CAREER & TECHNICAL EDUCATION

Umpqua Community College (UCC) offers **Career & Technical Education (CTE) programs** designed to equip students with **industry-relevant skills** for immediate employment, career advancement, or further education. Students can earn an **Associate of Applied Science (AAS) degree** or a **Certificate of Completion**, depending on their career goals.

While **CTE programs are workforce-focused**, some may also provide opportunities for transfer to a **four-year university**. Students should consult with an **academic advisor** to explore these options.

CTE Program Options

1. Certificates of Completion

Certificates of Completion are designed to provide **specialized training** in a specific career field. These certificates:
Meet state approval standards and industry requirements.
Prepare students for entry-level employment in high-demand fields.
Range from 12 to 108 credits
May include stackable credentials, allowing students to build upon their education over time.

Note: The term "certificate" at UCC refers only to official state-approved programs that lead to employment. Non-credit training and participation awards do not qualify as Certificates of Completion under OAR 589-006-0050 (12).

2. Career Pathway Certificates

Career Pathways Certificates are **short-term training programs** designed to help students **gain employment quickly** while keeping the option open to pursue further education. These programs provide:
Entry and exit points, allowing students flexibility in career progression.

Stackable credentials, including industry certifications and occupational licenses.

UCC offers **Career Pathway Certificates** in industries such as:

- **Business & Office Administration**
- **Computer Information Systems (CIS) & Computer Science**
- **Early Childhood Education**
- **Emergency Medical Services (EMS)**
- **Engineering, Drafting & Surveying**
- **Healthcare Careers**
- **Human Services**
- **Water Quality Technology**
- **Welding Technology**

3. Associate of Applied Science (AAS) Degrees

The **Associate of Applied Science (AAS) degree** is designed for students seeking **immediate workforce entry** or **career advancement**.

AAS Degree Requirements

To earn an AAS degree, students must:
Complete a minimum of 90 credits.
Maintain a 2.0 cumulative GPA.

Complete a core set of technical courses for their career field.
Complete general education and related instruction courses, including:

- **Mathematics** (3+ credits, MTH 104 or higher)
- **Writing** (4+ credits, WR 115 or higher)
- **Human Relations** (3+ credits, see approved courses below)

Complete at least **25% of credits at UCC.**
Attend UCC for at least **two terms**, including the **final term before graduation**.
A maximum of **24 credits of Cooperative Work Experience (CWE)** may be applied toward the degree.

- **AAS program coursework focuses on hands-on skills and industry applications**. Elective credits may include **transfer courses** or **career-specific coursework**, depending on the student's career goals.

Human Relations Requirement for CTE Programs

Effective communication and teamwork are essential in **every career field**. As part of all **CTE programs**, students must demonstrate **competency in human relations skills**.

Human Relations Learning Outcomes

Students will:
1. Interact positively and communicate effectively with teams, supervisors, and clients.
2. Manage time responsibly and follow workplace expectations.
3. Demonstrate professionalism, collaboration, and leadership skills.

Approved Human Relations Courses

Code	Title	Credits
COM 218Z	Interpersonal Communication	4
PSY 101	Psychology of Human Relations	3

Career and Technical Education Course Options

NOTE: This list is subject to change, depending on state, industry, and UCC standards. Some courses are only available in students are enrolled in a specific program.

Code	Title	Credits
AG 120	Intro to Agribusiness	3
AI 120	Intro to AI	4
AI 210	Machine Learning	4
AI 220	Natural Language Processing	4
AI 230	Computer Vision	4
AI 240	AI Data Science	4
AI 280	CWE - AI	1-13
APR 101	Intro to Trades and Technology	4
APR 111	Machine Shop Practices I	3
APR 112	Machine Shop Practices II	3
APR 113	Machine Shop Practices III	3
APR 115	Computer Aided Drafting I	3
APR 120	Industrial Safety	3
APR 121	Hydraulics I	3
APR 122	Hydraulics II	3

APR 123	Hydraulics III	3	BA 116	Principles of Financial Svcs	4
APR 130	Mech Principles-Drive Designs	3	BA 128	Accounting Applications I	3
APR 131	Basic Metallurgy	3	BA 129	Accounting Applications II	3
APR 140	Beg Welding for Apprentices	1	BA 150	Develop a Small Business	4
APR 141	Int Welding for Apprentices	1	BA 151	Practical Accounting I	4
APR 142	Adv Welding for Apprentices	1	BA 152	Practical Accounting II	3
APR 145	Blueprint Reading-Sketching	3	BA 165	Customer Service	3
APR 151	Basic Electronics-Electricity	4	BA 170	Business Technologies	3
APR 153	Electrical Applications-Tech	3	BA 171	Logic and Reasoning	3
APR 155	Electrical Best Practices	2	BA 172	Entrepreneurship	3
APR 157	Intro to National Elect Code	2	BA 173	Innovation to Market	3
APR 159	Electrical Blueprint Reading	2	BA 174	Innovation and Tech Strategy	3
APR 163	Commercial Wiring	3	BA 175	Fund Accounting	4
APR 165	AC Electronics and Electricity	4	BA 176	Project Management	4
APR 167	Electric Motors-Transformers	3	BA 177	Payroll Accounting	4
APR 169	Electrical Code Study II	2	BA 180	Business Mathematics I	3
APR 228	Rigging Fundamentals	3	BA 181	Business Mathematics II	3
APR 229	Basic Pneumatics	3	BA 206	Management Fundamentals	3
APR 239	Pumps and Pumping	3	BA 207	Intro to E-Commerce	3
APR 251	Electrical Sensors and Control	3	BA 211Z	Principles Financial Acct	4
APR 253	Electrical Code Study III	2	BA 213Z	Principles Managerial Acct	4
APR 255	Motor Controls I	2	BA 214	Business Communications	3
APR 257	High Voltage Applications	2	BA 218	Personal Finance and Investing	3
APR 259	Solid State and Digital Apps	4	BA 222	Financial Management	3
APR 261	Electrical Code Study IV	2	BA 223	Principles of Marketing	3
APR 263	Communications Alarm-Control	2	BA 226Z	Introduction to Business Law	4
APR 265	Motor Controls II	2	BA 231	Computers in Business	4
APR 267	Advanced Code Study	3	BA 233	Accounting for Managers	4
APR 269	Journeyman Exam Prep	3	BA 238	Professional Selling	3
APR 280	CWE Apprenticeship	1-13	BA 239	Advertising	3
AUT 100A	Intro to Automotive Tech I	2	BA 249	Retailing	3
AUT 100B	Intro to Automotive Tech II	4	BA 250	Managing the Small Business	3
AUT 101	Basic Auto Skills I	3	BA 253	Social Media Marketing	3
AUT 102	Basic Auto Skills II	3	BA 260	Advanced Human Resources	3
AUT 103	Basic Auto Skills III	5	BA 280	CWE-Business	1-13
AUT 111	Engine Repair and Maintenance	6	BA 280A	CWE-Accounting	1-13
AUT 112A	Auto Friday Career Academy	2	BA 280B	CWE-Marketing	1-13
AUT 112B	Auto Friday Career Academy	3	BA 280C	CWE-Management	1-13
AUT 112C	Auto Friday Career Academy	3	CIS 120	Intro to Digital Literacy	4
AUT 113	Drive Trains	6	CIS 122	Orientation to Programming	4
AUT 114	Suspension and Steering	6	CIS 125H	Writing Web Pages	2
AUT 115	Braking Systems	6	CIS 133CS	Intro to Programming I	4
AUT 116	Electrical I	6	CIS 140L	Intro to Linux OS	4
AUT 216	Electrical II	6	CIS 140M	Intro to MS Operating Systems	4
AUT 217	Heating and Air Conditioning	6	CIS 140W	Intro to Windows	2
AUT 218	Engine Performance I	6	CIS 145	Computer Forensics	4
AUT 219	Light Duty Diesel	6	CIS 151C	Introduction to Networks	4
AUT 220	Alternative Fuel Vehicles	6	CIS 152C	Switch Rout Wireless Ess	4
AUT 228	Engine Performance II	6	CIS 153C	Ent Netwrk Security Automation	4
AUT 280	CWE-Automotive	1-13	CIS 195	Authoring for the Web I	4
BA 101Z	Introduction to Business	4	CIS 199	Intro Programming w Robots	4-5
BA 106	Business Leadership	3	CIS 233CS	Intro to Programming II	4

CIS 240M	Windows Server Admin I	4	DA 280	CWE: Dental Assisting	1-13
CIS 275	Intro to Database Mgmt Sys I	4	DRF 112	Drafting and Design I	3
CIS 276	Intro to Database Mgmt Sys II	4	DRF 113	Drafting and Design II	3
CIS 279M	Windows Server Admin II	4	DRF 116	CAD - Structural	3
CIS 280	CWE-CIS	1-13	ECE 101	ECE-Sem-Prac I	3
CIS 280D	CWE-Health Informatics	1-13	ECE 102	ECE-Sem-Prac II	3
CIS 284	Network Security Fundamentals	4	ECE 103	ECE-SEM-Prac III	3
CIS 285A	Ethical Hacking	4	ECE 140	Intro to Early Childhood Ed	3
CIS 285C	Cloud Services Technologies	3	ECE 150	Creative Activities for Child	3
CIS 288M	Windows Server Admin III	4	ECE 154	Lit and Language for Children	3
CIS 295	Authoring for the Web II	4	ECE 178	Observing-Guiding Behavior	3
CIV 214	CAD-Civil 3D-Virtual Design	3	ECE 230	Health Safety and Nutrition	3
CIV 280	CWE-Engineering	1-13	ECE 235	Supporting Child Wellbeing	3
CJ 101	Intro to Criminology	3	ECE 240	Lesson and Curriculum Planning	3
CJ 105	Concepts of Criminal Law	3	ECE 244	Indiv Learning-Preschoolers	3
CJ 110	Intro to Law Enforcement	3	ECE 247	Admin of Child-Care Centers	3
CJ 114	Diversity Issues in CJ	3	ED 100	Intro to Education	3
CJ 120	Intro to Judicial Process	3	ED 216	Education Foundations	3
CJ 130	Intro to Corrections	3	ED 229	Learning and Development	3
CJ 140	Intro to Criminalistics	3	ED 235	Educational Technology	3
CJ 203	Crisis Intervention Seminar	1	ED 258	Culturally Responsive Ed	3
CJ 210	Criminal Investigations	3	ED 280	CWE-Education	1-13
CJ 211	Ethics in Criminal Justice	3	EMS 151	EMT Part 1	6
CJ 226	Intro to Constitutional Law	3	EMS 152	EMT Part 2	6
CJ 230	Intro-Juvenile Justice System	3	EMS 153A	EMS Friday Career Academy	3
CJ 240	Criminalistics II	3	EMS 153B	EMS Friday Career Academy	3
CJ 243	Narcotics and Dangerous Drugs	3	EMS 153C	EMS Friday Career Academy	6
CJ 261	Intro to Parole and Probation	3	EMS 180	Crisis Intervention	3
CJ 280	CWE-Criminal Justice	1-13	EMS 200	Foundations of Paramedicine	3
CS 160	Orientation-Computer Science	4	EMS 221	Paramedic 1	10
CS 161	Computer Science I	4	EMS 222	Paramedic 2	8
CS 162	Computer Science II	4	EMS 223	Paramedic 3	8
CS 205	Syst Programming Architecture	4	EMS 224	Paramedic 4	1
CS 260	Data Structures	4	EMS 251	Paramedic Lab Part 1	3
CS 271	Computer Architecture	4	EMS 252	Paramedic Lab Part 2	3
DA 102	Adv Clinical Experiences	4	EMS 253	Paramedic Lab Part 3	3
DA 103	Dentistry Law and Ethics	1	EMS 271	Paramedic Clinical Part 1	2
DA 107	Dental Health Education I	1	EMS 272	Paramedic Clinical Part 2	2
DA 108	Dental Health Education II	1	EMS 273	Paramedic Clinical Part 3	4
DA 110	Health Sciences	3	EMS 274	Paramedic Field Internship	8
DA 111	Dental Terminology	2	EMS 280	CWE-EMS	1-13
DA 115	Dental Anatomy	3	ENGR 111	Engineering Orientation I	3
DA 135	Oral Pathology	2	ENGR 112	Problem Solving and Technology	3
DA 139	Med Emergencies in Dental Ofc	2	ENGR 201	Electrical Fundamentals I	4
DA 190	Dental Office Procedures	3	ENGR 202	Electrical Fundamentals II	4
DA 192	Dental Materials I	3	ENGR 203	Engr Fund-Signals and Controls	4
DA 195	Chairside Procedures I	4	ENGR 211	Statics	4
DA 196	Chairside Procedures II	4	ENGR 212	Dynamics	4
DA 198	Dental Materials II	2	ENGR 213	Strength of Materials	4
DA 210	Dental Radiology I	4	ENGR 245	Engineering Graphics	3
DA 211	Dental Radiology II	3	ENGR 271	Digital Logic Design	3
DA 214	Dental Radiology License Prep	1	ENGR 272	Digital Logic Design Lab	1

Code	Course	Credits
ENGR 280	CWE Engineering	1-13
ES 101	Principles-Emergency Services	3
ES 103	Occupational Safety-Health	2
ES 107	Legal Aspects-Emergency Svcs	2
ES 109	Principles of FESA	3
ES 113	Emergency Medical Svcs Rescue	3
ES 115	Emergency Vehicle Operator	3
FES 240	Forest Biology	4
FES 241	Dendrology	4
FES 261	Recreation Resource Mgmt	4
FOR 111	Introduction to Forestry	3
FOR 112	Problem Solving-Technology	3
FOR 161	Surveying I	4
FOR 206	Soil Science Lab	1
FOR 234	GIS-Intro to Geographic Info	4
FRP 101	FF Safety and Survival	3
FRP 111	Bldg Constr-Fire Suppression	3
FRP 121A	Basic Fire Academy 1	4
FRP 121B	Basic Fire Academy 2	4
FRP 122	Fundamentals Fire Protection	3
FRP 123	Hazardous Materials	2
FRP 133	Natural Cover Fire Protection	3
FRP 159	Fire Behavior and Combustion	3
FRP 164	NFPA Fire Instructor 1	2
FRP 202	Fire Protection Systems	3
FRP 212	Fire Investigation	3
FRP 213	FF Tactics and Strategy	3
FRP 230	Fire Service Hydraulics	4
FRP 280	CWE Fire Related Skills	1-13
GIS 203	Digital Earth-Geospatial	4
GIS 234	GIS 1-Intro to Geographic Info	4
GIS 235	GIS II Data Analysis-App	4
GIS 280	CWE-GIS	1-13
HDFS 225	Child Development	3
HDFS 226	Infant-Toddler Development	3
HDFS 228	Exceptional Child	3
HDFS 240	Contemporary American Family	3
HE 252	First Aid	3
HE 260	Cardiopulmonary Resuscitation	1
HE 280	CWE: Health	1-13
HPE 131	Intro to HPE	3
HPE 184	Prevent Care Athletic Injuries	3
HS 100	Introduction to Human Services	3
HS 102	Addiction Pharmacology	3
HS 108	UnderstandBEH-EMOT Iss-Old Pop	3
HS 110	Peer Recovery Mentor	4
HS 150	Personal Effect for HS Workers	3
HS 154	Community Resources	3
HS 155	Counseling Skills I	3
HS 209	Trauma-Theory to Practice	3
HS 211	HIV AIDS-Infectious Disease	2
HS 217	Group Counseling Skills I	3
HS 226	Ethics and Law	3
HS 227	Family Systems and Trauma	3
HS 229	Crisis Intervention-Prevention	3
HS 265	Counseling Skills II	3
HS 266	Case Mgmt for HS Workers	3
HS 267	Culturally Informed Care	3
HS 280	CWE-Human Svcs	1-13
J 205	Intro to Public Relations	3
J 211	Intro to Mass Communications	3
J 215	Journalism Production	1-3
J 251	Writing for the Media	3
J 280	CWE: Journalism	1-13
LA 100	Legal Procedures I	4
LA 101	Intro to Paralegal Studies	3
LA 102	Legal Terminology	3
LA 105	Civil Procedure	3
LA 128	Legal Procedures II	4
LA 132	Ethics for Legal Prof	3
LA 204	Legal Research and Writing I	4
LA 205	Legal Research and Writing II	4
LA 208	Family Law	4
LA 210	Wills Probate Estates	3
LA 217	Real Estate Law for Paralegals	4
LA 224	Torts Pleadings and Practice	3
LA 226	Criminal Law for Paralegals	3
LA 280	CWE- Legal Assistant	1-13
MEC 101	Introduction to Mechatronics	3
MEC 118	Preventive Maintenance	3
MEC 120	Industrial Safety	3
MEC 121	Mechanical Components	5
MEC 123	Automation Programming I	5
MEC 151	Electricity in Mechatronics	5
MEC 199	Mechatronics	3
MEC 201	Composites	5
MEC 219	Robotics in Manufacturing	5
MEC 222	Hydraulics and Pneumatics	5
MEC 224	Controls and Instrumentation	5
MEC 225	Automation Programming II	5
MEC 229	Mechatronics Capstone	3
MEC 280	CWE-Mechatronics	1-13
MED 100	Intro to Healthcare Careers	2
MED 111	Medical Terminology I	3
MED 112	Medical Terminology II	3
MED 117	AP and Pharmacology for MAs	4
MED 120	Clinical Procedures I	3
MED 122	Clinical Procedures II	3
MED 125	Medical Assistant Practicum I	4
MED 126	Medical Assistant Practicum II	6
MED 140	Electronic Health Records	3
MED 220	Medical Office Procedures I	3
MED 221	Medical Office Procedures II	3
MED 230	Health Insurance Concepts	3

MED 231	Hlth Care Reimburs-Collections	3
MED 260	Medical Document Processing	3
MFG 108	Starrett PMI	2
MFG 111	Machine Shop I	3
MFG 112	Machine Shop II	3
MFG 113	Machine Shop III	3
MFG 121	Hydraulics I	3
MFG 122	Hydraulics II	3
MFG 123	Hydraulics III	3
MUS 280	CWE-Music	1-13
NRS 101	Nursing Assistant	6
NRS 102A	NRS Asst Friday Career Academy	2
NRS 102B	NRS Asst Friday Career Academy	2
NRS 102C	NRS Asst Friday Career Academy	2
NRS 103A	NA 1	2
NRS 103B	NA 1	2
NRS 103C	NA 1	2
NRS 110	Health Promotion	9
NRS 111	Chronic Illness	6
NRS 112	Acute Care	6
NRS 221	Chronic Illness II	9
NRS 222	Acute Care II	9
NRS 224	Integrative Practicum	9
NRS 234	Patho for Nursing 1	2
NRS 235	Patho for Nursing 2	2
NRS 236	Patho For Nursing 3	2
NRS 237	Pharmacology for Nursing 1	2
NRS 238	Pharmacology for Nursing 2	2
NRS 239	Pharmacology for Nursing 3	2
OA 110	Alpha Keyboarding	2
OA 115	Admin Office Professional	3
OA 116	Records Management	2
OA 123	Formatting	4
OA 128	Proofreading and Editing	3
OA 131	Ten-Key Calculator	1
OA 161	Career Planning	1
OA 245	Office Administration	1
OA 250	General Office Procedures	3
OA 260	Principles of Office Mgmt	3
OA 280A	CWE-Admin Asst-Office Asst	1-13
PHLB 101	Phlebotomy	6
PSY 280	CWE: Psychology	1-13
SDP 109	Elements of Supervision	3
SDP 113	Human Relations-Supervisors	3
SDP 201	Coaching in the Workplace	3
SDP 204	Labor and Mgmt Relations	3
SDP 208	Human Rscs for Supervisors	3
SDP 215	Equal Employment Opportunity	3
SDP 223	Employee Dev and Perform Mgmt	3
SUR 161	Surveying I	4
SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4

SUR 242	Land Descriptions-Cadastre	3
VC 114	Intro to InDesign	3
VC 130	Intro to PhotoShop	3
VC 139	Intro to Adobe Illustrator	3
VE 101	Intro to the Wine Industry	1
VE 102	Integrated Pest Control-Grapes	4
VE 103	Soils-Nutri-Irrig	4
VE 202	Sensory Evaluation of Wine	4
VE 205	Wines of North America	3
VE 210	Sci of Winemkg I	5
VE 211	Science of Making Wine II	5
VE 223	Wine Marketing	3
VE 280	Vineyard-Winery Practicum	1-13
WLD 101	Welding Processes-Apps	4
WLD 111	Shielded Metal Arc Welding	4
WLD 112	Shld Metal Arc Wldg:Mild Steel	3
WLD 113	Shld Metal Arc Wldg;Mld Stl II	3
WLD 114	Shld Metal Arc Wldg;MldStl III	3
WLD 121	Gas Metal Arc Welding	3
WLD 122	Gas Metal Arc Welding-Pulse	3
WLD 131	Basic Metallurgy	3
WLD 140	Blueprint Reading	3
WLD 141	Flux-Core Arc Wldg(Gas Shld)	3
WLD 142	Flux-Core Arc Wldg II Slf Shld	3
WLD 150	GTAW I	3
WLD 160	Aluminum Arc Welding I	3
WLD 212	Adv Welding I	3
WLD 213	Adv Welding II	3
WLD 214	Adv Welding III	3
WLD 222	Pipe Welding-Fitting I	3
WLD 223	Pipe Welding-Fitting II	3
WLD 240	Blueprint Reading - II	3
WLD 251	Gas Tungsten Arc Weld II	3
WLD 252	Gas Tungsten Arc Weld III	3
WLD 261	Aluminum Arc Welding II	3
WLD 262	Aluminum Arc Welding III	3
WLD 280	CWE: Welding	1-13
WQT 226	Wastewater Treatment I Liquid	3
WQT 227	Wastewater Treatment II Solids	3
WQT 228	Wastewater Collection	3
WQT 260	Water Treatment	3
WQT 261	Water Distribution	3
WQT 280	CWE-Water Quality Treatment	1-13

Why Choose UCC for Career & Technical Education?

- **Industry-Aligned Programs** – Courses are designed in collaboration with employers and industry partners.
- **Hands-On Learning** – Many programs include internships, labs, and real-world projects.
- **Flexible Pathways** – Students can start with a certificate, gain work experience, and later continue to an AAS degree.

- **Career Support** – Faculty and advisors assist with job placement, resume building, and interview skills.

Next Steps:

Meet with an advisor to explore program options.
Review transfer opportunities if planning to continue education beyond an AAS degree.
Connect with employers through internships and cooperative work experiences.

For more information, speak with a **UCC academic advisor**.