



COMPUTER SCIENCE IN COEUR D'ALENE

Are you interested in:

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

Computer science graduates are in high demand. In this program, you will learn how to design, develop and test computing systems for a wide variety of purposes. You will become proficient in various operating systems, programming languages and techniques, and computer architecture, with many opportunities to practice your software development skills on real-world projects through our local community business partners.

Students have the flexibility to specialize in an area that best supports their interests and career goals. For example, you may focus on computer networking, cybersecurity, robotics, artificial intelligence, computer graphics, gaming and virtual environments, bioinformatics, software development and many other areas.

For the UI Coeur d'Alene Computer Science program the first two years of coursework is delivered at North Idaho College (NIC). Upper level classes are taught by UI faculty. Students planning on transferring to U or I are encouraged to complete an associate of science degree at NIC.

Regional Employers

- Avista
- The Boeing Company
- Esterline
- Kochava
- Idaho National Laboratory
- Schweitzer Engineering Laboratories
- Pacific Northwest National Laboratory
- Quest Aircraft
- Itron
- Micron
- Kootenai Health

Skills Needed

- Interest and aptitude in math and science
- Comfortable working with computers and other technology
- Creative problem solver
- Generally interested in how things work
- Personal initiative; willingness to work hard

Potential Careers

- Cybersecurity professional
- Developer/designer of games and virtual environments
- Software developer
- Operating systems and network administrator
- Bioinformatics specialist
- Embedded and real-time operating systems implementor
- Robotics applications designer

For More Information

Program Director/Student Advisor
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Department Manager
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Engineer like a Vandal

Learn more about the College of Engineering and what it means to Engineer Like a Vandal at uidaho.edu/engr.



COMPUTER SCIENCE

an education that prepares you for success

4 Year Plan | 2018/2019

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
Free Elective		GEM or other	3

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

TOTAL 17

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
Elective	Science Elective w/Lab	GEM 4	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
Elective	Humanities / Social Science	GEM 5/6/7	3
Elective	Science Elective w/Lab	GEM 4	3

TOTAL 13

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

JUNIOR

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Theory of Computation	CS 385		3
Probability & Statistics	STAT 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 towards UI upper division credits.

TOTAL 15

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Software Engineering	CS 383		3
Analysis of Algorithms	CS 395		3
Elective	Humanities / Social Science	GEM 5/6/7	3
Elective	CS Technical Elective		3
Elective	Free Elective	GEM or other	3

TOTAL 15

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
Math Elective	Upper Division Math or MATH 275	MATH 275	3
Elective	CS Technical Elective		3

TOTAL 14

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Senior Capstone Design II	CS 481		3
Elective	CS Technical Elective		3
Elective	Free Elective		8

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 40 credits of upper division 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