



Endless Career Opportunities

From its inception just a half-century ago, computing has become the defining technology of our age. Computers are integral to modern culture and are the primary engine behind much of the world's economic growth. Moreover, the field continues to evolve at an astonishing pace, making computer science a vibrant discipline.

UD's computer science curriculum emphasizes software development and computer theory with the goal that students learn how computers are used to solve real-life problems. Students develop excellent programming skills as they build a solid foundation in the theory and practice of computer science and software engineering. The research of the faculty guides upper-level course offerings, and there are ample opportunities for undergraduates to participate in research projects. Students are encouraged to explore how other subject areas impact and are impacted by computer science through a concentration in a related discipline.

We are committed to providing students with access to the most advanced computer technology available and maintaining research laboratories for areas requiring extensive experimental studies. Students also have access to our high-performance clusters for coursework and research in parallel computing, networking, artificial intelligence, and multimedia.

CAREER PATHS:

Application Developer
Computer Programmer
Infrastructure Engineer
Middleware Engineer
Site Reliability Engineer
Software Engineer
Data Scientist **and more!**

GRADUATE SCHOOL FOR:

Artificial Intelligence
High-Performance Computing
Bioinformatics
Software Engineering
Graphics & Vision
Robotics
Computer Networking **and more!**

CIS.UDEL.EDU



Future earnings

UD's computer science alumni are earning more than their colleagues who graduated from other universities. According to The Wall Street Journal's 2015-16 College Salary Report, UD ranked fourth in the nation for starting and mid-career salary of computer science graduates. A degree in computer science opens the door to careers in virtually every manufacturing and service industry such as chemical companies, consumer products firms, banks and financial services companies, and government agencies. Many students go on to start their own businesses.

Course topics you will explore:

- Data Structures
- Statistical Methods
- Parallel Computing
- Logic and Programming
- Ethics

and more!

CONTACT US:

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Computer Science BS Degree Curriculum:

To earn a bachelor's degree, students must complete 124 credits and meet specific requirements as outlined in the online catalog. See UD Catalog for additional details.

FIRST YEAR

FALL

	Credits
EGGG 101 - Introduction to Engineering (FYE)	2
CISC 108 - Introduction to Computer Science I	3
MATH 241 - Analytic Geometry & Calculus A	4
ENGL 110 - Seminar in Composition	3
Breadth Requirement Elective 1	3

Total Credits: 15

SPRING

	Credits
CISC 181 - Introduction to Computer Science II	3
MATH 242 - Analytic Geometry & Calculus B	4
CISC 210 - Introduction to Systems Programming	3
Breadth Requirement Elective 2	3
Breadth Requirement Elective 3	3

Total Credits: 16

SECOND YEAR

FALL

	Credits
CISC 220 - Data Structures	3
CISC 260 - Machine Org. & Assembly Language	3
MATH 210 - Discrete Mathematics I	3
Laboratory Science 1	4
General Elective 1	3

Total Credits: 16

SPRING

	Credits
CISC 355 - Computers, Ethics & Society	3
CISC 275 - Introduction to Software Engineering	3
MATH 205 - Statistical Methods (or) MATH 350 - Probability Theory and Simulation Methods	3
Laboratory Science 2	4
Breadth Requirement Elective 4	3

Total Credits: 16

THIRD YEAR

FALL

	Credits
CISC 320 - Introduction to Algorithms	3
CISC 361 - Operating Systems	3
CISC 304 - Logic for Programming (or) MATH 349 - Elementary Linear Algebra	3
Concentration Elective 1	3
Laboratory Science 3	4

Total Credits: 16

SPRING

	Credits
CISC 372 - Parallel Computing	3
CISC 303 - Automata Theory	3
ENGL 312 - Written Communications in Business* (or) ENGL 410 - Technical Writing *	3
Concentration Elective 2	3
General Elective 2	3

Total Credits: 15

FOURTH YEAR

FALL

	Credits
CISC 498 - Computer Science Design Project 1 (or) UNIV 401 - Senior Thesis (DLE)	3
CISC 3XX - Computer Science Elective 1	3
Concentration Elective 3	3
General Elective 3	3
General Elective 4	3

Total Credits: 15

SPRING

	Credits
CISC 499 - Computer Science Design Project 2 (or) UNIV 402 - Senior Thesis (DLE & Capstone)	3
CISC 3XX Computer Science Elective 2	3
Concentration Elective 4	3
General Elective 5	3
General Elective 6	3

Total Credits: 15

*Satisfies upper level COE breadth requirement