



# CAREER PATHWAYS

Grow here. Learn here. Work here.



## Computer Information Systems and Computer Science —

The Computer Information Systems (CIS) program is designed to prepare students for employment in the area of computers, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments. Gain skills in programming, computer software development, and hardware innovation, while forming a concrete understanding of the technological infrastructures of an organization and its digital security.

Pursue UCC's Computer Science degree and gain skills in computer programming and computer logic, necessary for transfer, career success, and lifelong learning. This degree follows the state MTMs which specify clear course-taking paths necessary for on-track progress towards a specific major/bachelor's degree, with a guarantee of transfer from any Oregon community college to any Oregon public university.

### CAREER HIGHLIGHTS

**JOB TYPES:**



Software Developer  
 Computer Programmer  
 Web Developer  
 Systems Analyst  
 Support Specialist

Computer Systems Administrator  
 Information Technology Director  
 Network Systems Administrator  
 Database Administrator  
 Systems User Support Specialist



**SALARY RANGE:** Highly variable: dependant upon final degree and chosen career path



**LOCAL INDUSTRY:**  
 Cascade Community Credit Union  
 Integotec, Roseburg  
 Cow Creek Band of the Umpqua Tribe of Indians  
 Douglas County  
 Umpqua Community College  
 Roseburg Public Schools  
 City, County and State Municipalities

**AVAILABLE PATHWAY(S)**



**Computer Information Systems**  
 Associate of Applied Science Degree  
 92 credits required  
 2 years of college coursework



**Computer Science**  
 Associate of Science Transfer Degree  
 98 credits required  
 2 years of college coursework+

# Computer Information Systems and Computer Science Pathways

COMPUTER INFORMATION SYSTEMS A.A.S.	RHS	COMPUTER SCIENCE ASSOCIATE OF SCIENCE TRANSFER
Business Communications	GRADE 9	Math 9 Honors English 9 Honors Spanish I or German I
Business Foundations (BA101Z)~ Intro to Computer Programming	GRADE 10	English 10 Honors Honors Chemistry Math 10 Honors AP Human Geography (GEOG142)* Spanish II or German II
Advanced Algebra Psychology	GRADE 11	<i>Honors Biology~ or</i> Precalculus (MTH111Z/112Z) Writing 121/122 (WR121Z) (WR122Z -Talk with Counselor) General Psychology (PSY201Z)*
Writing 121/122 (WR121Z and WR122Z~) Intro to Speech (COM111Z) Precalculus (MTH111Z)+	GRADE 12	<i>~Honors Physics</i> Calculus (MTH251/252) AP Literature (ENG104Z/105Z)^ Intro to Speech (COM111Z)
<b>Graduate from Roseburg High School and enroll at UCC</b>		
CIS120 Intro to Digital Literacy CIS122 Orientation to Programming CIS140M Intro to MS Operating Systems MTH110 Foundations for Precalculus +	YEAR 1 FALL	AI120 Intro to AI CS160 Orientation-Computer Science MTH111Z Precalculus I- Functions WR121Z Composition I
CIS133CS Intro to Programming I CIS240M Windows Server Admin I PSY101 Psychology of Human Relations WR121Z Composition I	WINTER	CS161 Computer Science I MTH112Z Precalculus- Trigonometry MTH231 Elementary Discrete Math I WR227Z Technical Writing or WR122Z Composition II
CIS151C Introduction to Networks CIS233CS Intro to Programming II CIS275 Intro to Database Mgmt Systems I CIS279M Windows Server Admin II	SPRING	ART206 History of Western Art III^ CIS275 Intro to Database Mgmt Sys I CS162 Computer Science II MTH232 Elementary Discrete Math II
CIS152C Switch Rout Wireless Ess CIS195 Authoring for the Web I CIS276 Intro to Database Mgmt Syst II CIS288M Windows Server Admin III	YEAR 2 FALL	CIS195 Authoring for the Web I CS260 Data Structures MTH251 Calculus I PH211 General Physics w/ Calculus I
CIS153C Ent Network Security Automation CIS284 Network Security Fundamentals CIS295 Authoring for the Web II WR122Z Composition II~	WINTER	COM218Z Interpersonal Communication^ HST202 History of the United States II* MTH252 Calculus II PH212 General Physics w/ Calculus II
CIS280 CWE-CIS COM218Z Interpersonal Com or COM111Z Public Speaking HPE295 Wellness-Hlth Assess~ WR227Z Technical Writing~	SPRING	COM111Z Public Speaking CS205 Syst Programming Architecture PH213 General Physics w/ Calculus III SOC206 Social Problems-Issues*



**Computer Information Systems  
A.A.S. Degree**



**Computer Science  
A.S.T. Degree**