



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 U of I 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 U of I faculty. Students planning on transferring to U of I are encouraged to complete an associate of science degree at NIC.

Regional Employers

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

Skills Needed

- Interest and aptitude in math and science
- Comfortable working with computers and other technology
- Creativity and problem-solving
- Generally interested in how things work
- Personal initiative and 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 implementer
- 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.



University of Idaho
Department of Computer Science
Coeur d'Alene

COMPUTER SCIENCE

an education that prepares you for success

5-Year Plan | 2019/2020

YEAR 1

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computational Thinking	CS 112**	CS 115**	3
Intro to College English	ENGL 101**	ENGL 101**	3
Pre-Calculus Algebra & Analytic Geometry	MATH 143**	MATH 143**	3
Analytic Trigonometry	MATH 144	MATH 144	1
Elective	Humanities/ Social Science	GEM 5/6/7	3

TOTAL 13

CREDITS

*Minimum grade of C required in all 100-level CS courses and Math 176/187 for entrance into 200-level courses. **Not Required, but recommended

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Science I	CS 120*	CS 150*	4
College Writing and Rhetoric	ENGL 102	ENGL 102	3
Fundamentals of Public Speaking	COMM 101	COMM 101	3
Discrete Mathematics	MATH 176*	MATH 187*	4

TOTAL 14

YEAR 2

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Science II	CS 121*	CS 151*	4
Computer Organization & Architecture	CS 150*	CS 155*	3
Analytic Geometry & Calculus I	MATH 170*	MATH 170*	4
Elective	Humanities/ Social Science	GEM 5/6/7	3

TOTAL 14

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

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Programming Languages	CS 210*	CS 210*	3
System Software	CS 270*	CS 270*	3
Analytic Geometry & Calculus II	MATH 175*	MATH 175*	4
Science Elective w/Lab		GEM 4 / Science	4

TOTAL 14

YEAR 3

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Computer Operating Systems	CS 240*	CS 241*	3
Elective	Humanities/ Social Science	GEM 5/6/7	3
Science Elective w/Lab		GEM 4	4
Free Elective			3

TOTAL 13

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

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Software Engineering	CS 383		3
Analysis of Algorithms	CS 395		3
Linear Algebra	MATH 330	MATH 335	3
Technical Writing	ENGL 317	ENGL 202	3

TOTAL 12

YEAR 4

FALL

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Contemporary Issues in Computer Science	CS 400		1
Compiler Design	CS 445		4
Probability & Statistics	STAT 301	MATH 253	3
Theory of Computation	CS 385		3
Elective	CS Technical Elective		3

TOTAL 14

SPRING

REQUIRED COURSE	UI COURSE	NIC COURSE	CREDITS
Data Base Systems	CS 360		3
Senior Capstone Design I	CS 480		3
Elective	CS Technical Elective		3
Elective	Humanities/ Social Science	GEM 5/6/7	3
Free Elective			2

TOTAL 14

YEAR 5

FALL

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

TOTAL 12

- 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 upper-division credits required to graduate.
- A 4-year academic plan is an option see department website for additional information.