



# COMPUTER SCIENCE in Coeur d'Alene

## MATCH YOUR INTERESTS

- Robotics
- Artificial intelligence
- Developing cybersecurity programs
- Building complex wireless mobile devices
- Creating social networking platforms
- Developing video games
- Designing virtual environments

## SKILLS TO SUCCEED

- Aptitude in math and science
- General interest in how things work
- Creativity and problem-solving
- Personal initiative
- Willingness to work hard

## CAREER OUTLOOK

**21% growth** for computer and IT occupations from 2019 to 2029  
— Bureau of Labor Statistics

**\$84,000+** annual mean salary for computer and mathematical occupations in Idaho  
— Bureau of Labor Statistics

## REGIONAL EMPLOYERS

- Avista
- The Boeing Company
- Idaho Forest Group
- Idaho National Laboratory
- Kochava
- Kootenai Health
- Micron Technology
- Schweitzer Engineering Laboratories

## DEGREES IN COEUR D'ALENE

A.S., B.S., M.S., Ph.D.

### LEARN MORE

VISIT: [uidaho.edu/cda-cs](http://uidaho.edu/cda-cs)

CALL: 208-292-2509

EMAIL: [cdactr@uidaho.edu](mailto:cdactr@uidaho.edu)

Program Director/Student Advisor: Bob Rinker

[rinker@uidaho.edu](mailto:rinker@uidaho.edu)

 University of Idaho  
Coeur d'Alene

 University of Idaho  
Department of Computer Science

# COMPUTER SCIENCE

an education that prepares you for success

4-Year Plan | 2023/2024

## FRESHMAN

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Science I	CS 120*	CS 150*	4
College Writing & Rhetoric	ENGL 102	ENGL 102	3
Discrete Math	MATH 176*	MATH 187*	4
Elective	Humanities / Social Science	GEM 5/6/7	3

\*Minimum grade of C required in all 100-level CS courses, and Math 176/187 for entrance into 200-level courses.

**TOTAL 14**

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Science II	CS 121*	CS 151*	4
Computer Organization & Architecture	CS 150*	CS 155*	3
Fundamentals of Public Speaking	COMM 101	COMM 101	3
Elective	Humanities / Social Science	GEM 5/6/7	3
Free Elective		GEM or Other	3

**TOTAL 16**

## SOPHOMORE

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Programming Languages	CS 210*	CS 210*	3
System Software	CS 270*	CS 270*	3
Analytic Geometry & Calculus I	MATH 170	MATH 170	3
Elective	Humanities / Social Science	GEM 5/6/7	3
Elective	Science Elective w/Lab	GEM 4	4

**TOTAL 16**

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Operating Systems	CS 240*	CS 241*	3
Analytic Geometry & Calculus II	MATH 175*	MATH 175*	4
Secure Coding and Analysis	CYB220		3
Elective	Science Elective w/Lab	GEM 4	4

\*Minimum grade of C required in all 200-level CS courses, and Math 170, 175 for entrance into upper-division courses.

**TOTAL 14**

## JUNIOR

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Theory of Computation	CS 385		3
Probability & Statistics	STAT 251/301	MATH 253*	3
Linear Algebra	MATH 330	MATH 335*	3
Technical Writing	ENGL 317	ENGL 202*	3
Elective	CS Technical Elective		3

\*NIC classes will not count toward U of I upper-division credits.

**TOTAL 15**

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Database Systems	CS 360		4
Software Engineering	CS 383		4
Analysis of Algorithms	CS 395		3
Elective	CS Technical Elective		3
Elective	Free Elective		3

**TOTAL 17**

## SENIOR

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Contemporary Issues in Computer Science	CS 400		1
Compiler Design	CS 445		4
Senior Capstone Design I	CS 480		3
Elective	CS Technical Elective		3
Elective	Humanities / Social Science	GEM 5/6/7	3

**TOTAL 14**

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Senior Capstone Design II	CS 481		3
Elective	CS Technical Elective		3
Elective	Humanities / Social Science	GEM 5/6/7	3
Elective	Free Elective		5

**TOTAL 14**

- This academic plan is intended as a guideline only and does not replace academic advising.
- See course catalog and department website for complete degree requirements and additional information.
- A CS technical elective is defined as a CS 300+ course that isn't otherwise required.
- 120 credits minimum are required for a B.S. in computer science.
- Minimum of 30 credits from UI required to graduate.
- A 5-year academic plan is an option see department website for additional information.



North Idaho College



University of Idaho  
College of Engineering