful completion of COSMO 163, COSMO 181, COSMO 226, or instructor approval.

Additional Fee: 98.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53B3	10 Cr	7:30AM-3:00PM	TWThF	01/31/19-03/21/19	08 CL#2	Frederick, Sa	

### **COSMO 175 COSMETOLOGY SALON BUSINESS PRACTICES**

Introduces the professional mindset and skills required to develop strategies for success. Learn the basic factors of salon business practices, such as business plans for salon owner/boot renter, importance of recordkeeping, retailing, creating a referral system, and building and retaining a clientele. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 158, COSMO 163, COSMO 164, COSMO 181, and COSMO 226, or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53C3	3 Cr	7:30AM-3:00PM	TWThF	01/02/19-01/04/19	08 205	Frederick, Sa	HYBRID

### **COSMO 181 ARTIFICIAL HAIR**

An informative overview of artificial hair principles. Prerequisite(s): Successful completion of COSMO 172 or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5383	2 Cr	7:30AM-3:00PM	TWThF	01/02/19-01/04/19	02 101	Maguire, Patr	HYBRID

### **COSMO 183 GENERAL STUDY OF NAILS**

Learn to work with the tools required for nail services and practice fundamental techniques for providing clients with a professional manicure and pedicure on natural nails. Topics include basic nail theory, nail disease, disorders, and anatomy of the hands. Practice skills in safety and sanitation associated with nail care. Students will engage in 100 hours of natural nail training, as well as preparation for the Washington Department of Licensing State Board Cosmetology written and practical exams.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53P3	7 Cr	9:30AM-12:00PM	TW	01/04/19-03/20/19	02 101	Campbell, Ehr	

### **COSMO 189 GENERAL SCIENCE OF SKIN**

An introduction to esthetic sciences. Presents structure and growth, disorders and diseases, application and removal of temporary hair, facial massage, and cosmetics. Students will comply with all infection control principles and practices. Students will engage in 100 hours of skin care training, as well as preparation for the Washington Department of Licensing State Board Cosmetology written and practical examinations. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 158, and COSMO 164, or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53Q3	7 Cr	12:00PM-3:00PM	TWF	01/03/19-03/20/19	02 101	Campbell, Ehr	

### **COSMO 226 ADVANCED HAIR COLORING**

Reinforces skills and techniques of hair coloring applications and presents advanced patterns creating special effects for current trends and fashion. Develops skill in the special challenges of hair color and

corrective solutions. Prerequisite(s): Successful completion of COSMO 158 and COSMO 172, or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5393	8 Cr	7:30AM-3:00PM	TWThF	01/08/19-02/01/19	02 101	Maguire, Patr	HYBRID

### **COSMO 228 CLOVER PARK PRACTICAL PREPARATION**

Prepares the student to take the Washington State practical skills exam. Topics of safety and sanitation, hair design, hair sculpting, chemical texturizing, hair coloring, skin care, and nail care will be reviewed.

Prerequisite: Successful completion of COSMO 170. ""

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5203	3 Cr	8:30AM-4:00PM	MTWTh	01/02/19-03/21/19	WCC128	Frink, Barb	

### **COSMO 229 CLOVER PARK PRACTICAL PREPARATION**

Prepares students to sit for the Washington State Cosmetology or Hair Designer Practical Board examination. Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 146, COSMO 158, COSMO 163, COSMO 164, COSMO 172, COSMO 175, COSMO 181, and COSMO 226, or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53D3	4 Cr	7:30AM-3:00PM	TWThF	01/02/19-01/15/19	08 CL#4	Lind, Connie	HYBRID

### **COSMO 230 LAB CLINIC IV**

Hands-on learning experience in Clover Park Technical College's student clinic. The learner will continue skills applied in Lab Clinic 1, 2, and 3, in addition to artificial hair services, advanced hair sculpture and advanced chemical texturizing techniques. Prerequisite: Successful completion of COSMO 170. ""

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5213	9 Cr	8:30AM-4:00PM	MTWTh	01/02/19-03/21/19	WCC128	Frink, Barb	

### **COSMO 231 LAB CLINIC IV**

Continue to gain hands-on learning experience in a realistic salon setting. Fundamental and developing skills are reinforced and expanded as students provide consultation, haircutting, hairstyling, conditioning, hair coloring, and chemical texturizing services on clients/models. Demonstrate skills with minimal supervision. Prerequisite(s): Successful completion of COSMO 172 or instructor approval.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53F3	10 Cr	7:30AM-3:00PM	WThF	01/23/19-03/13/18	08 CL#4	Lind, Connie	

### **COSMO 235 STATE BOARD WRITTEN TEST REVIEW**

Prepares the student to take the written component of the Washington State skills exam. Industry vocabulary, practices, and procedures will be reviewed in the areas of trichology, salon ecology, hair design, hair sculpting, chemical texturizing and hair coloring, skin, and nail care. Prerequisite: Successful completion of COSMO 228.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5223	4 Cr	8:30AM-4:00PM	MTWTh	01/02/19-03/21/19	WCC128	Frink, Barb	

### **COSMO 236 STATE BOARD WRITTEN TEST REVIEW**

Prepares students for Washington State Cosmetology or Hair Designer Written Board Examinations. Prerequisite(s): Successful completion of COSMO 172 or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53G3	3 Cr	7:30AM-3:00PM	TWThF	01/16/19-01/22/19	08 205	Lind, Connie	HYBRID

### **COSMO 242 CPTC PRACTICAL BOARDS**

Reviews basic, intermediate, and advanced technical skills taught in quarters 1 through 5 in Clover Park Technical College's Cosmetology Program. Students demonstrate skill, proficiency, and knowledge retention prior to completion of the program. Prerequisite: Successful completion of COSMO 235.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5233	6 Cr	8:30AM-4:00PM	MTWTh	01/02/19-03/21/19	WCC128	Frink, Barb	

### **COSMO 244 COSMETOLOGY CAPSTONE**

Arrange a portfolio that demonstrates a culmination of all skills, concepts, and achievements that summarize the Cosmetology or Hair Designer program under the discretion of the instructor.

Prerequisite(s): Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 146, COSMO 158, COSMO 163, COSMO 164, COSMO 172, COSMO 175, COSMO 181, and COSMO 226, or instructor approval.

Additional Fee: 84.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53H3	3 Cr	7:30AM-3:00PM	TWThF	03/14/19-03/21/19	08 CL#4	Lind, Connie	HYBRID

### **COSMO 248 INDUSTRY INTERNSHIP I**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 33-hour course for students desiring an internship experience or who need additional hours to meet the state licensing requirements. Prerequisite: Successful completion of 'COSMO 230. "

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53J3	1 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Lind, Connie	

### **COSMO 250 INDUSTRY INTERNSHIP II**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 66-hour course for students desiring an internship experience or who need additional hours to meet the state licensing requirements. Prerequisite: Successful completion of COSMO 230.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53K3	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Lind, Connie	

### **COSMO 252 INDUSTRY INTERNSHIP III**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 99-hour course for students desiring an internship experience or who need additional hours to meet the state licensing requirements. Prerequisite: Successful completion of COSMO 230. ""

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53L3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Lind, Connie	

### **COSMO 254 INDUSTRY INTERNSHIP IV**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 132-hour course for students desiring an internship experience or who need additional hours to meet the state licensing

requirements. Prerequisite: Successful completion of COSMO 230.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53M3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Lind, Connie	

### **COSMO 256 INDUSTRY INTERNSHIP V**

Provides on-the-job experience for students in the field of cosmetology. This is an optional 160-hour course for students desiring an internship experience or who need additional hours to meet the state licensing requirements. Prerequisite: Successful completion of COSMO 230.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
53N3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Lind, Connie	

## **CULINARY ARTS**

### **CUL 104 SANITATION IN FOOD SERVICE OPERATIONS**

Presents the principles of food microbiology, food borne illness and the standards that are enforced by regulatory agencies. Applied measures for the prevention of food borne illness and other microbiological factors are incorporated. National Restaurant Association ServSafe Certification.

Instructor Permission required.

Additional Fee: 140.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3203	3 Cr	9:00AM-1:45PM	MT	01/07/19-02/11/19	31 100	Massey, Richa	ENHANCED

### **CUL 107 PROFESSIONAL COOKING I**

Provides students with a general understanding of the professional kitchen. Topics include kitchen safety; dishwasher procedures; how to handle food in a safe environment; selection of and caring for knives; understanding how a professional kitchen is organized; and the rationale, cleaning, and function of kitchen equipment. Students will learn to cut foods in a variety of shapes and to recognize and use a variety of herbs and spices.

Instructor Permission required.

Additional Fee: 175.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3213	7 Cr	7:00AM-9:00AM	DAILY	01/02/19-03/21/19	31 100	Massey, Richa	ENHANCED

### **CUL 109 COOKING METHODS I**

Introduces students to the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. Students will learn dishwashing and basic food preparation, how to read and follow standardized recipes, deli operations, and station organization.

Instructor Permission required.

Additional Fee: 140.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3223	7 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	31 100	Massey, Richa	

### **CUL 111 FOOD PREPARATION I**

Practice and apply the skills of a restaurant cook. Students will learn the importance of organizing and planning their work stations, as well as preparing items needed prior to actual cooking. Topics include fruit and vegetable varieties, uses, and preparation.

Instructor Permission required.

Additional Fee: 155.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3233	3 Cr	9:00AM-2:00PM	MT	02/12/19-03/19/19	31 100	Massey, Richa	ENHANCED

### **CUL 123 COOKING METHODS II**

Introduces the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. They will be expected to practice a high level of previously learned competencies in knife skills, sanitation, proper handling and storage of product, and working under stringent time guidelines. Prerequisite(s): Successful completion of CUL 109.

Instructor Permission required.

Additional Fee: 140.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3243	7 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	31 100	Massey, Richa	

### **CUL 139 COOKING METHODS III**

Introduces students to the experience of preparing and cooking meals for restaurant service. Students will be given assignments and will rotate through restaurant stations throughout the quarter. Students will be expected to practice a high level of previously learned competencies in knife skills, sanitation, proper handling and storage of product, and working under stringent time guidelines. Prerequisite(s): Successful completion of CUL 123.

Instructor Permission required.

Additional Fee: 140.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3253	7 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	31 100	Massey, Richa	

## **DENTAL ASSISTANT**

### **DAS 120 DENTAL SCIENCES II**

Explores the general characteristics and uses of dental materials and covers oral pathology conditions in the oral cavity. This course is also designed to provide the necessary information to accurately identify each of the body's systems and functions and how they interact with each other. Students will explore the structures of the head and oral cavity. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, and 118 prior to continuing in the Dental Assistant Program.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7703	5 Cr	12:00PM-1:00PM	T	01/08/19-03/19/19	21 109	Wirth, R	HYBRID

### **DAS 125 DENTAL ASSISTING SKILLS II**

Introduces students to advanced study model principles, coronal polish and fluoride treatments, and advanced moisture control, including the application of rubber dams, intermediate charting, and dental

instruments and hand pieces. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, and 118 prior to continuing in the Dental Assisting Program.

Additional Fee: 29.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7713	6 Cr	12:00PM-1:00PM	M	01/07/19-01/28/19	21 109	Wirth, R	HYBRID

### **DAS 130 DENTAL SPECIALITIES I**

Explores in depth the dental specialties of endodontics, orthodontics, and periodontics. This course introduces students to periodontal charting. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, and 118 prior to continuing in the Dental Assistant Program.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7723	3 Cr	12:00PM-1:00PM	Th	01/10/19-03/14/19	21 109	Wirth, R	HYBRID

### **DAS 135 PRINCIPLES OF RADIOGRAPHY II**

Introduces students to intraoral and extraoral radiographic imaging, legal issues associated with radiography, and manual and automatic processing techniques. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, and 118 prior to continuing in the Dental Assistant Program.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7733	5 Cr	12:00PM-1:00PM	W	01/02/19-03/20/19	21 109	Wirth, R	HYBRID

### **DAS 140 CERTIFICATION REVIEW I**

Prepares students to take the Infection Control Exam through the Dental Assistant National Board. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, and 118 prior to continuing in the Dental Assistant Program.

Additional Fee: 274.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7743	1 Cr	ARRANGED	ARRANGED	01/02/19-03/20/19	ON LINE	Wirth, R	ONLINE

### **DAS 239 CLINICAL EXPERIENCE II**

Provides Dental Assistant students with the opportunity to use the advanced skills and information acquired in DAS 103-237. Students will spend 270 hours rotating through a minimum of two private offices or dental clinics. Prerequisite(s): Student must successfully complete DAS 103, 105, 110, 113, 116, 118, 120, 125, 130, 135, 140, 223, 224, 226, 228, and 237, Infection Control certification, all college-level general education courses, and the Radiation Health & Safety component prior to continuing in the Dental Assistant Program.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7753	10 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Precour, Hann	ENHANCED

### **DAS 241 ADVANCED THEORY**

Introduces students to dental business administration procedures. Prerequisite(s): Students must successfully complete DAS 103-237, their Infection Control certification and the Radiation Health & Safety component prior to continuing in the Dental Assistant Program.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7763	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Precour, Hann	ONLINE

### **DAS 243 CERTIFICATION REVIEW III**

Prepares students to take the final component of the Dental Assistant National Board exam, General Chairside. Upon successful completion of the exam and all Dental Assistant courses, students will receive their Certified Dental Assistant credentials and be eligible for graduation. Prerequisite(s): Students must successfully complete DAS 103, 105, 110, 113, 116, 118, 120, 125, 130, 135, 140, 223, 224, 226, 228, and 237, their Infection Control certification, and their Radiation Health & Safety component prior to continuing in the Dental Assistant Program.

Additional Fee: 274.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7773	1 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Precour, Hann	ONLINE

### **DBOA 103 DENTAL TERMINOLOGY & PROCEDURES**

Introduces information to correctly recognize and identify various occupations within the dental environment. Students will also learn terminology necessary to complete the other courses in the program. Students will learn to accurately identify the names and numbers of teeth in the primary and permanent dentition. Students will complete the Washington State Dental Association (WSDA) HIV/AIDS course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7783	4 Cr	ARRANGED	ARRANGED	01/02/19-03/20/19	ON LINE	Wirth, R	ONLINE

### **DBOA 111 DENTAL CHARTING, SCHEDULING & RECALL MANAGEMENT**

Explores dental charting symbols and treatment descriptions. Students will develop, decipher, and present a comprehensive treatment plan. Covers the necessary information to accurately develop a patient recall system and maintain productive and effective patient scheduling. Students will have training and 24-hour access to the Dentrix Dental Software to learn and practice dental charting, scheduling, and recall procedures. Prerequisite(s): DBOA 103 (or co-requisite).

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7793	Var	ARRANGED	ARRANGED	01/02/19-03/20/19	ON LINE	Wirth, R	ONLINE

### **DBOA 119 DENTAL DOCUMENTS AND INVENTORY SYSTEMS**

Explores a wide variety of dental office forms and the development of manual and computerized inventory filing systems. Organizational skills are the primary emphasis of this course. Prerequisite(s): DBOA 103

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
77A3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/20/19	ON LINE	Wirth, R	ONLINE

### **DBOA 135 DENTRIX ADVANCED TRAINING**

Provides expanded Dentrix software skills to students with basic Dentrix Dental Software training or experience. Students will have training and 24-hour access to the software. Students will demonstrate setting up practice defaults in the Office Manager module, manage electronic charting in the Dentrix Dental Software, pursue dental insurance claims processing and payment posting processes, and explore and generate management reports. Prerequisite: DBOA 111 or industry experience with the Dentrix Dental Software.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
77B3	2 Cr	ARRANGED	ARRANGED	01/02/19-03/20/19	ON LINE	Wirth, R	ONLINE

## **DIGITAL ENTERTAINMENT DESIGN AND PRODUCTION**

**DED 110 DIGITAL PHOTOGRAPHY I**

This introductory-level course familiarizes students with the basics of cameras, the new features of today's DSLRs, and the basic elements of taking a good photograph. Students will explore the work of great artists of the medium, learn the elements of composition, and begin working with light and shadow to create visually interesting images.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9033	Var	1:00PM-6:00PM	M	01/07/19-03/18/19	11 107	Felch, Chris	ENHANCED

**DED 112 DIGITAL ART II**

Focuses on Adobe Illustrator and learning to use the advanced tools within this professional vector editing software. Students will learn how to create high-quality illustrations, logos, graphs, diagrams, adverts, web sites, and web or print layouts for clients, while increasing their productivity and incorporating best practice into their workflow. Prerequisite(s): Successful completion of DED 106.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9063	Var	1:00PM-6:00PM	T	01/08/19-03/19/19	11 107	Geary, Shawn	ENHANCED

**DED 130 STORYBOARDING**

Teaches students how to break down a script into shots and create a visual storyboard that shows actor and camera movements while showing the type of camera angle and shot. Prerequisite(s): Successful completion of DED 104.

Additional Fee: 39.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9083	Var	1:00PM-5:00PM	W	01/02/19-03/20/19	11 142	Geary, Shawn	ENHANCED

**DED 135 MOTION GRAPHICS I**

Uses 2D and 3D compositing, animation, and visual effects tools to allow students to create innovative graphics and visual effects for film, video, broadcast, DVD, and the web. Using Adobe After Effects, students will learn the concepts of video, time-based animation, and special effects. They will explore program features that include key framing, editing, masking, type, 3D environment, and tools. Importing media from a wide variety of applications, including Adobe Photoshop and QuickTime files will also be covered.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9093	Var	1:00PM-6:00PM	Th	01/03/19-03/21/19	11 107	Felch, Chris	ENHANCED

**DED 140 DIGITAL VIDEO II**

Continues students' education from Digital Video I by extending their knowledge to more hands-on lessons of film production. This includes, but is not limited to, creating master shots and the use of common shot types. Prerequisite(s): Successful completion of DED 125.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9043	Var	1:00PM-6:00PM	M	01/07/19-03/18/19	11 142	Geary, Shawn	ENHANCED

**DED 147 ADVANCED DESIGN THEORY**

Exploring the high-level decisions made in the creation of various forms of digital entertainment. Introduces the concepts and practices associated with how written word is translated into visual language. Students

will explore how their chosen mediums reflect the world we live in and vice versa. During this course students will have the opportunity to learn the art and theory behind films and games, including how various design decisions are used to affect the audience.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9003	4 Cr	10:30AM-1:00PM	MT	01/07/19-03/18/19	11 107	Felch, Chris	ENHANCED

### **DED 152 MOTION GRAPHICS II**

Motion Graphics II will build on from the previous course, Motion Graphics I, working on more advanced features in Adobe After Effects. Students will be going more in-depth with the features such as particles, photo replacements, and integrating 3D models into scenes to create digital effects for scenes.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9053	Var	1:00PM-6:00PM	T	01/08/19-03/19/19	11 106	Felch, Chris	ENHANCED

### **DED 154 GAME DESIGN I**

Introduces the fundamentals of game design and development with a focus on rapid prototyping through pen and paper design. This course will also build a foundational knowledge of genre and basic elements of games and their interaction with each other.

Additional Fee: 39.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
90B3	Var	1:00PM-5:00PM	F	01/04/19-03/15/19	11 107	Felch, Chris	ENHANCED

### **DED 158 3D MODELING II**

Students will be taking their education in the 3D world another step further by learning to create textures for their 3D Models. If it's for an abstract style or going with the gritty detailed look. This class will discuss the importance of file size and formats for a variety of purposes they go into creating detailed textures. We will be creating a variety of texture maps like UV Mapping, diffused, opacity, bump, normal, specular, and reflection maps to really bring our models to life.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9073	Var	1:00PM-6:00PM	W	01/02/19-03/20/19	11 107	Felch, Chris	ENHANCED

### **DED 159 CAPSTONE/INTERNSHIP**

This course consists of either a major project representing the culmination of the student's learning in the program OR a full or part time position as an intern in either the public or private sector. The project must be approved by the instructor, show the breadth of skill acquired in the program, and requires the student to use the entire production cycle, including their preproduction paperwork. The students will also be required to keep an online journal of their project and report in at least once a week with updates on their progress. The internship a temporary position, where the student gains confidence and experience in a chosen area of employment. Students experience on-the-job opportunities as well as making a skilled contribution to the internship provider. Opportunities to find internships are provided, but the student is in charge of finding his or her own internship.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9023	4 Cr	10:30AM-1:00PM	F	01/04/19-03/15/19	11 142	Felch, Chris	ENHANCED

### **DED 172 SCENE DESIGN**

Scene Design covers the use of lighting, design, and symbolism to create environments that enhance the

story while providing optimum shooting potential.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
90A3	Var	1:00PM-6:00PM	Th	01/03/19-03/21/19	11 142	Geary, Shawn	ENHANCED

### **DED 175 DEVELOPMENT PROJECT**

An instructor led major project involving the full class. Each student will be given a role to fulfill in the project just as in a professional Film or Game production studio. Pre-requisite(s): Successful completion of DED 200, DED 112, DED 150.

Additional Fee: 44.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9013	4 Cr	10:30AM-1:00PM	WTh	01/02/19-03/20/19	11 107	Felch, Chris	ENHANCED

## **EARLY CARE AND EDUCATION**

### **ECE 120 INTERPERSONAL SKILLS FOR THE ECE PROFESSIONAL**

Covers human relations roles and workplace skills. Roles and information on balancing individual technical skills with human relations and competencies will be discussed.

Additional Fee: 6.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4123	2 Cr	5:30PM-8:30PM	Th	01/03/19-02/21/19	10 205	Chase-Deitri	

### **ECE 134 ISSUES AND TRENDS GREEN**

Research topics that cover some of the current sustainable practices and trends in the ECE field.

Additional Fee: 6.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41L3	2 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECE 135 SCHOOL AGE MATH, SCIENCE, AND TECHNOLOGY**

Explore the different aspects of the school age curriculum in science, math, and technology.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41M3	3 Cr	ARRANGED	ARRANGED	01/23/19-03/20/19	ON LINE	Kaasa, Meliss	ONLINE

### **ECE 190 PRACTICUM 4: GREEN**

Provides the student with the opportunity for practical field experience with a sustainable practices or 'green' specialization. Includes a seminar component.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4193	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECE 194 PRACTICUM 4: THE EMOTIONALLY INTELLIGENT CHILD**

Provides the student with the opportunity for practical field experience with an emotional intelligence specialization. Includes a seminar component.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41A3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECE 198 PRACTICUM 4: WORKING WITH FAMILIES**

Provides the student with the opportunity for practical field experience with a specialization in working with families. Includes a seminar component.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41B3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECE 219 PRACTICUM 4: RESPONSIVE CAREGIVING FOR INFANTS**

Explores responsive caregiving for infants and toddlers, including best practices, building trust, environments, creating lesson plans, theories of development, and collaborating with families.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41C3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECED& 100 BASIC CHILD CARE TRAINING (STARS)**

Designed to meet licensing requirements for early learning teachers and family home child care providers, the STARS 30-hour basics course is recognized in the MERIT system. Topics include child growth/development, cultural competency, community resources, guidance, health/safety/nutrition, and professional practice.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
410Z	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Felch, Linda	ONLINE
4103	3 Cr	9:30AM-12:30PM	Sa	01/05/19-03/16/19	10 111	Holland-Oher	HYBRID
4113	3 Cr	ARRANGED	ARRANGED	01/09/19-03/20/19	ON LINE	Felch, Linda	ONLINE

### **ECED& 120 PRACTICUM: NURTURING RELATIONSHIPS**

Students will apply theories of best practices in an early learning setting. Focus will be on developing supportive relationships while keeping children health and safe.

Additional Fee: 6.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41N3	2 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

### **ECED& 132 INFANTS AND TODDLERS - NURTURING CARE**

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

Additional Fee: 9.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4163	Var	6:00PM-10:00PM	Th	01/03/19-03/14/19	10 111	Lockhart, Sal	HYBRID

### **ECED& 139 ADMINISTRATION OF EARLY LEARNING PROGRAMS**

Develop administrative skills required to develop, open, operate, manage, and assess early childhood education and care programs. Explore techniques and resources available for Washington State licensing and National Association for the Education of Young Children (NAEYC) standard compliance.

Additional Fee: 9.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41P3	3 Cr	6:00PM-9:00PM	W	01/09/19-03/20/19	10 111	Johnson, Ange	HYBRID

**ECS 100B SPECIAL TOPICS - FALL**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1301	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1302	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1303	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1304	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1306	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1307	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Colombini, Li	
1308	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1309	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1310	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1311	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1312	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1313	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1315	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1316	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1317	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Lockhart, Sal	
1318	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Lockhart, Sal	
1319	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1321	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Lockhart, Sal	
1322	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Colombini, Li	
1323	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1328	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Colombini, Li	
1330	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1332	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1333	1 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1334	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1340	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1341	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1342	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1346	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Lockhart, Sal	
1354	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1355	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1356	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1360	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Edmondson, Re	
1362	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Holland-Oher	
1366	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1369	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1370	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Lockhart, Sal	
1375	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1376	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	
1377	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Felch, Linda	
1382	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	OFFCAMP	Chase-Deitri	



4173 2 Cr 6:00PM-9:00PM W 01/02/19-02/20/19 10 205 Edmondson, Re

**ECS 286 PRACTICUM IV - LEADERSHIP**

Provides the opportunity for a practical field experience with a leadership specialization. Includes a seminar component. Text required.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41G3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

**ECS 287 PRACTICUM IV - CHILD DEVELOPMENT**

Provides the opportunity for a practical field experience with a Child Development specialization. Includes a seminar component. Text required.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41H3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

**ECS 288 PRACTICUM IV - FAMILY CHILDCARE PROFESSIONAL**

Provides the opportunity for a practical field experience with a Family Childcare specialization. Includes a seminar component. Text required.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41J3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

**ECS 290 MENTORING IN ECE**

Fundamental skills needed for early childhood mentors who practice as trainers and coaches. Covers concepts of adult learning, communication, observation, feedback, and conflict resolution. Text required.

Additional Fee: 3.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41Q3	1 Cr	6:15PM-9:15PM	M	02/25/19-03/18/19	10 205	Colombini, Li	

**ECS 297 ECE PRACTICUM IV: SPECIAL NEEDS**

Provides the opportunity for a practical field experience with special needs specialization. Includes a seminar component.

Additional Fee: 23.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41K3	3 Cr	5:00PM-6:00PM	M	01/07/19-03/18/19	10 111	Colombini, Li	

**EDUC& 115 CHILD DEVELOPMENT**

Build a functional understanding of the foundation of child development, prenatal to early adolescence. Observe and document physical, social, emotional and cognitive development of children, reflective of cross-cultural and global perspectives.

Additional Fee: 15.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4143	Var	6:15PM-10:30PM	M	01/07/19-03/18/19	10 111	Felch, Linda	HYBRID

**EDUC& 130 GUIDING BEHAVIOR**

Examine the principles and theories promoting social competence in young children and creating safe

learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences.

Additional Fee: 9.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4153	Var	6:00PM-9:15PM	T	01/08/19-03/12/19	10 111	Colombini, Li	

### **EDUC& 134 FAMILY CHILD CARE MANAGEMENT**

Learn the basics of family home childcare program management. Topics include: licensing requirements; business management; relationship building; health, safety, and nutrition; guiding behavior; and promoting growth and development.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41R3	3 Cr	ARRANGED	ARRANGED	01/23/19-03/20/19	ON LINE	Havens, Amber	ONLINE

### **EDUC& 136 SCHOOL AGE CARE MANAGEMENT**

Students will develop skills to provide developmentally appropriate and culturally relevant activities and care, specifically: preparing the environment, implementing curriculum, building relationships, guiding academic/social skill development, and community outreach.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
41S3	3 Cr	ARRANGED	ARRANGED	01/23/19-03/20/19	ON LINE	Felch, Linda	ONLINE

## **ELECTRICIAN LOW VOLTAGE FIRE/SECURITY**

### **EFS 105 AC/DC: BASIC THEORY, FRACTIONS & OHMS LAW**

Introduces basic theory of electricity, electrical measurements of circuits, fractions, Ohm's law, decimals, and decimal fractions. Covers formulas in electrical work, positive and negative numbers, exponents, powers of 10, and solving Ohm's law.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5803	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 106 AC/DC ELECTRICITY: SERIES, PARALLEL & COMB CIRCU**

Introduces students to voltage, current, resistance, total values, and control of current in a series circuit. Introduction to parallel circuits, current and resistance, and voltage in a parallel circuit. Prerequisite(s): EFS 105, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5813	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 107 AC/DC: ELECTRICITY: ELECTRICAL POWER & POWER APP**

Introduces electric power in electric circuits, solving the power formula for current and voltage. Algebra for complex electric circuits. Resistance of wire of different sizes and length, sizing wire for a given load. Instantaneous values, maximum values and phase angles of an AC sine wave. Prerequisite(s): Successful completion of EFS 106, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5823	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 108 NATIONAL ELECTRICAL CODE PRINT READING**

Introduces students to practical print reading as it applies to the National Electrical Code. Prerequisite(s): Successful completion of EFS 105, EFS 106, and EFS 107, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5833	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 109 NATIONAL ALARM INSTALLER TRAINING PROGRAM**

Introduces students to basic alarm systems through comprehensive lessons, videos, and lesson tests. With final test, the student will have a thorough exposure to alarm systems. Prerequisite(s): Successful completion of EFS 105, EFS 106, and EFS 107, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5843	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 110 CCTV APPLICATION & DESIGN**

Introduces students to basics of CCTV systems design and applications. Prerequisite(s): Successful completion of EFS 105, EFS 106, and EFS 107, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5853	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 118 NATIONAL ELECTRICAL CODES**

Introduces National Electrical Codes. Through individual tests, students will be able to research applicable electrical codes. Prerequisite(s): Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5863	6 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 119 NATIONAL FIRE CODES**

Introduces the National Fire Codes. Through individual tests, students will be able to research applicable fire codes. Prerequisite(s): Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5873	6 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 121      CCTV FIELD SERVICE & INSTALLATION**

Introduces basic systems service and installation of CCTV systems. Through individual lessons, students will be exposed to the basics of CCTV field service and installation. Prerequisite(s): Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5883	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 124      WASHINGTON ADMINISTRATIVE CODES**

Introduces students to the Washington Administrative Codes pertaining to industrial safety and to electrical installations in the state of Washington. Prerequisite(s): Successful completion of EFS 108, EFS 109, and EFS 110, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5893	2 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 207      ADDRESSABLE FIRE SLC SYSTEMS/DESIGN**

Introduces Addressable and Intelligent Fire Alarm Systems using Signaling Line Circuits (SLC). Includes comprehensive lessons, lecture, and hands-on practical application and design. Prerequisite(s): Successful completion of the 78-credit hour Electrician Low Voltage Fire/Security Certificate, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58A3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 211      BIOMETRICS ACCESS**

Introduces Biometrics Access Control. Various Biometrics Systems are explored, as well as Computer Programmed Access-Control Systems. Includes comprehensive lessons and lecture, as well as hands-on practical application, installation, and design. Prerequisite(s): Successful completion of EFS 207 or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58B3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 216      ADVANCED VOICE EVACUATION FIRES SYSTEMS**

Introduces Advanced Voice Evacuation Fire Alarm Systems as used in high-rise applications. Includes comprehensive lessons, lecture, and hands-on practical application, installation, and design. Prerequisite(s): Successful completion of EFS 211 or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58C3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 221 FIRE CODES, NICET, NFPA**

Introduces Fire Codes, AHJ (Authority Having Jurisdiction), NICET (National Institute for Certification of Engineering Technologies), and NFPA (National Fire Protection Association). Includes comprehensive lessons, lecture, and hands-on practical application, installation, and design. Prerequisite(s): Successful completion of EFS 216 or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58D3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 226 HIGH SECURITY STRUCTURED CABLING**

Introduces High Security Structured Cabling in residential and commercial applications. Explores cabling as a total package. Includes most applications of security and low voltage needs. Includes comprehensive lessons, lecture, and hands-on practical application, installation, and design. Prerequisite(s): Successful completion of EFS 221 or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58F3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

### **EFS 231 CCTV DIGITAL NETWORK SOLUTIONS**

Introduces Closed Circuit Television (CCTV) Digital Network Solutions. Explores applications that require the camera to be recorded and viewed digitally or remotely via various networks. Includes comprehensive lessons, lecture, and hands-on practical application, installation, and design. Prerequisite(s): Successful completion of EFS 226, or instructor's permission.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
58G3	7 Cr	7:30AM-3:00PM	DAILY	01/02/19-03/21/19	14 213	Irish, Tracy	

## **ENGLISH**

### **ENG 091 BASIC READING AND WRITING**

Introduces and develops basic reading and writing skills. Focus is on writing proper sentences and sound paragraphs that express a main idea clearly and fully with a minimum of errors in sentence structure, punctuation, and spelling. Coursework emphasizes writing from observation, as well as writing in response to reading. Helps refine reading comprehension and increase vocabulary for college-level reading requirements. Prerequisite(s): Appropriate Accuplacer reading/writing combined score of 228 or equivalent.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5W01	5 Cr	1:00PM-1:50PM	MTW	01/02/19-03/20/19	16 116	Mollas, Tula	HYBRID
5W02	5 Cr	2:00PM-2:50PM	MTW	01/02/19-03/20/19	16 116	Mollas, Tula	HYBRID

### **ENG 094 ADVANCED READING AND WRITING**

Enhances writing ability with emphasis on organization, unity, coherence, and adequate development of short essays. Introduction to various types of paragraphs and essays and review of the rules and

conventions of standard written English. Both paper and electronic communication tools will be used.  
 Prerequisite: Appropriate COMPASS/ SLEP placement score or successful completion of ENG 082. of 245 or equivalent or successful completion of ENG 091.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5B33	5 Cr	11:15AM-12:17PM	MTWTh	01/02/19-03/21/19	14 100	Quincy, Denis	
5B83	5 Cr	1:45PM-2:47PM	MTWTh	01/02/19-03/21/19	14 100	Quincy, Denis	
5W03	5 Cr	7:30AM-9:50AM	MW	01/02/19-03/20/19	16 205	Heath, Terry	HYBRID
5W04	5 Cr	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	16 205	Heath, Terry	HYBRID
5W05	5 Cr	3:00PM-3:50PM	DAILY	01/02/19-03/21/19	16 205	Ruby, Michael	HYBRID
5W06	5 Cr	2:00PM-2:50PM	DAILY	01/02/19-03/21/19	14 212	Copeland, Kri	HYBRID
5W36	5 Cr	11:00AM-11:50AM	DAILY	01/02/19-03/21/19	17 240	Faherty, Dion	HYBRID

### **ENGL& 101 ENGLISH COMPOSITION I**

Utilize the writing process to write clearly with consideration of audience, purpose, and tone, using standard grammar and punctuation conventions along with common discourse modes and patterns of organization. Read and process sources using independent and critical thinking skills, following established conventions for incorporating and documenting sources in writing. Prerequisite(s): Accuplacer reading/writing combined score 277 or equivalent or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0523	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Copeland, Kri	ONLINE
0524	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Heath, Terry	ONLINE
0525	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Irwin, Karen	ONLINE
0526	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Heath, Terry	ONLINE
0527	5 Cr	1:30PM-3:20PM	MW	01/02/19-03/20/19	SHC118	Ruby, Michael	HYBRID
0528	5 Cr	8:00AM-10:20AM	TTh	01/02/19-03/21/19	SHC107	Staff	HYBRID
0530	5 Cr	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	17 240	Faherty, Dion	HYBRID
0531	Var	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	17 240	Faherty, Dion	HYBRID
0532	Var	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	17 240	Faherty, Dion	HYBRID
0533	Var	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	17 240	Faherty, Dion	HYBRID
0535	5 Cr	12:00PM-12:50PM	DAILY	01/02/19-03/21/19	14 212	Copeland, Kri	HYBRID
0536	Var	12:00PM-12:50PM	DAILY	01/02/19-03/21/19	14 212	Copeland, Kri	HYBRID
0537	5 Cr	1:00PM-1:50PM	DAILY	01/02/19-03/21/19	14 212	Copeland, Kri	HYBRID
0538	Var	1:00PM-1:50PM	DAILY	01/02/19-03/21/19	14 212	Copeland, Kri	HYBRID
5B03	5 Cr	10:00AM-11:02AM	DAILY	01/02/19-03/21/19	14 100	Quincy, Denis	
0519	5 Cr	7:30AM-9:50AM	TTh	01/03/19-03/21/19	16 205	Heath, Terry	HYBRID
0520	5 Cr	10:00AM-12:20PM	TTh	01/03/19-03/21/19	17 230	Cain, Jacque	HYBRID
0521	Var	1:00PM-1:50PM	TThF	01/03/19-03/21/19	17 240	Ruby, Michael	HYBRID
0522	5 Cr	6:30PM-8:50PM	MW	01/03/19-03/21/19	17 230	Hoffman-Reye	HYBRID

### **ENGL& 102 COMPOSITION II**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0529	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Faherty, Dion	ONLINE

# **ENVIRONMENTAL SCIENCE**

## **ENV 154 SITE CHARACTERIZATION**

Focuses on providing students with a wide variety of mapping skills necessary for many phases of environment-related investigations. Also will provide hands-on application of established methods for evaluation of water, soil, and air. Biological, chemical, and physical investigations in accordance with generally accepted methodologies will be studied and conducted. This will be accomplished using hands-on training, with a wide variety of map resources and texts.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4503	4 Cr	12:00PM-1:50PM	MTW	01/02/19-03/20/19	16 102	Smith Kathy	ENHANCED

## **ENV 157 ENVIRONMENTAL SITE ASSESSMENT**

Includes studying potential liability associated with property transfers. Students learn and implement historical research, site investigation, liability assessment, and regulatory assessment.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4513	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Smith Kathy	ONLINE

## **ENV 161 ENVIRONMENTAL LAW I**

Provides an overview of the American legal system and how the branches of government work together to create and enforce laws. Focuses on environmental legislation and case law.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4523	5 Cr	9:00AM-11:20AM	MW	01/02/19-03/20/19	16 102	Smith Kathy	ENHANCED

## **ENV 230 RURAL TECHNOLOGIES**

Explores potential job areas in which students might seek employment. The rural aspect examines agriculture, forestry, fish, and wildlife. Prerequisite(s): Successful completion of GEOL& 110 and all ENV 100-level courses, except ENV 134.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
45A3	4 Cr	9:00AM-2:00PM	Th	01/03/19-03/21/19	16 104	Faust, Derek	ENHANCED

## **ENV 240 INTERNSHIP**

All students finishing the program are required to complete an internship. This is a temporary full-time position in the public or private sector where students gain confidence and experience in a chosen area of employment. Students experience on-the-job opportunities and make a skilled contribution to the internship provider. Opportunities to find internships are provided, but the student is in charge of finding his or her own internship. Prerequisite(s): Successful completion of at least 25 credits of ENV 200 level courses or instructor permission. Enrollment in ENV 246, Environmental Science Capstone required.

Additional Fee: 63.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4543	10 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Smith Kathy	

## **ENV 246 ENVIRONMENTAL SCIENCE CAPSTONE**

Accompanies ENV 240 Internship. The Capstone Project integrates the CPTC core abilities with the internship and identification of how core abilities apply in the workforce. Prerequisite(s): Successful completion of at least 25 credits of ENV 200 level courses or instructor permission. Enrollment in ENV 240, Internship required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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**ENV 248 HYDROLOGY**

Provides the basic principles of applied surface-water hydrology, ground-water hydrology, and water quality. Emphasis is placed on a watershed-based approach that uses water-quality standards to regulate surface-water quality. The concepts and principles of biologically-based water quality standards are also introduced. Covers the occurrence, movement, and quality of water beneath the earth's surface; aquifers; well-testing methods; and sampling techniques. Prerequisite(s): Successful completion of GEOL& 110 and all ENV 100-level courses, except ENV 134.

Additional Fee: 29.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4563	6 Cr	10:00AM-11:30AM	WF	01/02/19-03/20/19	16 104	Faust, Derek	HYBRID

**ENV 250 INTRODUCTION TO AIR POLLUTION & NOISE**

Provides a basic knowledge of the sources, mechanisms, and health effects of noise and atmospheric air pollution and their interaction with the weather and other climatological conditions. Methods of regulatory-required air monitoring, sampling, and data interpretation will also be introduced. Prerequisite(s): Successful completion of GEOL& 110 and all ENV 100-level courses, except ENV 134.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4573	3 Cr	9:00AM-9:50AM	WF	01/02/19-03/20/19	16 104	Faust, Derek	HYBRID

**ENV 261 WATERSHED ANALYSIS**

Focuses on issues associated with timber, fish, and wildlife watershed analysis. Study various modules and make an in-depth presentation to the class using visual aids. Monitoring and analytical skills will be covered and demonstrated through the collection of field data in remote areas. Willingness to be outdoors in rough terrain is a consideration. Prerequisite(s): Successful completion of all ENV 100-level courses, except ENV 134 and GEOL& 110.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4583	4 Cr	9:00AM-2:00PM	T	01/08/19-03/19/19	16 104	Faust, Derek	ENHANCED

## **ESTHETIC SCIENCES**

**ES 105 A & P FOR ESTHETICIANS**

A comprehensive survey of the body systems and how they work as they relate to the practice of esthetics. Class projects include eukaryotic cell, cranial puzzle, muscles of the head and neck, and muscle flash cards.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6203	2 Cr	8:30AM-9:30AM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

**ES 110 HISTOLOGY & PHYSIOLOGY OF THE SKIN**

A comprehensive examination of the epidermis, dermis, and hypodermis, including specialty cells and dermal adnexa. Examination of the physiology of the epidermal basement membrane, accessory organs of skin, and epidermal differentiation as they relate to the practice of esthetics.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6213	3 Cr	9:30AM-10:30AM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

### **ES 113 INTRODUCTION TO COSMETIC CHEMISTRY**

Fundamentals of chemistry, including differences between organic and inorganic matter, simple chemical reactions, pH for estheticians, and composition of, as well as indications for, commonly used products for esthetic salon services.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6223	3 Cr	10:30AM-11:30AM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

### **ES 114 FACIAL PROCEDURES**

Introduction to facial procedures, including client intake and assessment, skin analysis, clinical indications and contraindications. European facial instruction, product selections, and recommendations.

Prerequisite(s): Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123. Co-requisites: ES 118, ES 130, ES 132, ES 134, and ES 137.

Additional Fee: 103.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6263	5 Cr	8:00AM-2:30PM	DAILY	01/02/19-01/22/19	08 319	Whipple, Jenn	HYBRID

### **ES 116 CHARTING AND MEDICAL TERMINOLOGY FOR ESTHETICIAN**

Survey of common medical charting notations and terminology employed in medical practice, particularly as they relate to spa, salon, and medical office environments.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6233	4 Cr	1:00PM-2:00PM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

### **ES 118 TEMPORARY HAIR REMOVAL**

Survey of temporary hair removal to include: indication, contraindications, methods of epilation using multiple modalities including but not limited to hard wax, soft wax, and sugaring, lash and brow tinting as well as all safety and sanitation employed in the esthetics profession. Prerequisite(s): Successful completion of ES 105, 110, 113, 116, 120, and ES 123. Co-requisites: ES 114, 118, 132, 134 and ES 137.

Additional Fee: 103.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6273	4 Cr	8:00AM-2:30PM	DAILY	01/23/19-02/05/19	08 319	Whipple, Jenn	HYBRID

### **ES 120 SKIN DISEASES AND DISORDERS**

Identify normal skin and anomalies of skin, including primary, secondary, and vascular lesions, as well as irregularities of skin pigmentation. Identification of skin diseases and differentiating from common noncontagious lesions is included.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6243	5 Cr	11:30AM-12:30PM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

### **ES 123 BACTERIOLOGY, SAFETY, AND SANITATION**

Overview of pathological and non-pathological microorganisms including bacteria, viruses, endoparasites and ectoparasites, disease vectors, and transmission. Covers levels of decontaminations pertaining to

salons, spas, and medical offices.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6253	4 Cr	7:30AM-8:30AM	DAILY	01/02/19-03/21/19	02 123	Shields, Maur	

### **ES 130 MAKEUP APPLICATION**

Exploration of color theory, basic makeup allocation techniques and general product knowledge.

Prerequisite(s): Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123. Co-requisites: ES 125, ES 128, ES 132, ES 134, ES 138.

Additional Fee: 103.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6283	2 Cr	8:00AM-2:30PM	DAILY	02/07/19-02/14/19	08 319	Whipple, Jenn	HYBRID

### **ES 132 SKIN CARE AND BODY TREATMENTS**

Body treatments to include: Foot soaks, mud wraps, body scrubs, wet and dry room techniques, back treatments. Prerequisite(s): Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123. Co-requisites: ES 114, ES 118, ES 130, ES 134, and ES 137.

Additional Fee: 103.65

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
6293	4 Cr	8:00AM-2:30PM	DAILY	02/19/19-03/05/19	08 319	Whipple, Jenn	HYBRID

### **ES 134 MACHINE FACIALS**

Includes indications, contraindications and safety for electrical modalities, including galvanic, high frequency and other electrical equipment such as magnifying lamps, steamers and hot towel warmers., Prerequisite(s): Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123. Co-requisites: ES 114, ES 118, ES 130, ES 132, and ES 137.

Additional Fee: 45.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62A3	4 Cr	8:00AM-2:30PM	DAILY	03/06/19-03/15/19	08 319	Whipple, Jenn	HYBRID

### **ES 136 MICRODERMABRASION AND SUPERFICIAL PEELS**

Covers clinical exfoliation and desquamation techniques employing chemical and mechanical methods. Prerequisite(s): Successful completion of ES 114, ES 118, ES 130, ES 132, ES 134, and ES 137. Co-requisites: ES 140, ES 145, ES 154, and ES 159.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62C3	4 Cr	9:00AM-3:30PM	DAILY	01/02/19-01/15/19	08 325	Sorensen, Kar	HYBRID

### **ES 137 SPA CLINIC OPERATIONS**

Intro to Realistic training incorporating, dispensary, laundry, spa and clinical operations, and management positions. Prerequisite(s): Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123. Co-requisites: ES 114, ES 118, ES 130, ES 132, and ES 134.

Additional Fee: 45.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62B3	1 Cr	8:00AM-2:30PM	DAILY	03/18/19-03/21/19	08 319	Whipple, Jenn	HYBRID

### **ES 140 CLINICAL APPLICATIONS I**

Realistic training in our student-run clinic, incorporating every aspect of an exemplar esthetics practice.

Prerequisite(s): Successful completion of ES 125, ES 128, ES 130, ES 132, ES 134, and ES 137. Co-requisites: ES 136, ES 145, ES 154, and ES 159.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62D3	7 Cr	11:30AM-3:30PM	MTWTh	01/15/19-03/15/19	08 325	Sorensen, Kar	HYBRID

### **ES 141 CLINICAL APPLICATIONS II**

Realistic training in our student-run clinic, incorporating every aspect of an exemplar esthetics practice and advanced modalities. Prerequisite(s): Successful completion of ES 136, ES 140, ES 145, ES 154, and ES 159. Co-requisites: ES 149, ES 150, ES 153, ES 157, and ES 158.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62J3	5 Cr	11:30AM-3:30PM	TWThF	01/15/19-03/15/19	08 327	Siedlicki, M	HYBRID

### **ES 145 CORRECTIVE CONCEALING MAKEUP**

Theory and application of corrective and concealing techniques for makeup applications. Prerequisite(s): Successful completion of ES 114, ES 118, ES 130, ES 132, ES 134, and ES 137. Co-requisites: ES 136, ES 140, ES 154 and ES 159.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62F3	3 Cr	9:00AM-3:30PM	DAILY	01/16/19-01/24/19	08 323	Sorensen, Kar	HYBRID

### **ES 149 LASER THEORY AND APPLICATIONS**

Didactic and hands-on applications of multiple laser modalities. Course will include all related safety and first aid components. Prerequisite(s): Successful completion of ES 136, ES 140, ES 141, ES 145, ES 154, and ES 159. Co-requisites: ES 141, ES 150, ES 153, ES 157, and ES 158.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62K3	5 Cr	9:00AM-11:15AM	DAILY	01/10/19-02/14/19	08 327	Siedlicki, M	HYBRID

### **ES 150 MEDIUM DEPTH PEELS**

Didactic and hands-on applications of clinical-based medium -depth peels. Course includes all related safety and first aid measures. Prerequisite(s): Successful completion of ES 136, ES 140, ES 145, ES 154, and ES 159. Co-requisites: ES 141, ES 149, ES 153, ES 157, and ES 158.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62L3	2 Cr	9:00AM-3:30PM	DAILY	01/02/19-01/09/19	08 327	Siedlicki, M	HYBRID

### **ES 153 ADVANCED COSMETIC CHEMISTRY**

In-depth study of cosmetic chemicals and product knowledge. Students will write research papers on chemical products, ingredients, and contraindications that may occur during an esthetic treatment. Prerequisite(s): Successful completion of ES 136, ES 140, ES 145, ES 154, and ES 159. Co-requisites: ES 141, ES 149, ES 150, ES 157, and ES 158.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62M3	3 Cr	9:00AM-11:15AM	DAILY	02/19/19-03/14/19	08 327	Siedlicki, M	HYBRID

### **ES 154 ADVANCED SKIN CARE AND MASSAGE TECHNIQUES**

This course includes advanced modalities of skin care, including MLD and other industry related techniques. Prerequisite(s): Successful completion of ES 114, ES 118, ES 130, ES 132, ES 134, and ES 137. Co-requisites: ES 136, ES 140, ES 145, and ES 159.

Additional Fee: 72.45

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62G3	5 Cr	9:00AM-3:30PM	DAILY	01/25/19-02/13/19	08 323	Sorensen, Kar	HYBRID

### **ES 157 BUSINESS PLANNING**

Independent research and preparation of a business plan and portfolio as capstone project.

Prerequisite(s): Successful completion of ES 136, ES 140, ES 145, ES 154, and ES 159. Co-requisites: ES 141, ES 149, ES 150, ES 153, and ES 158.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62N3	2 Cr	9:00AM-3:30PM	DAILY	02/27/19-03/08/19	08 327	Siedlicki, M	HYBRID

### **ES 158 STATE BOARD PREPARATION**

This course includes kit preparation and simulation of state board examinations. Prerequisite(s):

Successful completion of ES 136, ES 140, ES 145, ES 154, and ES 159. Co-requisites: ES 141, ES 149, ES 150, ES 153, and ES 157.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62P3	2 Cr	9:00AM-3:30PM	DAILY	03/11/19-03/23/19	08 327	Siedlicki, M	HYBRID

### **ES 159 INTRO TO BUSINESS PLANNING & PROFESSIONAL DEVELO**

This course introduces students to outlining business plans by obtaining demographics, researching profit and loss statements, and outlining startup costs. Prerequisite(s): Successful completion of ES 114, ES 118, ES 130, ES 132, ES 134, and ES 137. Co-requisites: ES 136, ES 140, ES 145, and ES 154.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
62H3	1 Cr	9:00AM-3:30PM	DAILY	03/15/19-03/21/19	08 325	Sorensen, Kar	HYBRID

## **FUNDAMENTAL SKILLS FOR MANUFACTURING AND ENGINEERING CLASSES**

### **FSME 101 WORKSHOP SAFETY**

Covers occupational safety and health for workers in manufacturing and engineering workshop environments. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 40.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQA3	3 Cr	7:30AM-3:00PM	MTWTh	01/02/19-03/21/19	25 302	Chesnes, Thom	HYBRID

### **FSME 111 QUALITY PRINCIPLES, INSPECTION & TEST**

Provides students with a foundational set of measurement, data analysis, and documentation skills.

Teaches students how to interpret manufacturing drawings and schematics, how to take measurements and analyze data, and introduces quality principles and terminology used in industry. Prerequisite(s):

Instructor permission.

Instructor Permission required.

Additional Fee: 50.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQB3	5 Cr	7:30AM-3:00PM	MTWTh	01/02/19-03/21/19	25 302	Chesnes, Thom	

### **FSME 112 FABRICATION FUNDAMENTALS I**

Teaches students the basic workshop skills needed to fabricate parts and structures. Also introduces students to the properties of common materials used in manufacturing and engineering. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 50.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQC3	5 Cr	7:30AM-3:00PM	MTWTh	01/02/19-03/21/19	25 302	Chesnes, Thom	

### **FSME 113 FABRICATION FUNDAMENTALS II**

Introduces students to more advanced manufacturing and engineering fabrication techniques, including welding, the use of machine tools, composites, and electrical wiring. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 50.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQD3	5 Cr	7:30AM-3:00PM	MTWTh	01/02/19-03/21/19	25 302	Chesnes, Thom	

## **GEOGRAPHY**

### **GEO 215 GPS TECHNOLOGIES**

Uses global positioning system equipment to create maps and files for use in ArcGIS (geographic information system). Focuses on Trimble GPS technologies. Covers analysis tools and layout features for map creation.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4593	2 Cr	12:00PM-3:00PM	W	01/02/19-03/20/19	16 104	Faust, Derek	

## **GEOLOGY**

### **GEOL& 110 ENVIRONMENTAL GEOLOGY WITH LAB**

Focuses on the geological impacts associated with human activities. Emphasis includes internal and surface processes and the basic formation of the earth. Also covers conflicts associated with resource development and human responses to natural hazards. LAB meets Thursdays from 11 a.m. to 12:50 p.m.

Additional Fee: 50.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4533	5 Cr	9:00AM-10:50AM	TTh	01/03/19-03/21/19	16 102	Smith Kathy	ENHANCED

# GRAPHIC TECHNOLOGIES

## **GTC 149 DIGITAL IMAGING II**

Builds on the fundamentals of Photoshop and introduces advanced imagery to include blending, advanced layers, advanced selections, vector tools, filters, and color correction. Prerequisite(s): Successful completion of GTC 130 or instructor approval.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8543	5 Cr	9:00AM-5:00PM	M	01/07/19-03/18/19	11 154	Moyer, John	ENHANCED

## **GTC 164 PREPRESS I**

Students will create, edit and manipulate PDF files, combine files into PDF presentations, and to secure PDF documents. They will also work with many of the advanced features of Adobe Acrobat to include; OCR text recognition, preflight, print production tasks, touch and commenting, proofing, live review and collaboration.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8553	5 Cr	9:00AM-5:00PM	W	01/02/19-03/20/19	11 154	Moyer, John	ENHANCED

## **GTC 169 INTRODUCTION TO VECTOR-BASED ILLUSTRATION SOFTWARE**

Vector-based software, tools and features will be used to create text and logos, apply image effects, and design web graphics. The course incorporates branding and identifiers when designing products and enables students to design for both print and web.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8503	5 Cr	9:00AM-5:00PM	T	01/08/19-03/19/18	11 158	Owens, Darryl	ENHANCED

## **GTC 174 INDESIGN I**

Perform techniques of the application of InDesign on the Macintosh or PC based computer. Create files for electronic output; create documents, using stale sheets, color/swatches, tabs, along with understanding color separations for creating a variety of projects such as menus, booklets, brochures, forms, and other documents. Explore PDF and postscript files, service bureaus and production speed. Prerequisite: GTC 143 or instructor approval.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8513	5 Cr	9:00AM-5:00PM	Th	01/03/19-03/21/19	11 158	Owens, Darryl	ENHANCED

## **GTC 203 PREFLIGHT**

Explore the prepress environment using page layout, center object-oriented and imaging software applications. Creating projects in color for collect for output and packaging of files. Use Acrobat Professional to create and Distill PDF files, edit files, transfer files and create electronic portfolio. Perform electronic and laser separations for digital output, creating Postscript and EPS files, for graphic manipulation. Prerequisite(s): Successful completion of GTC 164, GTC 209, GTC 276 or instructor approval.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8523	5 Cr	9:00AM-5:00PM	W	01/02/19-03/20/19	11 158	Owens, Darryl	ENHANCED

### **GTC 225    ADVANCED PAGE LAYOUT PRINCIPLES**

Apply Page advanced Layout techniques using industry standard software to produce files for output. Preflight and Package Press Ready files. Output Composite and Separations to Postscript. Impose jobs for output service provider. Prerequisite(s): Successful completion of GTC 276, GTC 209, GTC 164 or instructor approval.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8533	5 Cr	9:00AM-5:00PM	M	01/07/19-03/18/19	11 158	Owens, Darryl	ENHANCED

### **GTC 254    CAPSTONE CLASS**

Preparation of personal job-hunting package of student's chosen specialty within the graphic technologies program, including industry research, business cards, cover letters, resumes, personal sales pitches, and portfolios. Prerequisite(s): Successful completion of GTC 223 or instructor approval.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8563	5 Cr	9:00AM-5:00PM	T	01/08/19-03/19/19	11 154	Moyer, John	ENHANCED

### **GTC 264    PAPER, PRICING, AND ESTIMATING**

Explore paper choices and cost within the printing industry. Estimate both materials and time for various printing processes. Produce a comprehensive business package, from research to print ready package. Present business package with estimates to a group.

Additional Fee: 88.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8573	5 Cr	9:00AM-5:00PM	Th	01/03/19-03/21/19	11 154	Moyer, John	ENHANCED

## **HEALTH UNIT COORDINATOR**

### **HUC 106    ANATOMY & PHYSIOLOGY FOR HLTH UNIT COORDINATOR**

Introduces basic word elements used in building medical terminology and identifies the different types of word elements present in each medical term by name. Introduces medical terms, body structure, and pathology in relation to each body system: integumentary, musculoskeletal, sensory, circulatory, nervous, endocrine, and digestive systems. Co-requisites: Enrollment in HUC 108, HUC 114, and HUC 120.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8173	3 Cr	3:00PM-10:00PM	TWTh	01/02/19-03/21/19	21 105	Perez, Joylen	HYBRID

### **HUC 108    ORIENTATION TO HUC**

This course will focus on orientation and introduction to campus policies and rules of conduct. This course will also introduce students to program policies, dress code, attendance, classroom, and workplace rules of conduct, program goals, and grading system. This course also focuses on the use of various communication devices and introduces the EMR/HER and related Windows programs used in the hospital. Co-requisites: Enrollment in HUC 106, HUC 114, and HUC 120.

Additional Fee: 124.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8163	6 Cr	3:00PM-10:00PM	DAILY	01/02/19-03/21/19	21 105	Perez, Joylen	HYBRID

## **HUC 112 UNIT COORDINATOR TASKS & PROCEDURES II**

Focuses on cognitive knowledge and performance skills in the computer laboratory. Students will demonstrate performance skills for maintaining medical records, accurately transcribing physicians' orders to the appropriate chart forms and Kardex, as well as completion of pseudo patient charts. Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 113, HUC 118, HUC 122, HUC 126, and HUC 132.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8103	4 Cr	8:00AM-2:45PM	MThF	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

## **HUC 113 INTRODUCTION TO COMMUNICATION IN THE HUC ROLE**

Students will learn to describe and use good listening skills as a means of preventing and/or solving conflicts with a variety of people in different situations. This course also focuses on developing skills for the role of the communicator for the nursing unit. Students will also be given the tools for developing and practicing assertive communication, interpersonal relationships, and confidentiality skills. Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 112, HUC 118, HUC 122, HUC 126, and HUC 132.

Additional Fee: 4.90

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8113	1 Cr	8:00AM-2:45PM	DAILY	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

## **HUC 114 UNIT COORDINATOR TASKS & PROCEDURES I**

Enables identification of the forms commonly used in the patient's chart. Students will learn to explain the purpose of a patient's chart and recognize the charting responsibilities for each health care team member. Presents instruction and procedures for scheduling appointments by telephone, computer, and writing. Also focuses on students' performance in the computer-skill laboratory, demonstrating their cognitive knowledge for maintaining medical records; ordering laboratory and diagnostic exams; accurately transcribing physicians' orders; recognizing treatment orders; ordering nursing supplies; identifying abbreviations, symbols, and terms used in a medication order; and charting information accurately to the appropriate forms and the Kardex for their pseudo patients. Co-requisite(s): Enrollment in HUC 106, HUC 108, and HUC 120.

Additional Fee: 63.30

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8183	7 Cr	3:00PM-10:00PM	M	01/02/19-03/21/19	21 105	Perez, Joylen	HYBRID

## **HUC 118 ADV COMMUNICATIONS APPLICATIONS IN THE HUC ROLE**

Improves communication among diverse cultures and incorporates the relevant needs of culturally diverse groups in the medical field. Provide students with an overview and understanding of the fundamentals of communication. Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 112, HUC 113, HUC 122, HUC 126, and HUC 132.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8123	2 Cr	8:00AM-2:45PM	MTTh	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

## **HUC 120 UNIT MANAGEMENT**

Covers management responsibilities for the nursing unit, including time management and identification of possible fire and safety hazards on the nursing unit. Co-requisites: Enrollment in HUC 106, HUC 108, and HUC 114.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8193	3 Cr	3:00PM-10:00PM	W	01/02/19-03/21/19	21 105	Perez, Joylen	HYBRID

### **HUC 122 UNIT MANAGEMENT II**

Focuses on cognitive knowledge for managing the nursing unit and developing verbal and written communication skills. Students will develop leadership and performance skills by practicing classroom management. Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 112, HUC 113, HUC 118, HUC 126, and HUC 132.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8133	3 Cr	8:00AM-2:45PM	TW	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

### **HUC 126 LEGAL/ETHICAL ASPECTS OF UNIT COORDINATING**

Enables students to identify legal elements that are necessary in regard to preparing legal documents, discussing hospital and patient confidentiality, or witnessing signatures on consents for treatment. The ethics of this profession will be explored, and students will learn how to apply these ethics in professional behaviors. Covers AIDS education, blood-borne pathogens, HIPAA and hepatitis information.

Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 112, HUC 113, HUC 118, HUC 122, and HUC 132.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8143	2 Cr	8:00AM-2:45PM	WF	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

### **HUC 132 CLINICAL EXPERIENCE**

Enables students to use the cognitive and performance objectives from courses HUC 102 through 126 in the clinical setting. The course focuses on resume preparation, employment application, and an employment interview. In order to participate in the clinical aspect of the program, students must receive a 'No Record On File' report from the Washington State Patrol regarding crimes against persons. Clinical hours vary from six to eight hours per day, four days per week. Students unable to complete course HUC 132 will have the option of completing a clinical rotation with the next available program, on approval from the instructors, within six months. Prerequisite(s): Successful completion of HUC 106, HUC 108, HUC 114, and HUC 120. Co-requisites: Enrollment in HUC 112, HUC 113, HUC 118, HUC 122, and HUC 126.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8153	7 Cr	8:00AM-2:45PM	DAILY	01/02/19-03/21/19	21 105	Briggs, Marla	HYBRID

### **HUC 204 ECG MONITOR TECHNICIAN**

Examines basic cardiac function, normal and abnormal cardiac rhythms, etiology of arrhythmias, and interpretation of EKG tracing. Class time will consist of lectures, identifying rhythms, and group challenges. This course provides students with an excellent baseline understanding of both simple and more complex rhythms.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
81A3	3 Cr	6:15PM-9:15PM	TWThF	01/08/19-02/05/19	21 105	Perez, Joylen	HYBRID

## **HEATING/VENTILATION/AIR CONDITIONING (HVAC)**

## **HAC 102 BASIC ELECTRICITY**

Discusses the structure of matter, movement, electrons, conductors, insulators, direct and alternating currents, and electrical units of measurement. Students will also study electrical circuits and measurements, Ohm's law, series and parallel circuits, and electrical power. Also includes magnetic fields, inductance, transformers, capacitance, impedance, sine waves, and use of electrical measuring instruments. Co-requisites: HAC 105, HAC 120, HAC 162, HAC 163, HAC 164, and HAC 169, or instructor permission.

Additional Fee: 64.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1803	5 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

## **HAC 105 ELECTRICAL CIRCUITS**

Discusses types of automatic control devices that respond to thermal change, the bimetal device, control by fluid expansion, the thermocouple, and electronic sensing devices. Covers space temperature controls (both high and low voltage), sensing temperatures of solids, pressure-sensing devices, oil-pressure safety controls, air-pressure controls, devices that control fluid flow, and maintenance of mechanical and electromechanical controls. Co-requisites: HAC 102, HAC 120, HAC 162, HAC 163, HAC 164, and HAC 169, or instructor permission.

Additional Fee: 59.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1813	4 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

## **HAC 120 ADVANCED CONTROLS AND TROUBLESHOOTING**

Covers control terminology, applications and electronic control circuits. Pneumatic controls and direct digital controls are also explored, along with programmable thermostats. Also covers procedures for troubleshooting basic and complex circuits, thermostats, and high-voltage circuits controlled by thermostats. Describes procedures for measuring amperage and voltage in low-voltage circuits and discusses pictorial and line diagrams. Co-requisites: HAC 102, HAC 105, HAC 162, HAC 163, HAC 164, and HAC 169, or instructor permission.

Additional Fee: 59.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1823	4 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

## **HAC 162 ELECTRIC MOTORS AND THEIR APPLICATIONS**

Discusses types of electric motors, along with starting and running components and characteristics, motor speeds, and power supplies. Specific topics also included are single and split-phase motors, the centrifugal switch, electronic replay, capacitor start motors, capacitor run motors, permanent split capacitor motors, shaded pole motors, single-phase hermetic motors, positive temperature coefficient motors, and variable - speed motors. Includes discussions of various characteristics and insulations, bearings, mountings, and motor drives. Co-requisites: HAC 102, HAC 105, HAC 120, HAC 163, HAC 164, and HAC 169, or instructor permission.

Additional Fee: 59.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1843	4 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

## **HAC 163 REFRIGERATION CONTROLS**

Fundamentals of refrigeration controls and defrost systems. Prerequisite(s): Must have required hand tools of the trade and be enrolled in HAC 164. Co-requisites: HAC 102, HAC 105, HAC 120, HAC 162, HAC 164, and HAC 169.

Additional Fee: 54.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1833	3 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

### **HAC 164 ELECTRIC MOTOR CONTROLS AND TROUBLESHOOTING MOTO**

Discusses mechanical and electrical motor troubleshooting. This includes drive assemblies, belt tension, pulley alignment, open and shorted windings, shorts to ground, capacitor problems, wiring and connectors, and troubleshooting hermetic motors. Co-requisites: HAC 102, HAC 105, HAC 120, HAC 162, HAC 163, HAC 169 or instructor permission.

Additional Fee: 54.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1853	3 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

### **HAC 169 ADV MOTOR THEORY**

Understanding variable-speed and capacity control motors (ECMs, Offloaders, Compressors, Inverter Drives). Prerequisite(s): Must have required hand tools of the trade and be enrolled in HAC 164. Co-requisites: HAC 102, HAC 105, HAC 120, HAC 162, HAC 163, and HAC 164.

Additional Fee: 49.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1863	2 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 202	Barton, Rich	ENHANCED

### **HAC 170 HEATING I**

Covers controls, thermal physics, electric heating, and equipment for residential and light commercial heating system installation and servicing, with emphasis on electric heating and gas heating.

Prerequisite(s): Successful completion of HAC 102, HAC 105, HAC 120, HAC 162, HAC 163, HAC 164, and HAC 169. Co-requisites: HAC 170, HAC 175, HAC 181, and HAC 184.

Additional Fee: 74.30

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1873	7 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 402	Bean, Thomas	ENHANCED

### **HAC 175 HEATING I LAB**

Teaches students to troubleshoot and repair gas-burning appliances. Thermal physics and equipment for heating systems analysis and efficiency are studied. This is a hands-on class using live projects.

Prerequisite(s): Must have required hand tools of the trade and be enrolled in Heating I.

Additional Fee: 64.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1883	5 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 300	Mcghee, Dwigh	ENHANCED

### **HAC 181 HEATING II**

Covers controls, thermal physics, and equipment for residential and light commercial heating system installation and servicing with emphasis on electric and gas fuel heating. Prerequisite(s): Must have required hand tools of the trade and be enrolled in Heating I.

Additional Fee: 69.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1893	6 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 402	Bean, Thomas	ENHANCED

### **HAC 184 HEATING II LAB**

Teaches students to competently troubleshoot and repair electric, gas, and fuel heating equipment; thermal

physics, gas safety, and equipment for heating systems analysis and efficiency are studied. This is a hands-on class using live projects. Prerequisite(s): Must have completed HAC 102-175, required hand tools of the trade, and be enrolled in Heating I.

Additional Fee: 59.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
18A3	4 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 300	Mcghee, Dwig	ENHANCED

### **HAC 202     ADVANCED REFRIGERATION**

Covers competently troubleshooting and repair of refrigeration equipment, thermal physics and equipment for refrigeration systems analysis and efficiency. This is a hands-on class utilizing live projects.

Prerequisite(s): Must have required hand tools of the trade. Must be enrolled in HAC 249 and HAC 257.

Additional Fee: 89.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
18B3	10 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 300	Mcghee, Dwig	ENHANCED

### **HAC 249     JOB READINESS**

Covers resume writing, cover letter preparation, Internet job search, Work Source job readiness workshop, and tips on filling out job applications. Prerequisite(s): Must be enrolled in HAC 202 and HAC 257.

Additional Fee: 64.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
18D3	5 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 300	Mcghee, Dwig	ENHANCED

### **HAC 257     COMMERCIAL REFRIGERATION**

Troubleshoot and repair commercial refrigeration through study material and DVD format. Refrigeration fundamentals, refrigeration electrical controls, and refrigeration charging are explored. This is a hands-on class utilizing live projects. Prerequisite(s): Must have required hand tools of the trade. Must be enrolled in HAC 202 and HAC 249.

Additional Fee: 74.30

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
18C3	7 Cr	7:00AM-1:45PM	DAILY	01/02/19-03/21/19	25 300	Mcghee, Dwig	ENHANCED

## **HEMODIALYSIS**

### **HDT 142     WATER TREATMENT FOR HEMODIALYSIS TECHNICIAN**

Basic concepts of water treatment and dialyzer reuse are covered, including instruction on the varied devices used in hemodialysis. Also studied are advantages and disadvantages of filters, carbon tanks, deionizers, ultraviolet light, and reverse osmosis in the treatment of water for dialysis. Students will work in small groups to build a model of a water treatment room as their final project. Prerequisite(s): Students must complete HDT 106, 108, 116, 123, and 130 with a score of 80% or higher.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8803	2 Cr	8:00AM-9:45AM	MWF	01/02/19-03/20/19	21 227	Markovits, Ke	HYBRID

### **HDT 150     VASCULAR ACCESS**

This course covers the history and importance of vascular access, including the major types of permanent and temporary vascular access. Covers use of appropriate needle insertion for arteriovenous fistulae and

grafts; catheter care and connections; the four types of anastomosis used for internal arteriovenous fistulae; and management of thrombosis, infection, hematoma, bleeding, steal syndrome, aneurysm, and catheter dislodgement. Prerequisite(s): Students must successfully complete HDT 106, 108, 116, 123, and 130 with a score of 80% or higher.

Additional Fee: 9.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8813	2 Cr	8:00AM-9:45AM	TTh	01/03/19-03/21/19	21 227	Markovits, Ke	HYBRID

### **HDT 151 PROFESSIONAL PATIENT INTERACTION**

Explores the relationship and psychological boundaries between the technician, the patient and the renal facility. Includes concepts of patient education. Covers basic interpersonal verbal and non-verbal communication, with a focus on adapting to an individual's special needs or cultural orientation. Students will be given the tools to develop listening skills by practicing assertive communication and developing appropriate interpersonal relationships using the concepts of patient confidentiality. Prerequisite(s): Students must successfully complete HDT 106, 108, 116, 123, and 130 with a score of 80% or higher.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8823	3 Cr	7:00AM-8:00AM	DAILY	01/02/19-03/21/19	21 227	Markovits, Ke	HYBRID

### **HDT 153 PRINCIPLES AND PROCEDURES HEMODIALYSIS II**

Defines the basic principles of diffusion, filtration, fluid dynamics, and osmosis relating to the dialysis process. Includes overviews of the dialysis environment and kidney functions. Covers patient vitals and monitoring treatment, including identification of normal and abnormal values. Students will perform laboratory tests and use patient documentation procedures. Students will learn to identify causes, signs, symptoms, preventions, and interventions for medical and technical complications that may occur during dialysis. Includes patient dietary and nutrition requirements. Prerequisite(s): Students must successfully complete HDT 106, 108, 116, 123, and 130 with a score of 80% or higher.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8843	5 Cr	10:00AM-1:00PM	MWF	01/02/19-03/21/19	21 227	Markovits, Ke	HYBRID

## **HISTORY**

## **HUMAN SERVICES**

### **HS 120 SOFT SKILLS FOR THE HUMAN SERVICES PROFESSIONAL**

Designed to prepare students for the internship portion of the program, as well as employment. Students will develop professional r'sum's, cover letters, and employment preparation materials in line with human services industry standards. Topics include workplace communication skills, including written and oral communication, team building, time and self-management, stress management, and conflict resolution for the workplace. Students will explore the supervisor-supervisee relationship, including the functions of evaluation, self-evaluation, and professional development. Prerequisite(s): Students must complete HS 115, HS 127, and HS 237 to be eligible to take this course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2403	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Welch, Rober	ONLINE

## **HS 125 HIV/AIDS & BLOOD BOURNE PATHOGENS & BRIEF RISK**

Increase student's knowledge of HIV/AIDS & blood-borne pathogens. Students will gain knowledge of the history of HIV/AIDS and related issues. Provides 10 hours of HIV/ AIDS training in the areas of transmission, occupational safety, and standard precautions. Prerequisite(s): For Human Services Generalists: Students must be a high school graduate or have passed a highschool equivalency test and have Accuplacer reading/writing combined score of 277 or equivalent or higher, or successful completion of ENG 094, and have an Accuplacer quantitative score of 230 or equivalent or successful completion of MAT 092 prior to starting the course. For HSCD certificate students: Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services associate degree program.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2413	1 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Welch, Rober	ONLINE

## **HS 152 INTERNSHIP I**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students will perform relevant job duties and tasks within an agency of their choice, attend supervision meetings, identify applicable community resources, and perform other job duties as assigned. Instructor permission is required for site choice. Prerequisite(s): Students must complete HS 225, HS 125, HS 227, and HS 120 to be eligible to take this course.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2443	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	02 112	Copeland, D	

## **HS 222 THEORIES OF COUNSELING**

Increases student knowledge of a variety of counseling theories, theorists, and techniques, from both a historical and contemporary viewpoint. Students will explore the practical application and appropriate uses of these theories in the human services system. Prerequisite(s): Students must complete HS 152, HS 226, and HS 234 to be eligible to take this course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2453	5 Cr	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	02 112	Watts, Bryant	HYBRID

## **HS 225 SURVEY OF COMMUNITY RESOURCES**

Introduces students to a variety of community-based human service agencies through examination of their services, functions, and service populations. The class will participate in field visits, guest lectures, and exercises designed to assist them in understanding the relevance of each service component to the whole community, regional, and state system. Prerequisite(s): Students must complete HS 115, HS 127, and HS 237 to be eligible to take this course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2423	3 Cr	1:00PM-3:00PM	MW	01/02/19-03/20/19	02 120	Welch, Rober	HYBRID

## **HS 227 BEHAVIORAL HEALTH & WELLNESS**

Introduces students to the dimensions of wellness, including physical, emotional, social, and spiritual components. Students explore strategies for personal behavioral health and wellness, including coping strategies, personal boundaries, self-awareness, and how to avoid burnout on the job. Prerequisite(s): Students must complete HS 115, HS 127, and HS 237 to be eligible to take this course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2433	5 Cr	10:00AM-10:50AM	MWF	01/02/19-03/20/19	02 120	Welch, Rober	HYBRID

## **HS 230 CASE MANAGEMENT**

This course introduces students to the fundamentals of case management practice. Students will review different models of case management and learn about common case management functions, such as outreach, engagement, assessment, planning, accessing resources, coordination, and advocacy.

Prerequisite(s): Students must complete HS 152, HS 226, and HS 234 to be eligible to take this course.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2463	5 Cr	10:00AM-11:50AM	MWF	01/02/19-03/20/19	02 112	Watts, Bryant	HYBRID

### **HS 241 DYNAMICS OF VIOLENCE**

Presents an overview of the dynamics of violence in relationship to both the perpetrator and the victim. Areas of emphasis include child neglect, child sexual and physical abuse, missing and exploited children and adolescents, domestic violence, the cycle of violence, elder abuse, and violence's impact on the family system. Strategies for treatment and community intervention are explored. Prerequisite(s): Students must complete HS 152, HS 226, and HS 234 to be eligible to take this course

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2473	5 Cr	10:00AM-11:50AM	TTh	01/03/19-03/21/19	02 120	Welch, Rober	HYBRID

### **HS 245 INTERNSHIP II**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students perform relevant job duties and tasks within their agency of choice, attend supervision meetings, identify applicable community resources, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship I is required.

Prerequisite(s): Successful completion of HS 152 Internship I.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2483	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	02 112	Copeland, D	

### **HS 255 INTERNSHIP III**

Students will participate in on-the-job training in the human services field of their choice. Duties and tasks are supervised. Students perform relevant job duties and tasks within their agency of choice, attend supervision meetings, identify applicable community resources, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship II is required.

Prerequisite(s): Successful completion of HS 245 Internship II.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2493	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	02 112	Copeland, D	

## **HUMAN SERVICES/CHEMICAL DEPENDENCY**

### **HSCD 150 THE NEURO-PHARMACOLOGY OF ADDICTION**

This course provides an overview of the effects of drug use and chemical dependency on the body, including physiological, emotional, and behavioral implications. Topics include drug interactions, brain-body chemistry, and the management of chronic and acute conditions of drug misuse. Prerequisite(s): Completion of a terminal degree associate or higher, OR student has completed HS 222, HS 241, HS 230, and HS 255. Completion of HSCD 134 Introduction to Chemical Dependency.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
24A3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Welch, Rober	

## **HSCD 155 CHEMICAL DEPENDENCY & COUNSELING: INDIV & GROUPS**

Individual Counseling focuses on learning a collaborative process that facilitates the client's progress toward mutually determined treatment goals and objectives. Students will learn counseling competencies that will include: sensitivity to the client's individual characteristics and culture, the role of the counselor, approaches to counseling & addiction disorders, use of warmth, respect, genuineness, concreteness and empathy, and the therapeutic use of power & authority. Group dynamics & strategies will also be covered. Prerequisite(s): Completion of a terminal degree associate or higher, OR student has completed HS 222, HS 241, HS 230, and HS 255.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
24B3	5 Cr	5:00PM-7:15PM	W	01/02/19-03/20/19	02 120	Weinmann, Jen	HYBRID

## **HSCD 227 CHEMICAL DEPENDENCY ASSESSMENT & EVALUATION**

Students will be introduced to a variety of industry-standard screening, evaluation and assessment tools for both adolescents and adults. Students will be able to determine a client's readiness for treatment and change and have an understanding of the appropriate levels of care. ASAM placement and the stages of change will be focal topics. Prerequisite(s): Completion of a terminal degree associate or higher, OR student has completed HS 222, HS 241, HS 230, and HS 255.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
24C3	3 Cr	7:30PM-10:00PM	W	01/02/19-03/20/19	02 112	Weinmann, Jen	HYBRID

## **HSCD 229 SUICIDE PREVENTION FOR THE CHEMICAL DEPEND PROFE**

This course provides an overview of contributing factors to suicidality, including mental health, substance use, and lifespan development. Evidence-based prevention strategies for adolescents, adults, and older adults are discussed, including differentiations between Death with Dignity statutes for the terminally ill. Prerequisite(s): Completion of a terminal degree associate or higher, OR student has completed HS 222, HS 241, HS 230, and HS 255.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
24D3	1 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Welch, Rober	ONLINE

# **HUMANITIES**

## **HUM& 101 INTRODUCTION TO HUMANITIES**

AN INTRODUCTION TO THE HUMANITIES THROUGH INVESTIGATION OF CURRENT EVENTS OFFERED BY LOCAL COMMUNITIES. STUDY OF THE ARTS-PAINTING, SCULPTURE, ARCHITECTURE, DRAMA, FILM, MUSIC AND DANCE - WILL BE ENHANCED BY ATTENDING PERFORMANCES AND ON-LOCATION FIELD TRIPS TO SITES IN THE COMMUNITY. STUDENTS WILL BECOME FAMILIAR WITH TERMINOLOGY OF THE ARTS AND WITH COMMUNITY PERFORMANCE/DEMONSTRATIONS OF THESE SAME ARTS (MULTICULTURAL CONTENT) (WRITING INTERNSIVE) PREREQUISITE: SUCCESSFUL COMPLETION OF ENG 094 WITH A MINIMUM OF C OR EQUIVALENT.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0571	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Rendal, Cami	ONLINE

# **INTERIOR DESIGN**

**DSN 121 DRAFTING II**

This course introduces students to the fundamental principles needed to create an as-built plan set to include floor plan, power/mechanical plan, and elevation. Introduces field surveys, symbols and graphics, and formatting of drawings. Prerequisite(s): Successful completion of DSN 105.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3603	5 Cr	9:00AM-11:00AM	DAILY	02/20/19-03/21/19	19 210	Schillar, Sun	

**DSN 123 MATERIALS, METHODS AND TECHNIQUES**

This course is an introduction to the fundamental design materials and applications for interior environments, including hard and resilient flooring, soft flooring, paint, wall coverings, cladding, acoustics, metal, plaster, glass, and millwork. Students will also learn to visually present material selections in a professional manner.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3613	4 Cr	9:00AM-11:00AM	DAILY	01/02/19-01/18/19	19 210	Bowman, Michl	

**DSN 132 LIGHTING**

This course introduces students to the fundamental skills and concepts of lighting design. It is an approach to quality lighting, with a primary focus on the design process. Covers basic lighting, human factors, sustainability, products, and design fundamentals.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3623	5 Cr	9:00AM-11:00AM	DAILY	02/05/19-02/19/19	19 210	Schillar, Sun	

**DSN 140 TEXTILES**

This course is a comprehensive study of the textile products available for use in residential interior design, with an emphasis on window treatments, upholstery, the proper selection of materials, and working with drapery and upholstery showrooms and workrooms.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3633	4 Cr	9:00AM-11:00AM	DAILY	01/22/19-02/04/19	19 210	Bowman, Michl	

**DSN 152 FURNITURE AND CABINET DESIGN**

This course covers the fundamentals of custom furniture and cabinet design. Students will design a unique custom piece of furniture based on the study of furniture design theory, function, social use, materials, and fabrication.

Additional Fee: 59.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3683	2 Cr	12:00PM-2:00PM	MTTh	01/29/19-02/25/19	19 202	Bowman, Michl	

**DSN 204 INTRODUCTION TO COMMERCIAL INTERIOR DESIGN**

This course provides an introduction to commercial interiors. Contents include areas of practice, ADA and code compliance, and commercial design case studies.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3643	4 Cr	9:00AM-11:00AM	MTWTh	01/02/19-01/17/19	19 202	Watts, Julie	ENHANCED

### **DSN 215 SUSTAINABLE DESIGN: AN OVERVIEW**

Explores the history and principles associated with green and sustainable design. This course uncovers how the built environment affects people and the natural environment, environmental movements throughout history, green building assessment methods and certification programs, and the environmental responsibilities associated with the interior design profession. Prerequisite(s): Basic competency with computers and navigating the web.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36C3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Watts, Julie	ONLINE

### **DSN 216 CAD I**

Learn to use the basic functions of AutoCAD software to produce 2D drawings for interior design. Prerequisite(s): Basic competency with computers.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3653	5 Cr	9:00AM-11:00AM	MTWTh	01/22/19-02/12/19	19 202	Watts, Julie	

### **DSN 224 SUSTAINABILITY FOR RESIDENTIAL & COMMERCIAL APP**

Examines sustainable approaches to the built environment, including preservation, rehabilitation, restoration, and reconstruction. This course also looks at applying sustainable design elements to residential and a variety of commercial project types. Prerequisite(s): It is recommended to have completed or be concurrently enrolled in DSN 215 Sustainable Design: An Overview. Basic competency with computers and navigating the web.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36D3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Watts, Julie	ONLINE

### **DSN 225 DESIGN I**

This course introduces space planning for commercial interiors, including programming, design schematics and development, as well as relevant ADA Standards for Accessible Design and building codes.

Prerequisite(s): Successful completion of DSN 204 and 216.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3663	5 Cr	9:00AM-11:00AM	MTWTh	02/13/19-03/11/19	19 202	Watts, Julie	

### **DSN 226 SUSTAINABLE STRATEGIES IN DESIGN**

Introduces sustainable strategies for the integrated interior environment, including identifying materials, products, lighting systems, and building components that embody the principles of sustainability.

Prerequisite(s): It is recommended to have completed or be concurrently enrolled in DSN 215 Sustainable Design: An Overview. Basic competency with computers and navigating the web.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36F3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Watts, Julie	ONLINE

### **DSN 229 SUSTAINABLE INTERIORS & THE INTERGRATED DESIGN P**

Covers the steps to design and present a green interior space. Students will learn more about the integrated design process, develop their own sustainable interior design, and present it in a professional manner in preparation for real-life sustainable design proposals. Prerequisite(s): Completed or concurrently enrolled in DSN 215, DSN 224, and DSN 226. Basic competency with computers and navigating the web.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36G3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Watts, Julie	ONLINE

**DSN 231 HISTORIC PRESER 20TH CENTURY DESIGN & PHILOSOPHY**

Includes the study of historically significant 20th- and 21st-century designers and architects, their philosophies, and the role of their significant historic works.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3673	3 Cr	9:00AM-11:00AM	DAILY	03/12/19-03/21/19	19 210A	Bowman, Michl	

**DSN 245 INTERNSHIP**

Interact with established businesses or related businesses of interior design by going to a place of business and working in the field. Students will arrange to work with a sponsor and will observe and assist the sponsor with meaningful design activities for a total of 80 hours. Prerequisite(s): Successful completion of DSN 119, DSN 123, DSN 124, DSN 132, DSN 136, DSN 140, DSN 145, DSN 152, DSN 153, DSN 158, DSN 159, DSN 204, DSN 227, DSN 231, DSN 236, and DSN 239, or instructor permission.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3693	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Schillar, Sun	

**DSN 251 CONTRACT FURNITURE**

This course provides an introduction to the various types of furniture used in commercial design. Concentrates on the selection, specification, and use of furnishings, as well as contracts, documents, and the procurement of contract furniture.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36A3	3 Cr	9:00AM-11:00AM	MTTh	01/03/19-01/28/19	19 202	Schillar, Sun	

**DSN 265 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, students will select a meaningful project within an area of interest to strengthen their range of abilities. Students will fulfill several pre-approved objectives at the conclusion of the course, completing a self-assessment and final presentation to the instructor. Prerequisite(s): Instructor approval.

Additional Fee: 64.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36H3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	19 210	Schillar, Sun	

**DSN 266 PORTFOLIO PROFESSIONAL PRESENTATION**

Create and present a professional portfolio of work illustrating your level of design and technical skills. Students will learn to present themselves and their work professionally to prepare for the job search, interviews, and employment in the interior design industry. Prerequisite(s): Successful completion of DSN 119, DSN 124, DSN 136, DSN 145, DSN 153, DSN 159, DSN 227, DSN 236, and DSN 239, or instructor permission.

Additional Fee: 84.30

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36B3	7 Cr	9:00AM-11:00AM	MTThF	01/04/19-03/21/19	19 202	Watts, Julie	

**DSN 270 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, students will select a meaningful project within an area of interest to strengthen their

range of abilities. Students will fulfill several pre-approved objectives at the conclusion of the course, completing a self-assessment and final presentation to the instructor. Prerequisite(s): Instructor approval.

Additional Fee: 69.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36J3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	19 210	Bowman, Michl	

### **DSN 275 INDEPENDENT STUDY**

Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, students will select a meaningful project within an area of interest to strengthen their range of abilities. Students will fulfill several pre-approved objectives at the conclusion of the course, completing a self-assessment and final presentation to the instructor. Prerequisite(s): Instructor approval.

Additional Fee: 74.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
36K3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	19 210	Schillar, Sun	

## **LEADERSHIP**

### **LEADR 100 LEADERSHIP I**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0539	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Pau, Alison	ONLINE

### **LEADR 101 LEADERSHIP II**

Students taking this course will gain a basic understanding of the concept of leadership theory while developing a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership and to develop and improve their own leadership skills. This course integrates leadership studies through study, observation and application.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0540	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Pau, Alison	ONLINE

## **LIFESPAN PSYCHOLOGY**

### **PSYC& 200 LIFESPAN PSYCHOLOGY**

Introduces the milestones of human development from conception to death. It describes the physical, cognitive, and social growth of people, with special attention to various cultural contexts of development and the rich diversity of individuals. The content is drawn from research and theories in developmental psychology. Students are expected to integrate their personal experiences, knowledge of psychology, and their observations of human development with the content of this course. Implications for parenting, education, and social policy making will be discussed, so that students may apply course information to meaningful problems. Prerequisite(s): Successful completion of PSYC& 100.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0564	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Curry, Roger	ONLINE

# **MANUFACTURING TECHNOLOGIES**

## **MCH 101 SHOP SAFETY**

Provides an overview of the program, orientation to shop procedures, and the responsibilities associated with personal safety and the safety of others. Prerequisite: Instructor's permission.

Instructor Permission required.

Additional Fee: 50.35

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7803	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

## **MCH 105 SHOP MATH/BLEUPRINT**

Provides a review of basic arithmetic using addition, subtraction, fractions, and decimal fractions. Study of drawings and prints, and an overview of basic measuring tools. Prerequisite: Instructor's permission and MCH 101.

Instructor Permission required.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7813	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

## **MCH 107 SHOP MATH/BLEUPRINT II**

Provides study of basic geometry concepts and introduction to calculators. Advanced study of prints and reading of machine details. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7823	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

## **MCH 109 SHOP MATH/BLEUPRINT III**

An introduction to trigonometric functions, practical machine mathematical applications, the Cartesian coordinate system, geometric dimensioning, and tolerancing. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7833	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

## **MCH 111 SHOP MACHINE AND TOOLS**

Use and care of hand and machine tools used in measurement, layout, and inspection. Beginning machine tool operation of pedestal grinders, drill presses, and power saws. Prerequisite: Instructor's permission and MCH 101.

Instructor Permission required.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7843	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 117 LATHES I**

Progressively difficult operations on lathes with emphasis on setups, speeds, feeds, turning, facing, grooving, threading and tapers. Actual turning jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Instructor Permission required.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7853	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 121 SAFETY IN THE WORKPLACE**

Progressively difficult operations on milling machines, with emphasis on setups, speeds, feeds, end milling, side milling, shell milling, drilling, and tapping. Actual machining jobs from industry may be utilized.

Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7863	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 122 LATHES & MILLS II**

Intermediate calculations and machining operations with emphasis on accessories for lathes and milling machines. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 79.75

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7873	8 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 125 LATHES & MILLS III**

Progressively advanced turning and milling techniques with emphasis placed on precision setup using geometric dimensioning and tolerancing. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 89.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7883	10 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 126 LATHES & MILLS IV**

Progressively advanced turning and milling techniques with emphasis placed on the use of all shop equipment to complete advanced precision projects. Actual machining jobs from industry may be utilized.

Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 79.75

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
7893	8 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

**MCH 129 SURFACE GRINDING**

Progressively difficult grinding operations with emphasis on surface grinding, mounting, dressing, and truing grinding machine wheels. Prerequisite: Instructor's permission and MCH 101

Additional Fee: 60.15

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78A3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 133 TOOL & CUTTER GRINDER**

Progressively difficult tool and cutter grinding with emphasis on milling cutters, reamers, and form tools. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 65.05

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78B3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 201 CATIA I**

Gain introductory knowledge of 3D and parametric design using CATIA V5 software to create basic parts and assemblies in solids and wireframe. Prerequisite(s): Instructor permission required.

Additional Fee: 65.05

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78C3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 ARR	Dam, Ken	HYBRID

### **MCH 202 INTRODUCTION TO CNC**

Introduction to CNC programming software and setups using CAD/CAM interfacing and project milling, drilling, and lathe turning. Actual machining jobs from industry may be used. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 74.85

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78D3	7 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 203 CATIA II**

Build upon modeling and parametric design using CATIA V5 software to apply graphic skills to create parts, assemblies, and profiles in solids and wireframe. Prerequisite(s): Instructor permission required.

Additional Fee: 55.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78F3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 ARR	Dam, Ken	HYBRID

### **MCH 206 CATIA III**

Apply more advanced modeling and parametric design using CATIA V5 software to create complex parts and assemblies in solids and wireframes. Prerequisite(s): Instructor permission required.

Additional Fee: 55.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78G3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 ARR	Dam, Ken	HYBRID

### **MCH 211 MEASUREMENT INSPECTION & EQUIPMENT**

Covers understanding and operating Computer Numerical Control (CNC) machinery. Also includes writing programs and manual data input. Actual machining jobs from industry may be used. Prerequisite(s): Instructor's permission and MCH 101. Covers progressively advanced CNC machining techniques, with emphasis placed on program troubleshooting and increased production. Actual machining jobs from industry may be used. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 89.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78H3	10 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 216 ADVANCED CNC**

Progressively advanced CNC machining techniques with emphasis placed on program troubleshooting, and increased production. Actual machining jobs from industry may be utilized. Prerequisite: Instructor's permission and MCH 101.

Additional Fee: 99.35

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78J3	12 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 219 CAREER OPPORTUNITIES**

Covers writing a resume, researching employers and job -search techniques. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 60.15

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78K3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 223 INSPECTION TECHNIQUES**

Covers proper use of inspection tools and equipment. Emphasis is on applied use of geometric dimensioning and tolerancing, with use of granite layout surfaces. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 69.95

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78L3	6 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 229 METALLURGY & HEAT TREATMENT**

Provides insight into the study of the properties and compositions of metals. Emphasis is on heat treatment of metals. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 60.15

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78M3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 231 MANUFACTURING RESOURCES & RESEARCH**

This course is a study of resources for machining information, with emphasis on methods of research. Prerequisite(s): Instructor's permission and MCH 101.

Additional Fee: 60.15

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78N3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	HYBRID

### **MCH 240 TRAINING AND PRACTICE**

This course provides special instruction to suit the individuals needs. Repeated enrollment ensures progressively advanced training. The number of times one may enroll is based on the students needs, at the instructors advisement. PREREQUISITE: MCH 101 and Instructor's permission.

Additional Fee: 89.55

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
78P3	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 105	Dam, Ken	

# **MESSAGE**

## **MASST 111 ANATOMY, PHYSIOLOGY, AND PATHOLOGY II**

Explores endocrinology, cardiovascular, digestive, and respiratory systems. Prerequisite: Successful completion of MASST 110 "" Prerequisite(s): Successful completion of MASST 110.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1203	5 Cr	9:00AM-11:30AM	WF	01/02/19-03/15/19	08 108	Scott, Patric	HYBRID

## **MASST 132 DEEP TISSUE MASSAGE THEORY**

Introduces students to a variety of massage treatment techniques, providing groundwork for clinical massage applications. Indications, contraindications, and treatment modifications will be identified and discussed. Prerequisite(s): Successful completion of MASST 112 and MASST 120. MASST 132 must be taken concurrently with MASST. 135.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1213	3 Cr	9:00AM-11:30AM	TTh	01/03/19-03/19/19	08 317	Meziere, Yvon	

## **MASST 135 DEEP TISSUE MASSAGE PRACTICE**

Building on the massage techniques learned in Swedish massage theory and practice, students become proficient in a variety of deep-tissue techniques. Prerequisite(s): Successful completion of MASST 112 and MASST 120. Co-requisites: MASST 135 must be taken concurrently with MASST 132.

Additional Fee: 109.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1223	4 Cr	12:15PM-3:30PM	TTh	01/03/19-03/19/19	08 317	Meziere, Yvon	

## **MASST 136 COMPLEMENTARY MASSAGE MODALITIES II**

Introduces a variety of massage modalities that can be safely integrated into a massage practice. Modalities covered include pregnancy massage, sports massage, and hydrotherapy, including hot stone massage. Indications, contraindications, and treatment modifications will be identified. Prerequisite: Successful completion of MASST 114 and MASST 117. """"

Additional Fee: 73.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1233	2 Cr	12:15PM-3:30PM	M	01/07/19-02/11/19	08 317	Meziere, Yvon	

## **MASST 137 KINESIOLOGY: HEAD AND NECK**

Continues the study of movement while building upon the principles and skills for locating and identifying bony landmarks and muscles of the head and neck using palpation techniques, movement, and anatomical terminology. Prerequisite: Successful completion of MASST 126. "" Prerequisite(s): Successful completion of MASST 126.

Additional Fee: 36.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1243	1 Cr	12:15PM-3:30PM	WF	01/02/19-01/23/19	08 317	Meziere, Yvon	

## **MASST 146 KINESIOLOGY: LOWER EXTREMITY**

Continue the study of movement. This course builds upon the principles and skills for locating and identifying bony landmarks and muscles of the lower extremity using palpation techniques, movement, and anatomical terminology. Prerequisite: Successful completion of MASST 126. "" Prerequisite(s): Successful completion of MASST 126.

Additional Fee: 36.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1253	2 Cr	12:15PM-3:30PM	WF	01/25/19-03/20/19	08 317	Meziere, Yvon	

## MASST 148 MESSAGE BUSINESS AND ETHICS II

Learn and demonstrate a variety of successful business strategies, from marketing to record keeping, in addition to becoming knowledgeable regarding state and local laws that govern massage therapy in Washington State. Prerequisite(s): Successful completion of MASST 143.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1263	1 Cr	9:00AM-11:30AM	MTh	01/07/19-03/21/19	08 317	Meziere, Yvon	

## MASST 162 MESSAGE CLINIC I

Gain first-hand knowledge and experience by running a massage clinic. In addition to providing relaxation and deep tissue massage, each student will also have an opportunity to experience the more administrative positions in a clinic by rotating through the positions of receptionist, cashier, and scheduling manager. Prerequisite: Successful completion of MASST 114 and MASST 117. Student must have current First Aid/CPR certification, as well as having completed a minimum of four hours HIV-AIDS training, and a report from the Washington State Patrol. Some results from the background check may prevent individuals from participating in the Student Clinic. " clinic.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
1273	2 Cr	ARRANGED	M	02/25/19-03/18/19	08 317	Meziere, Yvon	

# MATH

## MAT 092 PRE-ALGEBRA

Covers basic operations with whole numbers, fractions, decimals, percentages, ratios and proportions, signed numbers, algebraic expressions, linear equations, order of operations, basic geometry, units of measurement, and introduction to statistics. Self-paced math courses allow students to learn on their own at a flexible pace, within the quarter.' Instead of regularly scheduled lectures, students study with the help of a variety of resources: an interactive online math program, the instructor, and tutors available in the Learning Resource Center.' Once students have demonstrated mastery of a set of materials, they can move on to the next set of materials.' Students have the opportunity to complete anywhere between one (1) and three (3) developmental courses in one quarter (Math 092, Math 094, and Math 099).'

Prerequisite(s): Accuplacer arithmetic score of 230 or equivalent or higher.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5W07	5 Cr	8:00AM-8:50AM	DAILY	01/02/19-03/21/19	16 202	Sandoval, L	HYBRID
5W08	5 Cr	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	16 202	Sandoval, L	HYBRID
5W09	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Mollas, Tula	ONLINE
5W15	5 Cr	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	16 113	Alexander, Di	HYBRID
5W24	5 Cr	1:00PM-3:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W33	5 Cr	4:00PM-6:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W21	Var	10:00AM-12:20PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W27	Var	1:30PM-4:00PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W30	5 Cr	1:30PM-4:00PM	TTh	01/03/19-03/21/19	SHC107	Alexander, Di	HYBRID
5W18	5 Cr	9:00AM-2:30PM	Sa	01/05/19-03/16/19	15 111	Parnell, Sam	HYBRID

## MAT 094 INTRODUCTION TO ALGEBRA

Develops algebraic topics, including algebraic expressions, solving linear equations and inequalities, coordinate graphing, systems of equations, polynomials, factoring, and introduction to rational expressions. Prerequisite(s): Accuplacer quantitative score of 230 or equivalent or successful completion of MAT 092 is required. Expands on algebraic topics, including solving equations and inequalities, graphing of linear and nonlinear equations, and rational expressions. Develops topics, including roots and radicals; solving absolute value equations and inequalities; solving quadratic, exponential and logarithmic equations; and introduction to functions. Prerequisite(s): Accuplacer quantitative score of 252 or equivalent or successful completion of MAT 094.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5W10	5 Cr	10:00AM-10:50AM	MTW	01/02/19-03/20/19	16 116	Mollas, Tula	HYBRID
5W11	5 Cr	2:00PM-2:50PM	MWF	01/02/19-03/20/19	15 111	Parnell, Sam	HYBRID
5W12	5 Cr	3:00PM-3:50PM	MTW	01/02/19-03/20/19	16 116	Mollas, Tula	HYBRID
5W16	5 Cr	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	16 113	Alexander, Di	HYBRID
5W25	5 Cr	1:00PM-3:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W34	5 Cr	4:00PM-6:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W22	Var	10:00AM-12:20PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W28	Var	1:30PM-4:00PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W31	5 Cr	1:30PM-4:00PM	TTh	01/03/19-03/21/19	SHC107	Alexander, Di	HYBRID
5W19	5 Cr	9:00AM-2:30PM	Sa	01/05/19-03/16/19	15 111	Parnell, Sam	HYBRID

### **MAT 099 INTERMEDIATE ALGEBRA**

Algebraic operations and concepts, solving equations and inequalities including quadratic equations, rational expressions, exponents, roots and radicals, graphing of linear and quadratic functions, and introduction to logarithms. PREREQUISITES: Appropriate COMPASS or successful completion of MAT 91 is required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5W13	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Schmeling, L	ONLINE
5W17	5 Cr	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	16 113	Alexander, Di	HYBRID
5W26	5 Cr	1:00PM-3:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W35	5 Cr	4:00PM-6:20PM	MW	01/02/19-03/20/19	16 202	Sandoval, L	HYBRID
5W14	5 Cr	1:00PM-3:20PM	TTh	01/03/19-03/21/19	16 202	Sandoval, L	HYBRID
5W23	Var	10:00AM-12:20PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W29	Var	1:30PM-4:00PM	TTh	01/03/19-03/21/19	15 111	Parnell, Sam	HYBRID
5W32	5 Cr	1:30PM-4:00PM	TTh	01/03/19-03/21/19	SHC107	Alexander, Di	HYBRID
5W20	5 Cr	9:00AM-2:30PM	Sa	01/05/19-03/16/19	15 111	Parnell, Sam	HYBRID

### **MAT 103 BUSINESS MATHEMATICS**

Develops elements of algebra applied to percentages, markup and markdown, discounts, payroll, and simple and compound interest. Scientific calculator required. Prerequisite(s): Accuplacer advanced algebra score of 233 or equivalent or successful completion of MAT 093 or MAT 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0542	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Schmeling, L	HYBRID
0577	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Stultz, Dougl	HYBRID
0541	5 Cr	10:00AM-12:20PM	TTh	01/03/19-03/21/19	16 208	Schmeling, L	HYBRID

### **MAT 105 MAT 105 MATH FOR INDUSTRIAL PROFESSIONS**

Develops elements of algebra, geometry, metric measure, and trigonometry to calculate areas, volumes

and angles for polygonal objects, objects with smooth curves, and composite objects, with applications to material strength tapers, pulleys, gears, screw threads and elementary engines. Scientific Calculator required. PREREQUISITE: Appropriate COMPASS score or successful completion of MAT 91 is required.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0543	Var	10:00AM-10:50AM	MWTh	01/02/19-03/21/19	14 208	Alexander, Di	HYBRID
0544	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Gangaram, Jit	ONLINE

### **MAT 108 MATH FOR HEALTH OCCUPATIONS**

Covers solutions to linear equations and quadratic equations with real roots, formulas; U.S., metric and apothecary measurement; calculation of dosages and intravenous fluid infusions; solutions and dilutions, logarithms and pH, elementary chemical calculations, and elementary statistics including standard deviation. Scientific calculator required. PREREQUISITE: Appropriate COMPASS score or successful completion of MAT 91 is required.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0546	5 Cr	3:00PM-3:50PM	DAILY	01/02/19-03/21/19	16 208	Sweerus, Neil	HYBRID
0547	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Sweerus, Neil	ONLINE

### **MAT 111 MATH FOR COSMOTOLOGY/ESTHETICS PROFESSIONALS**

This course is designed to prepare students interested in the cosmetology career to gain confidence in the mathematics and problem solving they may encounter. Topics covered include: methods of mathematical operations; order of operations; fractions; percentages; decimals; mathematical expressions and equation; solving variable equations and formulas; markdowns and markups; simple business math calculations; unit analysis, including US and metric measuring systems; time management; handling payroll. Prerequisite(s): Successful completion of MAT 093.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0548	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Stultz, Dougl	ONLINE

### **MATH& 107 MATH IN SOCIETY**

Exploration of mathematical concepts, with emphasis on observing closely, developing critical thinking, analyzing and synthesizing techniques, improving problem-solving skills, and applying concepts to new situations. Core topics are probability and statistics. Additional topics may be chosen from a variety of math areas useful in our society. Prerequisite(s): Appropriate Accuplacer advanced algebra score of 233 or equivalent or successful completion of MAT 099.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0545	5 Cr	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	16 113	Stultz, Dougl	HYBRID

### **MATH& 141 PRECALCULUS I**

Covers linear, quadratic, polynomial, rational, absolute value, exponential, logarithmic, and inverse functions and equations; composite functions, linear and quadratic inequalities, graphs of functions, relations, and inequalities; and graphic transformations. Introduces limits, linear and quadratic curve fitting, and mathematical modeling, including exponential growth and decay. Graphing calculator required. Prerequisite(s): Appropriate Accuplacer advanced algebra score of 233 or equivalent or successful completion of MAT 099.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0549	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Alexander, Di	ONLINE
0550	5 Cr	11:00AM-11:50AM	MW	01/02/19-03/20/19	16 208	Schmeling, L	HYBRID

## **MATH& 142 PRECALCULUS II**

Covers circular, trigonometric, and inverse-trigonometric functions and graphs; trigonometric and inverse trigonometric identities; trigonometric equations; vectors and elementary vector operations; De Moivre's theorem and equations with complex solutions; and polar and parametric equations and their graphs. Graphing calculator required. Prerequisite(s): Appropriate Accuplacer advanced algebra score of 263 or equivalent or successful completion of MATH& 141 or equivalent.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0551	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Schmeling, L	ONLINE

## **MATH& 146 INTRODUCTION TO STATISTICS**

Descriptive and inferential statistics, including measures of central tendency, dispersion or variation, and skewness. Students are introduced to basic concepts in probability, as well as discrete and continuous probability distribution functions. Statistical inference includes sampling, elementary experimental design, and hypothesis testing using normal, student's T, and F-distributions; linear regression and correlation; and the chi-square distribution. Graphing calculator is required. Prerequisite(s): Appropriate Accuplacer advanced algebra score of 263 or equivalent or successful completion of MAT 099 is required.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0552	5 Cr	4:00PM-4:50PM	DAILY	01/02/19-03/21/19	16 208	Sweerus, Neil	HYBRID
0553	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Sweerus, Neil	ONLINE

# **MECHATRONICS**

## **MEC 116 AC CIRCUITS**

Covers AC circuit analysis. Network theorems are applied to the solution of AC circuits. Resonance, filters, AC power and three-phase circuits are covered in detail. Introduces standard instrumentation used in testing AC circuits and measurement of AC circuits and systems. Discusses wiring techniques for AC power systems. Prerequisite(s): Successful completion of MEC 115. Co-requisite MEC 130.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ03	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19	25 103	Wenngren, Car	HYBRID

## **MEC 121 COMPUTER AIDED DESIGN II**

Covers the use of 3D parametric Computer-Aided Design (CAD) software to create individual parts and mated assemblies working from engineering sketches and/or prototypes. Prerequisite(s): Successful completion of MEC 120.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ63	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19	25 103	Sawatzki, Jas	HYBRID

## **MEC 125 HYDRAULICS AND PNEUMATICS**

Provides students with an understanding of design, installation, maintenance, and repair techniques for the hydraulic and pneumatic systems used in automated systems. Prerequisite(s): Successful completion of FSME 113 Co-requisite: MEC 150

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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MQ43 Var 7:30AM-3:15PM MTWTh 01/02/19-03/21/19 25 103 Sawatzki, Jas HYBRID

### **MEC 130 ELECTRIC MOTORES AND DRIVES**

Gives a broad perspective of DC motors, AC motors (both single- and three-phase), and variable speed drives. Industrial applications of variable speed drives for constant torque, constant horsepower, and variable torque/variable horsepower are covered. Stepper Motors and Servo Motors are discussed, along with their advantages and applications. Prerequisite(s): Successful completion of MEC 115.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ13	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19 25 103		Sawatzki, Jas	HYBRID

### **MEC 132 LEAN MANUFACTURING**

This course offers students opportunities to deploy and apply lean principles, concepts and methods locally ' within a work cell, work group or value stream. The course focuses on workshop and project implementation of specific lean concepts and techniques, and the qualities and habits that characterize a culture of continuous quality improvement.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ23	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19 25 103		Sawatzki, Jas	HYBRID

### **MEC 150 MECHANICAL SYSTEMS**

Develops an understanding of mechanical components used in typical mechatronic systems, such as positioning mechanisms, cranks and sliders, and belts and pulleys. Includes fabrication, test, and troubleshooting of prototype devices. Prerequisite(s): Successful completion of FSME 113. Co-requisite MEC 125.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ53	Var	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19 25 103		Wenngren, Car	HYBRID

### **MEC 163 INDUSTRIAL SURVEY**

This course is an exploration of current mechatronics applications in regional industry. Students will examine and analyze the implementation of various mechatronics improvements and process solutions through field tours, interviews with experts, and presentations by local industry professionals.

Prerequisite(s): Successful completion of MEC125, MEC150, MEC115, MEC116, MEC160

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ33	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19 25 103		Wenngren, Car	HYBRID

### **MEC 173 APPLIED MECHATRONICS**

In this course students develop applied systems by integrating elements of the constituent fields of mechatronics: electrical, mechanical, communication, control, and computing processes and devices. Students revisit fundamental skills and apply them to multidisciplinary challenges in the lab. Projects may include construction and modification of equipment to increase the capacity of the mechatronics lab.

Prerequisite(s): Successful completion of MEC125, MEC150, MEC115, MEC116, MEC160.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ73	5 Cr	7:30AM-3:15PM	MTWTh	01/02/19-03/21/19 25 103		Wenngren, Car	HYBRID

### **MEC 289 INTERNSHIP/WORK EXPERIENCE**

Provides students with practical on-the-job experience, and offers students a way to combine classroom study with related work experience under the supervision of an employer. Work experience must be related to the student's educational and career objectives in the field of mechatronics. Includes a weekly seminar component. Students must submit, at or before registration, a description of the proposed internship, signed by the employer, the instructor, and the student. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 34.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ93	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 103	Wenngren, Car	HYBRID

### **MEC 290 MECHATRONICS CAPSTONE PROJECT**

A required capstone project to be completed prior to graduation as a final check of competency. Students meet in person with an instructor and agree to a project that will apply the skills and competencies that students have acquired in the program, and that will result in a portfolio piece showcasing their abilities. Students must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the capstone project and the student. This course is to be taken the final quarter of the program. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 44.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
MQ83	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	25 103	Wenngren, Car	HYBRID

## **MEDICAL ASSISTANT**

### **MAP 107 INTRODUCTION TO MEDICAL ASSISTING**

Learn and demonstrate asepsis and infection control. Perform anthropometric measurements, vital signs and physical examination. Instruction and discussion also includes the overall function of the medical assistant within the health care team, including legal responsibilities and limitations. College and program policies and procedures are extensively discussed. This course must be successfully completed in order to proceed in the program. Prerequisite(s): Students must attend a mandatory information session/advising meeting with an instructor before or once the student has registered for MAP 107. Co-requisites: CAH 102, CAH 105, and COLL 102.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
38B3	Var	4:00PM-7:00PM	TTh	01/17/19-03/14/19	21 108	Yarbough, Kis	HYBRID

### **MAP 121 BODY SYSTEMS THEORY 101**

Caring for patients with disorders associated with hematology, endocrinology, obstetrics and gynecology, urology and male reproduction, and gastroenterology. Instruction will include anatomy and physiology, pathophysiology, pharmacology, and terminology. Prerequisite(s): Successful completion of CAH 102, CAH 105, COLL 102, and MAP 107. Co-requisites: MAP 124.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3823	4 Cr	1:30PM-4:30PM	TTh	01/03/19-03/14/19	21 111	Gowan, Amy	HYBRID

### **MAP 124 BODY SYSTEMS APPLICATIONS 101**

Practice fundamental skills relating to Body Systems Theory 101. Skills include microhematocrit, blood glucose monitoring, care and use of the microscope, pregnancy testing, physical and chemical urinalysis, and UA slide preparation. Prerequisite(s): Successful completion of CAH 102, CAH 105CL, COLL 102, and MAP 107. Co-requisites: MAP 121.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3833	3 Cr	1:30PM-4:30PM	MW	01/07/19-03/18/19	21 122	Gowan, Amy	HYBRID

### **MAP 146 BODY SYSTEMS APPLICATIONS 102**

Practice fundamental skills relating to Body Systems Theory 102. Skills include practicing care and usage of the otoscope, vision exams, audiometry testing, peak flow meters and small volume nebulizers, and performing ECG's, as well as phlebotomy skills. Prerequisite(s): Completion of the course's listed MAP 121 and MAP 124. Co-requisites: MAP 147.

Additional Fee: 27.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3873	4 Cr	8:00AM-11:00AM	TTh	01/08/19-03/19/18	21 108	Jones, Michel	HYBRID

### **MAP 147 BODY SYSTEMS THEORY 102**

Caring for patients with disorders associated with ophthalmology and otolaryngology, pulmonary medicine, neurology and mental health, cardiology, phlebotomy, and microbiology. Instruction will include anatomy and physiology, pathophysiology, pharmacology, and terminology. Prerequisite(s): Completion of the course's listed MAP 121 and MAP 124. Co-requisites: MAP 146.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3863	4 Cr	8:00AM-11:00AM	WF	01/04/19-03/15/19	21 108	Jones, Michel	HYBRID

### **MAP 171 AUTOMATED COMPUTER APPLICATIONS**

Practice fundamental skills relating to ICD-10 and CPT coding using computers. Includes computerized patient scheduling and procedures for accounts receivable management for both private patients and insurance companies. Prerequisite(s): Completion of the course's listed MAP 182 and MAP 184. Co-requisites: MAP 179.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3853	4 Cr	12:00PM-3:00PM	TWThF	02/14/19-03/20/19	21 108	Jones, Michel	HYBRID

### **MAP 179 HEALTH INSURANCE, CODING PRACTICES & BILL COLLEC**

Acquire information regarding private and public insurance programs. Practice fundamental skills relating to ICD-10 and CPT. Included are patient scheduling and procedures for accounts receivable management for both private patients and insurance companies. Prerequisite(s): Completion of the course's listed MAP 182 and MAP 184. Co-requisites: MAP 171.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3843	5 Cr	12:00PM-3:00PM	TWThF	01/04/19-02/13/19	21 108	Jones, Michel	HYBRID

### **MAP 182 PATIENT RECEPTION AND LEGAL COMPONENTS**

Emphasis on customer service within the health care field, focusing on effective communication with the patient while projecting and promoting a positive image of the profession and the office. This course also includes telephone techniques, patient scheduling, introduction to chart management, and business correspondence for the medical office, including cover letter and resume preparation. Define law and

ethics relating to the health care field focusing on components specific to medical assistants.

Prerequisite(s): Successful completion of CAH 102, CAH 105CL, COLL 102, and MAP 107. Co-requisites: MAP 184.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3803	4 Cr	9:30AM-12:30PM	MTWTh	01/03/19-02/14/19	21 111	Yarbough, Kis	HYBRID

### **MAP 184 MEDICAL RECORDS MANAGEMENT**

Instruct and apply knowledge relating to medical records, including the creation, management, and legality of both the paper and electronic record, as well as filing systems utilized within the health care office.

Focus will also include assisting patients in obtaining health and community services, as well as supplies and inventory control. Prerequisite(s): Successful completion of CAH 102, CAH 105CL, COLL 102, and MAP 107. Co-requisites: MAP 182.

Additional Fee: 109.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3813	3 Cr	9:30AM-12:30PM	MTWTh	02/19/19-03/20/19	21 111	Yarbough, Kis	HYBRID

### **MAP 212 EXTERNSHIP PREPARATION 2**

Demonstrate competencies of skills acquired throughout the Medical Assistant Program. Each student will perform and must pass the following skills at a mastery level while adhering to standard precautions:

medical/surgical asepsis, blood pressures, patient workups, growth charting, phlebotomy skills, urinalysis, hematocrit, blood glucose check, audio and visual exam, electrocardiogram, telephone techniques and appointment scheduling used within the medical office, computerized accounts payable/receivable, the electronic record, and chart management. Instruction will include caring for pediatric patients and geriatric patients. Prerequisite(s): Successful completion of MAP 164, MAP 166, MAP 173, MAP 177, and MAP 209. Successful completion of general education courses and compliance with the MAP immunization policy and personal health insurance policy. Co-requisites: MAP's 215 & 222.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3883	3 Cr	9:00AM-3:00PM	DAILY	01/02/19-01/15/19	21 108	Gowan, Amy	

### **MAP 215 EXTERNSHIP**

Capstone course gives students practical experiences in physician offices and/or clinics. Student must successfully pass MAP 212 in order to be eligible for this course. Co-requisites: MAP 212 and 222.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3893	8 Cr	ARRANGED	DAILY	01/16/19-03/14/19	ARR	Gowan, Amy	ENHANCED

### **MAP 222 COMMUNITY EMPLOYMENT OPPORTUNITIES AND LOCATIONS**

Locates the major medical employers (including hospitals) in the student's community, along with their human resources departments. This course also includes interviewing techniques, updating your resume, and methods of applying for employment through a variety of sources. Prerequisite(s): Successful completion of MAP 215. Co-requisites: MAP 212 and MAP 215.

Additional Fee: 4.90

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
38A3	1 Cr	9:00AM-3:00PM	DAILY	03/15/19-03/21/19	21 108	Gowan, Amy	HYBRID

# MEDICAL HISTOLOGY

## **HISTO 120 HISTOTECHNOLOGY II**

Covers and expands upon the knowledge and skills learned in Histotechnology I. Students will begin to learn the theory and principles of hematoxylin and eosin staining, as well as the basic principles and procedures of carbohydrate stains. "" Prerequisite(s): Successful completion of HISTO 105, HISTO 110 and HISTO 115.

Additional Fee: 49.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5603	10 Cr	7:00AM-3:00PM	TWThF	01/02/19-03/21/19	21 232	Haggerty, Reb	ENHANCED

## **HISTO 125 HISTOTECHNOLOGY LAB II**

Expands upon the knowledge and skills learned in Histotechnology Lab I. Students continue to increase their skills in embedding and tissue sectioning, including the cutting and staining of frozen tissue specimens. Students learn to do carbohydrate and Amyloid stains. "" Co-requisites: HISTO 120.

Additional Fee: 43.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5613	5 Cr	7:00AM-3:00PM	TWThF	01/02/19-03/21/19	21 232	Haggerty, Reb	ENHANCED

## **HISTO 130 MATH APPS FOR HISTOLOGY**

Introduces laboratory mathematics with an emphasis on solution prePARAtion. "" Co-requisites: HISTO 120 and HISTO 125.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5623	3 Cr	7:00AM-3:00PM	TWThF	01/02/19-03/21/19	21 232	Haggerty, Reb	HYBRID

# MEDICAL LABORATORY TECHNICIAN

## **MLT 237 CLINICAL EXPERIENCE II**

Continues the clinical training begun in MLT 233. Students continue for six weeks of training (either five eight-hour days each week or four nine-hour days each week), rotating through those departments not yet experienced and continuing to meet objectives listed in the MLT 233 syllabus. Some clinical sites may assign 1-2 weeks of either swing or night shift as part of the clinical phase. As in MLT 233, staff of the affiliated laboratory directly supervise students, and there is ongoing contact with the instructor in the form of monthly site visits, as well as Wednesday afternoon class sessions. This course is offered winter quarter. Prerequisite(s): Successful completion of MLT 222 and MLT 233.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4803	8 Cr	ARRANGED	DAILY	01/02/19-03/21/19	21 222	Colon Gabrie	HYBRID

## **MLT 239 CLINICAL EXPERIENCE III**

Complete the clinical training begun in MLT 233 and continued in 237. Students complete five more weeks of training (either five eight-hour days or four nine-hour days each week), completing the remainder of the objectives in the MLT 233 syllabus. Some clinical sites may also assign 1-2 weeks of either swing or night

shift as part of the clinical phase. As in MLT 237, staff of the affiliated laboratory directly supervise students, and there is ongoing contact with the instructor in the form of monthly site visits, as well as Wednesday afternoon class sessions. This course is offered winter quarter. Near the end of the quarter students will be given a cumulative final exam to prepare them for the ASCP national board exam.

Prerequisite(s): Successful completion of MLT 237.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4813	8 Cr	ARRANGED	DAILY	01/02/19-03/21/19	21 222	Colon Gabrie	HYBRID

## **NON DESTRUCTIVE TESTING**

### **MS 123 FUNDAMENTALS OF WELDING FOR NON WELDING MAJOR**

Students will identify, perform, or witness various basic welding processes for prospective visual and non-destructive inspectors.

Additional Fee: 69.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0903	5 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC115	Gilmore, Mich	HYBRID

### **MS 126 FUNDAMENTALS OF COMPOSITES FOR THE NON-COMPOSITE**

Introduces the various kinds of composite parts. This course explores the different types of resin, matrices, fibers, cores, and laminates. Students will explore their mechanical properties and the advantages of each type of composite structure. Covers the layup, winding, molding, curing, and repair of composite parts. Explores the role of NDT in testing composite parts after fabrication and after repair and the kinds of defects found.

Additional Fee: 64.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0913	4 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC115	Gilmore, Mich	HYBRID

### **MS 131 BLUEPRINT READING FUNDAMENTALS**

Covers basic lines and views of drawings, identifying and interpreting weld and fabrication symbols, and locating NDT requirements.

Additional Fee: 59.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0923	3 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC115	Gilmore, Mich	

### **NDT 150 ULTRASONIC TESTING I**

Introduces ultrasonic principles of sound wave propagation and term definitions. Also introduces the student to the calibration ultrasonic equipment and the various straight beam testing methods. Covers linearity and immersion testing, Snells law, and angle beam calibration and testing are covered.

Additional Fee: 190.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0933	5 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC114	Musson, Chuck	HYBRID

### **NDT 180 ULTRASONIC TESTING II**

Covers the use of angle beam testing to locate and size welding flaws. Immersion inspection of composite materials will also be covered.

Additional Fee: 190.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0943	5 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC114	Musson, Chuck	HYBRID

### **NDT 220 ULTRASONIC TESTING III**

Covers the application of advanced ultrasonic techniques, procedures, codes, and specifications as they apply to industry. Advanced applications will be performed using normal beam testing, angle beam testing, and immersion techniques. Techniques will be applied to a variety of industries, such as power, construction, manufacturing, and aircraft inspection. Also exposes students to computerized ultrasonic applications.

Additional Fee: 69.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0953	5 Cr	8:00AM-12:30PM	DAILY	01/02/19-03/21/19	SHC114	Musson, Chuck	HYBRID

### **NDT 240 CAPSTONE PROJECT**

Designed to synthesize and integrate the knowledge gained in all previous courses and demonstrate the application of theory and practice through a project.

Instructor Permission required.

Additional Fee: 59.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0963	3 Cr	ARRANGED	DAILY	01/02/19-03/21/19	SHC114	Musson, Chuck	

### **NDT 250 NDT INTERNSHIP**

Provides on-the-job practical experience under the supervision of an employer. Instructor permission is required for the site choice. Prerequisite: Advanced standing and Instructor's permission.

Instructor Permission required.

Additional Fee: 98.90

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0973	Var	ARRANGED	DAILY	01/02/19-03/21/19	SHC114	Musson, Chuck	

## **NURSING ASSISTANT**

### **NAC 108 NURSING ASSISTANT THEORY**

The Nursing Assistant Certified program prepares students to take the state examination for nursing assistant certification licensure. All three courses in the program must be successfully completed for students to be eligible to take the state examination. This course provides an introduction to the role and responsibilities of being a nursing assistant and meets the theory requirements for Washington State Nursing Assistant training. Prerequisite(s): Ability to lift up to 50 pounds.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NS03	5 Cr	8:00AM-2:30PM	TWTh	01/02/19-01/25/19	21 211	Sword, Yvette	
NST3	5 Cr	4:00PM-8:00PM	MTWTh	01/02/19-03/21/19	21 210	Mensonides, S	

### **NAC 111 NURSING SKILL FUNDAMENTALS**

This course covers instruction and practice of nursing assistant skills. Students will not be allowed to participate in the final skills exam unless attendance for all clinical hours has been fulfilled. Prerequisite(s):

Documentation of required immunizations, ability to lift up to 50 pounds, and 'No Record On File' from the Washington State Patrol and DSHS. Successful completion of NAC 108.

Additional Fee: 40.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NSF3	2 Cr	4:00PM-9:00PM	MTWTh	01/02/19-03/21/19	21 210	Mensonides, S	
NS13	2 Cr	8:00AM-2:30PM	MT	01/28/19-03/21/19	21 137	Sword, Yvette	
NS23	2 Cr	8:00AM-2:30PM	WTh	01/28/19-03/21/19	21 137	Sword, Yvette	

#### **NAC 114 UNIT BASED CLINICAL EXPERIENCE**

This course includes clinical experience in a long-term facility under the supervision of an instructor.

Prerequisite(s): Documentations of required immunizations, ability to lift up to 50 pounds. Students must have 'No Record On File' related to crimes against children or vulnerable adults from the Washington State Patrol and DSHS. Successful completion of NAC 111.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NS33	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Mensonides, S	
NSC3	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARRARR	Mensonides, S	

## **NURSING ASSISTANT I-BEST**

#### **NAC 108 NURSING ASSISTANT THEORY**

The Nursing Assistant Certified program prepares students to take the state examination for nursing assistant certification licensure. All three courses in the program must be successfully completed for students to be eligible to take the state examination. This course provides an introduction to the role and responsibilities of being a nursing assistant and meets the theory requirements for Washington State Nursing Assistant training. Prerequisite(s): Ability to lift up to 50 pounds.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NS03	5 Cr	8:00AM-2:30PM	TWTh	01/02/19-01/25/19	21 211	Sword, Yvette	
NST3	5 Cr	4:00PM-8:00PM	MTWTh	01/02/19-03/21/19	21 210	Mensonides, S	

#### **NAC 111 NURSING SKILL FUNDAMENTALS**

This course covers instruction and practice of nursing assistant skills. Students will not be allowed to participate in the final skills exam unless attendance for all clinical hours has been fulfilled. Prerequisite(s): Documentation of required immunizations, ability to lift up to 50 pounds, and 'No Record On File' from the Washington State Patrol and DSHS. Successful completion of NAC 108.

Additional Fee: 40.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NSF3	2 Cr	4:00PM-9:00PM	MTWTh	01/02/19-03/21/19	21 210	Mensonides, S	
NS13	2 Cr	8:00AM-2:30PM	MT	01/28/19-03/21/19	21 137	Sword, Yvette	
NS23	2 Cr	8:00AM-2:30PM	WTh	01/28/19-03/21/19	21 137	Sword, Yvette	

#### **NAC 114 UNIT BASED CLINICAL EXPERIENCE**

This course includes clinical experience in a long-term facility under the supervision of an instructor.

Prerequisite(s): Documentations of required immunizations, ability to lift up to 50 pounds. Students must have 'No Record On File' related to crimes against children or vulnerable adults from the Washington State Patrol and DSHS. Successful completion of NAC 111.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
NS33	2 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ARR	Mensonides, S	
NSC3	2 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ARRARR	Mensonides, S	

## **NURSING PRACTICAL-NURSING**

### **NURS 117 FUNDAMENTALS OF NURSING**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8003	4 Cr	7:30AM-11:30AM	W	01/02/19-03/21/19	21 210	Hernandez, Ka	HYBRID

### **NURS 120 MEDICAL-SURGICAL NURSING I**

Focuses on the use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Nursing interventions, pharmacological considerations, and client teaching are integrated. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 95.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8013	3 Cr	12:00PM-3:00PM	T	01/02/19-03/21/19	21 210	Mclean, Chery	HYBRID

### **NURS 121 NURSING CLINICAL SKILLS & DATA COLLECTION I**

Students will demonstrate competence in selected nursing skills using simulation equipment and other nursing students as clients. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 116.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8023	6 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 210	Gafken, Laura	HYBRID

### **NURS 124 MENTAL HEALTH NURSING**

Focuses on the continuum between mental health and illness and the therapeutic nurse-client relationship. Selected mental disorders will be discussed, with emphasis on nursing interventions, common interdisciplinary treatments, and services available for clients in inpatient and outpatient settings.

Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8033	3 Cr	12:00PM-3:00PM	Th	01/02/19-03/21/19	21 210	Staff	HYBRID

### **NURS 131 MEDICAL-SURGICAL NURSING II**

Focuses on use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Pharmacologic and nutritional consideration and client teaching are integrated. Prerequisite(s): Successful completion of NURS 117, NURS 120, NURS 122, NURS 123, and NURS 124.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8043	3 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 211	Mclean, Chery	HYBRID

### **NURS 134 PHARMACOLOGY IN NURSING**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8053	5 Cr	8:00AM-12:00PM	T	01/02/19-03/21/19	21 211	Ovechka, Soph	HYBRID

### **NURS 137 NURSING CLINICAL SKILLS & DATA COLLECTION II**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8063	5 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 211	Gafken, Laura	HYBRID

### **NURS 145 MEDICAL-SURGICAL NURSING IV**

Using a physiological systems approach, this class focuses on implementation of the nursing process in care of a diverse population of clients with health disturbances. Prerequisite(s): Successful completion of NURS 128, NURS 133, NURS 149, and NURS 153.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8073	4 Cr	12:00PM-4:00PM	M	01/02/19-03/21/19	21 214	Westberry, Ca	HYBRID

### **NURS 154 ISSUES & TRENDS IN NURSING II**

Prepares students for entry into nursing practice. Emphasis is on concepts of leadership, role of the practical nurse, and nursing laws governing practice. Career opportunities, preparation for licensure, and opportunities for further education in nursing are explored. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 116.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8083	2 Cr	12:00PM-4:00PM	M	01/02/19-03/21/19	21 214	Rose-Bungay	HYBRID

### **NURS 161 CLINICAL PRACTICUM III**

Provides an opportunity for students to provide care to clients in long-term care and acute and community settings. Experience involves direct client care, nursing procedures, and administration of medication to diverse clients of every stage of life. Focus is on safe nursing practices, nursing process, communication, and practice in providing complete care for two or more clients. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8093	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Westberry, Ca	HYBRID

### **NURS 164 CLINICAL PRACTICUM IV**

Provides an opportunity for students to provide care to clients in long-term care and acute and community settings. Experience involves direct client care, nursing procedures, and administration of medication to diverse clients of every stage of life. Focus is on safe nursing practices, nursing process, communication, and practice in providing complete care for two or more clients. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
80A3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Westberry, Ca	HYBRID

## **NURSING RN-OPTION**

### **NURS 117 FUNDAMENTALS OF NURSING**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8003	4 Cr	7:30AM-11:30AM	W	01/02/19-03/21/19	21 210	Hernandez, Ka	HYBRID

### **NURS 120 MEDICAL-SURGICAL NURSING I**

Focuses on the use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Nursing interventions, pharmacological considerations, and client teaching are integrated. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 95.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8013	3 Cr	12:00PM-3:00PM	T	01/02/19-03/21/19	21 210	Mclean, Chery	HYBRID

### **NURS 121 NURSING CLINICAL SKILLS & DATA COLLECTION I**

Students will demonstrate competence in selected nursing skills using simulation equipment and other nursing students as clients. Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 116.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8023	6 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 210	Gafken, Laura	HYBRID

### **NURS 124 MENTAL HEALTH NURSING**

Focuses on the continuum between mental health and illness and the therapeutic nurse-client relationship.

Selected mental disorders will be discussed, with emphasis on nursing interventions, common interdisciplinary treatments, and services available for clients in inpatient and outpatient settings.

Prerequisite(s): Admission to Practical Nursing program.

Instructor Permission required.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8033	3 Cr	12:00PM-3:00PM	Th	01/02/19-03/21/19	21 210	Staff	HYBRID

### **NURS 131 MEDICAL-SURGICAL NURSING II**

Focuses on use of the nursing process in care of clients with selected health disturbances. Emphasis is given to psychological, sociocultural, and developmental factors. Pharmacologic and nutritional consideration and client teaching are integrated. Prerequisite(s): Successful completion of NURS 117, NURS 120, NURS 122, NURS 123, and NURS 124.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8043	3 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 211	Mclean, Chery	HYBRID

### **NURS 134 PHARMACOLOGY IN NURSING**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8053	5 Cr	8:00AM-12:00PM	T	01/02/19-03/21/19	21 211	Ovechka, Soph	HYBRID

### **NURS 137 NURSING CLINICAL SKILLS & DATA COLLECTION II**

Explores the health care system and the profession of nursing, with emphasis on care with a diverse population of clients. Introduces the beginning practical nurse student to essential nursing concepts, such as therapeutic communication, infection control, patient safety, patient education, evidence-based practice, scope of practice, legal and ethical issues, principles of caring, promotion of comfort, and the nursing process. Prerequisite(s): Admission to Practical Nursing program.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8063	5 Cr	8:00AM-11:00AM	M	01/02/19-03/21/19	21 211	Gafken, Laura	HYBRID

### **NURS 145 MEDICAL-SURGICAL NURSING IV**

Using a physiological systems approach, this class focuses on implementation of the nursing process in care of a diverse population of clients with health disturbances. Prerequisite(s): Successful completion of NURS 128, NURS 133, NURS 149, and NURS 153.

Additional Fee: 25.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8073	4 Cr	12:00PM-4:00PM	M	01/02/19-03/21/19	21 214	Westberry, Ca	HYBRID

### **NURS 154 ISSUES & TRENDS IN NURSING II**

Prepares students for entry into nursing practice. Emphasis is on concepts of leadership, role of the practical nurse, and nursing laws governing practice. Career opportunities, preparation for licensure, and opportunities for further education in nursing are explored. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 116.25

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8083	2 Cr	12:00PM-4:00PM	M	01/02/19-03/21/19	21 214	Rose-Bungay	HYBRID

### **NURS 161 CLINICAL PRACTICUM III**

Provides an opportunity for students to provide care to clients in long-term care and acute and community settings. Experience involves direct client care, nursing procedures, and administration of medication to diverse clients of every stage of life. Focus is on safe nursing practices, nursing process, communication, and practice in providing complete care for two or more clients. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
8093	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Westberry, Ca	HYBRID

### **NURS 164 CLINICAL PRACTICUM IV**

Provides an opportunity for students to provide care to clients in long-term care and acute and community settings. Experience involves direct client care, nursing procedures, and administration of medication to diverse clients of every stage of life. Focus is on safe nursing practices, nursing process, communication, and practice in providing complete care for two or more clients. Prerequisite(s): Successful completion of NURS 133, NURS 149 and NURS 153.

Additional Fee: 14.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
80A3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Westberry, Ca	HYBRID

## **NUTRITION**

### **NUTR& 101 NUTRITION**

An exploration of macronutrients (carbohydrates, proteins, and fats) and micronutrients (vitamins and minerals) and their role in growth, development, and optimal health throughout the lifespan. A study in the anatomy and physiology of the gastrointestinal tract and its relation to digestion, absorption, and metabolism of nutrients will be completed. Students will explore the role of nutrition in preventing nutrition-related diseases. A healthy dietary plan will be developed to assist students in making healthy changes in their nutritional status for themselves and other members of their community. Prerequisite(s): Successful completion of ENGL& 101.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0555	Var	12:00PM-2:30PM	F	01/04/19-03/15/19	21 107	Scott, Patric	HYBRID
0575	5 Cr	3:00PM-5:30PM	F	01/04/19-03/15/19	21 107	Scott, Patric	HYBRID

## **OPERATIONS MANAGEMENT**

### **OPM 313 QUALITY MANAGEMENT**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
BA03	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Ostadfar, Ali	HYBRID

## **OPM 314 LOGISTICAL PLANNING AND SUPPLY CHAIN MANAGEMENT**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
BA13	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Ostadfar, Ali	HYBRID

## **OPM 491 FOCUSED STUDY I**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
BA23	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Ostadfar, Ali	HYBRID

## **OPM 492 FOCUSED STUDY II**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
BA33	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Ostadfar, Ali	HYBRID

# **PASTRY ARTS**

## **BAKE 106 CHOCOLATE I**

Explores the different types of chocolate used in making assorted treats, candies, and garnishes. Various methods of tempering, chocolate decorating, fudges, truffles, and other candies will be identified.

Instructor Permission required.

Additional Fee: 132.10

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3513	4 Cr	7:00AM-10:00AM	TTh	01/03/19-03/21/19	23 313	Newman, Shell	

## **BAKE 110 PATISSERIE I**

Provides students with the opportunity to attain fundamental cooking, time management, and production competencies in the program-run bistro. These include making scones, muffins, and cookies; demonstrating how to read, write and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism. Instructor permission required.

Instructor Permission required.

Additional Fee: 146.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3503	7 Cr	6:00AM-2:30PM	TWThF	01/02/19-03/21/19	23 313	Newman, Shell	

## **BAKE 115 PATISSERIE II**

Provides students with the opportunity to refine fundamental cooking, time-management and production competencies in the program-run bistro. These include making scones, muffins, cookies, and cake; demonstrating how to read, write, and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism.

Instructor Permission required.

Additional Fee: 146.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3523	7 Cr	6:00AM-2:30PM	TWThF	01/02/19-03/21/19	23 313	Newman, Shell	

## **BAKE 117 FROZEN DESSERTS**

Explores the world of frozen desserts. Students will develop recipes for various frozen desserts, such as gelato, sorbets, parfaits, and ice creams, along with savory desserts with the use of herbs, spices, and vegetables.

Instructor Permission required.

Additional Fee: 127.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3533	3 Cr	10:00AM-12:00PM	TTh	01/02/19-03/21/19	23 313	Newman, Shell	

### **BAKE 119 YEAST BREADS**

Introduces students to the techniques used with starters and yeasts. Students will demonstrate how to cultivate yeast with proper proofing and baking techniques, along with completing a variety of yeast breads.

Instructor Permission required.

Additional Fee: 132.10

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3543	4 Cr	7:00AM-10:00AM	WF	01/02/19-03/20/19	23 313	Newman, Shell	

### **BAKE 121 PATISSERIE III**

Introduces students to the experience of managing, training, and mentoring fellow classmates. Provides students with the opportunity to further refine fundamental cooking, time-management and production competencies in the program-run bistro. These include making scones, muffins, cookies, and cake; demonstrating how to read, write, and follow a standard recipe; and understanding the basic principles of various cooking methods. Students will uphold a high level of professionalism. Instructor permission required.

Instructor Permission required.

Additional Fee: 146.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3563	7 Cr	6:00AM-2:30PM	TWThF	01/02/19-03/21/19	23 313	Newman, Shell	

### **BAKE 162 RETAIL AND CUSTOMER SERVICE**

Familiarizes students with all aspects of retail service, cashiering and retail displays. Included are opening/closing procedures, retail layout and presentation, customer service, leadership, sanitation and safety, proper cash handling, and sales techniques. Instructor permission required.

Instructor Permission required.

Additional Fee: 146.80

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3573	7 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	23 BSTR	Newman, Shell	

### **BAKE 210 CAKES II**

Introduces students to advanced cakes, such as high ratio, chiffon cakes, and torts, along with buttercream icings and fondant. Temperature and environmental factors in cake making will also be covered.

Instructor Permission required.

Additional Fee: 127.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3553	3 Cr	10:00AM-1:00PM	WF	01/02/19-03/20/19	23 313	Newman, Shell	

# PHARMACY TECHNICIAN

## **PT 132 PHARMACOLOGY WITH DRUG NAMES PART II**

This course will continue the exploration of the top 200 commonly prescribed drugs in the United States. The drug action mechanisms, route of administration, and the effects on the body systems will be explored. Emphasis is placed on the uses, effects, and side effects of the major drug classes. Prerequisite(s): Successful completion of PT 121, PT 123, PT 125, and PT 127, with grades of 'B' or above in all courses.

Additional Fee: 29.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2703	6 Cr	10:00AM-12:00PM	W	01/02/19-03/20/19	21 226	Autry, Trisha	HYBRID

## **PT 135 HOSPITAL PRACTICE WITH STERILE PROCESSING**

This course will introduce the differences between hospital practice and community pharmacy practice. Students will learn of inpatient drug distribution systems, unit dose systems, formularies, and specialized services, including sterile compounding. This course also includes infection control, inventory management, and medication orders. Prerequisite(s): Successful completion of PT 121, PT 123, PT 125, and PT 127, with grades of 'B' or above in all courses.

Additional Fee: 29.40

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2713	6 Cr	12:30PM-2:30PM	W	01/02/19-03/20/19	21 226	Autry, Trisha	HYBRID

## **PT 148 CLINICAL CAPSTONE RESEARCH**

This course explores professionalism, clinical readiness, and the Pharmacy Technician Certification Exam. Prerequisite(s): Successful completion of PT 121, PT 123, PT 125, and PT 127, with grades of 'B' or above in all courses.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2723	4 Cr	10:00AM-12:00PM	T	01/08/19-03/19/19	21 226	Autry, Trisha	HYBRID

## **PT 154 PHARMACY LAB #2**

Students will apply techniques learned to prepare sterile compounding products. Emphasis will be on aseptic technique and USP 797 and USP 800 guidelines. Students will learn how to use inpatient drug distribution systems, unit dose systems, and bubble packing. Prerequisite(s): Successful completion of PT 121, PT 123, PT 125, and PT 127, with grades of 'B' or above in all courses.

Additional Fee: 95.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
2733	2 Cr	10:00AM-2:30PM	Th	01/03/19-03/21/19	21 226	Lalli, Jillia	ENHANCED

# PHILOSOPHY

## **PHIL 310 PROFESSIONAL ETHICS**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
BA53	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Swetnam, Erwi	HYBRID

# POLITICAL SCIENCE

## PROFESSIONAL PILOT

### **AVP 105 PRIVATE PILOT I**

Training in basic aircraft control, aircraft systems, airport procedures, and traffic pattern operations.

Prerequisite(s): FAA Class II Medical with Student Pilot Certificate prior to the first day of class. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5103	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 110 PRIVATE PILOT II**

Covers aircraft control, establishing and maintaining specific flight attitudes, and ground reference maneuvers. Prerequisite(s): Successful completion of AVP 105 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5113	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 115 PRIVATE PILOT III**

Basic performance maneuvers, traffic pattern procedures, and takeoffs and landings. Upon successful completion, students will solo the aircraft. Prerequisite(s): Successful completion of AVP 110 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5123	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 118 PRIVATE PILOT PRACTICAL TEST STANDARDS I**

Receive additional flight and ground training as required to meet pilot certification requirements.

Prerequisite(s): Solo endorsement and completion of a solo flight. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5133	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 125 PRIVATE PILOT IV**

Introduces knowledge, skills and aeronautical experience necessary to successfully complete the navigation and cross-country flight portion of flight training. Prerequisite(s): Grade of 'C' or better in AVP

115 or equivalent. Pre-solo written exam must be completed with a passing grade. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5143	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 130 PRIVATE PILOT V**

Provides the knowledge, skill, and aeronautical experience necessary to read and understand disseminated weather reports and forecasts. Meets the requirements for cross-country navigation and basic instrument flight. Prerequisite(s): Successful completion of AVP 125 or equivalent. Pre-solo written exam must be completed with a passing grade. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5153	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 135 PRIVATE PILOT VI**

Gain the proficiency to meet the requirements necessary for FAA Private Pilot Certification with an Airplane Category and Single-Engine Class Rating. Prerequisite(s): Successful completion of AVP 130 or equivalent. Pre-solo written exam must be completed with a passing grade. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5163	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 138 PRIVATE PILOT PRACTICAL TEST STANDARDS II**

Receive additional flight and ground training as required to meet pilot certification requirements. Prerequisite(s): Solo endorsement and completion of a solo flight. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5173	4 Cr	12:00PM-3:00PM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 140 INSTRUMENT PILOT I**

Introduces skills that will establish a strong foundation in basic attitude instrument flying and basic instrument navigation. Prerequisite(s): FAA Private Pilot Certificate. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5183	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 145 INSTRUMENT PILOT II**

AVP 145 INSTRUMENT PILOT II 4CR Perform precision attitude instrument flight, including advanced navigation techniques and procedures. Prerequisite(s): Successful completion of AVP 140 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5193	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 150 INSTRUMENT PILOT III**

Apply advanced navigation techniques and perform holding pattern entry procedures. Prerequisite(s): Successful completion of AVP 145 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51A3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 152 INSTRUMENT PILOT PRACTICE III**

Receive additional flight and ground training as required to meet pilot certification requirements.

Prerequisite(s): Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51B3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 155 INSTRUMENT PILOT IV**

Perform holding patterns and instrument approach procedures. Prerequisite(s): Grade of 'C' or better in AVP 150 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51C3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 160 INSTRUMENT PILOT V**

Perform cross-country flight using advanced navigation procedures. Use ATC communication procedures and conduct instrument departures, arrivals, and approaches. Prerequisite(s): Successful completion of AVP 155 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51D3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 170 INSTRUMENT PILOT VI**

Acquire the flight and aeronautical knowledge proficiency required for the issuance of the FAA Instrument-Airplane Rating. Prerequisite(s): Successful completion of AVP 160 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51F3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 172 INSTRUMENT PILOT PRACTICAL STANDARDS IV**

Receive additional flight and ground training as required to meet pilot certification requirements.

Prerequisite(s): Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51G3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 175 COMMERCIAL PILOT I**

Acquire initial VFR cross-country flight training. Pilotage, dead-reckoning, and radio navigation will be covered. Prerequisite(s): FAA Private Pilot Certificate, Instrument-Airplane Rating. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51H3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 180 COMMERCIAL PILOT II**

Receive additional VFR cross-country flight training. Additional flight training will encompass mountain flying techniques and local night flight operations. Prerequisite(s): Successful completion of AVP 175 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51J3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 185 COMMERCIAL PILOT III**

Receive final training in VFR cross-country flight and night operations. The cross-country flight hours required for Commercial Pilot Certification will be completed. Prerequisite(s): Successful completion of AVP 180 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51K3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 190 AIRLINE MULTI-ENGINE CRM I**

Update your knowledge and skills in multi-engine and advanced avionics operations, systems, performance, instrument, and airline crew operations. Operate a multi-engine aircraft as a crew and log no less than 10 hours of multi-engine Pilot in Command time. Prerequisite(s): Must be at least 18 years of age and be able to read, speak, write, and understand the English language. Must comply with FAA licensing standards and possess an FAA Commercial multi-engine Certificate. Second-class FAA medical certificate required prior to the first day of class. Please contact instructor for details. Must have instructor permission.

Instructor Permission required.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51AA	3 Cr	ARRANGED	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 195 AIRLINE MULTI-ENGINE CRM II**

Update your knowledge and skills in multi-engine and advanced avionics operations, systems, performance, instrument, and airline crew operations. Operate a multi-engine aircraft as a crew and log no

less than 20 hours of multi-engine Pilot in Command time. Prerequisite(s): Must be at least 18 years of age and be able to read, speak, write, and understand the English language. Must comply with FAA licensing standards and possess an FAA Commercial multi-engine Certificate. Second-class FAA medical certificate required prior to the first day of class. Please contact instructor for details. Must have instructor permission.

Instructor Permission required.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51AB	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 210 COMMERCIAL PILOT IV**

Receive initial flight and ground training in high-performance Commercial Pilot Certification maneuvers. Flight maneuver training includes chandelles, lazy eights, steep power turns, and accuracy landings.

Prerequisite(s): Grade of 'C' or better in AVP 185 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51L3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 215 COMMERCIAL PILOT V**

Gain additional aeronautical knowledge and flying skills necessary for advanced precision flight maneuvers. Prerequisite(s): Successful completion of AVP 210 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51M3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 218 MULTI-ENGINE INSTRUCTOR CERTIFICATION MEI**

Obtain and/or update knowledge and skills to meet Federal Aviation Administration multi-engine instructor requirements. Multi-engine operations, systems, performance, instrument, and aerodynamics will be examined. Emergency operations, including engine-out performance, aerodynamics, decision making, and instrument flight, will be studied. Prerequisite(s): Must be at least 18 years of age and be able to read, speak, write, and understand the English language. Must comply with FAA licensing standards and possess an FAA private pilot certificate. Second-class FAA medical certificate required prior to the first day of class. Please contact instructor for details. The Transportation Security Administration (TSA) requires that U.S. citizens prove citizenship status before beginning flight training by providing a current passport or birth certificate and driver's license. Non-U.S. students must submit to a background and fingerprint check from the TSA prior to beginning training. Contact instructor for details. Must have instructor permission.

Instructor Permission required.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51AD	3 Cr	8:00AM-11:00AM	DAILY	01/03/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 220 COMMERCIAL PILOT VI**

Receive advanced training in all the required Commercial Pilot Certification maneuvers. Flying proficiency in these maneuvers will meet the requirements set forth in the FAA Practical Test Standards.

Prerequisite(s): Successful completion of AVP 215 or equivalent.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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51N3 4 Cr 8:00AM-11:00AM DAILY 01/02/19-03/21/19 SHC105 Collins, Mars ENHANCED

### **AVP 223 COMMERCIAL PILOT PRACTICAL STANDARDS V**

Receive additional flight and ground training as required to meet pilot certification requirements.

Prerequisite(s): Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51P3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 230 COMMERCIAL PILOT VII**

Operate a high-performance aircraft with retractable landing gear and constant-speed propeller. Basic flight maneuvers and aircraft systems will be covered. Prerequisite(s): Grade of 'C' or better in AVP 220 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51Q3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 235 COMMERCIAL PILOT VIII**

Operate a high-performance aircraft with retractable landing gear and constant-speed propeller. Advanced flight maneuvers, as well as emergency procedures, will be mastered. Prerequisite(s): Successful completion of AVP 230 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51R3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 240 COMMERCIAL PILOT IX**

Operate a high-performance aircraft with retractable landing gear and constant-speed propeller. Increase proficiency in advance flight maneuvers and emergency procedures. Obtain logbook endorsement for the operation of High Performance Airplanes. Prerequisite(s): Successful completion of AVP 235 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51S3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 245 COMMERCIAL PILOT X**

Receive initial preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite(s): Grade of 'C' or better in AVP 240 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51T3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 250 COMMERCIAL PILOT XI**

Receive additional preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite(s): Successful completion of AVP 245 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51U3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 255 COMMERCIAL PILOT XII**

Receive final advanced preparative training to increase aeronautical skills and experience to meet the requirements for the issuance of a Commercial Pilot Certificate. Prerequisite(s): AVP 250 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51V3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 257 COMMERCIAL PILOT PRACTICAL STANDARDS VI**

Receive additional flight and ground training as required to meet pilot certification requirements. Prerequisite(s): Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51W3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 260 CERTIFIED FLIGHT INSTRUCTOR I**

Receive initial training in teaching and learning theory, as well as overall review of commercial pilot aeronautical knowledge subject areas. Student will be trained to fly the aircraft from the right seat to Commercial Pilot Practical Test Standards. Prerequisite(s): FAA Commercial Pilot, Airplane Certificate and Instrument Airplane Rating. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51X3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	

### **AVP 265 CERTIFIED FLIGHT INSTRUCTOR II**

Master proper teaching techniques from the right seat of the training aircraft. Develop proficiency in conducting aeronautical knowledge briefings. Successful completion will result when knowledge and proficiency meet and/or exceed FAA Practical Test Standards. Prerequisite(s): Successful completion of AVP 260 or equivalent. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51Y3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 268 INSTRUMENT FLIGHT INSTRUCTOR**

Acquire the aeronautical knowledge, skills, and experience necessary to obtain an FAA Instrument Flight Instructor Rating added to student's Certified Flight Instructor Certificate. Prerequisite(s): FAA Commercial

Pilot Airplane Certificate with Instrument Airplane Rating Certified Flight Instructor-Airplane Certificate. Instructor permission only.

Instructor Permission required.

Additional Fee: 19.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51Z3	4 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

### **AVP 271 MULTI-ENGINE CERTIFICATION**

Obtain and/or update their knowledge and skills to meet Federal Aviation Administration multi-engine requirements. Multi-engine operations, systems, performance, instrument, and aerodynamics will be examined. Emergency operations, including engine-out performance, aerodynamics, decision-making, and instrument flight, will be studied. Prerequisite(s): Must be at least 18 years of age and be able to read, speak, write, and understand the English language. Must comply with FAA licensing standards and possess an FAA private pilot certificate and Instrument rating. Second-class FAA medical certificate required prior to the first day of class. Please contact instructor for details. The Transportation Security Administration (TSA) requires that U.S. citizens prove citizenship status before beginning flight training by providing a current passport or birth certificate and driver's license. Non-U.S. students must submit to a background and fingerprint check from the TSA prior to beginning training. Contact instructor for details. Must have instructor permission.

Instructor Permission required.

Additional Fee: 14.70

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
51AC	3 Cr	8:00AM-11:00AM	DAILY	01/02/19-03/21/19	SHC105	Collins, Mars	ENHANCED

## **PSYCHOLOGY**

### **PSY 112 PSYCHOLOGY OF THE WORKPLACE**

Introduces general psychological principles and their application to the workplace emphasizing critical thinking with regard to self-awareness, interpersonal relations, motivation, and teamwork.

PREREQUISITE: COMPASS Reading Score of at least 81, equivalent SLEP score or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0556	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Wheeler, Mike	ONLINE

### **PSYC& 100 GENERAL PSYCHOLOGY**

Surveys the knowledge and methods of the discipline of psychology. Presents a broad view of this subject and establishes the foundation for further study of the discipline. Emphasis will be placed on applying psychological knowledge to daily situations and on accessing and assessing information about behavior from a variety of sources. Skills in scientific reasoning and critical thinking will be developed.

Prerequisite(s): Appropriate Accuplacer reading/writing combined score of 277 or equivalent or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0557	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Wheeler, Mike	ONLINE
0558	5 Cr	8:00AM-8:50AM	DAILY	01/02/19-03/21/19	16 203	Wheeler, Mike	HYBRID
0559	Var	9:00AM-9:50AM	DAILY	01/02/19-03/21/19	16 203	Rose-Pennisi	HYBRID
0560	Var	11:00AM-11:50AM	DAILY	01/02/19-03/21/19	16 203	Wheeler, Mike	HYBRID
0561	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Rose-Pennisi	ONLINE

0563	5 Cr	1:15PM-2:45PM	MW	01/02/19-03/20/19	SHC119	Baylor, James	HYBRID
0576	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Wheeler, Mike	ONLINE
0562	Var	2:30PM-3:50PM	TTh	01/03/19-03/21/19	16 203	Baylor, James	HYBRID

### **PSYC& 200 LIFESPAN PSYCHOLOGY**

Introduces the milestones of human development from conception to death. It describes the physical, cognitive, and social growth of people, with special attention to various cultural contexts of development and the rich diversity of individuals. The content is drawn from research and theories in developmental psychology. Students are expected to integrate their personal experiences, knowledge of psychology, and their observations of human development with the content of this course. Implications for parenting, education, and social policy making will be discussed, so that students may apply course information to meaningful problems. Prerequisite(s): Successful completion of PSYC& 100.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0564	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Curry, Roger	ONLINE

### **PSYC& 220 ABNORMAL PSYCHOLOGY**

A study of the development and symptoms of mental health disorders. Topics covered include schizophrenia, mood disorders, anxiety disorders, personality disorders, psychosomatic disorders, sexual deviation, organic disorders, and the process of adjustment to stress. Attention is given to biosocial, cognitive, and cultural factors and their role in mental health. Prerequisite(s): Successful completion of PSYC& 100 or equivalent.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0565	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Sperry, David	ONLINE

## **PUBLIC SPEAKING**

### **CMST& 220 PUBLIC SPEAKING**

An Open Course Library class with inexpensive course materials. Assists students in developing real-world oral communication skills. Capture the dynamics of today's business realities and see the benefits of effective communication. Selection of topics, library research, analysis, oral style, use of visual aids, and preparation and delivery of various types of speeches and oral presentations are included. The Internet, email, community interaction, and other practical tools support student learning and increase public speaking skills. Emphasis is placed on principles of cultural diversity. Prerequisite(s): Appropriate Accuplacer (283 in reading) placement score or equivalent or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0517	5 Cr	9:00AM-11:20AM	MW	01/02/19-03/20/19	14 212	Copeland, Kri	HYBRID
0516	5 Cr	9:00AM-11:20AM	TTh	01/03/19-03/21/19	14 212	Copeland, Kri	HYBRID
0518	Var	2:00PM-4:20PM	TTh	01/03/19-03/21/19	16 205	Heath, Terry	HYBRID

## **RESTAURANT OPERATIONS**

### **REST 103 FOOD & BEVERAGE COST CONTROL**

Outlines the fundamentals of food costing in relation to menu writing. Students will be responsible for pricing out each item on the menu as well as preparing yield tests and standardizing recipes.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3263	Var	7:00AM-8:30AM	MT	01/07/19-03/19/19	14 200B	Phillips, Jen	HYBRID

### **REST 107 KITCHEN AND DINING MANAGEMENT**

Students will learn how to communicate, lead, and manage different types of people. This entails how to hire and fire, inventory control, writing job descriptions, and creating performance reviews for both front and back of the house.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32B3	3 Cr	9:00AM-1:45PM	WThF	01/02/19-01/25/19	31 100	Phillips, Jen	HYBRID
3583	3 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	23 313	Newman, Shell	

### **REST 109 MARKETING/PUBLIC RELATIONS**

Learn how to create a marketing concept for your restaurant. Learn to define your target market and understand the importance of effective marketing in the industry. We will also look at current market trends, consumer behavior, market segmentation and positioning of your business in the market to get the desired results.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3273	Var	8:30AM-11:30AM	MT	01/07/19-03/19/19	14 200B	Phillips, Jen	HYBRID

### **REST 112 RESTAURANT DINING**

Familiarizes students with all aspects of running a casual-style dining room open to the public. Included are opening/closing procedures, table setup, customer-service techniques, leadership, sanitation, and safety procedures.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3283	7 Cr	9:00AM-1:45PM	WThF	01/30/19-03/21/19	31 100	Phillips, Jen	HYBRID

### **REST 115 CATERING PRODUCTION**

Emphasis will focus on buffet preparation and presentation. Students will receive hands-on experience creating and executing catering requisitions. Students will explore designing menus for various events, functions, and price limits.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
3293	3 Cr	7:00AM-9:00AM	ThF	01/03/19-03/15/19	14 200B	Phillips, Jen	HYBRID

### **REST 119 OPERATIONS MANAGEMENT**

Explore all aspects of running a successful operation in the hospitality industry. Students will learn how to create a positive work environment and apply team building and leadership skills. Students will also learn how to recruit new team members, establish hiring procedures, organize and implement systems and controls, and handle issues that arise on a daily basis. Students will also explore how to use Excel programs and identify the benefits of using Excel for restaurants.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32A3	Var	11:30AM-1:45PM	MT	01/07/19-03/19/19	14 200B	Phillips, Jen	HYBRID

## **REST 122 FOOD SERVICE NUTRITION**

Learn the basics of food service nutrition for culinary professionals. This class will teach students about the biological process that occurs as you eat, what constitutes a healthy diet, and the structure and function of foods.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32D3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Phillips, Jen	ONLINE

## **REST 126 FINANCE AND ACCOUNTING**

Prepares students to understand, interpret, and analyze financial statements, budgeting, cash flow, and cash management. This gives students a chance to become familiar with financial statements prior to entering the work force so they have a working knowledge in this area.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32F3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Phillips, Jen	ONLINE

## **REST 131 BUSINESS PLAN DEVELOPMENT**

Develop a restaurant concept from start to finish, including a hands-on look at how to develop a business plan to present to possible investors. Students will practice decision making and problem solving skills through creating and planning their own concept.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32C3	4 Cr	9:00AM-1:45PM	WThF	01/02/19-03/21/19	14 200B	Phillips, Jen	HYBRID

## **REST 133 BEVERAGE SERVICE**

Learn to set up and manage a beverage service operation successfully. Includes the history of bar service, beverage making ingredients and processes, and safety and sanitation in the bar.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32G3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Phillips, Jen	ONLINE

## **REST 137 HOSPITALITY LAW**

Learn about laws affecting the hospitality industry on both a national and state level. This class will look at operating an establishment according to government regulations regarding sales, civil rights, liability, administration issues, and organization.

Instructor Permission required.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
32H3	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Phillips, Jen	ONLINE

# **RETAIL**

## **RBM 105 FUNDAMENTALS OF ORGANIZATIONAL BEHAVIOR**

Emphasizes the human factor in business, the job of the supervisor, human relations, the art of leadership and converting policy into action, job analysis and performance, how and when to discipline, and effective supervising techniques for a diverse workplace.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5783	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 107    MARKETING**

Discover the methods and techniques of marketing research and the principles on which they are based. Includes the elements of the research process, evaluation, and effective presentation of findings.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5793	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 109    PRINCIPLE OF RETAILING**

Provides an introduction to retail management operations and merchandising. Covers retail target markets, trading area analysis and site selection, retail organization, buying, handling financial management of merchandise, development of retail image, customer service, and control of retail operations.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57A3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 111    BUSINESS COMMUNICATIONS**

Prepares students to communicate effectively in business settings by helping them develop superior written and oral communication skills. This course focuses on traditional and web-based forms of communication, as seen in business today, including email, letters, memos, reports, proposals, and presentations. Upon completion of Business Communications, students will know how to plan, write, and revise communications for a variety of audiences, both in print and online.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5743	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 113    BUSINESS TECHNOLOGY FOR RETAIL APPLICATIONS**

Gain hands-on experience with the fundamentals of Microsoft Office, such as entering data, formatting, copying and pasting, basic formula construction, auto summing and more. This course will not only teach you the basics of Office but will also teach you the thinking and mechanics of how to apply it to your everyday retail problems.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57B3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 115    HUMAN RESOURCE MANAGEMENT**

Identify the role of human resource management, including its scope and responsibilities. Students will examine the principles and methods used in the recruitment, selection, placement, and training of employees. Major laws, trends, and issues related to human resource administration will be discussed.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57C3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 117    PRINCIPLES OF MANAGEMENT**

Learn essential skills for operating an effective business. Topics include employee productivity, project management, human resources and job design, forecasting, statistical process , and supply chain management.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5773	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reyggers, Ryan	ONLINE

### **RBM 119    FINANCIAL MANAGEMENT**

Introduces students to key financial management topics that give insight into the issues and challenges facing financial managers every day. Examines the latest financial developments, including a discussion on IPOs as a broad topic and the sale of stock. This course delivers the solid understanding of financial management that a business student needs for future success.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57J3	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 123 CUSTOMER SERVICE STRATEGIES**

Introduces concepts of effective customer service, step-by-step suggestions for improving communication, and valuable references for delivering exceptional internal and external customer-service skills.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5753	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 129 SPEAKING FOR SUCCESS**

Theory and practice in composing and presenting oral business communications, both impromptu and prepared. Effective writing of business documents, methods of research, and presentation of oral class reports.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5723	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 133 EFFECTIVE SELLING**

Nature and scope of selling and understanding buying motives, with strong emphasis on the selling process, prospecting, pre-approach, demonstration of products and services, and closing. While we use the traditional selling tenets as a foundation, this course adapts the concepts to the rapidly changing world of business in today's environment, including the use of Twitter, LinkedIn, Facebook, blogs, wikis, and other interactive ways of connecting with customers.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57G3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 159 E-COMMERCE PRINCIPLES & APPLICATIONS**

This introduction to the world of electronic commerce provides the tools necessary to understand and capitalize on the explosion of Internet-based business in today's economy. Study the technologies used to create new opportunities for business-to-business and business-to-customer services. Social Media Marketing will give you a practical approach to developing successful social media marketing plans. Students will learn how to analyze effective and ineffective ways to market various products to achieve desired marketing outcomes.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
5763	4 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 162 SOCIAL MEDIA MARKETING**

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57H3	5 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 164 MARKETING COMMUNICATIONS**

Developed with real-world examples to illustrate the concepts of promotion and gives students a glimpse into industry and the challenges it faces. This course will introduce concepts on developing a target market, how to find your target market, and how to effectively build relationships through research and branding to the company's core customer.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
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57K3 5 Cr ARRANGED ARRANGED 01/02/19-03/21/19 ON LINE Reygers, Ryan ONLINE

### **RBM 166 SUCCESSFUL CAREER DEVELOPMENT**

Participate in self-analysis, goal setting, career exploration, personal appearance and grooming; resume writing, application letter writing, and the employment interview; and communication of ideas, interviewing practice, and other techniques of successful career development.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57D3	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 168 CONSUMER BEHAVIOR**

Introduction to the core concepts and applications of contemporary consumer behavior as it is practiced today with the latest consumer behavior statistics, examples, and trends. This course emphasizes how the recent recession, green marketing, and natural disasters all impact contemporary consumer behavior.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57L3	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

### **RBM 201 INTRODUCTION TO BUSINESS**

A professional class designed to give an understanding of business etiquette. Put your best professional foot forward with Introduction to Business Etiquette. This course covers all the important issues and concepts without confusing students with excess material. This class covers basic digital etiquette and provides information on how to create and maintain business relationships.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
57F3	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Reygers, Ryan	ONLINE

## **SOCIOLOGY**

### **SOC& 101 INTRODUCTION TO SOCIOLOGY**

Focuses on understanding and applying the sociological perspective, which stresses the importance of the impact of social forces external to the individual in shaping people's lives and experiences. Topics studied will include socialization, social interaction, culture, groups, social structure, deviance, social inequality, social class, race, gender, institutions (political, economic, educational, and family), collective behavior, and social change. Students will be asked to learn the basic concepts, theories, and perspectives of sociology; to see how these operate in terms of social processes, structures, and events; and to apply this knowledge to better understand the social world. Prerequisite(s): Appropriate Accuplacer reading/writing combined score of 277 or equivalent or successful completion of ENG 094.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
0566	Var	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Rose-Pennisi	ONLINE
0567	5 Cr	ARRANGED		ARRANGED 01/02/19-03/21/19	ON LINE	Baylor, James	ONLINE
0568	Var	11:00AM-11:50AM	DAILY	01/02/19-03/21/19	14 208	Rose-Pennisi	HYBRID
0569	5 Cr	10:00AM-10:50AM	DAILY	01/02/19-03/21/19	16 203	Baylor, James	HYBRID
0572	5 Cr	10:00AM-10:50AM	TTh	01/03/19-03/21/19	SHC116	Baylor, James	HYBRID

## **SURGICAL TECHNOLOGY**

### **SURG 145 SURGICAL LAB I**

Explores the operative environment, aseptic principles and practices, methodologies of opening sterile packages, preparation of the sterile field, positioning and prepping, scrub role, assistant circulator role, instruments, supplies, equipment, patient positions, incisions, draping, procedural steps and care of specimens, surgical counts, instrument handling, medication handling, suture handling, loading and unloading of blades, backtable and mayo setups, room disinfection, turnover and termination.

Prerequisite(s): Successful completion of SURG110 (Intro to Surg Lab), SURG 115(Intro to the Surg Enviro). SURG120 (Care of the Surg Pt I), BIOL& 242, CAH 105

Additional Fee: 16.20

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4003	5 Cr	10:30AM-3:00PM	TTh	01/03/19-03/21/19	21 120	Clark, Keza	ENHANCED

### **SURG 148 OPERATING ROOM THEORY I**

Explores the OR environment, instrumentation, equipment, supplies, patient positions, specimen care, postoperative considerations, abdominal incisions, surgical anatomy and procedures in general, laparoscopic, ob-gyn, ophthalmic, and genitourinary surgeries. Prerequisite(s): Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4013	5 Cr	7:00AM-9:30AM	TTh	01/03/19-03/21/19	21 113	Clark, Keza	HYBRID

### **SURG 150 OPERATING ROOM SETTING**

Explore the history of surgical technology, career opportunities, communication skills, and the effects of teamwork, law, ethics, documentation, and the health care facility environment. Prerequisite(s): Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4023	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Clark, Keza	ONLINE

### **SURG 152 CARE OF THE SURGICAL PATIENT**

Covers the physical, and biophysical needs of the patient and religious and cultural influences. Methods of handling death and dying, and the ethical issues surrounding death and dying. Explores the processes related to management and care of the surgical wound, including hemostasis, sutures, dressings, drains and application of various types of dressings. Prerequisite(s): Successful completion of SURG 110, SURG 115, SURG 120, BIOL& 242, CAH 105.

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4033	2 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ON LINE	Clark, Keza	ONLINE

### **SURG 201 OPERATING ROOM THEORY III**

Assesses the anatomy, physiology, and path physiology of the surgical specialties. Classroom activities will analyze procedures and anatomy related to pediatric, thoracic/pulmonary, cardiac, peripheral vascular neurosurgical and trauma procedures. Prerequisite(s): Successful completion of SURG154, SURG 160, SURG 128, SURG 153, SOC 101

Additional Fee: 24.50

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4053	5 Cr	7:00AM-9:00AM	WF	01/02/19-03/21/19	21 113	Clark, Keza	HYBRID

### **SURG 205 CLINICAL PREPARATION**

Students will earn HIPPA and Blood Borne Pathogens certificates, and complete all paperwork related to

attending clinical rotation. Prerequisite(s): Successful completion of SURG 154, SURG 160, SURG 128, SURG 153, SOC 101

Additional Fee: 26.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4063	2 Cr	ARRANGED	Th	01/02/19-03/21/19	ARR	Urquidez, Jam	HYBRID

### **SURG 208 MICROBIOLOGY FOR SURGICAL TECHNOLOGY**

Explores the relationship of microbiology and surgical practice, types and identification process of various microbes, cell structure of microbes, and disease process of microbes Prerequisite(s): Successful completion of SURG154, SURG 160, SURG 128, SURG 153, SOC 101

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4073	3 Cr	ARRANGED	ARRANGED	01/02/19-03/21/19	ARR	Urquidez, Jam	ONLINE

### **SURG 212 SURGICAL LAB III**

Preclinical level lab for practice of aseptic principles and practices, scrubbing, gowning, gloving, and preparation of the sterile field. Will practice draping patient, placing multiple types of drains and patient positioning. Demonstrate critical thinking skills and prioritizing the situations and corrections of contaminations. The course will teach care of specimens, and learn the roles of assistant circulator. Prerequisite(s): Successful completion of SURG154, SURG160, SURG128, SURG 153, SOC 101

Additional Fee: 265.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4043	5 Cr	10:00AM-3:30PM	WF	01/03/19-03/21/19	21 120	Clark, Keza	ENHANCED

## **UPHOLSTERY**

### **UPH 102 INTRODUCTION TO UPHOLSTERY I**

INTRODUCES TOOLS AND MATERIALS COMMONLY USED IN THE UPHOLSTERY TRADE. PROVIDES HANDS-ON EXPERIENCE IN PROPER USE OF VARIOUS HAND AND POWER TOOLS AND THEIR MAINTENANCE AND STORAGE. STUDENTS WILL LEARN HOW TO SET UP EFFICIENT WORK STATION. PREREQUISITE: INSTRUCTOR PERMISSION

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4303	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 104 INTRODUCTION TO UPHOLSTERY II**

Introduces types of foam and fabrics along with their characteristics and uses in upholstery. Equips students with skills needed to design patterns, measure and calculate materials needed for an upholstery project. Continuation of skills learned in Introduction To Upholstery I. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4333	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 106 BASIC SEWING I**

Covers the setup and threading of commercial upholstery sewing machines. Provides a foundation for students to learn to sew on commercial machines with control and accuracy. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4313	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 108 BASIC SEWING II**

Focuses on building a foundation of sewing skills. Provides instruction introduction to troubleshooting and maintenance of commercial sewing machines. Introduces students to various machine stitches and their uses. Continuation of skills learned in Basic Sewing I. Prerequisite(s): Instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4323	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 110 INTERMEDIATE SEWING I**

Develop sewing skills, speed and accuracy by constructing cushions, pillows and automotive inserts. Prerequisite(s): Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or Instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4343	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 112 INTERMEDIATE SEWING II**

Continuation of sewing skills learned in Intermediate Sewing I. Increase speed and accuracy by constructing cushions, pillows and automotive inserts.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4353	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 114 ADVANCED SEWING I**

Provides students the opportunity to develop advanced sewing skills by constructing complex seats and custom designs. Prerequisite(s): Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4363	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 116 ADVANCED SEWING II**

Continuation of Advanced Sewing I to develop students' advanced sewing skills. Provides practical application of sewing skills on a 2015 Corvette seat frame or similar. Students will design a pattern, cut, sew, and fit a new upholstery cover for a seat back. Prerequisite(s): Successful completion of UPH 102, UPH 104, UPH 106 and UPH 108, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4373	5 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 118 DOORS AND QUARTER PANELS I**

Provides students the opportunity to apply practical design, sewing and upholstery skills to automotive doors and quarter panels. Students will learn to remove existing panels, design replacement pieces and prepare automotive interior for upholstery. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4383	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 120 DOORS AND QUARTER PANELS II**

Continuation of development of skills learned in Doors and Quarter Panels I. Instruction also includes reinstallation of upholstered vehicle door and quarter panels. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
4393	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 122 BUCKET SEATS I**

Covers the removal of an automotive bucket seat as well as pattern and fabrication of a replacement seat cover and headrest covers. Provides students with the opportunity to apply knowledge and skills learned in design, measurement and sewing. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43A3	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 124 BUCKET SEATS II**

Covers various sewing techniques for automotive bucket seat as well as preparation and fitting of upholstery covers for bucket seats and head rests. Students will also learn to reinstall automotive bucket seats and headrests after reupholstering. Continuation of skills learned in Bucket Seats I. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43B3	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 145 THE ART OF TYPING SPRINGS**

Students will learn how to install springs using eight-way tie and adjust to proper height. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43C3	3 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 150 UPHOLSTERING LOUIS-TYPE CHAIR I**

Covers professional upholstery techniques and skills needed to upholster a Louis-type chair, overview of materials and tools of furniture upholstery and best practices. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43D3	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 155 UPHOLSTERING LOUIS-TYPE CHAIR II**

Continuation of Upholstering a Louis-type Chair I, building on skills learned in UPH 150, including instruction on designing and sewing sofa skirts and furniture arm covers. Prerequisite(s): Successful completion of Upholstery Fundamentals Certificate, or instructor permission.

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43F3	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

### **UPH 160 UPHOLSTERING A WING BACK CHAIR I**

Instructor Permission required.

Additional Fee: 45.00

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
43G3	4 Cr	9:00AM-3:00PM	DAILY	01/02/19-03/21/19	03 402	Glasgow, J	

## **WELDING TECHNOLOGY**

### **WLD 106 WELDING THEORY**

Introduces the tools and equipment used in welding. Includes safety considerations, electrical principles, welding quality and technical orientation for select welding and cutting processes. Instructor Permission required.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9803	5 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 403	Meyers, David	
98AM	5 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 403	Tonyuk, Dmitr	
98P3	5 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 403	Agostino, Jus	

### **WLD 110 THERMAL CUTTING AND GOUGING**

Develops the knowledge and skill for manual and machine-guided oxyfuel cutting, manual plasma arc cutting, and carbon arc gouging. Corequisite: WLD 105.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9813	3 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AN	3 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98Q3	3 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 112 OXYACETYLENE WELDING AND BRAZING**

Develops the knowledge and skill for welding, brazing, and braze welding various joint designs using oxyacetylene equipment. Corequisite: WLD 105.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9823	4 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AP	4 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98R3	4 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 117 SMAW I**

Introduces the shielded metal arc welding (SMAW) process with emphasis on skill development using deep penetrating electrodes in the flat and horizontal positions. , deep penetrating electrodes by welding various joints in the vertical and overhead positions. Prerequisite(s): Completion of or concurrent enrollment in WLD 105.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9833	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AQ	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98S3	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 123 SMAW II**

Develops understanding of the applications and techniques for using low-hydrogen SMAW electrodes in the flat and horizontal positions. , low-hydrogen electrodes by welding various joint designs in the vertical and overhead positions. Prerequisite(s): Successful completion of WLD 105.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9843	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AR	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98T3	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 143 MATERIALS AND TESTING**

Covers welding processes, electrode selection, welder qualifications and welding inspection Instructor Permission required.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9853	5 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 403	Meyers, David	

98AS	5 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 403	Tonyuk, Dmitr
98U3	5 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 403	Agostino, Jus

### WLD 144 PRINT READING FOR WELDERS

Develops the ability to interpret prints used in welding and fabrication. Introduction to sketching, lines, views, visualization, dimensioning, applied math, and welding symbols. Prerequisite: Successful completion of WLD 105.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9863	5 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 403	Meyers, David	
98AT	5 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 403	Tonyuk, Dmitr	
98V3	5 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 403	Agostino, Jus	

### WLD 152 GAS METAL ARC WELDING

Develops the ability to use the gas metal arc welding process to join carbon steels and aluminum with various joint designs in all positions. Prerequisite: Completion of or concurrent enrollment in WLD 142.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9873	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AU	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98BL	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 403	Agostino, Jus	

### WLD 157 METALLURGY

Examines metal identification and classification, mechanical properties, crystalline structures, heat treatments, and metallurgical effects of welding. Prerequisite: WLD 142.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9883	5 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 403	Meyers, David	
98AV	5 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 403	Tonyuk, Dmitr	
98W3	5 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 403	Agostino, Jus	

### WLD 168 FLUX CORED ARC WELDING I

Develops the ability to use gas-shielded flux cored arc welding electrodes to join carbon steels with various joint designs in all positions. Prerequisite: Completion of or concurrent enrollment in WLD 142.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
9893	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	03 400	Meyers, David	
98AW	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98X3	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### WLD 210 GAS TUNGSTEN ARC WELDING I

Develops the ability to use the gas tungsten arc welding process to join carbon and stainless steels with various joint designs in all positions. Prerequisite: Completion of, or concurrent enrollment in, WLD 142.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98A3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98AX	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98Y3	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 211 ADVANCED GTAW I**

Develops the welding in all positions for Gas Tungsten Arc Welding for a variety of light gauge steel and aluminum joint designs. Prerequisite(s): Successful completion of WLD 210 or instructor permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AY	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98B3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	
98Z3	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	

### **WLD 214 ADVANCED GTAW II**

WLD 214 ADVANCED GAS TUNGSTEN ARC WELDING II 7CR Develops the welding techniques in all positions for Gas Tungsten Arc Welding for a variety of light gauge exotic metals joint designs.

Prerequisite(s): Completion of, or concurrent enrollment in, WLD 211.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AA	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98AZ	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98C3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### **WLD 217 SPECIAL PROJECTS**

Develops skills in print reading, project planning, layout, distortion control fixturing, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or as assigned. Prerequisite(s): Advanced standing with instructor's permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AB	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 400	Agostino, Jus	
98BA	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98D3	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 400	Meyers, David	

### **WLD 219 SPECIAL PROJECTS II**

Develops additional skills in print reading, project planning, layout, distortion control, and other fabrication techniques. Students will have the opportunity to apply knowledge to projects of personal interest and/or assigned. Prerequisite(s): Advanced standing with instructor's permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AC	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 400	Agostino, Jus	

98BB	Var	ARRANGED	ARRANGED	01/02/19-03/21/19	25 400	Tonyuk, Dmitr
98F3	Var	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David

### WLD 223 GTAW PIPE

Develops welding techniques required to make sound GTAW welds on steel plate and pipe in the 2G, 3G, 4G, & 5G positions. Prerequisite(s): Successful completion of WLD 142 or instructor permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AD	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BC	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98G3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### WLD 225 SMAW PIPE WELDING

Develop welding techniques required to make sound SMAW welds using E6010 and E7018 electrodes on steel pipe in the 2G & 5G positions. Prerequisite(s): Successful completion of WLD 142 or instructor permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AF	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BD	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98H3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### WLD 227 ADVANCED PIPE

Develops welding techniques required to make sound welds on pipe in a variety of joints and positions. Prerequisite(s): Successful completion of WLD 142 or instructor permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AG	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BF	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98J3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### WLD 229 METAL-FORMING

Develops techniques, tools, and equipment necessary to form metal into a variant of shapes. Prerequisite(s): Successful completion of WLD 157 Metallurgy or instructor permission.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AH	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BG	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98K3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### WLD 233 LAYOUT AND FABRICATION

Covers Layout and fabrication techniques required for building production welding projects from a plan. Project planning, layout methods, fixturing, distortion control, and the use of tools and equipment for metal

fabrication are also covered. Instructor Permission required.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AJ	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BH	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98L3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	

### **WLD 235 WABO TEST PREP**

Develops skills in preparation for employer, Washington Association of Building Officials (WABO) or similar welder qualification tests in the 3G,4G, 5G and 6G positions using a variety of welding processes Instructor Permission required.

Instructor Permission required.

Additional Fee: 113.60

<u>Item</u>	<u>Cred</u>	<u>Hours</u>	<u>Days</u>	<u>Start-End Dates</u>	<u>Location</u>	<u>Faculty</u>	<u>Internet</u>
98AK	7 Cr	12:00PM-5:00PM	DAILY	01/02/19-03/21/19	25 400	Agostino, Jus	
98BJ	7 Cr	5:00PM-10:00PM	DAILY	01/02/19-03/21/19	25 400	Tonyuk, Dmitr	
98M3	7 Cr	7:00AM-12:00PM	DAILY	01/02/19-03/21/19	25 400	Meyers, David	