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.

49F2  5 Cr  ARRANGED  09/26/16-12/14/16 ON LINE  Dorum, Lucy [ONLINE]

**ACCT&202  PRINCIPLES OF ACCOUNTING II**
Covers fundamentals of accounting theory and practice continued from ACCT& 201. Focus is on issues related to businesses organized as a partnership or corporation and their effects on balance sheet accounts. Also covers investment, dissolution, and distribution of income. Prerequisite: ACCT& 201.

49G2  5 Cr  ARRANGED  09/26/16-12/14/16 ON LINE  Cooke, Suzann [ONLINE]
4932  5 Cr  11:00AM-11:50AM  TWThF  09/27/16-12/14/16  11 144  Cooke, Suzann [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

49H2  5 Cr  ARRANGED  09/26/16-12/14/16 ON LINE  Dorum, Lucy [ONLINE]

**ACTG 110  BOOKKEEPING I**
Introduces fundamental principles of full cycle, double-entry accounting, including maintaining journals, ledgers, and banking records to prepare basic financial statements for service and retail businesses organized as sole proprietorships or partnerships. Covers basics of payroll accounting and payroll tax reports. Explores the concepts and terminology required to perform specific accounting functions accurately. Prerequisite: COMPASS score equivalent to completion of MAT 82 and ENG 82 or higher, or Instructor approval.

49A2  4 Cr  ARRANGED  09/26/16-11/06/16 ON LINE  Dorum, Lucy [ONLINE]
4902  4 Cr  9:00AM-10:50AM  TWThF  09/27/16-11/06/16  11 144  Dorum, Lucy [HYBRID]
**ACTG 115  BOOKKEEPING II**
Introduces continued principles of full cycle, double-entry accounting. Covers specialty issues such as uncollectible accounts, depreciation, inventory, notes, interest, accruals, and end-of-period work for corporations. Explores concepts and terminology required to perform specific accounting functions accurately. Prerequisite: ACTG 110

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**ACTG 120  ELECTRONIC BUSINESS MATH**
Covers business math applications to include payroll, percent’s, merchandising, consumer credit, simple and compound interest, prorating, stocks and bonds, and the metric system, using the keyboard functions and the touch method of electronic calculator operation. Prerequisite: COMPASS score equivalent to completion of MAT 82 and ENG 82 or higher, or Instructor approval.

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**ACTG 135  ACCOUNTING SPREADSHEETS I**
Introduces electronic spreadsheets (Microsoft Office-Excel). Covers creating business forms and spreadsheets to prepare financial statements. Prerequisite: CAS 105, CAS 120 or Instructor approval. Concurrent with ACTG 110 or Instructor approval.

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**ACTG 160  PAYROLL & BUSINESS TAXES**
Provides practice in all payroll operations, the recording of accounting entries involving payroll, and the preparation of payroll and business tax returns that are required of business. Covers the concepts, laws, and terminology required to perform specific payroll accounting functions. Prerequisite: ACTG 110 or Instructor approval.

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**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.

<table>
<thead>
<tr>
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**ACTG 212  PRINCIPLES OF ACCOUNTING II LAB**
Provides instructional activities that support material covered in ACCT& 202 in a supervised lab environment. Concurrent with: ACCT& 202. Prerequisite: ACTG 211 or instructor approval.

<table>
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<tr>
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**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: ACTG 211 or instructor approval.

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**ACTG 224  FUNDAMENTALS OF FUND/GOVERNMENTAL ACCOUNTING**
Introduces the fundamentals of accounting theory and practice of governmental/nonprofit accounting, including a study of the 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 GAAP, GASB Standards, and fund/governmental accounting. Prerequisite: ACTG 115 and ACCT& 201 or Instructor approval.

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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. Prerequisites: ACTG 143, ACTG 235, CAS 120, and ACCT& 201, or Instructor approval.
4952 5 Cr 12:00PM-2:00PM TWThF 10/04/16-12/09/16 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: ACTCTG 260
Instructor permission required.
4962 5 Cr 12:00PM-2:00PM 10/04/16-12/09/16 11 127 Cooke, Suzann [ENHANCED]

ACTG 271 INTERNSHIP I
Provides students with 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 educational and career objective of the student. Must be approved by the Instructor and includes a weekly seminar component. Prerequisite: Instructor approval.
4972 5 Cr 12:00PM-2:00PM TWThF 10/04/16-12/09/16 11 144 Cooke, Suzann

ACTG 291 INDIVIDUAL INCOME TAX ACCOUNTING
Continues the study of the fundamentals of individual income tax accounting theory and practice, including a detailed study of the rules and regulations for preparation of the most common forms and schedules, preparation of these forms and schedules, tax laws in the United States, and the differences between GA AP and income tax accounting. Prerequisite: ACTG 222 and ACCT& 201, or Instructor approval. Concurrent with ACTG 293.
49N2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann [ONLINE]
4982 5 Cr 9:00AM-10:30AM TWThF 09/27/16-12/14/16 11 127 Cooke, Suzann [HYBRID]

ACTG 293 INDIVIDUAL INCOME TAX ACCOUNTING LAB
Provides a supervised setting, with instructional support, to apply understanding of federal individual income tax rules and regulations to specific tax problems. Prerequisite: ACTG 222 and ACCT& 201, or Instructor approval. Concurrent with ACTG 291.
4992 5 Cr 10:30AM-10:50AM TWThF 09/26/16-12/09/16 11 127 Cooke, Suzann [HYBRID]
49P2 5 Cr ARRANGED 09/26/16-12/09/16 ON LINE Cooke, Suzann [ONLINE]

BUS& 201 BUSINESS LAW
Introduces the Uniform Commercial Code and Business Laws pertaining to business contracts, sales, bailments, commercial paper, employment, agency, business organization, insurance and property. Prerequisite: ACTG 115 or instructor approval.
49M2 5 Cr ARRANGED 09/26/16-12/14/16 ON LINE Cooke, Suzann [ONLINE]

AEROSPACE COMPOSITE
ACM 105 BASIC MATHEMATICS; BASIC PHYSICS; WEIGHT & BALANCE
Perform all of the mathematical computations required in the Advanced Manufacturing curriculum. 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: $50.00

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: $50.00

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: $50.00

ACM 120  COMPOSITE FABRICATION
Learn manufacturing methods and processes commonly utilized for the fabrication of composite materials. Instruction includes material choices, fabrication techniques, material handling, and safety procedures.

Additional Fee: $50.00

ACM 125  COMPOSITE ASSEMBLY
Identify and utilize appropriate materials and processes to assemble structures made of composite materials. Includes the lay-up, vacuum bagging, and cure processing of wet laminating techniques and preimpregnated materials.

Additional Fee: $50.00

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.

Additional Fee: $50.00

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.

Additional Fee: $50.00

0992  3 Cr  11:30AM-3:45PM  DAILY  09/26/16-12/16/16  SHC119  Conway, Jacki
09D2  3 Cr  4:00PM-8:15PM  DAILY  09/26/16-12/16/16  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: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

0502  5 Cr  4:30PM-7:00PM  MW  09/26/16-12/16/16  17 240Wilson, Jaime [HYBRID]

**ASL& 122  AMERICAN SIGN LANGUAGE II**
Learn to communicate both expressively and receptively in American Sign Language in basic conversation situations. Prerequisite: ASL& 121.

0503  5 Cr  2:00PM-4:30PM  MW  09/26/16-12/16/16  17 240Wilson, Jaime [HYBRID]

**ARCHITECTURAL ENGINEERING DESIGN**

**ARC 121  DRAFTING & DESIGN**
Overview of floor plans, line types, and line weights, introduction to media, computer-aided drafting, codes, basic design concepts, and presentation drawings and techniques. Lab hours arranged. Prerequisites: English reading with comprehension, composition, and basic verbal skills.

Additional Fee: $51.50

6302  5 Cr  1:00PM-1:50PM  M  09/26/16-12/16/16  19 203Bushnell, Pop [ENHANCED]

**ARC 125  RESIDENTIAL DESIGN & DRAFTING**
Overview of basic residential design and specialized floor plans, exterior and interior elevations. Lab hours arranged. Prerequisites: ARC 123

Additional Fee: $51.50

6322  5 Cr  10:00AM-10:50AM  T  09/27/16-12/13/16  19 203Bushnell, Pop

**ARC 142  ARCHITECTURAL REPORTING II**
Includes investigation, research, diagrams, and detail drawing preparation on basic framing systems in house construction. Lab hours arranged. Prerequisites: ARC 181

Instructor permission required.

Additional Fee: $51.50
ARC 171  DRAFTING TECHNOLOGIES I
Basic manual drafting skills, orthographics, isometrics, and roof plans for basic design and construction necessary for residential design and printing completed drawings on industry standard hardware. Lab hours arranged. 
Prerequisites: English reading with comprehension, composition, and basic verbal skills. 
Instructor permission required. 
Additional Fee: $51.50

ARC 181  INTRODUCTION TO AUTOCAD
Use Windows based AutoCAD applications to produce basic design and production drawings and details, and to save and print drawings on industry standard hardware. Prerequisites: English reading with comprehension, composition, and basic verbal skills and basic keyboarding skills, 30 wpm, or Instructor permission. 
Instructor permission required. 
Additional Fee: $51.50

ARC 223  DESIGN PROJECT I
Project management and design of basic architectural drafting project. Project includes one-story house and placement on a subdivision lot, conforming to regulatory codes, hypothetical client needs, and established schedules. Production of a complete set of computer-drafted and engineered construction drawings. Give effective oral reports of progress. Prerequisites: ARC 173, ARC 181. 
Additional Fee: $27.00

ARC 227  SPECIAL INTERN PROJECT
Complete the written Work-Based Learning Experience Plan. Prerequisites: Instructor permission required. 
Instructor permission required. 
Additional Fee: $27.00

ARC 229  SPECIAL DESIGN PROJECT
Complete Special Design Project as assigned by the instructor to aid in Realistic Training. 231, ARC 281. 
Additional Fee: $51.50

ARC 255  EMPLOYMENT RESEARCH
Basic job-seeking skill activities, including résumé preparation, employer contacts, presentation activities, and employment opportunities. 
Additional Fee: $31.90

ARC 262  INTRODUCTION TO THREE DIMENSIONAL MODELING
Covers basic X, Y, and Z coordinate concepts and three dimensional digital building massing. Lab hours arranged. Prerequisites: ARC 181 
Additional Fee: $41.70
ARC 283 BUILDING INFORMATION MODELING
Covers utilization of Building Information Modeling (BIM) software interface, modeling, editing and annotation tools. Prerequisites: ARC 262, 281
Instructor permission required.
Additional Fee: $51.50
63F2 5 Cr 2:00PM-2:50PM MW 09/26/16-12/14/16 19 203 Lunceford, Ce [ENHANCED]

ARC 293 ENGINEERING STATICS
Beam loading, shear and moment diagrams, analysis, calculations, and selection of wood members for light framing. Material stress is computed. Lab hours arranged. Prerequisites: ARC 125, MAT 105 or higher.
Additional Fee: $27.00
63H2 5 Cr 2:00PM-2:50PM TTh 09/27/16-12/08/16 19 203 Lunceford, Ce [ENHANCED]

ARCHITECTURAL CAD DRAFTING (I-BEST)

ARC 121 DRAFTING & DESIGN
Overview of floor plans, line types, and line weights, introduction to media, computer-aided drafting, codes, basic design concepts, and presentation drawings and techniques. Lab hours arranged. Prerequisites: English reading with comprehension, composition, and basic verbal skills.
Additional Fee: $51.50
632A 5 Cr 1:00PM-1:50PM M 09/26/16-12/12/16 19 203 Bushnell, Pop [ENHANCED]

ARC 142 ARCHITECTURAL REPORTING II
Includes investigation, research, diagrams, and detail drawing preparation on basic framing systems in house construction. Lab hours arranged. Prerequisites: ARC 181
Instructor permission required.
Additional Fee: $51.50
632P 5 Cr 10:00AM-10:50AM Th 09/29/16-12/15/16 19 203 Lunceford, Ce [ENHANCED]

ARC 171 DRAFTING TECHNOLOGIES I
Basic manual drafting skills, orthographics, isometrics, and roof plans for basic design and construction necessary for residential design and printing completed drawings on industry standard hardware. Lab hours arranged. Prerequisites: English reading with comprehension, composition, and basic verbal skills.
Instructor permission required.
Additional Fee: $51.50
632D 5 Cr 8:30AM-9:45AM MTWTh 09/26/16-10/25/16 19 201 Bushnell, Pop [ENHANCED]

ARC 181 INTRODUCTION TO AUTOCAD
Use Windows based AutoCAD applications to produce basic design and production drawings and details, and to save and print drawings on industry standard hardware. Prerequisites: English reading with comprehension, composition, and basic verbal skills and basic keyboarding skills, 30 wpm, or Instructor permission.
Instructor permission required.
Additional Fee: $51.50
632N 5 Cr 8:30AM-9:45AM MTWTh 10/26/16-12/15/16 19 203 Lunceford, Ce [ENHANCED]
**ARC 253  EMPLOYMENT RESEARCH**
Basic job-seeking skill activities, including résumé preparation, employer contacts, presentation activities, and employment opportunities.
Instructor permission required.
Additional Fee: $36.80
632Y  2 Cr  1:00PM-1:50PM  W  09/28/16-12/14/16  19 203Bushnell, Pop [ENHANCED]

**ARC 283  BUILDING INFORMATION MODELING**
Covers utilization of Building Information Modeling (BIM) software interface, modeling, editing and annotation tools. Prerequisites: ARC 262, 281
Instructor permission required.
Additional Fee: $51.50
632B  5 Cr  2:00PM-2:50PM  MW  09/26/16-12/14/16  19 203Lunceford, Ce [ENHANCED]

**ART**

**ART& 100  ART APPRECIATION**
Introduce 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 artist’s materials, techniques.
0501  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Rendal, Cami [ONLINE]

**AUTOMOTIVE COLLISION TECHNICIAN**

**IAUT 102  INTRODUCTION TO AUTOMOTIVE ELECTRICAL**
This course is an introduction to the automotive industry. Students will learn about the industry, automobile safety, pollution and hygiene, basic hand tools, fasteners and resume preparation.
CO-REQUISITES
IAUT 104, IAUT 115, IAUT 130, and IAUT 139.
96AC  4 Cr  3:00PM-6:00PM  DAILY  09/26/16-12/16/16  03 402Tolson, Lesli
96S2  3 Cr  7:30AM-1:50PM  DAILY  09/26/16-12/16/16  03 402Tolson, Lesli
96X2  3 Cr  2:30PM-8:30PM  DAILY  09/26/16-12/16/16  03 402Staff

**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 and proper wire splicing and repairs.
CO-REQUISITES
IAUT 102, IAUT 115, IAUT 130, and IAUT 139.
96AD  4 Cr  3:00PM-6:00PM  DAILY  09/26/16-12/16/16  03 402Tolson, Lesli
96T2  4 Cr  7:30AM-1:50PM  DAILY  09/26/16-12/16/16  03 402Tolson, Lesli
96Y2  4 Cr  2:30PM-8:30PM  DAILY  09/26/16-12/16/16  03 402Staff
IAUT 115  INTRO TO AUTOMOTIVE STEERING, SUSPENSION & BRAKE
This course is an introduction to automotive steering, suspension and braking systems. Students will learn the basic theory of these systems, how to put a vehicle on a lift and perform inspections, and how to perform a four-wheel alignment.

CO-REQUISITES
IAUT 102, IAUT 104, IAUT 130, and IAUT 139.

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IAUT 130  AUTOMOTIVE HVAC
Students will learn auto HVAC system diagnosis and proper service techniques.

CO-REQUISITES
IAUT 102, IAUT 104, IAUT 115, and IAUT 139.

Additional Fee: $59.80

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IAUT 139  BASIC AUTOMOTIVE WELDING
This course is an introduction to automotive welding. Includes basic welding using Oxy-Fuel, MIG and other processes used in automotive repair.

CO-REQUISITES
IAUT 102, IAUT 104, IAUT 115, and IAUT 130.

Additional Fee: $74.50

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ACT 102  FUNDAMENTALS OF COLLISION REPAIR
Explore career safety, industry certifications, vehicle construction, and an overview of the career field.

Additional Fee: $45.70

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ACT 106  BODY SHOP EQUIPMENT
Covers operating hand tools, power tools, and shop equipment. Explore air systems and their design and function.

Additional Fee: $45.70

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<td>9612</td>
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<td>03 301</td>
<td>Freeman, Kurt</td>
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ACT 110  WELDING, HEATING, AND CUTTING
Covers the skills of welding, heating, and cutting as it relates to the Collision Industry.

Additional Fee: $50.60

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<td>03 301</td>
<td>Freeman, Kurt</td>
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ACT 115  PLASTIC/SMC REPAIR
Explore plastic, fiberglass, and SMC repairs as they relate to the Collision Industry.

Additional Fee: $50.60
Covers the practical skills used to repair/replace door locks and windows and to repair water leaks on car and truck bodies, interior parts, and door skin repair.
Additional Fee: $55.50

ACT 125  INTRODUCTION TO METAL STRAIGHTENING
Introduces basic body panel straightening techniques.
Additional Fee: $45.70

ACT 145  COLLISION ESTIMATING
Covers collision damage estimating, reviewing work orders, and acquiring work skills for job success.
Additional Fee: $55.50

ACT 151  REFINISH EQUIPMENT PREPARATION
Covers paint shop equipment and painting fundamentals.
Additional Fee: $60.40

ACT 156  PRE-PRIME PREPARATION
Explores corrosion protections and vehicle refinish preparation.
Additional Fee: $55.50

ACT 157  POST-PRIME PREPARATION
Explores final preparations, blocking, and final sanding for application of topcoat.
Additional Fee: $55.50

AUTOMOTIVE RESTORATION AND CUSTOMIZATION

ARCF 103  FUNDAMENTALS OF SHOP EQUIPMENT
Covers shop safety, fundamentals of tool use, and proper use of shop equipment.
Instructor permission required.
Additional Fee: $45.70

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.
Instructor permission required.
Additional Fee: $50.60
ARCF 114  BASIC REPAIRS AND ASSEMBLY
Covers basic repair and assembly procedures for bolt-on body components.
Instructor permission required.
Additional Fee: $70.20
17C2  8 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307 Freeman, Kurt

ARCF 119  CUSTOM FABRICATION
Explores basic customizing techniques used on original factory parts, as well as fabrication of custom parts.
Instructor permission required.
Additional Fee: $60.40
17D2  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307 Freeman, Kurt

ARCF 124  REFINISHING EQUIPMENT
Explores refinishing equipment use and maintenance.
Instructor permission required.
Additional Fee: $50.60
17F2  4 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306 Richards, G

ARCF 129  REFINISH PREPARATION
Explores corrosion protection and vehicle refinish preparation.
Instructor permission required.
Additional Fee: $65.30
1702  7 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306 Richards, G

ARCF 130  ADVANCED PAINT APPLICATION
Covers application of advanced masking, topcoat shading, and graphics on a restoration or custom project.
Instructor permission required.
Additional Fee: $60.40
17H2  Var7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306 Richards, G

ARCF 133  FIBERGLASS/COMPOSITES TECHNIQUES
Further develop skills in customizing techniques used on original factory parts, as well as fabrication of custom parts.
Instructor permission required.
Additional Fee: $60.40
17J2  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307 Freeman, Kurt

ARCF 134  CUSTOM REFINISHING
Covers top coat, clear coat, and custom refinishing.
Instructor permission required.
Additional Fee: $60.40
1712  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306 Richards, G

ARCF 141  SURFACE IMPERFECTIONS/SHOW AND SHINE
Covers paint application problem solving and show detailing.
Instructor permission required.
Additional Fee: $50.60
17L2  4 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306 Richards, G
ARCF 154  AUTOMOTIVE RESTORATION & CUSTOM LAB
Finish projects and competencies in restoration and/or customizing. 9 credits in summer quarter; variable credit, other three quarters.
Instructor permission required.
Additional Fee: $75.10
1722  9 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

ARCF 159  METAL STRENGTHENING AND SHAPING
Metal straightening and shaping techniques on a custom or restoration project.
Instructor permission required.
Additional Fee: $60.40
17N2  Var7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

ARCF 167  CUSTOM PAINT APPLICATION
Covers application of custom masking, topcoat shading, and graphics.
Instructor permission required.
Additional Fee: $45.70
17P2  3 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 306Richards, G

ARCF 168  APPLIED METAL SKILLS
Covers application of previously acquired metal skills as they relate to the student's project work.
Instructor permission required.
Additional Fee: $45.70
17Q2  3 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307Freeman, 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.
Instructor permission required.
Additional Fee: $60.40
17R2  Var7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 307Freeman, Kurt

AUTOMOTIVE TECHNICIAN

AUT 147  AUTOMOTIVE SUSPENSION AND STEERING
This module covers theory, diagnosis, and repair of SLA suspension systems, strut suspension systems, parallelogram steering systems, rack and pinion steering systems, rear suspension systems, and computer-controlled suspension systems.
Additional Fee: $60.40
4632  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 701Smith, Michael

AUT 149  AUTOMOTIVE SUSPENSION STEERING & WHEEL ALIGNMENT
Theory and troubleshooting of front suspension systems, steering systems, rear suspension systems, and computer controlled systems. Also covers basic wheel alignment, including two- and four-wheel alignment. Prerequisites: Must successfully complete AUT 147 and have required tools and textbooks.
Additional Fee: $65.30
4642  7 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 701Smith, Michael
AUT 157  AUTOMOTIVE SUSPENSION STEERING& WHEEL ALIGN LAB
Repair automotive brakes, steering and suspension systems by applying knowledge attained in required courses. This is a hands-on class that uses live projects.
Additional Fee: $60.40
4652  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 701 Smith, Michael

AUT 209  ELECTRONIC SYSTEMS
Diagnose and repair automotive electronic systems and basic application of computerized electronic control systems. Upon completion of this course, the student will be familiar with the terminology, basic theory, diagnostics, removal, and installation procedures used on automobiles and light trucks. Prerequisites: Must successfully complete AUT 203 and must have required tools and textbooks.
Additional Fee: $65.30
46A2  7 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 901 Covington, G

AUT 212  ELECTRICAL SYSTEMS
Diagnose and repair automotive electrical systems and study basic application of computerized electronic control systems. Upon completion of this course, the student will be familiar with the terminology, basic theory, diagnostics, removal and installation procedures used on automobiles and light trucks.
Additional Fee: $75.10
4692  9 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 901 Covington, G

AUT 239  CLUTCHES & MANUAL TRANSMISSIONS
Provides student with the knowledge and skills to competently repair automotive clutches and manual transmissions/transaxles. Upon completion of the course, the student will be familiar with the terminology, basic theory, diagnostics, maintenance, and repair of automobile/light truck clutches and manual transmissions/transaxles. Prerequisites: Must have required tools and textbooks.
Additional Fee: $31.00
4662  9 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 601 Bridges, Wayne [HYBRID]

AUT 243  AUTOMOTIVE AXLES, DRIVELINES, DIFFEREN&TRANSFER
Provides the student with the knowledge and skills to competently repair automotive axles, drivelines, differentials, and transfer cases. Upon completion of the course, the student will be familiar with the terminology, basic theory, diagnostics, maintenance and repair of automobile/light truck axles, drivelines, differentials, and transfer cases. Prerequisites: Must successfully complete AUT 239 and have required tools and textbooks.
Additional Fee: $31.00
4672  6 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 601 Bridges, Wayne [HYBRID]

AUT 246  MANUAL DRIVE TRAINS & AXLES LAB
This course is designed to teach the student to competently repair drive train components by applying knowledge attained in required courses. This is a hands-on class, utilizing live projects. Upon completion of this course, the student will be familiar with diagnosis, maintenance, and repair of automobile/light truck manual drive trains. Prerequisites: Must successfully complete courses AUT 239, 243 and must have required tools and textbooks.
Additional Fee: $31.00
4682  4 Cr  7:30AM-1:50PM  DAILY 09/26/16-12/16/16 03 601 Bridges, Wayne [HYBRID]

AUT 255  AIR-CONDITIONING, HEATING & VENTILATION
Theory, troubleshooting, and repair of automotive air-conditioning systems, heating systems, and ventilation systems. Also covers recovery and recycling of both R-12 and R134A refrigerants. Prerequisites: Must successfully complete AUT 203, 209, and have required tools and textbooks.

Additional Fee: $60.40

AUT 295 AUTOMOTIVE TECHNICIAN COOPERATIVE TRAINING
Cooperative Training may be offered to selected students who meet the guidelines and criteria for this work-based learning experience.
Instructor permission required.
Additional Fee: $31.00

FAUT 144 FORD BASIC ELECTRICAL SYSTEMS DIAGNOSIS AND TEST
Diagnose and repair automotive electrical systems using the Symptom-to-System-to-Component-to-Cause process. Use special tools and service equipment associated with electrical diagnosis and repair. Use all service publications in their available formats to obtain needed information for diagnosis. Perform diagnosis test procedures. Perform repair procedures. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal and installation procedures used during common service operations and will have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) task list.
PREREQUISITES
Students must have required textbooks and tools prior to entering this course. Students must have a valid driver’s license per the Ford MLR agreement.

CO-REQUISITES
Concurrent enrollment in FAUT 212 and FAUT 209 is required.
Additional Fee: $179.40

FAUT 209 FORD ELECTRONIC SYSTEMS
Diagnose and repair automotive electronic systems and basic application of computerized electronic systems. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal, and installation procedures used during common service operations and have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) “TASK LIST”.
PREREQUISITES
Students must have required tools and textbooks. Students must have a valid driver’s license per the Ford MLR agreement.

CO-REQUISITES
Concurrent enrollment in FAUT 144 and FAUT 212 is required.
Additional Fee: $65.30

FAUT 212 FORD ELECTRICAL SYSTEMS
Diagnose and repair automotive electrical systems and basic application of electrical systems. Students will become familiar with the tools, terminology, basic theory, diagnostics, removal, and installation procedures used during common service operations and have the opportunity to practice procedures identified as priority tasks in the NATEF (ASE) “TASK LIST”.
PREREQUISITES
Students must have required tools and textbooks. Students must have a valid driver’s license per the Ford MLR agreement.

CO-REQUISITES
Concurrent enrollment in FAUT 144 and FAUT 209 is required.

Additional Fee: $75.10

4612 9 Cr 7:30AM-1:50PM DAILY 09/26/16-12/16/16 03 801 Brown, David

AVIATION MAINTENANCE TECHNICIAN

AMT 104 BASIC MATHEMATICS, BASIC PHYSICS, AND WEIGHT & BALANCE
Perform all of the mathematical computations required in the Aviation Maintenance Technician curriculum. Understand the scientific principles that apply to the operation of aircraft, engines and the equipment that the aviation maintenance technician will be in daily contact with. 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: $74.50

4402 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

AMT 116 AIRCRAFT DRAWINGS, CLEANING & CORROSION CONTROL, GROUND OPERATIONS & SERVICING, AND FLUID LINES & FITTINGS
Sketch aircraft repairs and alterations and understand information presented on typical aircraft blueprints, graphs, and charts. Recognize types of corrosion and know their causes identify and use the proper materials and processes to remove corrosion by-products, treat corroded areas, and apply proper protection. Gain a thorough understanding of the importance of safe ground handling procedures, aircraft movement and storage, and identify aviation fuels. Identify fluid line components, fabricate rigid and flexible fluid lines, and properly install fluid lines on aircraft.

Additional Fee: $74.50

4412 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

AMT 119 MATERIALS & PROCESSES
Learn about identification and selection of non-destructive testing methods, dye-penetrant, eddy current, ultrasound, and magnetic particle inspections, as well as basic heat-treated processes, aircraft hardware, and materials. Inspect and check welds. Perform precision measurements.

Additional Fee: $74.50

4422 5 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

AMT 127 MAINTENANCE FORMS & RECORDS, PUBLICATIONS, AND MECHANICS PRIVILEGES & LIMITATIONS
Generate and review FAA maintenance forms, records, entries, Publications and Regulations, including Airworthiness Directives, Mechanic Privileges and Limitations.

Additional Fee: $69.60

4432 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC116 Doyon, Greg

AMT 132 WOOD STRUCTURES, AIRCRAFT COVERINGS, AND FINISHES

Additional Fee: $69.60

4442 4 Cr 7:00AM-1:00PM DAILY 09/26/16-12/16/16 SHC117 Potter, Mike
AMT 135  AIRCRAFT SHEET METAL STRUCTURES
Inspection and repair of all types of sheet metal. Information regarding the fabrication, construction, and repair of sheet metal aircraft structures.
Additional Fee: $69.60
4452  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC117  Potter, Mike

AMT 136  WELDING, POSITION & WARNING SYSTEMS
Principles regarding the fabrication, construction, and repair of welded aircraft structures. Principles of operation of speed and configuration warning systems, electrical brake controls, anti-skid systems, and landing gear position indicating and warning systems.
Additional Fee: $64.70
4462  3 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC117  Potter, Mike

AMT 137  AIRCRAFT NON-METALIC STRUCTURES
Covers inspection and repair of all types of non-metallic and composite structures, including transparent plastic enclosures and interiors.
Additional Fee: $69.60
4472  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC117  Potter, Mike

AMT 138  AIRCRAFT INSPECTIONS
Lecture, demonstration, and practical application are used to train the student in the methods and techniques of all phases of aircraft inspections, federal aviation regulations, maintenance record entries, and disposition of those records.
Additional Fee: $69.60
4492  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC118  Creech, Daniel

AMT 139  ASSEMBLY & RIGGING
Covers basic information regarding the assembly of aircraft, components, rigging of all flight control surfaces, balancing and inspection of flight controls, alignment of aircraft structures, and jacking of aircraft.
Additional Fee: $69.60
4482  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC117  Potter, Mike

AMT 208  HELICOPTER OPERATIONS AND MAINTENANCE PRACTICES
Covers history, operations, regulations, publications, records, special use equipment, and basic maintenance fundamentals, as they relate to rotorcraft.
Additional Fee: $69.60
44A2  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC118  Creech, Daniel

AMT 210  BASIC ROTOR SYSTEM MAINTENANCE AND REPAIR
Covers history of rotorcraft and principles of flight; types and function of rotor systems; overhaul of rotor hub assemblies; installation and static balancing of rotors; types and function of anti-torque control systems; inspection of rotor blades using manufacturer’s data.
Additional Fee: $69.60
44B2  4 Cr  7:00AM-1:00PM  DAILY 09/26-12/16/16  SHC118  Creech, Daniel

AMT 212  ADVANCED ROTOR SYSTEMS MAINTENANCE AND REPAIR
Covers vibration analysis; installation and dynamic balancing of rotor systems; tracking of helicopter rotor blades; principles of helicopter autorotation and adjustment of autorotation RPM for power off operations. Additional Fee: $69.60

**AMT 215** HELICOPTER SYSTEMS
Covers helicopter power plants and controls; fuel systems, turbine fuels, and fuel system components; oil systems and types of oils; mechanical drives, clutches, drive shafts, freewheeling units, and transmissions; flight controls, hydraulic, and instrument systems; rotor rpm, engine out, and master caution and warning systems; electrical systems, NiCad batteries, and starter generators; fuselage structures, and landing gear. Additional Fee: $69.60

**AMT 224** POWERPLANT RECIPROCATING ENGINE THEORY
Covers the history of aircraft engines, principles of energy transformation, theory of operation, engine requirements and configuration, and overhaul of horizontally opposed engines. Additional Fee: $79.40

**AMT 225** POWERPLANT MAINTENANCE AND OPERATION
Power plant maintenance and operation consists of theory of operation, engine requirements and configuration and installation, troubleshooting and removal of horizontally opposed engines. Additional Fee: $79.40

**AMT 226** ENGINE FUEL SYSTEMS AND FIRE PROTECTION
Fuel systems and fire protection consists of transformation of energy, chemistry of combustion and thermal efficiency of fuel air mixtures. Fire protection covers the components and the operation of fire detection and extinguishing equipment. Additional Fee: $54.90

**AMT 228** ENGINE FUEL METERING SYSTEMS
Fuel metering consists of the principles of fuel metering for float carbs, pressure carb, fuel injection, and detonate injection, turbine fuel controls, and electronic engine fuel controls. Additional Fee: $74.50

**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.

**Fall Lab times for item number 0504 will be Wednesdays and Fridays from 9:00 a.m. to 10:00 a.m.**

**Fall Lab times for item number 0505 will be Wednesdays and Fridays from 11:00 a.m. to 12:00 p.m.**

Additional Fee: $30.00
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.

Fall lab days for item number 0506 are Wednesday and Friday and the times are arranged

Fall lab days for item number 0507 are Tuesday and Wednesday from 8:00 a.m. to 10:50 a.m.

Additional Fee: $30.00

BIOL&241  ANATOMY & 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. Laboratory component included.

Fall quarter lab times for item number 0508 are Monday and Wednesday from 8:00 a.m. to 10:50 a.m.
Fall quarter lab times for item number 0509 are Monday and Wednesday from 11:00 a.m. to 1:50 p.m.

Additional Fee: $30.00

BIOL&242  HUMAN ANATOMY & 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. Laboratory component included.

Fall Lab times for item number 0510 will be Tuesday and Thursday from 8:00 a.m. to 10:50 a.m.

Additional Fee: $30.00

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. Includes laboratory.

Fall Lab times for item number 0511 will be Tuesday and Wednesday the times are arranged

Additional Fee: $30.00

CENTRAL SERVICE/STERILE PROCESSING

MMN 103  INTRODUCTION TO HEALTHCARE
Covers overall program content, including policies, procedures, philosophy, and terminal objectives. The history and evolvement of the Central Service profession, human relations, legal issues, and regulatory agencies affecting the field are explored. Web enhanced.

8302  3 Cr  8:00AM-3:00PM  MWTh 09/26/16-10/17/16  21 107 Wagers, Jane [ENHANCED]
MMN 106   ANATOMY & PHYSIOLOGY/MEDICAL TERMINOLOGY
Explore the overall makeup of the human body, its systems and functions, related medical and surgical terminology. Surgical instrumentation is introduced. Web enhanced. Prerequisite: Completion of MMN 103.  
8312  4 Cr  8:00AM-3:00PM  MWTh 10/17/16-11/02/16  21 107 Wagers, Jane [ENHANCED]

MMN 111
Examination of human pathogens in microbiology. Students will learn about infection control as it relates to the sterilization and disinfection processes. Safety issues in the healthcare environment are covered, including bloodborne pathogens. This unit satisfies the Washington state law for mandatory HIV training for all medical personnel. Web enhanced. 
8322  3 Cr  8:00AM-3:00PM  MWTh 11/02/16-11/21/16  21 107 Wagers, Jane [ENHANCED]

MMN 124   SURGICAL INSTRUMENTATION
Students learn to identify basic and complex surgical instruments. They will demonstrate thorough knowledge of the manufacture, care, and processing of surgical, endoscopic and power instruments. In addition, students will have an understanding of special protocols required with loaner instruments. Web Enhanced. Prerequisite: MMN 103, 106, 111.  
8332  4 Cr  8:00AM-3:00PM  MWTh 11/21/16-12/15/16  21 107 Wagers, Jane [ENHANCED]

MMN 213   CLINICAL INTERNSHIP I
Provides the student with the opportunity to apply the theories and principles of central service and sterilization learned in the classroom to the actual work experience in a central service, sterile processing, or distribution department. The role of the central service technician in a hospital central service/sterile processing department will be the focus. In order to participate in the clinical aspect of the program, students must receive a clear background check as required by the health care facilities, have proof of current immunizations, complete CPR for health care professionals, be able to lift 50 pounds, and be able to work on their feet for up to 8 hours. PREREQUISITES: Successful completion of MMN 103, MMN 106, MMN 111, MMN 124, MMN 126, MMN 129, MMN 132.  
Additional Fee: $14.00  
8342  6 Cr  ARR  DAILY 09/26/16-10/28/16  ARR  Wagers, Jane [ENHANCED]

MMN 215   CLINICAL INTERNSHIP II
Continued participation in the clinical setting at local facilities allows the student to gain a variety of experiences in Central Service/Sterile Processing and Materiel Management. Requirements are the same as MMN 213. PREREQUISITES  
Successful completion of MMN 213.  
Additional Fee: $14.00  
8352  6 Cr  ARR  DAILY 11/07/16-12/09/16  ARR  Wagers, Jane

CHEMISTRY

CHEM&110   CHEMICAL CONCEPTS W/LAB
Applying the chemical principles to energy usage, environmental impact, foods, drugs, and consumer products are emphasized. An introduction to chemistry intended for non-science majors. The course looks at how models of atoms, bonding and the structures of materials provide an understanding of common chemical properties and reactions. Prerequisite: MAT 099 or higher or appropriate COMPASS placement concurrently with this course.  
Additional Fee: $35.00  
0512  5 Cr  ARRANGED 09/26/16-12/16/16  ARR  Celleri [HYBRID]  
0513  5 Cr  ARRANGED 09/26/16-12/16/16  ARR  Celleri [HYBRID]
CHEM&121  INTRODUCTION TO CHEMISTRY
Understanding the metric system, atomic theory, bonding, quantitative relationships, solutions, gases, acids and bases, salts, and nuclear chemistry. Lab included.
**Fall Quarter lab times for item number 0514 will have lab times on Fridays from 8:00 a.m. to 9:50 a.m.**

**PREREQUISITES**
Successful completion of CHEM& 110 or high school chemistry; co-requisite: MAT 099 or higher or appropriate COMPASS placement concurrently with this course.

Additional Fee: $35.00

0514  5 Cr  ARRANGED  09/26/16-12/16/16  ARR  Celleri [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.

**For Fall Quarter item number 0570 lab day is Friday from 2:00 p.m. to 3:50 p.m.**

**PREREQUISITES:** Successful completion of CHEM& 121.

Additional Fee: $35.00

0570  5 Cr  ARRANGED  09/26/16-12/16/16  15 105 Celleri

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 utilizes CANVAS CPTC’s online learning management system to get students familiar 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 a component on using SALT for financial planning. Beginning in Fall 2016, this course is mandatory for all new students.

**PREREQUISITES**
None, but required for all students.

This course requires attendance at the opening session on September 20th, 2016 from 9 a.m. to 1:30 p.m. in the Student Center in Building 23.

Additional Fee: $25.00

2P02  3 Cr  7:00AM-7:50AM  DAILY  09/28/16-11/02/16  14 201 Van Beek, Car [HYBRID]
2P12  3 Cr  8:00AM-8:50AM  TWTh  09/27/16-12/13/16  14 104 Perkins, Petr [HYBRID]
2P32  3 Cr  9:00AM-9:50AM  TWTh  09/27/16-12/13/16  15 112 Holster, Elaine [HYBRID]
2P42  3 Cr  9:00AM-9:50AM  TWTh  09/27/16-12/13/16  16 116 Mollas, Tula [HYBRID]
2P72  3 Cr  10:00AM-10:50AM  TWTh  09/27/16-12/13/16  14 104 Wirth, Alexandra [HYBRID]
2P62  3 Cr  10:00AM-10:50AM  MWF  09/26/16-12/16/16  15 112 Holster, Elaine [HYBRID]
2P82  3 Cr  11:00AM-11:50AM  MWF  09/27/16-12/13/16  15 112 Holster, Elaine [HYBRID]
2P92  3 Cr  11:00AM-11:50AM  TWTh  09/27/16-12/13/16  16 205 Schwarder, C [HYBRID]
2PA2  3 Cr  12:00PM-12:50PM  TWTh  09/26/16-12/13/16  16 205 Schwarder, C [HYBRID]
2PB2  3 Cr  12:00PM-12:50PM  TWTh  09/27/16-12/13/16  14 104 Staff [HYBRID]
### COMPUTER APPLICATIONS

**CAS 105  KEYBOARDING**

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

Additional Fee: $14.70

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<tr>
<th>Course</th>
<th>Credits</th>
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<td>Wilson, Jacki</td>
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<td>09/26/16</td>
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<td>09/26/16</td>
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<td>Reygers, Ryan</td>
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**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

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<tr>
<th>Course</th>
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**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

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<tr>
<th>Course</th>
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<td>Westerberg, R</td>
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**CAS 125  WORD II**

Explore advanced word processing with Microsoft Word. Perform mail merges; create styles; use advanced graphics tools; create basic forms with formulas; and utilize advanced report functions including indexes. Create macros and modify the Word environment. Prerequisite: CAS 120

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<th>Course</th>
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**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: Math 82 skills preferred.

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<th>Course</th>
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<td>Calip, Vincent</td>
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**CAS 135  EXCEL II**

Use advanced spreadsheet features and functions to analyze and project data. Learn how to use what-if analysis tools such as scenarios and solver. Create macros; validate data; link worksheets/books; use pivot tables; find errors; and share, merge, and protect workbooks. Prerequisite: CAS 130.

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<tr>
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<td>Westerberg, R</td>
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</table>
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.

20A2  3 Cr  ARRANGED  09/26-12/16/16 ON LINE  Westerberg, R [ONLINE]
20B2  3 Cr  1:00PM-1:50PM  MW  09/26-12/16/16  11 112 Calip, Vincent [HYBRID]

CAS 145  PUBLISHER
Explore desktop publishing in this project-based class. Create and edit flyers, newsletters, brochures, logos, calendars, Web pages, 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.

20C2  5 Cr  ARRANGED  09/26-12/16/16 ON LINE  Westerberg, R [ONLINE]
20D2  5 Cr  1:30PM-2:20PM  TTh  09/27-12/16/16  11 112 Calip, Vincent [HYBRID]

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.

20F2  3 Cr  ARRANGED  09/26-12/16/16 ON LINE  Westerberg, R [ONLINE]

COMPUTER PROGRAMMING AND WEB DEVELOPMENT

CPW 101  PROGRAMMING FUNDAMENTALS
This course is an introduction to programming concepts that enforces good programming style and logical thinking. Designed for students with little or no programming language experience, it begins with basic general programming concepts and key concepts of structure. Course then progresses to the intricacies of decision-making, looping, array manipulation, and methods.

Additional Fee: $24.50
5402  5 Cr  12:30PM-3:30PM  MW  09/27-12/15/16  11 111W  Meerdink, Ken [ENHANCED]

CPW 116  .NET PROGRAMMING
Learn to program using .NET Framework with focus on desktop and console applications. Use decision structures, loops, and arrays to solve problems. Apply exception handling and data validation to programs. Use the predefined libraries in .NET Framework to solve problems. Create methods and learn to pass and return arguments. Create classes and use the classes as objects in programming. Use databases to store and retrieve the data from the applications.

PREREQUISITES
CPW 142, CPW 150.

Additional Fee: $24.50
5412  5 Cr  8:30AM-11:30AM  MW  09/26-12/14/16  11 111E  Ortiz, Joseph [ENHANCED]

CPW 120  WEB GRAPHICS
Use Photoshop to make your website attractive and fast loading. Use Illustrator to make logos and graphical elements for both interface design and vector animations. Use Flash for banner and sidebar advertisements.

Additional Fee: $24.50
**CPW 143  JAVA OBJECT-ORIENTED PROGRAMMING II**

Build your problem-solving skills with the fundamental concepts and techniques of object-oriented Java programming in analyzing, designing, and implementing computer programs. Practice problem-solving methods and algorithm development to analyze, design, implement, modify, verify, and document computer programs that solve real-world problems. Develop a good conceptual understanding of data and functional abstraction.

**PREREQUISITES**
Successful completion of CPW 142.

Additional Fee: $24.50

**CPW 150  PRINCIPLES OF RELATIONAL DATABASES**

Delve into the fundamental concepts, terminologies, methodologies, and system organizations of database management systems. Develop the theoretical foundation of understanding necessary to design, implement, optimize, query and maintain a database system. Propose, design and develop a database, using a relational database management system to reinforce the theoretical concepts.

Additional Fee: $24.50

**CPW 180  INTRODUCTION TO GAME PROGRAMMING**

Experience the ultimate challenge of computer gaming: designing and creating your own computer games. Develop an introductory academic understanding of the various aspects of the game development process, while applying basic object-oriented programming techniques to create your own tangible first product.

**PREREQUISITES**
Successful completion of CPW 143 or CPW 116.

Additional Fee: $24.50

**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.

**PREREQUISITES**
Successful completion of CPW 143.

Additional Fee: $24.50

**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.

**PREREQUISITES**
Successful completion of CPW 101, CPW 150.

Additional Fee: $24.50
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.
PREREQUISITES
Successful completion of CPW 116.
Additional Fee: $24.50
5482  5 Cr  ARRANGED  09/27/16-12/14/16  11 111E  Ortiz, Joseph [ENHANCED]

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.
PREREQUISITES
Or Co-requisite CPW 229 or CPW 214.
Additional Fee: $24.50
5492  5 Cr  12:30PM-3:30PM  TTh  09/27/16-12/15/16  11 106Dague, Bruce [ENHANCED]

CPW 220  WEB DEVELOPMENT I
Introduction to PHP scripting, one of the most popular development tools on the web. This course demonstrates using this tool to create dynamic web-based applications. Provides experience using sessions, cookies and web forms to build easily maintainable, interactive and e-commerce enabled sites.
PREREQUISITES
Successful completion of CPW 206.
Additional Fee: $24.50
54A2  5 Cr  8:30AM-11:30AM  TTh  09/27/16-12/15/16  11 106Dague, Bruce [ENHANCED]

CPW 229  WEB DEVELOPMENT III
Combines further studies using PHP scripting and MySQL, one of the most popular open-source database management systems on the web. Explores back-end functionality, interacting with databases and creating dynamic web pages.
PREREQUISITES
Successful completion of CPW 227.
Additional Fee: $24.50
54B2  5 Cr  8:30AM-11:30AM  MW  09/26/16-12/14/16  11 106Dague, Bruce [ENHANCED]

CPW 250  USER INTERFACE DESIGN
Build a web interface structure that uses the principles of responsive web design and allows the structure to automatically reformat itself based on the size of the viewport (smartphone, computer, iPad). Use a combination of HTML 5, CSS3, media queries, and jQuery working together to make a responsive web design
PREREQUISITES
Successful completion of CPW 118, CPW 120.
Additional Fee: $24.50
54D2  5 Cr  12:30PM-3:30PM  MW  09/26/16-12/14/16  11 107Webster, Mark [ENHANCED]

CPW 252  PHONE PROGRAMMING
 Covers the concepts involved with programming on the phone — source control, phone emulators, phone APIs, and deployment.
PREREQUISITES
Successful completion of CPW 143.

Additional Fee: $24.50
54F2  5 Cr   8:30AM-11:30AM   TTh   09/26-12/14/16   11 111W   Meerdink, Ken [ENHANCED]

COMPUTER NETWORKING AND INFORMATIONS SYSTEMS SECURITY

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: $74.50
4702  5 Cr  8:00AM-3:00PM   MWF   09/26-11/02/16   16 107Morris, Cath [ENHANCED]
47U2  5 Cr  6:00PM-9:00PM   W   09/28-11/02/16   16 207Lanphier, Jay [HYBRID]

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. Prerequisites: NSS 101 or equivalent knowledge and skills. Additional Fee: $69.60
4712  4 Cr  8:00AM-3:00PM   MWF   11/04-12/16/16   16 107Morris, Cath [ENHANCED]
47V2  4 Cr  6:00PM-9:00PM   W   11/09-12/14/16   16 207Lanphier, Jay [HYBRID]

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: $74.50
4722  5 Cr  12:00PM-3:00PM   TTh   09/27-12/15/16   16 209Souza, Donald [ENHANCED]
47W2  5 Cr  6:00PM-9:00PM   W   09/28-12/14/16   16 209Souza, Donald [HYBRID]

NSS 120    MS DESKTOP SUPPORT I
Introduces the student to the knowledge, skills, and tasks necessary to troubleshoot basic problems computer users will face while running a desktop operating system. Additional Fee: $74.50
4732  5 Cr  8:00AM-3:00PM   MWF   09/26-11/02/16   16 207Lanphier, Jay [ENHANCED]

NSS 125    MS DESKTOP SUPPORT II
Introduces the student 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 in an enterprise environment. Prerequisites: NSS 120 or equivalent knowledge and skills. Additional Fee: $69.60
4742  4 Cr  8:00AM-3:00PM   MWF   11/04-12/16/16   16 207Lanphier, Jay [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: $69.60

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: $69.60

NSS 140 INTRO TO DATA ANALYSIS
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: $74.50

NSS 144 INTRODUCTION TO MICROSOFT SQL SERVER ADMINISTRAT
Introduces you to the development and skills required to successfully administer an SQL Server database. This course covers system installation and configuration/architecting, implementation and monitoring security controls, configuring and managing network communications, automating administrative task, disaster prevention and recovery, performance monitoring, optimizing and ensuring high availability.

Additional Fee: $69.60

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: $69.60

NSS 160 INTRODUCTION TO LINUX
Introduces the fundamentals of the UNIX operating system, concepts, architecture, and administration. The student will practice these basic concepts and approaches using LINUX.

Additional Fee: $74.50

NSS 162 ADMINISTERING WINDOWS SERVER OS
Introduces the knowledge and skills necessary for systems administrators to successfully implement core services in windows server operating systems. Provides hands-on exercises where students learn to configure and manage a wide range of services, including Windows deployment services, distributed file systems, and backup and recovery procedures. Provides guidance for students pursuing industry certification.
PREREQUISITES
Successful completion of NSS 139 or instructor permission.
Additional Fee: $69.60
47B2 4 Cr 8:00AM-11:00AM MWF 09/26-12/16 16 109 Souza, Donald [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.

PREREQUISITES
Successful completion of CompTIA’s A+ and Network+ certifications or equivalent training.
Additional Fee: $69.60
47C2 4 Cr 8:00AM-10:30AM TTh 09/27-12/15 16 111 Hollowell, Kelly

NSS 165 CONTINGENCY PLANNING
Course consists of an introduction to Disaster Recovery, and Contingency Planning from an Information Technology (IT) aspect. It covers Risk Assessment, Hazard Analysis, Business Impact Analysis, Basic Plan Development, Long-Range Contingency Planning, all which provides basic concepts and recommended process for long-range contingency planning.

Additional Fee: $69.60
47D2 4 Cr 12:00PM-2:00PM TTh 09/27-12/15 16 107 Morris, Cath

NSS 180 INTERNSHIP I
Gain on-the-job practical field experience combining classroom study with related work experience under the supervision of an employer. Includes scheduled seminars.

Additional Fee: $59.80
47F2 2 Cr ARRANGED 09/26-12/16 16 112 Randall, Jody [ENHANCED]

NSS 201 ADVANCED LINUX
Covers advanced fundamentals of the Linux operating system. The operating system of the Internet, 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. Prerequisites: Successful completion of NSS 160.

Additional Fee: $74.50
47G2 5 Cr 8:00AM-11:00AM MWF 09/26-12/16 16 111 Hollowell, Kelly [ENHANCED]

NSS 205 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.

PREREQUISITES
Successful completion of NSS 162 Administering Windows Server OS or instructor permission.

Additional Fee: $74.50
47H2 5 Cr 12:00PM-3:00PM MWF 09/26-12/16 16 109 Souza, Donald [ENHANCED]
NSS 250  INTERNSHIP II
This course provides practical field experience in a security-related specialty area. Includes a scheduled seminar.
Additional Fee: $59.80
47J2  2 Cr  ARRANGED  09/26/16-12/16/16  16 112Randall Jody [ENHANCED]

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: $69.60
47K2  4 Cr  8:00AM-12:00PM  MTWTh  11/14/16-12/15/16  16 112Randall 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: $64.70
47M2  3 Cr  8:00AM-12:00PM  F  09/30/16-12/16/16  16 112Randall Jody

NSSB 246  SCRIPTING FOR PENETRATION TESTERS
Introduces scripting languages used for one-off programming jobs or prototyping, its 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: $74.50
47L2  5 Cr  8:00AM-12:00PM  MTWTh  09/26/16-11/10/16  16 112Randall Jody

NSSC 201  CISCO NETWORKING II
The second of four courses in the Cisco Networking Academy curriculum, which teaches networking concepts by applying them to a type of network students may encounter on the job in a small-to-medium business or ISP. Prerequisites: Successful completion of NSSC 200.
Additional Fee: $74.50
47P2  5 Cr  8:00AM-11:00AM  MWF  09/26/16-11/02/16  16 209Turner, Jeffrey [ENHANCED]
47X2  5 Cr  6:00PM-9:00PM  W  09/28/16-12/14/16  16 209Turner, Jeffrey [HYBRID]

NSSC 203  CISCO NETWORKING III
The third of four courses in the Cisco Networking Academy curriculum, which familiarizes students with the equipment, applications, and protocols installed in enterprise networks, with a focus on switching, routing, IP addressing, WAN technologies, and security. Prerequisites: Successful completion of NSSC 201
Additional Fee: $74.50
47Y2  5 Cr  6:00PM-9:00PM  W  09/28/16-12/14/16  16 209Turner, Jeffrey [HYBRID]
47N2  5 Cr  8:00AM-11:00AM  MWF  11/04/16-12/16/16  16 209Turner, Jeffrey [ENHANCED]

NSSC 205  CISCO NETWORKING IV
The last of four courses in the Cisco Networking Academy curriculum, which takes the student through a variety of case studies and role playing exercises, which include gathering requirements, designing basic networks,
establishing proof-of-concept, and performing project management. Prerequisites: Successful completion of NSSC 203
Additional Fee: $74.50
47R2 5 Cr  8:00AM-11:00AM TThF 09/27/16-11/01/16 16 209 Turner, Jeffrey [ENHANCED]
47Z2 5 Cr  6:00PM-9:00PM  W 09/28/16-12/14/16 16 209 Turner, Jeffrey [HYBRID]

**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. Prerequisites: Concurrently enrolled in NSSC 200 (Cisco Networking I) &
NSSC 201 (Cisco Networking II).
Additional Fee: $64.70
47S2 3 Cr 12:00PM-3:00PM  MWF 09/26/16-12/16/16 16 209 Turner, Jeffrey

**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.
PREREQUISITES
Successful completion of NSSC 205 or current CCENT certification.
Additional Fee: $74.50
47Q2 5 Cr 8:00AM-11:00AM TThF 11/03/16-12/16/16 16 209 Turner, Jeffrey [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. Prerequisites: Concurrently enrolled in NSSC 203 (Cisco Networking III) &
NSSC 205 (Cisco Networking IV).
Additional Fee: $64.70
47T2 3 Cr 12:00PM-3:00PM TThF 09/27/16-12/16/16 16 209 Turner, Jeffrey

**CONSTRUCTION**

**CONST105  MEASUREMENT, TOOLS & SAFETY**
Introduction to residential and light construction applications and trades. Explores and applies safety standards
to the use of various hand and power tools associated with the carpentry field.
Additional Fee: $31.00
2202 2 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Staff

**CONST108  SITE LEVELING, PLANS, CODES & MATERIALS**
Introduction to use and operation of a builder level, including leveling and squaring a building site. Covers
building plans, codes, inspections, and construction materials.
Additional Fee: $31.00
2212 2 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Staff

**CONST112  FOOTINGS & FOUNDATIONS**
Introduction to the methods of construction footing and foundation forms, terminology and inspections for the
typical residential home.
Additional Fee: $31.00
2222 3 Cr 8:00AM-2:30PM DAILY 09/26/16-12/16/16 05 100 Staff
**CONST116  FLOOR FRAMING**
Introduction to the construction procedures and terminology used in framing a residential wood floor.
Additional Fee: $31.00
2232  3 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST120  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: $31.00
2242  5 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST122  ROOF FRAMING**
Introduction to roof framing and the use of a framing square, including both truss roof and stick-built residential roofs.
Additional Fee: $31.00
2252  5 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST126  ROOFING MATERIALS & INSTALLATION**
Introduction to various roofing materials, including proper installation techniques.
Additional Fee: $31.00
2262  3 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST130  STAIRWAY CONSTRUCTION**
Introduction to basic stair construction, including the application of building codes, stairway arrangements, component, and layout.
Additional Fee: $31.00
2272  4 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST134  EXTERIOR FINISH**
Introduction to the installation of exterior trim, siding, window and door installation, or the equivalent, of typical residential homes.
Additional Fee: $31.00
2282  3 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST138  INTERIOR FINISH I**
Introduction to interior wall and ceiling finish, interior doors and hardware, cabinet and counter top installation, interior trim, and finish flooring.
Additional Fee: $31.00
2292  3 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST142  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: $31.00
22A2  3 Cr  8:00AM-2:30PM  DAILY 09/26-12/16/16 05 100Staff

**CONST146  DECK CONSTRUCTION**
Introduction to outside deck construction, including types, code requirements, and safety.
Additional Fee: $31.00
CONSTRUCTION- SUSTAINABLE BUILDING SCIENCE

SBS 140 INSULATION BASICS
Introduction to the different types of insulation commonly used in homes and businesses, with comparisons for their respective costs and levels of energy efficiency.
Additional Fee: $31.00
22D2  4 Cr  12:00PM-2:30PM  DAILY 09/26/16-12/16/16 05 100Staff

SBS 145 BUILDING ENVELOPE
Introduction to the principles of heat, light, sound, moisture, and air movement within a residential structure, including an overview of external factors which impact a building's energy integrity.
Additional Fee: $31.00
22F2  5 Cr  12:00PM-2:30PM  DAILY 09/26/16-12/16/16 05 100Staff

SBS 185 SERVICE LEARNING PROJECT
A capstone project that gives students an opportunity to apply their sustainable building science knowledge in a real life setting, focusing on helping nonprofit organizations achieve sustainability in the buildings where they live, work, and serve the public.
Instructor permission required.
Additional Fee: $31.00
22G2  3 Cr  ARRANGED  09/26/16-12/16/16 05 100Staff

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
3002  5 Cr  9:00AM-9:50AM  DAILY 09/26/16-12/16/16 21 106Freyre, Marie
3012  5 Cr  ARRANGED  09/26/16-12/16/16 ON LINE Freyre, Marie [ONLINE]
3022  5 Cr  ARRANGED  09/26/16-12/16/16 ON LINE Scott, Patricia [ONLINE]
3032  5 Cr  ARRANGED  09/26/16-12/16/16 ON LINE Freyre, Marie [ONLINE]
Provides an overview of Law & Ethics a student should know to help provide competent, compassionate care to patients.

3042  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Freyre, Marie [ONLINE]

**CAH 105  COMPUTER APPLICATIONS**
Provides training in the uses of Microsoft Windows and related programs. Students will use computers to develop touch control and proper keyboarding and 10-key techniques.
Additional Fee: $24.50

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**COSMETOLOGY**

**COSMO112  INFECTION CONTROL PRINCIPLES AND PRACTICES**
Acquire knowledge for successful and responsible infection control, first aid, and safety. Learn concepts of microbiology, safe handling of tools, proper dispensing of chemicals, Barbicide certification and how to prevent the spread of bacteria in a school or salon.
Additional Fee: $78.00

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**COSMO116  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.
Additional Fee: $78.00

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**COSMO123  COSMETOLOGY FUNDAMENTALS**
Learn design and art principles as guidelines to assist you in achieving designs for the client. Gain skills in the consultation portion of hair design and practice good life skills and professional behaviors for salon success and effective communication.
Additional Fee: $78.00

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**COSMO136  APPLICATIONS OF HAIRCUTTING AND HAIRSTYLING**
This course introduces foundational haircutting techniques and tools that other hairstyling is built upon. Covers safe tool usage, including shears, taper shears, razor and clippers. Reinforces the practice of infection control and safety processes required by salon standards as well as state board regulations.
Additional Fee: $78.00

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**COSMO142  ADVANCED APPLICATIONS OF HAIRCUTTING & HAIRSTYLING**
COSMO146  CHEMICAL TEXTURE SERVICE
Presents the three main concepts of chemical texturizing: perming, relaxing with chemicals and reforming curls. This course covers the theory of chemical texturizing, tools used to achieve desired effects, infection control principles and practices, and client consultation.
PREREQUISITES
Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.
Additional Fee: $78.00
5352  6 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16  08 208 Frederick [ENHANCED]

COSMO158  GENERAL SCIENCE OF HAIR COLORING
Introduces the creative artistry of color through the study of color theory, the color wheel, basic color applications and techniques, and basic formulation.
PREREQUISITES
Successful completion of COSMO 116, COSMO 123, and COSMO 136.
Additional Fee: $78.00
53K2   7 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16  08 205 Ganyon, Miche [ENHANCED]

COSMO164  LAB CLINIC I
Expand skills and knowledge by offering services to live models/clients in CPTC’s student clinic, a realistic salon environment. This course reinforces skills learned within the Cosmetology program and provides practice in advanced hairstyling and haircutting.
PREREQUISITES
Successful completion of COSMO 112, COSMO 116, COSMO 123, and COSMO 136.
Additional Fee: $14.00
53L2   8 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16  08 CL#1 Ganyon, Miche [ENHANCED]

COSMO175  COSMETOLOGY SALON BUSINESS PRACTICES
This course introduces the topics of salon business, going into business for yourself, operating a successful salon, and building your business. Topics include identifying options for going into business for yourself, basic factors to consider when opening a salon, business plans, the importance of record keeping, elements of successful salon operations, and why selling services and products is a vital aspect of a salon’s success.
PREREQUISITES
Successful completion of COSMO 112, COSMO 116, COSMO 123, COSMO 136, COSMO 142, COSMO 158, and COSMO 164 or instructor approval.
Additional Fee: $78.00
5362  3 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16  08 208 Frederick [ENHANCED]

COSMO182  GENERAL STUDY OF NAILS

Presents advanced skills and techniques that enable students to remain current with haircutting trends. Procedures and theory are reinforced to achieve desired effect. Infection control principles and practices are reinforced.
PREREQUISITES
Successful completion of COSMO 136.
Additional Fee: $78.00
53J2   4 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16  08 205 Ganyon, Miche [ENHANCED]
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. Develop skills in safety and sanitation associated with nail care. Topics include basic nail theory, nail disease, disorders and anatomy of the hands. 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: $78.00

5342 4 Cr  7:30AM-3:00PM  TWThF 09/27/16-12/16/16 08 208Frederick [ENHANCED]

COSMO188  GENERAL SCIENCE OF SKIN

Additional Fee: $78.00

53Z2 4 Cr  ARRANGED 09/26/16-12/16/16 08 205Deleon, Carin
53AH 4 Cr  7:30AM-3:30PM 09/27/16-12/16/16 08 205Klug, Denise

COSMO228  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. Instructor permission required.

Additional Fee: $78.00

53AJ 3 Cr  3:00PM-9:30PM  DAILY 09/26/16-12/16/16 08 CL#4 Staff
53G2 3 Cr  7:30AM-3:30PM  TWThF 09/27/16-12/16/16 08 CL#4 Lind, Connie [ENHANCED]

COSMO230  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. Instructor permission required.

Additional Fee: $92.00

53AK 9 Cr  3:00PM-9:30PM  DAILY 09/26/16-12/16/16 08 CL#4 Staff
53H2 9 Cr  7:30AM-3:30PM  TWThF 09/27/16-12/16/16 08 CL#4 Lind, Connie [ENHANCED]

COSMO248  INDUSTRY INTERNSHIP I

Provides on-the-job experience for students in the cosmetology field. This is an optional 33-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

PREREQUISITES
Instructor approval.

Additional Fee: $92.00

53BB 1 Cr  ARRANGED 09/26/16-12/16/16 ARR Staff
5382 1 Cr  ARRANGED 09/27/16-12/16/16 ARR Lind, Connie

COSMO250  INDUSTRY INTERNSHIP II

Provides on-the-job experience for students in the cosmetology field. This is an optional 66-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.

PREREQUISITES
Instructor approval.

Additional Fee: $92.00
COSMO252  INDUSTRY INTERNSHIP III
Provides on-the-job experience for students in the field of cosmetology. This is an optional 99-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.
PREREQUISITES
Instructor approval.
Additional Fee: $92.00

COSMO254  INDUSTRY INTERNSHIP IV
Provides on-the-job experience for students in the field of cosmetology. This is an optional 132-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.
PREREQUISITES
Instructor approval.
Additional Fee: $92.00

COSMO256  INDUSTRY INTERNSHIP V
Provides on-the-job experience for students in the field of cosmetology. This is an optional 160-hour course for students who want an internship experience or who need additional hours to meet the state licensing requirements.
PREREQUISITES
Instructor approval.
Additional Fee: $92.00

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: $130.00

CUL 107  PROFESSIONAL COOKING I
Provides the student with a general understanding of the professional kitchen. Topics include kitchen safety, dishwasher procedures, how to handle food in a safe environment, selection and caring of knives, understanding of 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 as well as recognize and use a variety of herbs and spices.
Instructor permission required.
Additional Fee: $130.00
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 dish washing and basic food preparation, reading and following standardized recipes, along with deli operations and station organization.
Instructor permission required.
Additional Fee: $164.30

CUL 111  FOOD PREPARATION I
Practice and apply the skills of a restaurant cook. They 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: $130.00

CUL 123  COOKING METHODS II
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: CUL109
Instructor permission required.
Additional Fee: $164.30

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: CUL123
Instructor permission required.
Additional Fee: $164.30

DENTAL ASSISTANT

DAS 103  GENERAL STUDIES
This course will introduce the student to the dental profession, ethics and jurisprudence, dental terminology, diversity, and preparing for patient care.
Instructor permission required.

DAS 105  BIOMEDICAL SCIENCES
This course will introduce the student to Microbiology, Disease Transmission, Infection Prevention, Disinfection, Instrument Processing, and Sterilization, Occupational Health & Safety, and Ergonomics. Instructor permission required.

7712 4 Cr 12:00PM-3:00PM W 09/28/16-12/14/16 21 109 Wirth, R [HYBRID]

DAS 110 DENTAL SCIENCES I
This course will introduce the student to tooth morphology, oral embryology, landmarks of the face and oral cavity, and oral health and nutrition to include dental caries, preventive dentistry, and nutrition. Instructor permission required.

7722 5 Cr 12:00PM-2:00PM TTh 09/27/16-12/15/16 21 109 Lewandowski [HYBRID]

DAS 113 DENTAL ASSISTING SKILLS I
This course will introduce the student to basic dental assisting skills to include moisture control techniques, lab safety, alginate impressions and study models, proper technique for blood pressure and pulse, and dental charting. Instructor permission required.

7732 4 Cr 2:00PM-3:00PM Th 09/29/16-12/15/16 21 109 Wirth, R [HYBRID]

DAS 116 FOUNDATIONS OF CLINICAL DENTISTRY
Introduces the student to the management of a medical or dental emergency in the dental office. In addition, the student will be introduced to the dental treatment room, including the proper names, descriptions, use and care of dental instruments and equipment used in restorative dental procedures. Instructor permission required.

7742 4 Cr 2:00PM-3:00PM T 09/27/16-12/13/16 21 109 Wirth, R [HYBRID]

DAS 118 PRINCIPLES OF RADIOGRAPHY I
Introduces the student to the theory of radiographic techniques including patient and operator safety while exposing radiographs. Instructor permission required.

7752 1 Cr 2:00PM-3:00PM W 09/28/16-12/14/16 21 109 Wirth, R [HYBRID]

DAS 223 DENTAL SCIENCES III
Introduces students to the science of pharmacology, including the recognition of potential drug interactions and the subject of anesthesia and pain control as it applies to dentistry. It also introduces students to anesthesia and pain control, lab and impression materials, and the medically and physically compromised patient.

PREREQUISITES
Students must successfully complete DAS 103, 105, 110, 113, 116, 118, 120, 125, 130, 135, and 140 and complete the Infection Control component of the DANB certification exam prior to continuing in the Dental Assistant Program.

77A2 3 Cr 8:30AM-11:30AM T 09/27/16-12/13/16 21 109 Wirth, R [HYBRID]

DAS 224 DENTAL ASSISTING SKILLS III
This course will introduce the student to general dentistry and matrix systems, advanced dental cements, advanced study models, advanced rubber dam, advanced charting, nightguard and whitening tray construction, culminating in the capstone chairside assessment. Prerequisite: Successful completion of DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 118, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140 and completion of ICE.

77B2 7 Cr 8:30AM-11:30AM M 09/26/16-12/12/16 21 109 Lewandowski [HYBRID]

DAS 226 DENTAL SPECIALTIES II
This course explores in depth the dental specialties of fixed prosthodontics to include impression materials and laboratory techniques, removable prosthodontics and dental implants, oral and maxillofacial surgery, and pediatric dentistry. In addition, the student will be introduced to the expanded function of pit and fissure sealants, construction and placement of provisional crowns and bridges, polishing full and partial dentures, and retraction cord placement. Prerequisite: Student must successfully complete DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140, and completion of the Infection Control component of the DANB certification exam prior to continuing in the Dental Assisting Program.

**DAS 228 CERTIFICATION REVIEW II**
This course will prepare the student to take their second Dental Assistant National Board certification exam in Radiation Health and Safety. Prerequisite: Successful completion of DAS 103, DAS 105, DAS 110, DAS 113, DAS 115, DAS 118, DAS 120, DAS 125, DAS 130, DAS 135, DAS 140, and completion of ICE. Additional Fee: $274.00

**DAS 237 CLINICAL EXPERIENCE I**
Provides Dental Assistant students with the opportunity to utilize the skills and information acquired in DAS 103-228. Students will spend 30 hours, three (3) hours a week volunteering in an infection control assistant capacity in a private office and/or dental clinic. Prerequisite: Student must successfully complete DAS 103 140 and completion of the Infection Control certification prior to continuing in the Dental Assisting Program. Additional Fee: $14.00

**DAS 239 CLINICAL EXPERIENCE II**
Provides Dental Assistant students with the opportunity to utilize 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: Student must successfully complete DAS 103 237, Infection Control certification, all college level general education courses, and completion of the Radiation Health & Safety component prior to continuing in the Dental Assisting. Instructor permission required. Additional Fee: $14.00

**DAS 243 CERTIFICATION REVIEW III**
This course will prepare the student to take their third and final Dental Assistant National Board certification exam General Chairside. Upon successful completion of this exam and all other DAS courses, the student will receive their national Certified Dental Assistant credential. Prerequisite: Successful completion of DAS 103-237 and the ICE certification exam and completion of the Radiation Health and Safety certification exam. Successful completion of all general education requirements are also required prior to taking this course. Instructor permission required. Additional Fee: $274.00

**DBOA 103 DENTAL TERMINOLOGY & PROCEDURES**
Introduces information to correctly recognize and identify various occupations within the dental environment. Terminology necessary to complete all other courses. Information provided 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
DBOA 111  DENTAL CHARTING, SCHEDULING & RECALL MANAGEMENT
Explores dental charting symbols and treatment descriptions. Develop, decipher and present a comprehensive
treatment plan. Covers the necessary information to accurately develop a patient recall system, maintain
productive and effective patient scheduling. Prerequisite or Corequisite: DBOA 104
7772  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Wirth, R [ONLINE]

DBOA 119  DENTAL DOCUMENTS AND INVENTORY SYSTEMS
Explores a wide variety of dental office forms and development of manual and computerized inventory and filing
systems. Students will have training and access 24 hours a day to the Dentrix Dental Software to learn and
practice patient entry information. Organizational skills are the primary emphasis of this course. Prerequisite or
Corequisite: DBOA 103.
7782  4 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Wirth, R [ONLINE]

DBOA 135  DENTRIX ADVANCED TRAINING
Provides expanded Dentrix software skills to students with basic Dentrix Dental Software training and/or
experience. Students will have training and access 24 hours a day to the Software to 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 in the Dentrix software, and explore
& generate Management Reports Prerequisite: DBOA 111 and / or industry experience with the Dentrix Dental
Software.
7792  2 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Wirth, R [ONLINE]

DIGITAL ENTERTAINMENT DESIGN AND PRODUCTION

DED 102  GENRE STUDIES
Covers history of film and how economy and politics have affected the films as they realize the symbolism that
hides within the films.
Additional Fee: 14.70
9002  3 Cr  1:00PM-6:00PM  Th  09/29/16-12/15/16  11 STUDA  Geary, Shawn [ENHANCED]

DED 104  GENERAL ART
Covers the fundamentals of traditional art and basic skills of visual expression.
Additional Fee: 19.60
9012  4 Cr  1:00PM-7:00PM  T  09/27/16-12/13/16  11 STUDA  Geary, Shawn [ENHANCED]

DED 106  DIGITAL ART I
This course is an overview of the primary industry software tools, Adobe Photoshop and Adobe Illustrator, used
in the creation of 2D computer graphics. Students will learn the commands and the interfaces of industry-standard
eraser graphics, vector graphics, with photo modification.
Additional Fee: 19.60
9022  4 Cr  1:00PM-6:00PM  M  09/26/16-12/16/16  11 106 Felch, Christ [ENHANCED]
DED 108  SCREEN WRITING
Introduces the fundamentals of working with and writing scripts for many different media projects. This will include, but not be limited to, the creation and breakdown of scenes using voice, action, and dialogue.
CO-REQUISITES
ENG 094.
Additional Fee: 14.70
9032  3 Cr  1:00PM-5:00PM  W  09/28/16-12/14/16  11 STUDA  Felch, Christ [ENHANCED]

EARLY CARE AND EDUCATION

ECE 132  RAISING AND EMOTIONALLY INTELLIGENT CHILD
This course will focus on teaching parents, teachers, and providers how to use emotion coaching techniques that foster emotional intelligence in children.
41A2  1 Cr  ARRANGED  10/03/16-10/31/16  ON LINE  Havens, Amber [ONLINE]

ECE 134  ISSUES AND TRENDS GREEN
Research issues and current trends in the ECE field in relation to sustainable "green" practices. Students will explore how to implement researched practices in their current work in the field with children, families and peers.
Additional Fee: $6.00
41L2  2 Cr  5:00PM-6:00PM  M  10/03/16-12/16/16  10 111 Colombini

ECE 141  ECE CURRICULUM: MATH
Explore the different aspects of early childhood curriculum in mathematics.
4192  2 Cr  ARRANGED  10/17/16-12/16/16  ON LINE  Kaasa, Melissa [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: $9.00
41M2  3 Cr  5:00PM-6:00PM  M  10/03/16-12/16/16  10 111 Colombini

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
41N2  3 Cr  5:00PM-6:00PM  M  10/03/16-12/16/16  10 111 Colombini

ECE 198  PRACTICUM 4: WORKING WITH FAMILIES
Provides the student with the opportunity for practical field experience with a "working with families" specialization. Includes a seminar component.
Additional Fee: $23.00
41P2  3 Cr  5:00PM-6:00PM  M  10/03/16-12/16/16  10 111 Colombini

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
41Q2  3 Cr  5:00PM-6:00PM  M  10/03/16-12/16/16  10 111 Colombini

40
ECE 290 PORTFOLIO ADVENTURE
Provides the student with the opportunity to compile their Early Care and Education degree portfolio. The portfolio adventure is an opportunity for the student to establish self-marketing goals in the field as well as produce an end product which reflects the student's best practice, passion, and experience to date in the program and field. Students will receive instructor guidance and feedback as well as participate in the ECE Portfolio Review process prior to graduation.
Additional Fee: $6.00
41R2 2 Cr 4:00PM-5:00PM T 10/06/16-12/08/16 10 111 Colombini

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, and health/safety/nutrition and professional practice.
Additional Fee: $9.00
4112 3 Cr 6:00PM-9:00PM T 09/27/16-11/29/16 10 111 Holland-O’Hern
4182 3 Cr ARRANGED 10/17/16-12/16 ON LINE Havens, Amber [ONLINE]

ECED&105 INTRODUCTION TO EARLY CHILDHOOD EDUCATION
Explore the foundations of early childhood education. Examine theories defining the field, issues and trends, best practices and program models. Observe children, professionals and programs in action.
Additional Fee: $15.00
4102 5 Cr 6:15PM-10:15PM M 09/26/16-12/05/16 10 111 Felch, Linda [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
4152 3 Cr 6:00PM-9:00PM T 09/27/16-11/29/16 10 111 Johnson

ECS 110 COMPUTER ESSENTIALS FOR THE ECE PROFESSIONAL
Covers the essential computer tools and techniques necessary for the ECE professional. Designing forms, parent newsletters, flyers, brochures and other materials needed for the smooth running of the child care center. Text required.
Additional Fee: $31.60
4132 4 Cr 6:00PM-10:00PM Th 09/29/16-12/08/16 21 106 Felch, Chris

ECS 182 ECE PRACTICUM II
Provides the student with practical field experience. Students will work at community Child Care Centers or the campus Child Development Center allowing them to apply classroom study to the on-the-job situations. Includes a scheduled seminar. Text required.
Additional Fee: $29.00
41B2 5 Cr 4:00PM-5:00PM M 10/03/16-12/16 10 111 Colombini

ECS 202 PRESCHOOL ACTIVITIES
Covers developmentally appropriate activities for preschoolers. This is a hands-on class that will provide a chance for making and sharing samples.
Additional Fee: $6.00
4122 2 Cr 6:00PM-9:00PM W 09/28/16-11/16/16 10 205 Lockhart
ECS 217  PRACTICUM IV INFANTS AND TODDLERS  
Provides the student with the opportunity for practical field experience with specialization in infants and toddlers.  
Additional Fee: $23.00  
41C2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

ECS 230  PRACTICUM IV SCHOOL AGE  
Provides the student with the opportunity for practical field experience with school age specialization.  
Additional Fee: $23.00  
41D2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

ECS 235  ISSUES AND TRENDS  
Research that covers some of the current issues and trends in the ECE field.  
Additional Fee: $6.00  
41F2  2 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

ECS 266  LEADERSHIP IN EARLY CHILDHOOD EDUCATION  
Designed for leaders in the early childhood field. Essential skills for effective leadership will be covered: creating a shared vision, team building, managing change, personal development, communication, conflict management, staff development, and empowerment strategies.  
Additional Fee: $12.00  
4172  4 Cr  5:30PM-9:30PM  Th  09/29-12/08/16  10 111Chase-Deitrich

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  
41G2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

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  
41H2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

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  
41J2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

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  
41K2  3 Cr  5:00PM-6:00PM  M  10/03-12/12/16  10 111Colombini

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

**EDUC&150 CHILD, FAMILY, AND COMMUNITY**
Students working with children age’s birth through school age and their families will learn how to integrate the family and community contexts in which a child develops. The students will learn how to explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child and tools for effective communication.

Additional Fee: $9.00

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**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 ten, and solving Ohm’s law. Additional Fee: $25.00

**EFS 106 AC/DC ELECTRICITY: SERIES, PARALLEL & COMB CIRCU**
Introduces the student to voltage, current, and resistance in a series circuit, total values, and control of current in a series circuit. Introduction to Parallel circuits, current and resistance, and voltage in a Parallel circuit. Prerequisites: EFS 105, or Instructor’s permission.

Additional Fee: $25.00

**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.

PREREQUISITES
Successful completion of EFS 106, or instructor’s permission.

Additional Fee: $25.00

**EFS 108 NATIONAL ELECTRICAL CODE PRINT READING**
Introduces the student to practical print reading as it applies to the National Electrical Code. Prerequisites: EFS 105, EFS 106, and EFS 107, or Instructor’s permission.

Additional Fee: $25.00

**EFS 109 NATIONAL ALARM INSTALLER TRAINING PROGRAM**
Introduces the student to basic alarm by completing the comprehensive lessons, viewing video, and completing lesson tests. With final test, the student will have a thorough exposure to alarm systems. Prerequisites: EFS 105, EFS 106, and EFS 107, or Instructor's permission.

Additional Fee: $25.00

EFS 110 CCTV APPLICATION & DESIGN
Introduces students to basics of CCTV systems design and applications.
PREREQUISITES
Successful completion of EFS 105, EFS 106, and EFS 107, or instructor’s permission.

Additional Fee: $25.00

EFS 118 NATIONAL ELECTRICAL CODES
Introduces National Electrical Codes. Through individual tests, students will be able to research applicable electrical codes.
PREREQUISITES
Successful completion of EFS 108, EFS 109, and EFS 110, or instructor’s permission.

Additional Fee: $25.00

EFS 119 NATIONAL FIRE CODES
Introduces the National Fire Codes. Through individual tests, students will be able to research applicable fire codes.
PREREQUISITES
Successful completion of EFS 108, EFS 109, and EFS 110, or instructor’s permission.

Additional Fee: $25.00

EFS 121 CCTV FIELD SERVICE & INSTALLATION
Introduces the student to basic system service and installation of CCTV systems. Through individual lessons, the student will be exposed to the basics of CCTV field service and installation. Prerequisites: EFS 108, EFS 109, and EFS 110, or Instructor's permission.

Additional Fee: $25.00

EFS 124 WASHINGTON ADMINISTRATIVE CODES
Introduces the student to the Washington administrative code pertaining to industrial safety and the administrative code pertaining to electrical installations in the state of Washington. Prerequisites: EFS 108, EFS 109, and EFS 110, or Instructor's permission.

Additional Fee: $25.00

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.
PREREQUISITES
Successful completion of the 78-credit hour Electrician Low Voltage Fire/Security Certificate, or instructor’s permission.
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.
PREREQUISITES
Successful completion of EFS 207 or instructor’s permission.
Additional Fee: $25.00

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. Prerequisites: EFS-211 or Instructor’s permission.
Additional Fee: $25.00

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, as well as hands-on practical application, installation, and design. Prerequisites: EFS-216 or Instructor’s permission.
Additional Fee: $25.00

EFS 226  HIGH SECURITY STRUCTURED CABLEING
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, as well as hands-on practical application, installation, and design. Prerequisites: EFS-221 or Instructor’s permission.
Additional Fee: $25.00

EFS 231  CCTV DIGITAL NETWORK SOLUTIONS
Introduces CCTV (Closed Circuit Television) Digital Network Solutions. Explores applications that require the camera to be recorded and viewed digitally and or remotely via various networks. Includes comprehensive lessons, lecture, as well as hands-on practical application, installation, and design. Prerequisites: EFS-226, or Instructor’s permission.
Additional Fee: $25.00

ENGLISH

ENG 082  BASIC READING AND WRITING
Introduces and develops basic reading and writing skills. Focus in on writing proper sentences and sound paragraphs which 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 comprehension and increase vocabulary for college level reading requirements.  
Prerequisite: Appropriate COMPASS (41 in reading, 13 in writing) placement score.  
Additional Fee: $24.50  
5W01  5 Cr  8:00AM-8:50AM  MTW  09/26/16-12/16/16  16 116Mollas, Tula [HYBRID]  
5W02  5 Cr  9:00AM-9:50AM  DAILY  09/26/16-12/16/16  16 205Schwarder, C [HYBRID]  
5W03  5 Cr  10:00AM-10:50AM  DAILY  09/26/16-12/16/16  16 205Schwarder, C [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 (68 in reading, 33 in writing) placement score or successful completion of ENG 082.  
5W05  5 Cr  7:30AM-9:50AM  MW  09/26/16-12/16/16  17 230Irwin, Karen [HYBRID]  
5W06  5 Cr  10:00AM-10:50AM  DAILY  09/26/16-12/16/16  17 230Irwin, Karen [HYBRID]  
5W08  5 Cr  1:00PM-1:50PM  DAILY  09/26/16-12/16/16  16 205Schwarder, C [HYBRID]  
5W09  5 Cr  2:00PM-4:20PM  MW  09/26/16-12/16/16  17 230Heath, Terry [HYBRID]  
5W10  5 Cr  6:30PM-8:50PM  MW  09/26/16-12/16/16  16 205Hoffman-Reye [HYBRID]  
5W52  5 Cr  11:00AM-11:50AM  DAILY  09/26/16-12/16/16  17 240Martindale, K [HYBRID]  
5W51  5 Cr  8:00AM-12:30PM  Sa  10/01/16-12/16/16  16 205Hoffman-Reye [HYBRID]  

**ENG 104  BUSINESS COMMUNICATIONS**  
Review structure, content, and usage as applied to Business correspondence. Emphasis will be placed on writing clear, effective written communication, including memoranda, e-mail, letters, résumés, and feasibility reports. Students will compile a portfolio. Researching and documenting data using electronic databases and the Internet will be required. **PREREQUISITE: Appropriate COMPASS (81 in reading, 77 in writing) placement score or successful completion of ENG 094.**  
0529  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Staff [ONLINE]  

**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: COMPASS score of 77 in writing and 81 in reading. Placement score or successful completion of ENG 094.  
0519  5 Cr  7:30AM-9:50AM  TTh  09/26/16-12/16/16  17 230Irwin, Karen [HYBRID]  
0520  5 Cr  11:00AM-11:50AM  DAILY  09/26/16-12/16/16  17 230Irwin, Karen [HYBRID]  
0522  5 Cr  1:00PM-1:50PM  DAILY  09/26/16-12/16/16  17 230Heath, Terry [HYBRID]  
0523  5 Cr  2:00PM-2:50PM  DAILY  09/26/16-12/16/16  16 202Hoffman-Reyes [HYBRID]  
0524  5 Cr  6:30PM-8:50PM  MW  09/26/16-12/16/16  16 205Hoffman-Reyes [HYBRID]  
0526  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Martindale, K [ONLINE]  
0527  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Irwin, Karen [ONLINE]  
0528  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Heath, Terry [ONLINE]  
0530  5 Cr  9:00AM-9:50AM  DAILY  09/26/16-12/16/16  17 240Martindale, K  
0531  5 Cr  9:00AM-9:50AM  DAILY  09/26/16-12/16/16  17 240Martindale, K [HYBRID]  
0532  5 Cr  10:00AM-10:50AM  DAILY  09/26/16-12/16/16  17 240Martindale, K [HYBRID]  
0533  5 Cr  10:00AM-10:50AM  DAILY  09/26/16-12/16/16  17 240Martindale, K [HYBRID]  
0525  5 Cr  8:00AM-12:30PM  Sa  10/01/16-12/16/16  16 205Hoffman-Reyes [HYBRID]
ENGL&235  TECHNICAL WRITING
Focus on simple to complex documents typically required in a technical, professional, or scientific work setting. Use of Plain English emphasized. Prerequisite: Successful completion of ENGL& 101.
0571  5 Cr  2:00PM-4:20PM  TTh  09/27/16-12/15/16  TBD  Heath, Terry [HYBRID]  Cancelled

ENVIRONMENTAL SCIENCE

ENV 109  INTRODUCTION TO ECOLOGY
Covers the basic topics of Ecology, including population biology, plant and animal species characterization, and habitat restoration.
Additional Fee: $19.60  
4562  4 Cr  9:00AM-10:30AM  TWThF  09/27/16-12/16/16  16  104 Fritz, Andrew [ENHANCED]

ENV 141  ORIENTATION TO ENVIRONMENTAL SCIENCE
Survey the wide range of duties and career choices available to the environmental technician.
4572  4 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Fritz, Andrew [ONLINE]

ENV 162  GENERAL CHEMISTRY W/LAB
This course provides the basic concepts, principles and applications of inorganic chemistry germane to the environmental field. Related instruction includes mathematics used in designing, conducting and interpreting analytical procedures. Laboratory methods, chemical calculations, properties of solutions, and properties of acids and bases are also covered.
Additional Fee: $55.40  
4582  6 Cr  11:00AM-2:00PM  TWThF  09/27/16-11/02/16  15  105 Fritz, Andrew [ENHANCED]

ENV 163  ENVIRONMENTAL CHEMISTRY W/LAB
This is a continuation of ENV 162 General Chemistry with progressive instruction in laboratory methods, chemical calculations, properties of solutions, acids and bases and an introduction to organic chemistry
Additional Fee: $26.00  
4592  6 Cr  11:00AM-2:00PM  TWThF  11/03/16-12/16/16  15  105 Fritz, Andrew [ENHANCED]

ENV 231  ISSUES IN THE URBAN ENVIRONMENT
Course explores a variety of urban environmental issues. Storm water management, sewage treatment, drinking water treatment, and waste disposal. Prerequisite: Successful completion of all ENV 100 -level courses, except ENV 134.
Additional Fee: $24.50  
4502  5 Cr  11:30AM-1:20PM  M  10/03-12/13/16  16  102 Smith Kathy [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 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.  
Prerequisite: Successful completion of 4th quarter courses, or Instructor permission.
Additional Fee: $14.00  
4512  10 Cr  ARRANGED  09/26-12/16/16  ARR  Fritz, Andrew
ENV 245  ENVIRONMENTAL LAW II
Course places an emphasis on correct, accurate interpretation of environmental regulations and their applications. Students will be able to research, interpret, and utilize a variety of regulations upon completion. Regulations include RCRA, CERCLA, CWA, Washington Drinking Water Rules, Washington State Water Quality regulations, SDWA, and other applicable state, federal, and local regulations. Course also covers Federal Energy Policy, including development of fossil fuels and alternative energy sources. Prerequisite: Successful completion of all ENV 100-level courses, except ENV 134.
Additional Fee: $24.50
4522 5 Cr 11:30AM-1:50PM  TW  10/04/16-12/14/16  16 102Smith Kathy [ENHANCED]

ENV 246  ENVIRONMENTAL SCIENCE CAPSTONE
This course accompanies ENV 240 Internship. The Capstone Project integrates the CPTC Core Abilities with the Internship and identification of how the Core Abilities apply in the workforce.
4532 2 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Smith Kathy [ONLINE]

ENV 260  INTRODUCTION TO SOILS
Course focuses on basic physical, biological, and chemical concepts of soil science. Practical exercises and projects will be utilized to demonstrate how soil data is commonly used in regulatory, legal, and scientific land use interpretations and decisions. Prerequisite: Successful completion of all ENV 100-level courses, except ENV 134.
Additional Fee: $24.50
4542 5 Cr 9:00AM-10:50AM  MW  10/03/16-12/14/16  16 102Smith Kathy [ENHANCED]

ENV 270  HAZARDOUS MATERIAL TRANSPORTATION
Covers the requirements associated with transportation of hazardous materials as defined in Title 49 Code of Federal Regulations (49CFR) and 171.8 (not including radioactive). Meets the Hazmat Employee training requirements found in 49 CFR 172 Subpart H.
Additional Fee: $14.70
4552 3 Cr 9:00AM-2:50PM  DAILY  09/26/16-09/30/16  16 102Smith Kathy

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: $67.00
6202 2 Cr 1:00PM-2:00PM  DAILY  09/26/16-12/16/16  02 123Shields, Maureen

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: $67.00
6212 4 Cr 11:30AM-12:30PM  DAILY  09/26/16-12/16/16  02 123Shields, Maureen

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: $67.00

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: $81.00

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: $67.00

ES 123 BACTERIOLOGY, SAFETY, AND SANITATION
Overview of pathological and non-pathological microorganisms including bacteria, viruses, endo and ecto parasites, disease vectors and transmission. Covers levels of decontaminations pertaining to salons, spas and medical offices.

Additional Fee: $67.00

ES 125 FACIAL PROCEDURES I
Introduction to facial procedures, including client intake and assessment, skin analysis, clinical indications and contraindications, European facial instruction, product selections and recommendations.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.


Additional Fee: $67.00

ES 128 TEMPORARY HAIR REMOVAL
Survey of temporary hair removal to include: contraindications, methods of epilation using multiple modalities including but not limited to hard wax, soft wax and sugaring. All related safety and sanitation employed in the esthetics profession.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES
ES 125, ES 130, ES 132, ES 134, and ES 137.

Additional Fee: $67.00

ES 130 MAKEUP APPLICATION
History of makeup application. Course includes color theory and basic makeup application techniques.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES
ES 125, ES 126, ES 132, ES 134, ES 137.

Additional Fee: $67.00
6282  2 Cr  8:00AM-2:30PM  DAILY 09/26/16-12/16/16 08 319Whipple

**ES 132 SKIN CARE AND BODY TREATMENTS**

Body treatments to include mud wraps, body scrubs, wet and dry room techniques, back treatments, and cellulite body treatments.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES
ES 125, ES 126, ES 130, ES 134, and ES 137.

Additional Fee: $81.00
6292  4 Cr  8:00AM-2:30PM  DAILY 09/26/16-12/16/16 08 319Whipple

**ES 134 MACHINE FACIALS**

Includes indications, contraindications and safety for electrical modalities, including galvanic, high frequency, and microcurrent.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES
ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

Additional Fee: $81.00
62A2  4 Cr  8:00AM-2:30PM  DAILY 09/26/16-12/16/16 08 319Whipple

**ES 136 MICRODERMABRASION AND SUPERFICIAL PEELS**

Covers clinical exfoliation and desquamation techniques employing chemical and mechanical methods.

PREREQUISITES
Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

CO-REQUISITES
ES 140, ES 141, ES 145, ES 152, ES 159.

Additional Fee: $81.00
62C2  4 Cr  9:00AM-3:30PM  DAILY 09/26/16-12/16/16 08 325Sorensen, Karlee

**ES 137 SPA CLINIC OPERATIONS**

Realistic training in our student run clinic incorporating point of sale, dispensary, laundry, spa and clinical operations and management positions are covered.

PREREQUISITES
Successful completion of ES 105, ES 110, ES 113, ES 116, ES 120, and ES 123.

CO-REQUISITES
ES 125, ES 126, ES 130, ES 132, and ES 134.

Additional Fee: $67.00
62B2  1 Cr  8:00AM-2:30PM  DAILY 09/26/16-12/16/16 08 319Whipple

**ES 140 CLINICAL APPLICATIONS I**

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

PREREQUISITES
Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.
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.
PREREQUISITES
Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.
CO-REQUISITES
ES 149, ES 153, ES 154, ES 157, and ES 158.
Additional Fee: $67.00
62L2 3 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 327 Siedlicki, M

ES 152 PHARMACOLOGY FOR ESTHETICIANS
This course includes common medications and drug interactions as they pertain to esthetic skin-care services.
PREREQUISITES
Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.
CO-REQUISITES
ES 136, ES 140, ES 141, ES 145, and ES 159.
Additional Fee: $67.00
62Q2 1 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325 Sorensen, Karlee

ES 154 ADVANCED SKIN CARE AND MASSAGE TECHNIQUES
This course includes advanced modalities of skin care including MLD and other industry-related techniques.
PREREQUISITES
Successful completion of ES 136, ES 140, ES 143, ES 146, ES 152, and ES 159.
CO-REQUISITES
ES 158, ES 149, ES 150, ES 155, ES 157.
Additional Fee: $67.00
62G2 5 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 325 Siedlicki, M

ES 157 BUSINESS PLANNING
Independent research and preparation of a business plan and portfolio as capstone project.
PREREQUISITES
Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.
CO-REQUISITES
ES 149, ES 150, ES 153, ES 154, and ES 158.
Additional Fee: $67.00
62N2 2 Cr 9:00AM-3:30PM DAILY 09/26/16-12/16/16 08 327 Siedlicki, M

ES 158 STATE BOARD PREPARATION
This course includes kit preparation and simulation of state board examinations.
PREREQUISITES
Successful completion of ES 136, ES 140, ES 141, ES 145, ES 152, and ES 159.
CO-REQUISITES
ES 149, ES 150, ES 153, ES 154, and ES 157.
Additional Fee: $67.00
ES 159 INTRO TO BUSINESS PLANNING & PROFESSIONAL DEVELO
This course introduces the learner to outlining business plans by obtaining demographics, researching profit and loss statements and outlining startup costs.

PREREQUISITES
Successful completion of ES 125, ES 126, ES 130, ES 132, ES 134, and ES 137.

CO-REQUISITES
ES 136, ES 140, ES 141, ES 145, and ES 152.

Additional Fee: $67.00

FUNDAMENTAL SKILLS FOR MANUFACTURING AND ENGINEERING CLASSES

FSME 101 WORKSHOP SAFETY
Covers occupational safety and health for workers in manufacturing and engineering workshop environments.

PREREQUISITES
Instructor permission.

Fee: 39.70

MQ02 3 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302 Chinn, Bradley [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.

PREREQUISITES
Instructor permission.

Fee: 49.50

MQ12 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302 Chinn, Bradley

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.

PREREQUISITES
Instructor permission.

Fee: 49.50

MQ22 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302 Chinn, Bradley

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.

PREREQUISITES
Instructor permission.

Fee: 49.50

MQ32 5 Cr 7:30AM-3:00PM MTWTh 09/26/16-12/16/16 25 302 Chinn, Bradley
GRAPHIC TECHNOLOGIES

GTC 110  ART, DESIGN, AND VISUAL THINKING
Introduction to visual arts and design principles. Stresses the components of visual thinking and visual language underlying design for digital media. A series of real-life case studies and exercises applies the design process and use of basic elements of design, typography, images, color, and layout.
Additional Fee: $88.50
8502  5 Cr  9:00AM-5:00PM  Th  09/29/16-12/15/16  11 158Owens, Darryl

GTC 123  MACINTOSH OPERATION AND IMAGE ACQUISITION
Introduction to Macintosh computer operations and file management. Covers image acquisition and archiving from Internet and analog sources.
Additional Fee: $88.50
8512  5 Cr  9:00AM-5:00PM  M  09/26/16-12/16/16  11 154Ritzen, Drew

GTC 130  DIGITAL IMAGING I
Introduces the fundamentals of Photoshop to include basic tools; image editing; painting; and the creation, use, and management of layers and channels.
Additional Fee: $88.50
8522  5 Cr  9:00AM-5:00PM  W  09/28/16-12/14/16  11 154Ritzen, Drew

GTC 143  ELECTRONIC PUBLISHING AND LAYOUT
Apply typographic terms, vocabulary, and concepts; examine type identification and explore the relationships or essence of typographic design. Apply and solve mathematical problems common to typography. Apply basic page layout and create files. Explore proofreading and correcting copy changes.
Additional Fee: $88.50
8532  5 Cr  9:00AM-5:00PM  T  09/27/16-12/13/16  11 158Owens, Darryl

GTC 209  ADVANCED VECTOR DIGITAL ILLUSTRATION
Perform advanced techniques using Adobe Illustrator; create documents using Color Swatches and color separations for a variety of projects. Explore the abilities of different tools/Panels, Effects and filters, Integrate Adobe Acrobat Pro as soft proofing software from within Illustrator and prepare files for electronic output ready for a service provider. Prerequisite: GTC 169 or Instructor Approval.
Additional Fee: $88.50
8542  5 Cr  9:00AM-5:00PM  M  09/26/16-12/12/16  11 158Owens, Darryl

GTC 210  DIGITAL IMAGING III
Building on a solid knowledge of PhotoShop's basic functions, this course explores advanced color theory and utilization of PhotoShop for color correction. Efficient use of layers, masks, and channels for photo retouching and special effects. Optimization for production, importing, and exporting of images is also included.
Prerequisite: GTC 154 or Instructor approval.
Additional Fee: $88.50
8552  5 Cr  9:00AM-5:00PM  T  09/27/16-12/13/16  11 154Moyer, John

GTC 223  PREPRESS II
Covers the digital production of printing jobs through the use of Adobe PDF and raster image processing.
Prerequisite: GTC 164 or Instructor approval.
Additional Fee: $88.50
8562  5 Cr  9:00AM-5:00PM  Th  09/29/16-12/15/16  11 154Moyer, John
GTC 260  WEB ANIMATION DESIGN
Offers experience using industry-standard tools for basic web animation. Students will develop familiarity with a timeline, layers, symbols, vector tools and introductory animation techniques.
PREREQUISITES
Successful completion of GTC 276 or instructor approval.
Additional Fee: $88.50
85A2  5 Cr  9:00AM-5:00PM  F  09/30/16-12/16/16  11 107 Webster, Mark

GTC 265  WEB PROGRAMMING BASICS
Apply basic programming and graphical user-interface techniques for developing effective and useful websites. Become familiar with current HTML code syntax and CSS code for styling. Through progressive enhancement of skills, students will build multipage websites, culminating in a personal portfolio website.
PREREQUISITES
Successful completion of GTC 276 or instructor approval.
Additional Fee: $88.50
85B2  5 Cr  9:00AM-5:00PM  T  09/27/16-12/13/16  11 107 Webster, Mark

GTC 273  WEB GRAPHIC DESIGN AND USER EXPERIENCE
Learn techniques and best practices for designing graphics to be used on the web. Build website layout mockups, style guides, and user interface elements using Adobe Photoshop and Illustrator. Using modern design principles create layouts that are both appealing and easy to use.
PREREQUISITES
Successful completion of GTC 276 or instructor approval.
Additional Fee: $88.50
85C2  5 Cr  9:00AM-5:00PM  Th  09/29/16-12/15/16  11 107 Webster, Mark

GTC 276  INDESIGN II
Perform advanced techniques with InDesign, create documents, use color and color separations for a variety of projects, and prepare files for electronic output. Prerequisite: GTC 174 or Instructor approval.
Additional Fee: $88.50
8572  5 Cr  9:00AM-5:00PM  W  09/28/16-12/14/16  11 158 Owens, Darryl

GTC 278  INDEPENDENT STUDY
This course explores student competency in the student’s specialty skills area of the Graphic Technologies program. Students will produce a capstone project showing work accomplished and skills summarized. Prerequisite: GTC 254 Capstone class or Instructor Approval.
Additional Fee: $83.60
8582  4 Cr  4:00PM-5:00PM  Th  09/29/16-12/15/16  11 154 Moyer, John

GTC 280  INTERNSHIPLASS
Provides on-the-job field experience relevant to visual communications. Apply classroom skills to work-related supervised learning experience. Internships may be paid or non-paid assignments and occur at on- or off-campus locations.
PREREQUISITES
Successful completion of GTC 254 Capstone class or instructor approval.
Additional Fee: $83.60
8592  4 Cr  ARRANGED  09/26/16-12/16/16  11 158 Owens, Darryl
HEALTH UNIT COORDINATOR

HUC 106  ANATOMY & PHYSIOLOGY FOR HLTH UNIT COORDINATOR
Introduces basic word elements that are 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. Prerequisite: HUC 104
Additional Fee: $14.70
8112  3 Cr  8:00AM-2:45PM  TWTh  09/26/16-12/16/16  21 105Briggs, Marla [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 the student 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.
Additional Fee: $99.00
8102  6 Cr  8:00AM-2:45PM  DAILY  09/26/16-10/14/16  21 105Briggs, Marla [HYBRID]

HUC 112  UNIT COORDINATOR TASKS & PROCEDURES II
Focuses on cognitive knowledge and performance skills in the computer laboratory. The student 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: HUC 109: completion of 104, 106, 113, and 120
Additional Fee: $19.60
8132  4 Cr  3:00PM-9:45PM  MThF  09/26/16-12/16/16  21 105Perez, Joylene [HYBRID]

HUC 113  INTRODUCTION TO COMMUNICATION IN THE HUC ROLE
Enables the student to describe and utilize good listening skills as a means of preventing and/or solving conflicts with a variety of people in different situations. The focus also will be to develop skills for the role of the communicator for the nursing unit. The student will also be given the tools for developing and practicing assertive communication, interpersonal relationships, and confidentiality skills. Prerequisite: HUC 104.
Additional Fee: $4.90
8142  1 Cr  8:00AM-2:45PM  DAILY  09/26/16-12/16/16  21 105Briggs, 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.
PREREQUISITES
HUC 108; enrollment in HUC 106.
Additional Fee: $76.00
HUC 118  ADV COMMUNICATIONS APPLICATIONS IN THE HUC ROLE
Cover diverse cultures and incorporate the relevant needs of culturally diverse groups in the medical field. Provides the student with an overview and understanding of the fundamentals of communicable diseases. Prerequisite: Successful completion of HUC 102, 106, 109, and 113.
Additional Fee: $9.80

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. Prerequisite: HUC 104; enrollment in HUC 106, 109, and 113.
Additional Fee: $14.70

HUC 122  UNIT MANAGEMENT II
Focus is on cognitive knowledge for managing the nursing unit and developing communication skills using verbal and written communication. The student will develop leadership and performance skills by practicing classroom management. Prerequisites: Completion of HUC 113 and 120
Additional Fee: $14.70

HUC 126  LEGAL/ETHICAL ASPECTS OF UNIT COORDINATING
Enables the student 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 how to apply these ethics in professional behaviors. AIDS education, blood-borne pathogens, HIPPA, and hepatitis information will also be covered. Prerequisites: Completion of HUC 102, 106, 109, 113, and 120; enrollment in HUC 112, 118 and 122.
Additional Fee: $9.80

HUC 132  CLINICAL EXPERIENCE
Enables the student to utilize the cognitive and performance objectives that were presented in courses, HUC 102 through 126, in the clinical setting. The focus is on preparation of a résumé, employment application, and an employment interview. In order to participate in the clinical aspect of the program, must receive a No Record on File report from the Washington State Patrol regarding Crimes Against Persons. Clinical hours vary from 6 to 8 hours per day, 4 days a week. Students unable to complete course HUC 132 will have the option of completing clinical rotation with the next available program, on approval from the Instructors, within 6 months. Prerequisite: Completion of HUC 102, 106, 109, 113, 120, 112, 122, and 126.
Additional Fee: $14.00

HUC 204  ECG MONITOR TECHNICIAN
This course will examine 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 Fees:
- $9.80
- $14.70
- $9.80
- $14.00

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HEATING/VENTILATION/AIR CONDITIONING

HAC 102  BASIC ELECTRICITY
Discusses the structure of matter, movement, electrons, conductors, insulators, direct and alternating current, and electrical units of measurement. The electrical circuit will also be studied along with making electrical measurements, Ohm's law, series and Parallel circuits, and electrical power. Magnetic fields, inductance, transformers, capacitance, impedance, sine waves, and using electrical measuring instruments are also included. Additional Fee: $49.80
1802  2 Cr  7:00AM-1:45PM  DAILY  09/26/16-12/16/16  25 202Barton, 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. Space temperature controls, (both high and low voltage), sensing temperature of solids, pressure sensing devices, oil pressure safety controls, air pressure controls, devices that control fluid flow, and maintenance of mechanical and electromechanical controls are covered. Additional Fee: $59.60
1812  4 Cr  7:00AM-1:45PM  DAILY  09/26/16-12/16/16  25 202Barton, Rich [ENHANCED]

HAC 120  ADVANCED CONTROLS AND TROUBLESHOOTING
Control terminology, applications, and electronic control circuits are covered. 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. Additional Fee: $59.60
1822  4 Cr  7:00AM-1:45PM  DAILY  09/26/16-12/16/16  25 202Barton, Rich [ENHANCED]

HAC 160  SIEMENS CONTROLS
The DDC training course serves as an introduction to the concepts of direct digital controls. The course is a generic approach to understand DDC terminology and the fundamentals of today's new building control systems. Improve your control of HVAC systems, fire, security, and access, control, lighting, and energy management. The focus is on DDC fundamentals, how they work, features, and troubleshooting. Additional Fee: $49.80
1832  2 Cr  7:00AM-1:45PM  DAILY  09/26/16-12/16/16  25 202Barton, Rich [ENHANCED]

HAC 162  ELECTRIC MOTORS AND THEIR APPLICATIONS
Types of electric motors are discussed, 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, capacitors run motors, permanent split capacitor motors, shaded pole motors, and single phase hermetic motors, positive temperature coefficient motors, and variable speed motors. Discussions will take place pertaining to various characteristics and insulations, bearings, mountings, and motor drives. Additional Fee: $59.60
1842  4 Cr  7:00AM-1:45PM  DAILY  09/26/16-12/16/16  25 202Barton, 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.

Additional Fee: $54.70

1852 3 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202 Barton, Rich [ENHANCED]

HAC 167 GREEN AWARENESS

When it comes to HVAC/R Electrical, "Green" means maximizing the energy efficiency of existing equipment, specifying the most efficient systems available for the application and the available budget using renewable and sustainable fuel sources and conserving water. Those items along with the core knowledge of Energy management and Analysis, Green Heating, Ventilation, Air Conditioning, and Refrigeration, Electrical Generation and Consumption, and "Green" Plumbing will be discussed in the course.

Additional Fee: $54.70

1862 3 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 202 Barton, Rich [ENHANCED]

HAC 201 ADVANCED REFRIGERATION SYSTEM

Troubleshoot and repair refrigeration equipment, thermal physics and equipment for refrigeration systems analysis and efficiency.

Additional Fee: $89.00

18C2 10 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300 Pearce, Don [ENHANCED]

HAC 230 EPA REFRIGERANT RECOVERY CERTIFICATION

Mandatory course designed to provide EPA nationally recognized certification required for purchasing, removing and recycling of refrigerants. The class is a 12-hour training session with the certification test upon completion and is taught by a registered proctor.

Additional Fee: $48.90

1872 1 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402 McGhee, Dwight [ENHANCED]

HAC 237 BASIC REFRIGERATION I

Introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing. Prerequisites: HAC 101 through 168 and must be registered in HAC 237, 242, 246, and 255.

Additional Fee: $74.30

1882 7 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402 McGhee, Dwight [ENHANCED]

HAC 242 BASIC REFRIGERATION I LAB

Hands-on experience with introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing. Prerequisites: Must have required hand tools of the trade and must be enrolled in the Basic Refrigeration course.

Additional Fee: $64.50

1892 5 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 300 Pearce, Don [ENHANCED]

HAC 246 BASIC REFRIGERATION II

Introduction to controls, thermal physics, and equipment for air-conditioning system installation and servicing.

Additional Fee: $69.40

18A2 6 Cr 7:00AM-1:45PM DAILY 09/26/16-12/16/16 25 402 McGhee, Dwight [ENHANCED]

HAC 249 JOB READINESS
Covers résumé writing, cover letter preparation, Internet job search, Work Source job readiness workshop, and tips on filling out job applications.

Additional Fee: $64.50

HAC 255  BASIC REFRIGERATION II LAB
Hands-on experience with introduction to controls, thermal physics, and equipment for air conditioning system installation and servicing.

Additional Fee: $54.70

HAC 256  COMMERCIAL HEAT PUMPS
Troubleshoot & repair residential and commercial heat pumps through study material and DVD format. Heat pump fundamentals, heat pump electrical, and heat pump charging are explored. Prerequisites: Must be enrolled in HAC 201, 249, 256

Additional Fee: $74.30

HEMODIALYSIS

HDT 106  DOSAGE CALCULATIONS
Emphasis on fractions, combined percentages, the metric system, apothecary measurements and conversions, Roman numerals and dosage calculation formulas. Self-paced lab. (For hemodialysis students only).

PREREQUISITES
COMPASS score of 68 in reading and 33 in writing, or successful completion of ENG 082. COMPASS score of 37 for pre-algebra.

Additional Fee: $9.80

HDT 108  HEALTH INFORMATION TECHNOLOGY IN PATIENT SERVICE
Covers the issues, trends, and impacts of electronic and networked information technology on health care services in general. Explores specific issues related to the hemodialysis technician profession.

HDT 116  COMPUTER APPLICATIONS/KEYBOARDING
Students will use computers to develop touch control and proper keyboarding and keypad techniques with emphasis on alpha/numeric data entry. Course includes keyboarding alphabetic, figure, symbol keys, and skill building; continued keyboarding drills and practice to develop a minimum speed and accuracy of 25 wpm. Introduction to MS Office Suite for basic business correspondence. Internet navigation will be used for student research projects.

HDT 123  HEMODIALYSIS TERMS ANATOMY & PHYSIOLOGY
Provides the basic techniques of medical word building to be applied in acquiring an extensive medical vocabulary. Introduces anatomical physiological and pathological terms relating to body systems and medical abbreviations. Emphasis on renal and endocrine systems.

Additional Fee: $9.80
**HDT 130  HEOMODIALYSIS PRINCIPLES & PROCEDURES I**
This course will focus on the renal replacement therapy for persons with end stage renal disease. Identifies normal kidney functions, causes of renal failure, and options for renal replacement therapy, as well as the specific requirements for hemodialysis and the responsibilities of the hemodialysis technician. Preparation of dialysate, dry string and priming the dialysis machine. Also includes Personal Protective Equipment (PPE) and infection control basics.
Additional Fee: $99.00

**HUMAN SERVICES**

**HS 110 COMPUTER APPLICATIONS**
Introduce students to the uses of Microsoft Windows and related programs. Students will become familiar with community resources for career and educational opportunities and will develop proficiency in the use of technology.
PREREQUISITES
Students must be a high school graduate or have passed a high school equivalency test and have COMPASS scores of 81 for reading and 77 for writing or successful completion of ENG 094. Students must have a COMPASS pre-algebra score of 37 or higher prior to starting the course.
Additional Fee: $14.70

**HS 115 THERAPEUTIC COMMUNICATION SKILLS**
Acquaints students with theories and methods of therapeutic communication as well as multicultural communication. Students will demonstrate mastery of theory through classroom activities including mock interviews and work related client interactions.

**HS 125 HIV, BLOOD-BORN PATHOGENS, BRIEF RISK INTERVENTION FOR THE CHEMALLY DEPENDENT**
Material will increase student’s knowledge of HIV/AIDS & blood borne pathogens. Students will gain knowledge of the history of HIV/AIDS and related issues. The curriculum provides training in the areas of transmission, occupational safety, and standard precautions for the human services professional. Students will utilize the proper screening tools employed by chemical dependency and health agencies in the screening and intake process for higher-risk clientele and the chemically dependent.
PREREQUISITES
Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate’s degree program.

**HS 127 INTRODUCTION TO HUMAN SERVICES**
Introduces students to human services as a profession and will include a historical and philosophical framework of human service delivery. Contemporary roles and the human service worker will be covered, including areas such as typical duties and tasks of human service workers, income, maintenance, children's services, family services, aging, substance abuse, mental health, services for persons with disabilities, and the sociocultural aspects of providing services in a multiculturally diverse society. Students will also examine the competencies and qualifications required to become an effective human service worker, as well as the occupational and educational alternatives for graduates.

**HS 151 INTERNSHIP I**

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 community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice.

Instructor permission required.

Additional Fee: $14.00

**HS 220 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.

**HS 221 FAMILY SYSTEMS**

Explores the dynamics of healthy and unhealthy family systems in both traditional and alternative families. Students will study a variety of approaches to assist families in managing and coping with the stressors of family life in contemporary society. Introduces family intervention strategies and the development of human service skills to service families.

**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.

**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 & wellness, including coping strategies, personal boundaries, self-awareness and how to avoid burnout on the job.

**HS 237 LAW & ETHICS FOR HUMAN SERVICES**

Presents an overview of the ethical and professional issues that human services workers will face in the field. Included are such topics as ethical decision making, professional responsibilities, liability, confidentiality, records and rights of clients, professional codes of ethics, core values and personal issues, supervision, leadership, and the legal system.
HS 238 SPECIAL PROJECTS
Students will be responsible for formulating and implementing ideas to complete a special project related to the human services field. Students must obtain authorization from the Instructor for the project prior to enrolling in the course.
Instructor permission required.
24C2 Var ARRANGED 09/26/16-12/16/16 ON LINE Callahan-Mcc [ONLINE]

HS 239 SELECTED TOPICS
Students will be responsible for performing either a literature review and/or research on a human services-related topic. Students must obtain authorization from the Instructor for the project prior to enrolling in the course.
Instructor permission required.
24D2 Var ARRANGED 09/26/16-12/16/16 ON LINE Callahan-Mcc [ONLINE]

HS 244 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 community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship I is required.
Instructor permission required.
Additional Fee: $14.00
24B2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 02 120Callahan-Mcc [HYBRID]

HS 258 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 community resources that are applicable, and perform other job duties as assigned. Instructor permission is required for site choice. Successful completion of Internship II is required.
Instructor permission required.
Additional Fee: $14.00
24A2 5 Cr 12:00PM-5:00PM DAILY 09/26/16-12/16/16 02 112Callahan-Mcc [HYBRID]

HUMAN SERVICES/CHEMICAL DEPENDENCY

HSCD 134 INTRODUCTION TO ADDICTIONS
Focuses on substance and behavioral addictions in modern society by surveying prevalent addiction trends and common co-occurring disorders. Students will gain an overview of causal factors and the consequences of addiction as they relate to the individual, family and community. A strengths-based perspective will focus on the biological, psychological and socio-cultural factors influencing addiction and recovery.
PREREQUISITES
Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate’s degree program.
24G2 5 Cr 5:00PM-7:15PM W 09/28/16-12/14/16 02 112Fitzgerald, C [ENHANCED]

HSCD 180 ADDICTIONS TREATMENT: ETHICS AND THE LAW
This course examines the federal and state laws that pertain to chemical dependency for individuals, families, and service agencies, including the relevant WAC and RCW. Students will be introduced to the local criminal, civil, and juvenile court systems. Core topics include the examination and adherence of the ethical standards for Chemical Dependency Professionals in the helping relationship, including implications for clinical supervision and continuing education. Includes ethical decision-making, professional responsibilities, liability, confidentiality, records and rights of clients, professional codes of ethics, core values and personal issues, supervision, leadership, and the legal system.

PREREQUISITES
Completion of a terminal degree (A.A., B.A., M.S., etc.), OR student is entering their fourth quarter of the Human Services Associate’s degree program.

HSCD 215     CASE MANAGEMENT & RECORDKEEPING FOR THE CDP
This course focuses on the basic case management skills of service coordination, referral practices, community services, ongoing evaluation of treatment progress, client needs, and learning documentation standards and applicable laws.
Instructor permission required.

INTERIOR DESIGN

DSN 105     BASIC DESIGN
This course introduces students to the fundamental skills and concepts necessary for interior design planning and drawing to include: use of drafting tools, exercise in line weight and line type quality, architectural scale, dimensioning and architectural lettering.
Additional Fee: $79.40

DSN 119     INTERIOR DESIGN & THE DESIGN PROCESS
This course will introduce the student to concepts to successfully steer an idea on its journey from imagination to object and to focus on where the idea is going. This introduction describes the nature of a designer’s journey, maps the path a designer will take and explore the path of what happens along the way. This course is an introduction to inspiration, conceptualization, communication and elements and principles of design and trendspotting.
Additional Fee: $69.60

DSN 124     COLOR THEORY
This course is an introduction to the world of color, encompassing the following: The three dimensions of color, color systems, color theory, coloring agents, dimensions of color in compositions, principles and elements of design in color, color interactions, symbolisms, influence of color and exercises of putting color to use.
Additional Fee: $69.60

DSN 136     INTRODUCTION TO DRAWING AND RENDERING
Introduction to Drawing and Rendering is a beginning look at some of the drawing methods and materials used by Interior Designers. This course begins with the fundamental concepts of freehand sketching and gaining the
ability to think three-dimensionally. It is also an introduction for methods to communicate your design vision through hand drawn renderings. This is shown by the use of shade, shadow, texture, pattern, color and material qualities.

**Additional Fee: $69.60**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Crs.</th>
<th>Time</th>
<th>Days</th>
<th>Start Date</th>
<th>End Date</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>3632</td>
<td>4</td>
<td>9:00AM-11:00AM</td>
<td>DAILY</td>
<td>11/21/16-12/16/16</td>
<td>19 210</td>
<td>Houser, Sunny</td>
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<tr>
<td><strong>DSN 145 HUMAN FACTORS (BARRIER-FREE)</strong></td>
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<td>Completion of this course will provide students with the understanding of interior space planning basics and concepts using diagrams, residential codes, planning guidelines and presentation techniques. Students will also learn exterior elements and finishes that help to enclose the space. Prerequisites: DSN 105, 121.</td>
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<td><strong>Additional Fee: $74.50</strong></td>
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<tr>
<td>3672</td>
<td>5</td>
<td>11:00AM-1:00PM</td>
<td>DAILY</td>
<td>11/07/16-12/16/16</td>
<td>19 210</td>
<td>Houser, Sunny</td>
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<tr>
<td><strong>DSN 152 FURNITURE AND CABINET DESIGN</strong></td>
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<td>This course covers the fundamentals of custom furniture and cabinet design. Based on the study of furniture design theory, function, social use, materials and fabrication, students will design a unique custom piece of furniture.</td>
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<td><strong>Additional Fee: $59.80</strong></td>
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<td>36B2</td>
<td>2</td>
<td>9:00AM-11:00AM</td>
<td>DAILY</td>
<td>12/05/16-12/16/16</td>
<td>19 202</td>
<td>Bowman, Micheal</td>
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<tr>
<td><strong>DSN 153 DRAFTING III</strong></td>
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<tr>
<td>Completion of this course will provide students with an understanding of typical planning dimensions and guidelines for residential interiors, as well as proper techniques to combine cabinetry, appliances and applied measurements for graphic presentation standards. Prerequisites: DSN 121. &lt;Z&gt; This course is a comprehensive overview of the history of interior design and furniture from antiquity to the present day, with special emphasis on design elements.</td>
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<td>3662</td>
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<td>DAILY</td>
<td>11/07/16-12/16/16</td>
<td>19 210</td>
<td>Houser, Sunny</td>
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<tr>
<td><strong>DSN 158 HISTORY OF INTERIORS</strong></td>
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<td>A comprehensive overview of art, history of interiors and furniture from antiquity to the present day.</td>
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<td><strong>Additional Fee: $69.60</strong></td>
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<td>DAILY</td>
<td>10/17/16-11/04/16</td>
<td>19 210</td>
<td>Bowman, Micheal</td>
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<tr>
<td><strong>DSN 159 INTRODUCTION TO TECHNOLOGY FOR INTERIOR DESIGNERS</strong></td>
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<td>This course covers basic computer skills for interior designers. Contents include computer use for file management and internet research, as well as introductions to SketchUp and Adobe design software for editing and presentation.</td>
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<td><strong>Additional Fee: $64.70</strong></td>
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<td>3642</td>
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<td>11:00AM-1:00PM</td>
<td>DAILY</td>
<td>09/26/16-10/14/16</td>
<td>19 202</td>
<td>Watts, Julie</td>
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<td><strong>DSN 215 SUSTAINABLE DESIGN: AN OVERVIEW</strong></td>
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<tr>
<td>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.</td>
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<td><strong>PREREQUISITES</strong></td>
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<tr>
<td>Basic competency with computers and navigating the web.</td>
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</table>
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.
PREREQUISITES
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.

Additional Fee: $24.50

36C2  5 Cr    ARRANGED 09/26/16-12/16/16 ON LINE    Watts, Julie [ONLINE]

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.
PREREQUISITES
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.

Additional Fee: $24.50

36D2  4 Cr    ARRANGED 09/26/16-12/16/16 ON LINE    Watts, Julie [ONLINE]

DSN 227  COMMERCIAL SPECIFICATIONS
This course covers general notes used within construction documents, the specification of products, fabrication, and applications for commercial interior design. It also covers the liabilities of the designer in regard to specification writing for codes, standards, and federal regulations which are an essential part of designing building interiors. Prerequisites: DSN 225.

Additional Fee: $69.60

36F2  5 Cr    ARRANGED 09/26/16-12/16/16 ON LINE    Watts, Julie [ONLINE]

DSN 229  SUSTAINABLE INTERIORS & THE INTEGRATED DESIGN PROCESS
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.
PREREQUISITES
Completed or concurrently enrolled in DSN 215, 224, 226. Basic competency with computers and navigating the web.

36G2  5 Cr    ARRANGED 09/26/16-12/16/16 ON LINE    Watts, Julie [ONLINE]

DSN 236  DESIGN II
Through site visits, research and building plans, the student will develop and present a space plan and design concept for a renovation project of commercial nature, utilizing an existing space as a model. Students will also be introduced to building code topics such as occupant load, means of egress and emergency lighting and signage. Upon completion of the project, students will give a verbal and visual presentation of their design concept. Prerequisites: DSN 225.

Additional Fee: $84.30

36A2  7 Cr    9:00AM-11:00AM    DAILY 10/31/16-12/02/16    19 202Watts, Julie

DSN 239  CAD II

65
This course includes the intermediate level use of 2-dimensional CAD (computer aided drafting). To develop increased knowledge, speed, and accuracy, following demonstration and in class exercises, the student will use AutoCAD software to develop advanced layouts in paper space. Prerequisites: DSN 216.

Additional Fee: $74.50

DSN 265  INDEPENDENT STUDY
Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: $64.70

DSN 270  INDEPENDENT STUDY
Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: $69.60

DSN 275  INDEPENDENT STUDY
Explore or expand knowledge of interior design within an independent study format. With guidance and instructor approval, the student will select a meaningful project within an area of interest to strengthen their range of abilities. The student will fulfill several pre-approved objectives at the conclusion of the course where they will complete a self-assessment and final presentation to the instructor. Prerequisite: Instructor Approval.

Additional Fee: $74.50

LEADERSHIP

LEADR100  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. Instructor permission required.

0565  Var  ARRANGED  09/26/16-12/16/16  ON LINE  Erwin-Svobod [ONLINE]

LEADR101  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. Instructor permission required.

0566  Var  ARRANGED  09/25/16-12/16/16  ON LINE  Erwin-Svobod [ONLINE]

LEADR102  LEADERSHIP III
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. Instructor permission required.

0567 Var ARRANGED 09/26/16-12/16/16 ON LINE Erwin-Svobod [ONLINE]

LEADR103 LEADERSHIP IV
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. Instructor permission required.

0568 Var ARRANGED 09/26/16-12/16/16 ON LINE Erwin-Svobod [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.
Additional Fee: $48.80
7802  2 Cr ARRANGED 09/26/16-12/16/16 25 105 Dam, Ken [HYBRID]

MCH 105 SHOP MATH/BLUEPRINT
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.
Additional Fee: $68.40
7812  6 Cr ARRANGED 09/26/16-12/16/16 25 105 Dam, Ken [HYBRID]

MCH 107 SHOP MATH/BLUEPRINT 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: $68.40
7822  6 Cr ARRANGED 09/26/16-12/16/16 25 105 Dam, Ken [HYBRID]

MCH 109 SHOP MATH/BLUEPRINT 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: $68.40
7832  6 Cr ARRANGED 09/26/16-12/16/16 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.
Additional Fee: $68.40
7842  6 Cr ARRANGED 09/26/16-12/16/16 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.
Additional Fee: $39.00
7852  6 Cr     ARRANGED  09/26/16-12/16/16  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: $68.40
7862  6 Cr     ARRANGED  09/26/16-12/16/16  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: $78.20
7872  8 Cr     ARRANGED  09/26/16-12/16/16  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: $88.00
7882 10 Cr     ARRANGED  09/26/16-12/16/16  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: $78.20
7892  8 Cr     ARRANGED  09/26/16-12/16/16  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: $58.60
78A2  4 Cr     ARRANGED  09/26/16-12/16/16  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: $63.50
78B2  5 Cr     ARRANGED  09/26/16-12/16/16  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.
PREREQUISITES
Instructor permission required.
Additional Fee: $63.50
78C2  5 Cr  ARRANGED  09/26/16-12/16/16  25 105 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 utilized. Prerequisite: Instructor's permission and MCH 101.
Additional Fee: $73.30
78D2  7 Cr  ARRANGED  09/26/16-12/16/16  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.
PREREQUISITES
Instructor permission required.
Additional Fee: $53.70
78F2  3 Cr  ARRANGED  09/26/16-12/16/16  25 105 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.
PREREQUISITES
Instructor permission required.
Additional Fee: $53.70
78G2  3 Cr  ARRANGED  09/26/16-12/16/16  25 105 Dam, Ken [HYBRID]

**MCH 211  MEASUREMENT, INSPECTION & EQUIPMENT**
Understanding and operating Computer Numerical Control (CNC) machinery. Writing programs and manual data input. Actual machining jobs from industry may be utilized. Prerequisite: Instructor’s permission and MCH 101.
Additional Fee: $88.00
78H2  10 Cr  ARRANGED  09/26/16-12/16/16  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: $97.80
78J2  12 Cr  ARRANGED  09/26/16-12/16/16  25 105 Dam, Ken [HYBRID]

**MCH 219  CAREER OPPORTUNITIES**
Resumes, researching employers, and job search techniques. Prerequisite: Instructor’s permission and MCH 101.
Additional Fee: $58.60
78K2  4 Cr  ARRANGED  09/26/16-12/16/16  25 105 Dam, Ken [HYBRID]
MCH 223  
**INSPECTION TECHNIQUES**
Proper use of inspection tools and equipment. Emphasis is on applied use of geometric dimensioning and tolerancing, with use of granite layout surfaces. Prerequisite: Instructor’s permission and MCH 101.
Additional Fee: $68.40
78L2  6 Cr  ARRANGED  09/26/16-12/16/16  25 105Dam, 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: Instructor’s permission and MCH 101.
Additional Fee: $58.60
78M2  4 Cr  ARRANGED  09/26/16-12/16/16  25 105Dam, Ken [HYBRID]

MCH 231  
**MANUFACTURING RESOURCES & RESEARCH**
Study of resources for machining information with emphasis on methods of research. Prerequisite: Instructor’s permission and MCH 101.
Additional Fee: $58.60
78N2  4 Cr  ARRANGED  09/26/16-12/16/16  25 105Dam, Ken [HYBRID]

MCH 240  
**TRAINING AND PRACTICE**
This course provides special instruction to suit the individual’s needs. Repeated enrollment ensures progressively advanced training. The number of times one may enroll is based on the student’s needs, at the instructor’s advisement. PREREQUISITE: MCH 101 and Instructor’s permission.
Additional Fee: $88.00
78P2  Var  ARRANGED  09/26/16-12/16/16  25 105Dam, Ken

MASSAGE

MASST110  
**ANATOMY PHYSIOLOGY AND PATHOLOGY I**
Introduces the student to anatomy and physiology, cytology, integumentary, osteology, mycology, and nervous system.
Additional Fee: $73.00
1202  5 Cr  9:00AM-11:30AM  TTh  09/27/16-12/15/16  08 108Slegers, Edward

MASST112  
**SWEDISH MASSAGE THEORY**
Introduces students to the history, application and principles of Swedish massage. This includes not only the massage strokes, but also client safety, communication, and charting of results.
PREREQUISITES
Students will have submitted a medical statement of health from a primary care provider verifying their ability to safely participate in all aspects of the program prior to admission.
CO-REQUISITES
MASST 112 must be taken concurrently with MASST 120.
Additional Fee: $73.00
12B2  4 Cr  9:00AM-11:30AM  MW  09/26/16-12/14/16  08 108Meziere, Yvonne

MASST116  
**COMPLEMENTARY MASSAGE MODALITIES I**
Introduces the student to a variety of massage modalities that can be safely integrated into a massage practice. Modalities covered include fascial techniques, acupressure, seated massage and side-lying. Indications, contraindications and treatment modifications will be identified. Prerequisite: Successful completion of MASST 114 and MASST 117.
MASST120  SWEDISH MASSAGE PRACTICE
Students will apply knowledge and techniques taught in Swedish Massage Theory. This class prepares students to practice safe, relaxing, therapeutic and effective Swedish massage. In addition to proper use and application of Swedish massage strokes, students will also practice proper self-care techniques and learn how to care for their equipment.
CO-REQUISITES
MASST 120 must be taken concurrently with MASST 112.
Additional Fee: $73.00

MASST126  KINESIOLOGY: UPPER EXTREMITY
Introduces students to the study of movement. Presents the beginning principles and skills for locating and identifying bony landmarks and muscles of the upper extremity using palpation techniques, movement, and anatomical terminology.
Additional Fee: $73.00

MASST130  KINESIOLOGY: TRUNK AND MODALITIES I
Continue the study of movement. Builds upon the principles and skills for locating and identifying bony landmarks and muscles of the trunk using palpation techniques, movement, and anatomical terminology. Prerequisite: Successful completion of MASST 126
Additional Fee: $108.00

MASST133  DEEP TISSUE MASSAGE THEORY
Introduces the student to a variety of massage treatment techniques, providing ground work for clinical massage applications. Indications, contraindications, and treatment modifications will be identified and discussed. Prerequisite: Successful completion of MASST 114 and MASST 117. MASST 133 must be taken concurrently with MASST 134.
Additional Fee: $73.00

MASST134  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: Completion of MASST 114 and MASST 117. MASST 134 must be taken concurrently with MASST 133
Additional Fee: $73.00

MASST137  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.
Additional Fee: $108.00
**MASST143  ** MASSAGE BUSINESS & ETHICS I
Introduces important business knowledge, skills, and professional ethics vital to the successful practice of massage therapy after licensure. Learn and follow professional ethics as related to massage and learn and practice universal safety precautions, utilize and understand common medical terms, research the different avenues of employment available, and begin the process of building a successful massage business.
Additional Fee: $73.00
1272  2 Cr  9:00AM-11:30AM  F  09/30/16-12/16/16  08 108 Meziere, Yvonne

**MASST144  ** MASSAGE 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: Successful completion of MASST 143.
Additional Fee: $73.00
1282  2 Cr  5:30PM-7:00PM  TTh  09/27/16-12/13/16  08 108 Priest, Jason

**MASST146  ** KINESIOLOGY: LOWER EXTREMIT Y
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.
Additional Fee: $108.00
1292  2 Cr  7:00PM-9:45PM  TTh  11/22/16-12/15/16  08 108 Priest, Jason

**MASST162  ** MASSAGE 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. Additional Fee: $87.00
12A2  2 Cr  5:30PM-9:45PM  W  11/02/16-12/14/16  08 305 Priest, Jason

**MATH**

**MAT 082  ** BASIC MATHEMATICS
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.
PREREQUISITES
COMPASS pre-algebra 30 or higher or successful completion of MAT 060 is required.
5W11  5 Cr  8:00AM-8:50AM  DAILY  09/26/16-12/16/16  16 202 Sandoval, L [ENHANCED]
5W12  5 Cr  9:00AM-9:50AM  DAILY  09/26/16-12/16/16  16 202 Sandoval, L [ENHANCED]
5W13  5 Cr  11:00AM-11:50AM  MTW  09/26/16-12/16/16  16 116 Mollas, Tula [HYBRID]
5W14  5 Cr  ARRANGED  09/26/16-12/16/16  ON LINE  Mollas, Tula [ONLINE]
5W15  5 Cr  2:00PM-2:50PM  DAILY  09/26/16-12/16/16  16 113 Herring, Bill [ENHANCED]
5W21  5 Cr  8:00AM-10:00AM  MW  09/26/16-12/16/16  16 208 Schmeling, L [ENHANCED]
COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 091.

Develops algebraic topics including algebraic expressions, solving linear equations and inequalities, coordinate graphing, systems of equations, polynomials, factoring and introduction to rational expressions. PREREQUISITES

COMPASS algebra score of 32 or successful completion of MAT 082 is required.

Additional Fee: $24.50

MAT 091 INTRODUCTION TO ALGEBRA

Expands on algebraic topics including algebraic expressions, solving linear equations and inequalities, coordinate graphing, systems of equations, polynomials, factoring and introduction to rational expressions. PREREQUISITES

COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 091.

MAT 099 INTERMEDIATE ALGEBRA

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. PREREQUISITES

COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 091.
MAT 103 BUSINESS MATHEMATICS
Develops elements of algebra applied to percentages, markup and markdown, discounts, payroll, and simple and compound interest. Scientific calculator required.
PREREQUISITES
COMPASS algebra score of 62 or college algebra score of 40 or above or successful completion of MAT 088 or MAT 091.
0534 5 Cr 8:00AM-8:50AM DAILY 09/26/16-12/16/16 14 208Sweerus, Neil [ENHANCED]
0535 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sweerus, Neil [ONLINE]

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 088 or MAT 91 is required.
0536 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Gangaram, Jit [ONLINE]
0537 5 Cr 10:00AM-10:50AM DAILY 09/26/16-12/16/16 14 208Stultz, Douglas [ENHANCED]

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
0538 5 Cr 10:00AM-12:20PM Sa 09/26/16-12/16/16 16 113Stultz, Douglas [HYBRID]
0539 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Sweerus, Neil [ONLINE]
0540 5 Cr 10:00AM-10:50AM DAILY 09/26/16-12/16/16 16 202Sweerus, Neil [HYBRID]

MAT 110 MATH FOR NON-SCIENCE MAJORS
Covers a variety of topics including probability, statistics, finance, modeling, sets and counting, and exponential and logarithmic functions. PREREQUISITE: Appropriate COMPASS score or successful completion of MAT 99 is required.
0541 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Oyler, Mel [ONLINE]

MATH&141 PRE CALCULUS 1
Covers linear, quadratic, polynomial, exponential, logarithmic, and inverse functions and equations; linear and quadratic inequalities, graphs of functions, and graphic transformations. Graphing calculator required. Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 99 is required.
Additional Fee: $24.50
0542 5 Cr 2:00PM-2:50PM MTWTh 09/26/16-12/16/16 16 208Schmeling, L [HYBRID]

MATH&142 PRE CALCULUS 2
Covers circular, trigonometric, and inverse-trigonometric functions and graphs, trigonometric and inverse trigonometric identities, trigonometric equations, vectors and elementary vector operations. Graphing calculator required. Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 141 or equivalent is required.
0544 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Schmeling, L [ONLINE]
MATH&146  INTRODUCTION TO STATISTICS
Descriptive and inferential statistics, including measures of central tendency, dispersion or variation, and skewness. The student is 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-t, and F distributions, linear regression and correlation, and the Chi-square distribution. Graphing calculator is required. Prerequisite: Appropriate COMPASS placement score or successful completion of MATH& 99 is required.
Additional Fee: $24.50
0545  5 Cr  9:00AM-9:50AM  DAILY  09/26-12/16/16  16 113Stultz, Douglas [ENHANCED]
0546  5 Cr  ARRANGED  09/26-12/16/16  ON LINE  Addison, John [ONLINE]

MECHATRONICS

MEC 120  COMPUTER AIDED DESIGN I
Introduces the use of parametric computer-aided design (CAD) software to design parts working from engineering sketches and/or prototypes.
PREREQUISITES
Successful completion of FSME 113.
Fee: 24.50
MQ42  5 Cr  7:30AM-11:00AM  MW  09/26-12/16/16  25 103Yang, Feng [ENHANCED]

MEC 135  DIGITAL ELECTRONICS AND NETWORKING
Introduces logic fundamentals, numbering systems, codes, gates, truth tables, basic Boolean theorems and combination logic circuits. Also introduces the elements used to create TCP/IP-based industrial networks, including switches, routers and firewalls. The course will include network troubleshooting and the use of network diagnostic tools.
PREREQUISITES
Successful completion of MEC 115.
Fee: 24.50
MQ52  5 Cr  7:30AM-11:00AM  TTh  09/26-12/16/16  25 103Yang, Feng [ENHANCED]

MEC 140  COMPUTER PROGRAMMING
Introduces computer programming and problem solving. Topics include language syntax, data types, program organization, algorithm design and logic control structures. Also covers program design techniques such as flowcharts and the use of pseudocode.
PREREQUISITES
Successful completion of MATH& 141.
Fee: 24.50
MQ62  5 Cr  11:30AM-3:15PM  MW  09/26-12/16/16  25 103Yang, Feng [ENHANCED]

MEC 200  PROGRAMMABLE CONTROLS II
Exercises students’ PLC programming and integration skills through the completion of a project representative of modern industrial control practice. Students will also learn about installation, maintenance and troubleshooting of PLC systems.
PREREQUISITES
Successful completion of MEC 160.
MEC 281  INDEPENDENT STUDY I
A theoretical and/or lab-based investigation into a topic directly related to Mechatronics. Students meet in person with an instructor and agree to an appropriate course of study. Students registering for independent study must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the independent study and the student.
PREREQUISITES
Successful completion of ENGL& 101, MATH& 141, PHYS& 114, and instructor permission.
Fee: 55.00
MQ92 Var  ARRANGED  09/26-12/16/16  25 103Yang, Feng

MEC 282  INDEPENDENT STUDY II
A theoretical and/or lab-based investigation into a topic directly related to mechatronics. Students meet in person with an instructor and agree to an appropriate course of study. Students registering for independent study must submit, at or before registration, a description and timetable for completion, signed by both the instructor supervising the independent study and the student.
PREREQUISITES
Successful completion of ENGL& 101, MATH& 141, PHYS& 114, and instructor permission.
Fee: 55.00
MQA2 Var  ARRANGED  09/26-12/16/16  25 103Yang, Feng

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.
PREREQUISITES
Instructor permission required.
Fee: 55.00
MQ82 5 Cr  ARRANGED  09/26-12/16/16  25 103Yang, Feng

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.
PREREQUISITES
Instructor permission.
Fee: 55.00
MQB2 5 Cr  ARRANGED  09/26-12/16/16  25 103Yang, Feng

MEDICAL ASSISTANT
MAP 121  BODY SYSTEMS THEORY 101
Caring for patients with disorders associated with Hematology, Endocrinology, Obstetrics & Gynecology, Urology & Male Reproduction and Gastroenterology. Instruction will include anatomy and physiology, pathophysiology, pharmacology, and terminology.
PREREQUISITES
Successful completion of CAH 102, CAH 105, COLL 102 and MAP 107.
CO-REQUISITES
MAP 124.
3802  4 Cr  12:00PM-3:00PM  TTh  09/27/16-12/15/16  21 108Jones, Michel [HYBRID]

MAP 124  BODY SYSTEMS APPLICATIONS 101
Practice fundamental skills relating to Body Systems Theory 101. Skills include blood glucose monitoring, care and use of the microscope, blood typing, cell identification and staining along with physical and chemical urinalysis, and UA slide preparation.
PREREQUISITES
Successful completion of CAH 102, CAH 105CL, COLL 102 and MAP 107.
CO-REQUISITES
MAP 121.
Additional Fee: $26.00
3812  3 Cr  12:00PM-3:00PM  MW  09/26/16-12/12/16  21 108Jones, Michel [HYBRID]

MAP 164  BODY SYSTEMS APPLICATIONS 103
Practice fundamental skills relating to Body Systems Theory 103. Skills include; wound & burn care, assisting with sutures & suture removal, fiberglass cast application & removal, asepsis & infection control, identify surgical instruments & proper care of instruments, assist with minor office surgery, and operate autoclave. Also includes activities related to safety and emergency practices.
PREREQUISITES
Successful completion of MAP 146 and MAP 147.
CO-REQUISITES
MAP 166 and MAP 209.
Additional Fee: $14.70
3872  3 Cr  3:30PM-6:30PM  WF  09/28/16-12/14/16  21 122Keith, Lora [HYBRID]

MAP 166  BODY SYSTEMS THEORY 103
Caring for patients with disorders associated with Dermatology, Orthopedic Medicine, Surgical Asepsis & Procedures and Safety and Emergency Practices. Instruction will include anatomy and physiology, pathophysiology, pharmacology, injections and terminology.
PREREQUISITES
Successful completion of MAP 147 and MAP 146.
CO-REQUISITES
MAP 164 and MAP 209.
Additional Fee: $19.60
3862  4 Cr  3:30PM-6:30PM  TTh  09/27/16-12/06/16  21 111Keith, Lora [HYBRID]

MAP 173  ACCOUNTING PRACTICES
Covers basics of accounting and bookkeeping. Includes expanded discussion on manual procedures for accounts receivable management for both private patients and insurance companies.
PREREQUISITES
MAT 082 or higher. Completion of MAP 171 and MAP 179.

CO-REQUISITES
MAP 177 and MAP 209.

Additional Fee: $19.60

3842  4 Cr  7:00PM-9:30PM  TWThF 09/27/16-11/07/16 21 108Keith, Lora [HYBRID]

MAP 177  FINANCIAL PRACTICES
Continues developing skills from Accounting Practices course. Instruction also includes bank accounts, cash funds, and methods of preparation for employee and employer payroll and business taxes.

PREREQUISITES
MAT 082 or higher. Successful completion of MAP 171 and MAP 179.

CO-REQUISITES
MAP 173 and MAP 209.

Additional Fee: $9.80

3852  2 Cr  7:00PM-9:30PM  TWThF 11/08/16-12/09/16 21 108Keith, Lora [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, business correspondence for the medical office, including cover letter and resume preparation. Define law and ethics relating to the healthcare field focusing on components specific to medical assistants.

PREREQUISITES
Successful completion of CAH 102, CAH 105CL, COLL 102, and MAP 107.

CO-REQUISITES
MAP 184.

Additional Fee: $19.60

3822  4 Cr  8:00AM-11:00AM  MTWTh 09/26/16-11/10/16 21 108Jones, Michel [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 healthcare office. Focus will also include assisting patients in obtaining health and community services, as well as supplies and inventory control.

PREREQUISITES
Successful completion of CAH 102, CAH 105CL, COLL 102 and MAP 107.

CO-REQUISITES
MAP 182.

Additional Fee: $14.70

3832  3 Cr  8:00AM-11:00AM  MTWTh 11/10/16-12/15/16 21 108Jones, Michel [HYBRID]

MAP 209  PREPARATION FOR EXTERNSHIP
Introduction of pharmacology math (with estimation components), administering oral and parental (intramuscular, subcutaneous, and intradermal) medications, performance of phlebotomy and microbiology while adhering to medical/surgical asepsis and Universal/Standard Precautions. Also included are student demonstrations of patient flow and uploading immunizations into the college designated database.

PREREQUISITES
Successful completion of MAP’s 121, 124, 147, 146, 179, 171, 182, and 184. This course must be taken the quarter immediately prior to Quarter 5 courses. If more than one quarter passes before beginning Quarter 5, students will have to repeat this course.

CO-REQUISITES
MAP’s 164, 166, 173, and 177.

Additional Fee: $99.00

3882 4 Cr 3:30PM-10:00PM M 09/26/16-12/05/16 21 122 Keith, Lora [HYBRID]

**MEDICAL HISTOLOGY**

**HISTO105 ORIENTATION TO HISTOLOGY LAB**
Introduces laboratory and chemical safety as well as universal precautions. Covers basic overview of standard histology instrumentation, quality control procedures, specimen accessioning, record keeping, and documentation. Explores laboratory and personnel certification requirements. Prerequisites: Successful completion of BIOL 118, CHEM& 110, and ENGL& 101.
Instructor permission required.
Additional Fee: $40.00

5602 2 Cr 8:00AM-2:00PM DAILY 09/26/16-10/03/16 21 232 Haggerty, Reb [ENHANCED]

**HISTO110 HISTO TECHNOLOGY I**
Explores the theory and principles of fixation, processing, embedding, sectioning, and coverslipping of tissue sections. Prerequisites: Successful completion of BIOL 118, CHEM& 110, and ENGL& 101.
Instructor permission required.
Additional Fee: $40.00

5612 10 Cr 8:00AM-2:00PM DAILY 10/04/16-12/16/16 21 232 Haggerty, Reb [ENHANCED]

**HISTO115 HISTO TECHNOLOGY LAB I**
Explores work in a simulated histology laboratory located on the campus. During this course, students will have hands-on training in basic grossing techniques, as well as in-depth training in processing, embedding, and cutting of tissue sections. Students will also learn to identify basic tissue structures using a light microscope.
Instructor permission required.
Additional Fee: $40.00

5622 5 Cr 8:00AM-2:00PM DAILY 10/04/16-12/16/16 21 232 Haggerty, Reb [ENHANCED]

**MEDICAL LABORATORY TECHNICIAN**

**MLT 221 BODY FLUIDS**
Introduces the production, collection, and analyses of various body fluids, including Cerebro-Spinal and Synovial fluids. This lecture-only course is presented on Wednesday afternoons during the fall quarter clinical phase.
Prerequisite: MLT 218
Additional Fee: $27.00

4812 1 Cr 1:00PM-4:00PM W 10/26/16-12/14/16 21 222 Guinn, Dana [HYBRID]

**MLT 227 CLINICAL CHEMISTRY**
Beginning with an overview of the digestive system, students will study the relationship between blood levels of many substances and normal-versus-abnormal physiology. In the student laboratory, manual and semi-automated procedures are performed for the assay of many commonly-measured blood components. Preventative
maintenance of instruments, troubleshooting, and quality assurance are stressed throughout the course. This course is offered fall quarter. Prerequisite: MLT 223.

Additional Fee: $27.00

**MLT 232   CLINICAL EXPERIENCE I**

Begin the clinical phase of training in an affiliated laboratory. During this course, students will complete eight weeks of the experience. In the next courses (MLT 235 and 236), they will continue training for eleven more weeks. Over the course of the nineteen weeks of clinical training, the students will rotate through all departments and perform current routine procedures by state-of-the-art methodologies. Appropriate amounts of time are spent working in each particular discipline; to accomplish this, some students rotate through two or three different laboratories. Students are directly supervised by staff of the affiliated laboratory; there is ongoing contact with the Instructor in the form of weekly site-visits and Wednesday afternoon class sessions. A report of No Record on File regarding crimes against persons from the Washington State Patrol is required for participation in this training. This course is offered during fall quarter. Prerequisite: MLT 218

Additional Fee: $14.00

**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: $45.00

09F2  5 Cr  8:00AM-12:30PM  DAILY 09/26-12/16/16  SHC115  Boswell, Chris

**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: $45.00

09G2  4 Cr  8:00AM-12:30PM  DAILY 09/26-12/16/16  SHC115  Boswell, Chris

**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: $45.00

09H2  3 Cr  8:00AM-12:30PM  DAILY 09/26-12/16/16  SHC115  Boswell, Chris

**NDT 108   INTRODUCTION TO NDT**

This course is an introduction to terms and definitions and a method overview of nondestructive testing. Methods include eddy current, visual liquid penetrant, magnetic particle, radiography and ultrasonic testing.

Additional Fee: $45.00

09T2  5 Cr  8:00AM-12:30PM  DAILY 09/26-12/16/16  SHC115  Boswell, Chris

**NDT 113   MATERIALS AND PROCESS FOR NDT I**
Explores the properties of mate materials, both metals and non-metals, and their applications in design and manufacturing. Introduction to Lean Concepts and applications.

**Additional Fee: $45.00**

**NDT 120 VISUAL AND OPTICAL TESTING**
Students will learn to detect various discontinuities related to power plant industry, structural steel fabrication and construction industry aerospace industry, petro-chemical industry and manufacturing processes.

**Additional Fee: $190.00**

**NDT 121 MATERIALS AND PROCESS FOR NDT II**
Learn the major manufacturing processes used to fabricate parts, their possible discontinuities and how to choose the appropriate NDT methods to inspect them.

**Additional Fee: $45.00**

**NDT 125 MAGNETIC PARTICLE TESTING**
Learn proper magnetization techniques, evaluate indications, interpret accept/reject standards, and implement quality control techniques. Students develop and write procedures and inspect welds, castings, and machined components. The course includes extensive hands-on training in the magnetic particle lab.

**Additional Fee: $190.00**

**NDT 130 LIQUID PENETRANT TESTING**
Covers principles and practices of liquid penetrant inspection. Learn why and when to use various types of penetrant materials, and the proper techniques necessary for reliable inspection. The course addresses the evaluation of liquid penetrant indications, interpreting standards and specifications, and checking penetrant system quality. Students review fundamental liquid penetrant principles and techniques, develop and write procedures, and inspect welds, castings, forgings, and machined components. Parts are evaluated according to relevant codes and/or standards.

**Additional Fee: $190.00**

**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**

**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**

**NDT 185 PHYSICS FOR NDT PROFESSIONALS**
Covers physics concepts used in nondestructive testing, including right-triangle trigonometry, waves, sound, electric fields, electric current, resistance, circuits, magnetism, and the electromagnetic spectrum.

**PREREQUISITES**
Successful completion of MAT 099.
Additional Fee: $45.00

09Q2 5 Cr  1:45PM-4:15PM  MW  09/26/16-12/16/16  SHC114  Oyler, Mel

**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: $190.00

09L2 5 Cr  8:00AM-12:30PM  DAILY  09/26/16-12/16/16  SHC114  Musson, Chuck

**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.
Additional Fee: $45.00

09R2 3 Cr  ARR  DAILY  09/26/16-12/16/16  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.
Additional Fee: $45.00

09S2 Var ARR  DAILY  09/26/16-12/16/16  SHC114  Musson, Chuck

**NURSING ASSISTANT**

**NAC 101  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.

**PREREQUISITES**
Ability to lift up to 25 pounds.

NS02 6 Cr  8:00AM-2:30PM  TWTh  09/26/16-10/19/16  21 211 Hernandez, Kandy

**NAC 102  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.

**PREREQUISITES**
Documentation of required immunizations, ability to lift up to 25 pounds, and no record on file from the Washington State Patrol and DSHS. Successful completion of NAC 101.

Additional Fee: $40.00
NS12 4 Cr  7:30AM-4:00PM  MT  10/19/16-12/16/16  21 137 Hernandez, Kandy
NS22 4 Cr  7:30AM-4:00PM  WTh  10/19/16-12/16/16  21 137 Sword, Yvette

NAC 107  UNIT BASED CLINICAL EXPERIENCE
This course includes clinical experience in a long-term facility under the supervision of an instructor.
PREREQUISITES
Documentation of required immunizations, ability to lift up to 25 pounds. Students must have no record on file for crimes against children or vulnerable adults from the Washington State Patrol and DSHS. Successful completion of NAC 101.
Additional Fee: $14.00
NS32 3 Cr    ARRANGED  09/26/16-12/16/16 ARR Hernandez, Kandy

NURSING ASSISTANT I-BEST

NAC 126  NURSING ASSISTANT THEORY I I-BEST
Introduction to the role and responsibilities of a Nursing Assistant. Includes the following topics: resident/work environment, infection control, special needs of the elderly, communication and interpersonal skills, body systems (introduction to key anatomical, physiological and pathological terms), documentation responsibilities, residents' rights, long-term care setting, legal/ethical issues, and stages of death and dying. This course will meet the didactic portion of Washington State and Omnibus Budget Reconciliation Act (OBRA) requirements for Nursing Assistant Training.
Instructor permission required.
Additional Fee: $40.00
NS2N 3 Cr  6:30PM-8:00PM  TWH  09/27/16-11/17/16  21 211 Collar, Shari

NAC 133  NURSING ASSISTANT THEORY II I-BEST
Covers infection control, documentation responsibilities, first aid & CPR training, HIPAA, and HIV training.
Instructor permission required.
Additional Fee: $40.00
NS2T 3 Cr  4:00PM-8:00PM  TWT  11/22/16-12/15/16  21 137 Collar, Shari

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.
PREREQUISITES
Admission to Practical Nursing program.
Instructor permission required.
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. Prerequisites 102, 109, 112, 113, 115, 119.
Additional Fee: $99.00

NURS 122  PRE-PHARMACOLOGY
Prepares students to calculate drug dosages in order to accurately prepare and administer medications to a varied client population. Basic principles for client safety are reviewed.
PREREQUISITES
Admission to Practical Nursing program.
Additional Fee: $88.00

NURS 123  BASIC HEALTH ASSESSMENT & SKILLS
Provides laboratory demonstration and supervised practice of nursing skills discussed in NURS 117 and NURS 120. Students will demonstrate competence in selected skills, using principles taught. During laboratory practice, students will use simulated equipment and classmates as patients.
PREREQUISITES
Admission to Practical Nursing program.

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: NURS 102, 109, 112, 113, 115, 119.

NURS 133  MEDICAL-SURGICAL NURSING III
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. Pharmacologic and nutritional considerations and client teaching are integrated.
PREREQUISITES
Successful completion of NURS 125, NURS 126, NURS 128, NURS 130 and NURS 131.
Additional Fee: $88.00

NURS 149  CLINICAL PRACTICUM I
Provides an opportunity for students to provide care to clients in long-term care, acute, and community settings. Experience involves direct client care, nursing procedures, and administration of medications to diverse clients of every stage of life. Focuses on safe nursing practice, nursing process, communication, documentation and client teaching.
NURS 204  LPN TO RN TRANSITION
This is a self-paced course that offers the introduction to the transition process of the Licensed Practical Nurse to the Registered Nurse student. Students will be provided an opportunity to remediate on skills and knowledge learned in Practical Nurse training. Students will be introduced to the scope of practice decision tree. Students will be required to demonstrate competency in identified practical nurse skills and knowledge before continuing into the RN program.

PREREQUISITES
Admission to Associate Degree in Nursing (ADN) program.

2502  1 Cr  ARRANGED  09/26-12/16/16  ON LINE  Bahrt, David [ONLINE]

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.

PREREQUISITES
Successful completion of ENGL& 101.

0569  5 Cr  12:00PM-2:30PM  F  09/30-12/16/16  21 107 Scott [HYBRID]
0572  5 Cr  3:00PM-5:00PM  F  09/30-12/16/16  21 107 Scott [HYBRID]
OPERATIONS MANAGEMENT

ENG 310 BUSINESS COMMUNICATIONS
Teaches students some of the techniques necessary to develop realistic and comprehensive project plans; identify risk areas; monitor the plans; and deal with problems. The course will also cover management of the procurement process, and communication with project stakeholders.
PREREQUISITES
Successful completion of ENGL & 101.
BA22 5 Cr  ARRANGED  09/26/16-12/16/16  19 107 Patching, Les [HYBRID]

OPM 311 MATHEMATICAL TECHNIQUES FOR OPERATIONS MANAGEMENT
Provides students with the foundational mathematical tools required for operations management, including acceptance sampling, decision theory, probability theory, and linear programming.
PREREQUISITES
Successful completion of MATH& 146.
BA02 5 Cr  ARRANGED  09/26/16-12/05/16 19 107 Oyler, Mel [HYBRID]

OPM 312 FORECASTING AND SYSTEM DESIGN
Introduces students to forecasting and capacity planning tools for manufacturing and service organizations. Covers the selection of appropriate processes and facility layouts, the design of work systems and maintenance planning.
PREREQUISITES
Successful completion of OPM 311 or instructor permission.
BA12 5 Cr  ARRANGED  09/26/16-12/16/16 19 107 Oyler, Mel [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.
Additional Fee: $123.60
3502 4 Cr  6:00AM-1:00PM  WF  09/28/16-12/16/16  23 308 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 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. Additional Fee: $138.30
3512 7 Cr  6:00AM-1:00PM  TWThF  09/27/16-12/16/16  23 308 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 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. Additional Fee: $138.30
3522 7 Cr  6:00AM-1:00PM  TWThF  09/27/16-12/16/16  23 308 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: $118.70
3532  3 Cr  6:00AM-1:00PM  TTh  09/27/16-12/16/16  23 308 Newman, Shell

BAKE 119  YEAST BREADS
Introduces students to the techniques used with starters and yeasts. Students will demonstrate how to cultivate yeast and proper proofing and baking techniques, along with completing a variety of yeast breads. Additional Fee: $123.60
3542  4 Cr  6:00AM-1:00PM  WF  09/28/16-12/16/16  23 308 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 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: $138.30
3552  7 Cr  6:00AM-1:00PM  TWThF  09/27/16-12/16/16  23 308 Newman, Shell

BAKE 161  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.
Additional Fee: $123.60
3562  4 Cr  9:00AM-1:45PM  WThF  09/28/16-12/16/16  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: $118.70
3572  3 Cr  6:00AM-1:00PM  TTh  09/27/16-12/16/16  23 308 Newman, Shell

PHARMACY TECHNICIAN

PT 121  INTRODUCTION TO PHARMACY & PHARMACY LAW
Orients students to the work of pharmacy technicians and the context in which technicians’ work is performed. Study of pharmacy law, as it pertains to the practice of pharmacy in the state of Washington compared to the United States as a whole. Prerequisites: High school diploma or GED. Computer literate. Ability to speak, read, and write the English language. Successful completion of Math 107, 108, or 109, or higher. Successful completion of a 5 credit Medical Terminology course. Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above. Instructor permission required.
PT 124 PHARMACOLOGY PART I
Explores drug action mechanisms, the routes of administration, and the effects on body systems. Emphasis on the uses, effects, and side effects of the major drug classes. Prerequisite: Same as PT 121. Instructor permission required.

PT 128 PHARMACOLOGY PART II
Continues the exploration of drug action mechanisms, the routes of administration, and the effects on body systems. Emphasis on the uses, effects, and side effects of the major drug classes and the systems they are used on. Prerequisite: Successful completion of PT 121, PT 124, PT 129 and PT 143 with a grade of B or above.

PT 131 COMMUNITY PHARMACY PRACTICE
Introduces the retail pharmacy experience. Explores all aspects of community pharmacy practice, including keyboarding, prescription filling and compounding. Customer service is explored as well.

PREREQUISITES
High school diploma or high school equivalency diploma. Computer literacy. Ability to speak, read, and write the English language. Successful completion of a college-level math course within the last five years. Successful completion of a 5-credit Medical Terminology course. Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above.

Additional Fee: $24.50

PT 144 GENERIC DRUG NAMES PART I
Introduces the top 200 drugs prescribed in the United States each year. Prerequisites: Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above. Instructor permission required.

Additional Fee: $14.70

PT 145 HOSPITAL PRACTICE
Introduces students to formularies, manual and electronic distribution systems, and procedures for hospital practice.

PREREQUISITES
Successful completion of PT 121, PT 124, PT 131, PT 144, and PT 156 with grades of B or above in all courses. Additional Fee: $19.60

PT 148 CLINICAL CAPSTONE RESEARCH
Discover local pharmacies and the requirements for internship. Explore professional conduct and appearance. Prepare for National Certification. Prerequisite: Successful completion of all first quarter pharmacy technician requirements.

PT 153 GENERIC DRUG NAMES PART II
Continues the exploration of the top 200 drugs prescribed in the United States each year, adding a component of drugs used specifically in the hospital setting. Prerequisite: Successful completion of PT 143 Generic Drug Names I.

PT 156 PHARMACEUTICAL CALCULATIONS
Math specific to the practice of pharmacy will be explored. Prerequisite: Successful completion of CAH 105 Computer Applications. All courses must be completed with a B or above. Instructor permission required.
Additional Fee: $9.80

PT 160 STERILE PARENTERAL PRODUCT PREPARATIONS
Students will apply techniques learned to prepare sterile compounding products. Emphasis will be on aseptic technique and USP <797>.
PREREQUISITES
Successful completion of PT 121, PT 124, PT 131, PT 144 and PT 156 with grades of B or above in all courses.
Additional Fee: $88.00

PT 163 COMMUNITY PHARMACY CLINICAL CAPSTONE
Students will spend 5 weeks in a Community Pharmacy setting. While in this capstone experience, student will perform the duties of a community pharmacy technician under the direct supervision of a pharmacist. There will be ongoing contact with the Instructor in the form of site visits and seminars. Prerequisite: Successful completion of all in-class pharmacy technician requirements with grades of B or above in all courses.
Additional Fee: $14.00

AVP 105 PRIVATE PILOT I
Training in basic aircraft control, aircraft systems, airport procedures, and traffic pattern operations. Prerequisite: FAA Class II Medical with Student Pilot Certificate prior to the first day of class.
Instructor permission required.
Additional Fee: $19.60
Covers aircraft control, establishing and maintaining specific flight altitudes, and ground reference maneuvers. Prerequisite: AVP 105 or equivalent.
Instructor permission required.
Additional Fee: $19.60
5112  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars

AVP 115  PRIVATE PILOT III
Basic performance maneuvers, traffic pattern procedures, and takeoffs and landings. Upon successful completion, the student shall solo the aircraft. Prerequisite: AVP 110 or equivalent.
Instructor permission required.
Additional Fee: $19.60
5122  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars

AVP 118  PRIVATE PILOT PRACTICAL TEST STANDARDS I
Receive additional flight and ground training as required to meet pilot certification requirements. Introduces knowledge, skill, and aeronautical experience necessary to successfully complete the navigation and cross country flight portion of flight training. Prerequisite: Grade of "C" or better in AVP 115 or equivalent.
Instructor permission required.
Additional Fee: $19.60
5132  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars [ENHANCED]

AVP 125  PRIVATE PILOT IV
Introduces knowledge, skill and aeronautical experience necessary to successfully complete the navigation and cross country flight portion of flight training. Prerequisite: AVP 115 or equivalent
Instructor permission required.
Additional Fee: $19.60
5142  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars

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: AVP 125 or equivalent.
Instructor permission required.
Additional Fee: $19.60
5152  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars

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: AVP 130 or equivalent.
Instructor permission required.
Additional Fee: $19.60
5162  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars

AVP 138  PRIVATE PILOT PRACTICAL TEST STANDARDS II
Receive additional flight and ground training as required to meet pilot certification requirements.
Instructor permission required.
Additional Fee: $19.60
5172  4 Cr  12:00PM-3:00PM  DAILY 09/26-12/16/16  SHC105  Collins, Mars [ENHANCED]
AVP 140 INSTRUMENT PILOT I
Introduces skills that will establish a strong foundation in basic altitude instrument flying and basic instrument navigation. Prerequisite: FAA Private Pilot Certificate. Instructor permission required. Additional Fee: $19.60
5182 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 145 INSTRUMENT PILOT II
Perform precision altitude instrument flight, including advanced navigation techniques and procedures. Prerequisite: AVP 140 or equivalent. Instructor permission required. Additional Fee: $19.60
5192 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 150 INSTRUMENT PILOT III
Apply advanced navigation techniques and perform holding pattern entry procedures. Prerequisite: AVP 145 or equivalent. Instructor permission required. Additional Fee: $19.60
51A2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 152 INSTRUMENT PILOT PRACTICE III
Receive additional flight and ground training as required to meet pilot certification requirements. Perform holding patterns and instrument approach procedures. Prerequisite: Grade of "C" or better in AVP 150 or equivalent. Instructor permission required. Additional Fee: $19.60
51B2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars [ENHANCED]

AVP 155 INSTRUMENT PILOT IV
Perform holding patterns and instrument approach procedures. Prerequisite: AVP 150 or equivalent Instructor permission required. Additional Fee: $19.60
51C2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 160 INSTRUMENT PILOT V
Perform cross-country flight utilizing advanced navigation procedures. Utilize ATC communication procedures and conduct instrument departures, arrivals, and approaches. Prerequisite: AVP 155 or equivalent. Instructor permission required. Additional Fee: $19.60
51D2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 170 INSTRUMENT PILOT VI
Gain the proficiency to meet the requirements necessary for FAA Instrument-Airplane Rating. Prerequisite: AVP 160 or equivalent. Instructor permission required. Additional Fee: $19.60
51F2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars
AVP 172  INSTRUMENT PILOT PRACTICAL STANDARDS IV
Receive additional flight and ground training as required to meet pilot certification requirements.
Instructor permission required.
Additional Fee: $19.60
51G2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  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.
Instructor permission required.
Additional Fee: $19.60
51H2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

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: AVP 175 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51J2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

AVP 185  COMMERCIAL PILOT III
Receive final training in VFR cross-country flight and night operations. The necessary cross-country flight hours
required for Commercial Pilot Certification will be completed. Prerequisite: AVP 180 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51K2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

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:
Grade of "C" or better in AVP 185 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51L2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

AVP 215  COMMERCIAL PILOT V
Gain additional aeronautical knowledge and flying skills necessary for the performance of advanced precision
flight maneuvers. Prerequisite: AVP 210 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51M2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

AVP 220  COMMERCIAL PILOT VI
Receive advanced training in all of the required Commercial Pilot Certification maneuvers. Flying proficiency in
these maneuvers will meet the requirements set forth in the FAA Practical Test Standards. Prerequisite: AVP 215
or equivalent.
Instructor permission required.
Additional Fee: $19.60
51N2  4 Cr  8:00AM-11:00AM  DAILY  09/26/16-12/16/16  SHC105  Collins, Mars

92
AVP 223  COMMERCIAL PILOT PRACTICAL STANDARDS V
Receive additional flight and ground training as required to meet pilot certification requirements.
Instructor permission required.
Additional Fee: $19.60
51P2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  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: Grade of "C" or better AVP 220 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51Q2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars

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: AVP 230 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51R2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars

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: AVP 235 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51S2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars

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: Grade of "C" or better in AVP 240 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51T2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars

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: AVP 245 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51U2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars

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: AVP 250 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51V2  4 Cr  8:00AM-11:00AM  DAILY 09/26/16-12/16/16  SHC105  Collins, Mars
AVP 257 COMMERCIAL PILOT PRACTICAL STANDARDS VI
Receive additional flight and ground training as required to meet pilot certification requirements. 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: FAA Commercial Pilot, Airplane Certificate, and Instrument Airplane Rating. Instructor permission required.
Additional Fee: $19.60
51W2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 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. Prerequisite: FAA Commercial Pilot; Airplane Certificate and Instrument Airplane Rating
Instructor permission required.
Additional Fee: $19.60
51X2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 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: AVP 260 or equivalent.
Instructor permission required.
Additional Fee: $19.60
51Y2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

AVP 268 INSTRUMENT FLIGHT INSTRUCTOR
Acquire the aeronautical knowledge, skills, and experience necessary to meet the requirements for an FAA Instrument Flight Instructor rating. Prerequisite: FAA Commercial Pilot-Airplane Certificate with Instrument Airplane Rating Certified Flight Instructor-Airplane Certificate.
Instructor permission required.
Additional Fee: $19.60
51Z2 4 Cr 8:00AM-11:00AM DAILY 09/26/16-12/16/16 SHC105 Collins, Mars

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.
0549 5 Cr ARRANGED 09/26/16-12/16/16 ON LINE Wheeler, Mike [ONLINE]

PSYC&100 GENERAL PSYCHOLOGY
Surveys the knowledge and methods of the discipline of psychology. A broad view of this subject is presented and establishes the foundation for further study of the discipline. Emphasis will be placed upon the application of psychological knowledge to daily situations, and upon accessing and assessing information about behavior from
a variety of sources. Skills in scientific reasoning and critical thinking will be developed. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

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**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 policymaking will be discussed so that students may apply course information to meaningful problems.

PREREQUISITES

Successful completion of PSYC& 100.

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**PSYC&220 ABNORMAL PSYCHOLOGY**

Abnormal Psychology addresses the development, symptoms, and treatment of psychological and personality disorders. Prerequisite: Successful completion of PSYC& 100 or PSY 112.

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**PUBLIC SPEAKING**

**CMST&220 BUSINESS AND PROFESSIONAL SPEAKING**

AN OPEN COURSE LIBRARY CLASS; 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, e-mail, community interaction, and other practical tools support student learning and increase public speaking skills. Emphasis is placed in principles of cultural diversity. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

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**RESTAURANT OPERATIONS**

**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. Additional Fee: $130.00

REST 112  RESTAURANT DINING
Familiarizes the student with all aspects of running a casual style dining room which is open to the public. Included are opening/closing procedures, table set-up, customer service techniques, and leadership, sanitation, and safety procedures. Instructor permission required. Additional Fee: $130.00

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. Additional Fee: $130.00

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. Additional Fee: $130.00

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. Additional Fee: $130.00

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. Additional Fee: $130.00

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. Additional Fee: $130.00
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.
5782  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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.
5792  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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.
57A2  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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 e-mail, 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.
5742  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, Ryan [ONLINE]

RBM 113  BUSINESS TECHNOLOGY FOR RETAIL APPLICATIONS
Gain hands-on experience with the fundamentals of Office, like entering data, formatting, copying and pasting, basic formula construction, auto summing and more. This course will not only teach you the basics of Microsoft Office but will also teach you the thinking and mechanics of how to apply it to your everyday retail problems.
57B2  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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.
57C2  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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 control and supply chain management.
5772  3 Cr  ARRANGED  09/26/16-12/16/16 ON LINE  Reygers, 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.

57J2 3 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

RBM 123 CUSTOMER SERVICE STRATEGIES
Concepts of effective customer service, step-by-step suggestions for improving your skills, and valuable references for delivering exceptional internal and external customer service skills. Offered online.

5752 5 Cr ARRANGED 09/26/16-12/16/16 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.

5722 5 Cr ARRANGED 09/26/16-12/16/16 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. Develop selling skills through role-play, case studies, and in-class simulations. Offered online.

57G2 5 Cr ARRANGED 09/26/16-12/16/16 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.

5762 4 Cr ARRANGED 09/26/16-12/16/16 ON LINE Reygers, Ryan [ONLINE]

RBM 162 SOCIAL MEDIA MARKETING
Social Media Marketing will give you a practical approach to developing successful social media marketing plans. A proven eight-step social-media planning model provides students with a cumulative learning experience, showing them how to construct social media strategies that achieve desired marketing goals.

57H2 5 Cr ARRANGED 09/26/16-12/16/16 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.

57K2 5 Cr ARRANGED 09/26/16-12/16/16 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.

57D2 5 Cr ARRANGED 09/26/16-12/16/16 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.

RBM 201  INTRODUCTION TO BUSINESS
Introduces students to the functional areas of business: management, marketing, accounting, finance, and information technology. Core topics highlighted within these areas include ethics and social responsibility, forms of business ownership, small business concerns, and international issues.

SOCIOMETRY

SOC& 101  INTRODUCTION TO SOCIOLOGY
Provides an overview of many theories relating to contemporary society and a historical context for these theories. Prerequisite: Appropriate COMPASS/SLEP placement score or successful completion of ENG 094.

SURGICAL TECHNOLOGY

SURG 126  PATIENT CARE THEORY I
Covers surgical attire, instrument groups, OR preparation and equipment, case selection, patient transfer, positioning, skin preparation and draping concepts, patient identification, and consent. Prerequisites: Successful completion of SURG 136, 137, 138, 146.

SURG 127  PHARMACOLOGY & ANESTHESIA
Introduces the student to basic surgical-related pharmacologic and anesthetic principles, including drug classification, proper medication labeling and handling, aseptic medication preparation, and usage principles of anesthesia administration and monitoring, including complications and intervention. Prerequisites: Successful completion of SURG 136, 137, 138, 146.

SURG 141  OPERATING ROOM THEORY II
Classroom and lab presentations of surgical specialties to include otorhinolaryngologic, orthopedic, oral/maxillofacial, plastic/reconstructive procedures, and surgical anatomy. Prerequisites: Successful completion of SURG 136, 137, 138, 146.

Additional Fee: $39.20

SURG 151  SURGICAL LAB II
Lab presentations and practice of surgical procedures to include otorhinolaryngologic, oral/maxillofacial, and plastic/reconstructive procedures. Prerequisites: Successful completion of SURG 136, 137, 138, 146.5.
SURG 215  CLINICAL APPLICATIONS I
Provides the framework for the student to receive experience in the operating room. Through one-on-one training in a perioperative setting, the student will develop the professional attitude, behavior, and skills to reinforce their role as a member of the perioperative team. Prerequisites: Successful completion of SURG 130, 206, 207, 211. Additional Fee: $14.00

SURG 220  CLINICAL APPLICATIONS II
See Clinical Applications. Prerequisites: Successful completion of SURG 130, 206, 207, 211, 215. Additional Fee: $14.00

SURG 235  SEMINAR I
Classroom presentations on health and wellness, and death and dying. Classroom preparation for the NBSTSA exam. Prerequisites: Successful completion of SURG 130, 206, 207, 211. Additional Fee: $14.70

WELDING TECHNOLOGY

WLD 105  WELDING THEORY I
Introduces the tools and equipment used in welding. Includes safety considerations, electrical principles, weld quality, and technical orientation for select welding and cutting processes. Corequisites: WLD 110 and WLD 112. Instructor permission required. Additional Fee: $105.00

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: $105.00

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: $105.00
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.
PREREQUISITES
Completion of or concurrent enrollment in WLD 105.
Additional Fee: $105.00

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.
PREREQUISITES
Successful completion of WLD 105.
Additional Fee: $105.00

WLD 142  WELDING THEORY II
Explores methods of weld inspection and testing, and continues the technical orientation to select welding processes. Prerequisite: WLD 105.
Instructor permission required.
Additional Fee: $105.00

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: WLD 105.
Instructor permission required.
Additional Fee: $105.00

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: $105.00
WLD 157  METALLURGY
Examines metal identification and classification, mechanical properties, crystalline structures, heat treatments and metallurgical effects of welding.

PREREQUISITES
Successful completion of WLD 142.
Additional Fee: $105.00

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: $105.00

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: $105.00

WLD 211  ADVANCED GTAW I
Develops the welding techniques in all positions for Gas Tungsten Arc Welding for a variety of light gauge steel and aluminum joint designs.

PREREQUISITES
Successful completion of WLD 210 or instructor permission.
Additional Fee: $105.00

WLD 214  ADVANCED GTAW II
Develops the welding techniques in all positions for Gas Tungsten Arc Welding for a variety of light gauge exotic metals joint designs.

PREREQUISITES
Completion of, or concurrent enrollment in, WLD 211.
Additional Fee: $105.00
**WLD 215  COOPERATIVE WORK EXPERIENCE**

 Provides on-the-job practical experience under the supervision of an employer. Instructor permission is required for site choice. Prerequisite: Advanced standing with Instructor's permission.

 Instructor permission required.

 Additional Fee: $105.00

 98AH Var ARRANGED 09/26-12/16/16 25 403 Agostino
 98BH Var ARRANGED 09/26-12/16/16 25 403 Tonyuk
 98H2 Var ARRANGED 09/26-12/16/16 25 403 Meyers, David

**WLD 217  SPECIAL PROJECTS**

 Develops skill 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 as assigned.

 Prerequisite: Advanced standing with Instructor's permission.

 Instructor permission required.

 Additional Fee: $105.00

 98AJ Var ARRANGED 09/26-12/16/16 25 403 Agostino
 98BJ Var ARRANGED 09/26-12/16/16 25 403 Tonyuk
 98J2 Var ARRANGED 09/26-12/16/16 25 403 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.

 PREREQUISITES

 Advanced standing with instructor’s permission.

 Additional Fee: $105.00

 98AK Var ARR DAILY 09/26-12/16/16 25 403 Agostino
 98BK Var ARR DAILY 09/26-12/16/16 25 403 Tonyuk
 98K2 Var ARR DAILY 09/26-12/16/16 25 403 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.

 PREREQUISITES

 Successful completion of WLD 142 or instructor permission.

 Additional Fee: $105.00

 98AL 7 Cr 12:00PM-5:00PM DAILY 09/26-12/16/16 25 403 Agostino
 98BL 7 Cr 5:00PM-10:00PM DAILY 09/26-12/16/16 25 403 Tonyuk
 98L2 7 Cr 7:00AM-12:00PM DAILY 09/26-12/16/16 25 403 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.

**PREREQUISITES**
Successful completion of WLD 142 or instructor permission.

**Additional Fee:** $105.00

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**WLD 227  ADVANCED PIPE**
Develops welding techniques required to make sound welds on pipe in a variety of joints and positions.

**PREREQUISITES**
Successful completion of WLD 142 or instructor permission.

**Additional Fee:** $105.00

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**WLD 229  METAL-FORMING**
Develops techniques, tools, and equipment necessary to form metal into a variant of shapes.

**PREREQUISITES**
Successful completion of WLD 157 Metallurgy or instructor permission.

**Additional Fee:** $105.00

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**WLD 233  LAYOUT AND FABRICATION**
Covers layout and fabrication techniques required for building production welding projects. Prerequisites: WLD 210 and/or instructor permission.

**Additional Fee:** $105.00

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**WLD 235  WABO TEST PREP**
Covers welding techniques required to pass a 3G, 4G, 5G and 6G weld test using a variety of welding processes. Prerequisites: WLD 117, WLD 123, WLD 152, WLD 168, WLD 172, WLD 210 or instructor permission. Additional Fee: $105.00

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**WLD 238  FCAW II**
Covers welding techniques in all positions for Flux Core Arc Welding without shielding gasses for a variety of joint designs.

**Prerequisites:** WLD 152 and/or instructor permission. Additional Fee: $105.00
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