

# CAREER & COLLEGE PROMISE

## CAREER & TECHNICAL EDUCATION PATHWAY GUIDE

Earn college  
credit tuition  
free!

# CRAVEN

COMMUNITY COLLEGE



## Accounting: Small Business Accounting (C25800HA)

ACC 120

ACC 130

ACC 150

BUS 115

BUS 139

CIS 110

### **ACC-120 Principles of Financial Accounting**

Prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

### **ACC-130 Business Income Taxes**

Introduces the relevant laws governing business and fiduciary income taxes.

### **ACC-150 Accounting Software Application**

Use a computer accounting package to accurately solve accounting problems.

### **BUS-115 Business Law I**

Analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

### **BUS-139 Entrepreneurship**

Understand the entrepreneurial process and issues faced by entrepreneurs.

### **CIS-110 Introduction to Computers**

Demonstrates understanding of the role and function of computers and use the computer to solve problems.

## Automotive: Undercar (C60160HC)

AUT  
141/A

AUT  
151/A

AUT 213

TRN 110

TRN  
140/A

### **AUT-141/141A Suspension and Steering**

Service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.

### **AUT-151/151A Brake Systems**

Diagnose, service, and repair various automotive braking systems.

### **AUT-213 Automotive Servicing 2**

Perform a variety of automotive repairs using proper service procedures and to operate appropriate equipment.

### **TRN-110 Intro to Transport Tech**

Demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities.

### **TRN-140/140A Transportation Climate Control**

Diagnose and repair vehicle climate control systems.

## Aviation Systems Technology: Airframe Certificate (A60200HA)

AVI 110

AVI 120

AVI 130

AVI 230

### AVI-110 Aviation Maintenance- General

Topics include mechanic privileges/limitations; math and physics; basic electricity; aircraft drawings; maintenance forms; fluid lines/fittings; weight and balance; corrosion control; and ground operations.

### AVI-120 Airframe Maintenance I

Topics include aircraft non-metallic (composite), sheet metal, and wood structures; welding; covering and finishes (dope and fabric); assembly and rigging; and communication and navigation systems.

### AVI-130 Airframe Maintenance III

Topics include aircraft electrical, hydraulic, pneumatic, landing gear, position, warning, and fuel systems.

### AVI-230 Airframe Maintenance III

Emphasis is on systems and components, culminating with the airframe inspection portion of the course. In addition to the inspection aspects, instrument, cabin environmental control, fire protection, and ice and rain control systems are covered.

## Aviation Systems Technology-Powerplant Certificate (C60200HB)

AVI 110

AVI 240

AVI 250

AVI 260

### AVI-110 Aviation Maintenance- General

Topics include mechanic privileges/limitations; math and physics; basic electricity; aircraft drawings; maintenance forms; fluid lines/fittings; weight and balance; corrosion control; and ground operations.

### AVI-240 Powerplant Maintenance I

Covers theoretical and practical aspects of the two major types of aircraft propulsion systems, piston and jet engines. Auxiliary power units are also covered, including their relationship to the systems they operate.

### AVI-250 Powerplant Maintenance II

Topics include engine instruments and fire protection, electrical, lubrication, fuel, ignition, starting, and fuel metering systems.

### AVI-260 Powerplant Maintenance III

Covers engine systems and components; propellers and unducted fans; and induction, airflow, cooling, exhaust, and reverser systems. The course culminates with engine inspections.

## Business Administration: Customer Service(C25120HF)

BUS 110

BUS 137

MKT 223

BUS-115

MKT 120

CIS 110

### **BUS-110 Introduction to Business**

Prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

### **BUS-137 Principles of Management**

An overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating.

### **MKT-120 Principles of Marketing**

Introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products.

### **BUS-115 Business Law I**

Analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

### **MKT-223 Customer Experience**

Understand the entrepreneurial process and issues faced by entrepreneurs.

### **CIS-110 Introduction to Computers**

Demonstrates understanding of the role and function of computers and use the computer to solve problems.

## Business Administration ): Entrepreneurship (C21520HJ)

ACC-120

MKT 120

BUS 110

BUS 139

### **ACC-120 Principles of Financial Accounting**

Prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

### **BUS-110 Introduction to Business**

Analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

### **BUS-139 Entrepreneurship**

Understand the entrepreneurial process and issues faced by entrepreneurs.

### **MKT-120 Principles of Marketing**

Introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products.

## Business Administration: Transfer Prep (C25120Hi)

ACC 120

ACC 121

CIS 110

BUS 115

BUS 137

### **ACC-120: Principles of Financial Accounting**

Prepare financial statements, understand the role of financial information in decision-making and address ethical considerations.

### **ACC-121 Prin of Managerial Accounting**

Analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

### **BUS-137 Principles of Management**

An overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating.

### **BUS-115: Business Law I**

Analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

### **CIS-110: Introduction to Computers**

Demonstrates understanding of the role and function of computers and use the computer to solve problems.

## Computer Aided Drafting: Intro to CAD (50150HA)

BPR 111

DFT 152

DFT 154

DFT 151

DFT 153

ISC 112

### **BPR-111 Print Reading**

Introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods.

### **DFT-151 CAD I**

Introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting.

### **DFT-152 CAD II**

Introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills.

### **DFT-153 CAD III**

Introduces advanced CAD applications. Emphasis is placed upon advanced applications of CAD skills.

### **DFT-154 Intro Solid Modeling**

Introduces basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models, and creation of multiview drawings.

### **ISC-112 Industrial Safety**

Introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools.

## Computer-Aided Drafting: SolidWorks Specialist (C50150HB)

DFT 151

DFT 153

DFT 253

DFT 152

DFT 154

DFT 254

### DFT-151 CAD

Introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting.

### DFT-152 CAD II

Introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills.

### DFT-153 CAD III

Introduces advanced CAD applications. Emphasis is placed upon advanced applications of CAD skills.

### DFT-154 Intro Solid Modeling

Introduces basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models, and creation of multiview drawings.

### DFT-253 CAD Data Management

Understand the entrepreneurial process and issues faced by entrepreneurs.

### DFT-254 Intermed Solid Model/Render

Presents a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering and analysis of solid model assemblies, and multiview drawing generation.

## Computer-Intergrated Machining Technology-Basic Machinist (50210HA)

BPR 111

MAC 121

MAC 124

MAC 111

MAC 122

### BPR-111 Print Reading

Introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods.

### MAC-111 Machining Technology I

Introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments.

### MAC-121 Intro to CNC

Introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications.

### MAC-122 CNC Turning

Introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection.

### MAC-124 CNC Milling

Understand the entrepreneurial process and issues faced by entrepreneurs.

## Cosmetology (55140HA)

COS 111

COS 113

COS 115

COS 112

COS 114

COS 116

COS 240

### **COS-111 Cosmetology Concepts I**

#### **COS-112 Salon I**

Introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics.

### **COS-113 Cosmetology Concepts II**

#### **COS-114 Salon II**

Covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring.

### **COS-115 Cosmetology Concepts III**

#### **COS-116 Salon III**

Covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics.

### **COS-240 Contemporary Design**

Covers methods and techniques for contemporary designs.

## Criminal Justice: BLET Transfer Prep (C55180HE)

CJC 111

CJC 121

CJC 113

CJC 141

### **CJC-111 Intro to Criminal Justice**

Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society.

### **CJC-113 Juvenile Justice**

Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics.

### **CJC-121 Law Enforcement Operations**

Topics include the contemporary evolution of law enforcement operations and related issues.

### **CJC-141 Corrections**

Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics.

## Early Childhood Education: Introduction to Early Childhood (C55220HE)

EDU 119

EDU 145

EDU 144

EDU 153

### **EDU-119 Intro to Early Child Education**

Introduces the foundations of culturally responsive, equitable and inclusive early childhood education, planning intentional developmentally appropriate experiences, learning activities, and teaching strategies for indoor and outdoor environments for all young children, guidance techniques, and professionalism.

### **EDU-144 Child Development I**

Includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months.

### **EDU-145 Child Development II**

Includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood.

### **EDU-153 Health, Safety and Nutrition**

Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations.

## Early Childhood Education: Child Development (C55220HA)

EDU 119

EDU 145

EDU 144

EDU 146

### **EDU-119 Intro to Early Child Education**

Introduces the foundations of culturally responsive, equitable and inclusive early childhood education, planning intentional developmentally appropriate experiences, learning activities, and teaching strategies for indoor and outdoor environments for all young children, guidance techniques, and professionalism.

### **EDU-144 Child Development I**

Includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months.

### **EDU-145 Child Development II**

Includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood.

### **EDU-146 Child Guidance**

Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs.

## Electronics Engineering Technology: Introduction to Electronics (C40200HA)

ELC 131

ELN 133

ELN 131

ISC 112

### **ELC-131 Circuit Analysis I**

Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics.

### **ELN-131 Analog Electronics I**

Introduces the characteristics and applications of semiconductor devices and circuits.

### **ELN-133 Digital Electronics**

Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics.

### **ISC-112 Industrial Safety**

Introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools.

## Electronics Engineering Technology: Communications Equipment Repair

ELC 131

ELN 133

ELN 131

ELN 234

### **ELC-131 Circuit Analysis I**

Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics.

### **ELN-131 Analog Electronics I**

Introduces the characteristics and applications of semiconductor devices and circuits.

### **ELN-133 Digital Electronics**

Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (DA) conversion, and other related topics.

### **ELN-234 Communication Systems**

Introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications.

## Industrial Systems: Mechanical Maintenance (C50240HA)

ELC 117

HYD 110

MEC 111

ELC 131

MAC 121

WLD 112

### ELC-117 Motors and Controls

Introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices.

### ELC-131 Circuit Analysis

Introduces the characteristics and applications of semiconductor devices and circuits.

### HYD-110 Hydraulics/Pneumatics

Introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices.

### MAC-121 Intro to CNC

Introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications.

### MEC-111 Machine Processes I

Introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment.

### WLD-112 Basic Welding Processes

Introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder.

## Industrial Systems Technology: Facilities Maintenance (C50240HB)

BPR 111

ISC 112

MNT 110

ELC 131

MEC 111

MNT 111

### BPR-111 Print Reading

Introduces the basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods.

### ELC-131 Circuit Analysis

Introduces the characteristics and applications of semiconductor devices and circuits.

### ISC-112 Industrial Safety

Introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools.

### MEC-111 Machine Processes I

Introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment.

### MNT-110 Intro to Maint Procedures

Covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures.

### MNT-111 Maintenance Practices

Emphasis is placed on equipment failure analysis, maintenance management software, and techniques such as vibration and infrared analysis.

## IT: Cybersecurity and Coding (25590HT)

CIS 115

CSC 121

CTI 110

CSC 211

### **CIS-115 Intro to Prog & Logic**

Introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures.

### **CTI-110 IT Foundations**

Introduces technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development.

### **CSC-121 Python Programming**

Introduces computer programming using the Python programming language.

### **CSC-211 Ethical Hacking With Python I**

Introduces investigative ethical hacking techniques using the Python programming language.

## IT: Coding (C25590HU)

CIS 115

CSC 121

CSC 151

CTI 110

CSC 154

### **CIS-115 Intro to Prog & Logic**

Introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures.

### **CTI-110 IT Foundations**

Introduces technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development.

### **CSC-121 Python Programming**

Introduces computer programming using the Python programming language.

### **CSC-154 Software Development**

Covers the fundamentals of software development.

### **CSC-151 JAVA Programming**

Introduces computer programming using the JAVA programming language with object-oriented programming principles.

## IT: Security + Prep (C25590HJ)

CTI 120

SEC 110

NOS 110

SEC 160

### CTI-120 Network & Sec Foundation

Introduces Network concepts, including networking terminology and protocols, local and wide area networks, and network standards.

### NOS-110 Operating Systems Concepts

Introduces a broad range of operating system concepts, including installation and maintenance.

### SEC-110 Security Concepts

Introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls.

### SEC-160 Security Administration I

Provides an overview of security administration and fundamentals of designing security architectures.

## IT: A+Prep (C25590HM)

CTI 120

CTS 120

CTI 141

NOS 110

### CTI-120 Network & Sec Foundation

Introduces Network concepts, including networking terminology and protocols, local and wide area networks, and network standards.

### CTI-141 Cloud & Storage Concepts

Introduces cloud computing and storage concepts.

### CTS-120 Hardware/Software Support

Covers the basic hardware of a personal computer, including installation, operations and interactions with software.

### NOS-110 Operating Systems Concepts

Introduces a broad range of operating system concepts, including installation and maintenance.

## IT: Entry-Level Computer Technician (C25590HQ)

CTI 110

CTS 120

SEC 110

CTI 120

NOS 110

### CTI-110 IT Foundations

Introduces technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development.

### CTI-120 Network & Sec Foundation

Introduces Network concepts, including networking terminology and protocols, local and wide area networks, and network standards.

### CTS-120 Hardware/Software Support

Covers the basic hardware of a personal computer, including installation, operations and interactions with software.

### NOS-110 Operating Systems Concepts

Introduces a broad range of operating system concepts, including installation and maintenance.

### SEC-110 Security Concepts

Introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls.

## IT: Productivity Software (C25590HB)

CIS 110

CTS 115

CTI 110

CTS 130

### CIS-110: Introduction to Computers

Demonstrates understanding of the role and function of computers and use the computer to solve problems.

### CTI-110 IT Foundations

Introduces technology concepts and current trends in IT. Topics include foundational concepts across various IT domains such as, but not limited to, artificial intelligence, database fundamentals, programming principles, and web development.

### CTS-115 Info Sys Business Concepts

Introduces the role of IT in managing business processes and the need for business process and IT alignment.

### CTS-130 Spreadsheet

Introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing.

## Mechatronics: Intro to Mechatronics(C40350HB)

ATR 112

ELC 131

MEC 130

ATR 115

ISC 112

### ATR-112 Intro to Automation

Introduces the basic principles of automated systems and describes the tasks that technicians perform on the job.

### ATR-115 Introduction to Mechatronics

Introduces the synergistic application of mechanical, electrical, electronic, and computer engineering technologies that are used for the purpose of control and maintenance of high-tech devices and equipment.

### ELC-131 Circuit Analysis

Introduces the characteristics and applications of semiconductor devices and circuits.

### ISC-112 Industrial Safety

Introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools.

### MEC-130 Mechanisms

Introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices.

## Welding Technology: Entry-Level Welding (C50420HA)

WLD 110

WLD 121

WLD 115

WLD 131

### WLD-110 Cutting Processes

Introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting.

### WLD-115 SMAW

Introduces the shielded metal arc (stick) welding process.

### WLD-121 GMAW (MIG) FCAW/Plate

Introduces metal arc welding and flux core arc welding processes.

### WLD-131 GTAW (TIG) Plate

Introduces the gas tungsten arc (TIG) welding process.

## Health Information Technology (45360HA)

HIT 110

MED 121

CIS 110

HIT 112

MED 122

### **HIT-110 Intro to Healthcare & HIM**

Introduces healthcare settings and the Health Information Management (HIM) professional's role in healthcare delivery systems.

### **HIT-112 Health Law and Ethics**

Covers the study of the judicial, legislative, and regulatory standards applicable to health care and health information processes.

### **MED-121 Medical Terminology I**

Introduces prefixes, suffixes, and word roots used in the language of medicine.

### **MED-122 Medical Terminology II**

Second in a series of medical terminology courses.

### **CIS-110: Introduction to Computers**

Demonstrates understanding of the role and function of computers and use the computer to solve problems.

## Medical Assisting (C454000HA)

BIO 163

MED 118

MED 122

MED 110

MED 121

### **MED-118 Medical Law and Ethics**

Covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues.

### **MED-121 Medical Terminology I**

Introduces prefixes, suffixes, and word roots used in the language of medicine.

### **MED-122 Medical Terminology II**

Second in a series of medical terminology courses.

### **MED-110 Orientation to Med Assist**

Covers the history of medicine and the role of the medical assistant in the health care setting.

### **BIO-163 Basic Anat & Physiology**

Provides a basic study of the structure and function of the human body.

# MOA: Medical Office Receptionist (C25310HG)

MED 121

OST 161

CIS 110

OST 148

OST 131

## **MED-121 Medical Terminology I**

Introduces prefixes, suffixes, and word roots used in the language of medicine.

## **OST-148 Med Ins & Billing**

Introduces fundamentals of medical insurance and billing.

## **OST-131 Keyboarding**

Covers basic keyboarding skills.

## **OST-161 Medical Ofc Procedures**

Provides instruction on the skills and procedures needed in today's medical office. Topics include medical data entry, medical communications, phone etiquette, use and maintenance of office equipment, inventory control, patient scheduling, and managing the financial aspects of a practice.

## **CIS-110: Introduction to Computers**

Demonstrates understanding of the role and function of computers and use the computer to solve problems.