

B.S. Computer Science

Program Admissions Requirements

There are no program admission requirements for the B.S. in Computer Science.

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3 - MATH 1170		4
Objective 4		6
Objective 5 - PHYS 2211		7
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7 - CS 1181 or INFO 1181		
Objective 8		
Objective 9		3
Total Credits		38

Major Requirements

All required courses for the CS major must be completed with a grade of C- or higher.

Code	Title	Credits
Mathematics and Science Courses:		
MATH 1170	Calculus I (Satisfies General Education Objective 3)	4
MATH 1175	Calculus II	4
MATH 2240	Linear Algebra	3
CS/MATH 1187	Applied Discrete Structures	3
PHYS 2211	Engineering Physics I (Partially satisfies General Education Objective 5)	4
Math or Science Electives ¹		10
Select one course in statistics from the following:		
MATH 3350	Statistical Methods	3
or MATH 4450	Mathematical Statistics I	
or MGT 2216	Business Statistics	
Technical Communication Requirements:		
ENGL 3307	Professional and Technical Writing	3
or ENGL 3308	Business Communications	
Required Computer Science and Related Courses:		
CS/INFO 1181	Computer Science and Programming I (Satisfies General Education Objective 7)	3
CS 1337	System Programming and Assembly	3
CS 2235	Data Structures and Algorithms	3
CS 2263	Advanced Object-Oriented Programming	3
CS 3305	Introduction to Computational Theory	3

CS 3316	Social Issues and Professional Practices in Computing	3
CS 3321	Introduction to Software Engineering	3
CS 3337	Advanced Systems Programming	3
CS 4412	Advanced Algorithms	3
CS 4488	Capstone Project	3
INFO 4407	Database Design and Implementation	3
The CS Major also requires 9 additional 4000-level CS elective credits.		9
Total Credits		76

¹ Ten (10) additional credits are required from math, biological science, chemistry, geoscience, or physics. At least six (6) of the ten (10) credits must be at the 2000-level or higher (with the exception of MATH 2256, MATH 2257, BIOL 2213, BIOL 2214, BIOL 2230, and BIOL 2280).

Degree Totals

Code	Title	Credits
	Program Admission Requirements	0
	General Education	38
	Major Requirements (Required General Education credits removed.)	65
	Upper Division Free Electives	3
	Free Electives	14
	Total Credits	120

ISU Degree Requirements (<http://coursecat.isu.edu/undergraduate/degreerequirements/>)

ISU General Education (<http://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/>)

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