Computer Science Major (BA)

Associate Professors: Marcus Birkenkrahe and David Sonnier

Computer Science is a rapidly changing and exciting field. Its impact on our lives is evidenced by the variety of uses of information technology in business, industry, entertainment, science, and government, to name a few. The Computer Science Major focuses on the foundations of the computer sciences including areas such as software and hardware design, mathematical foundations of computer science, and complexity of computation. The program is designed to give students an enduring foundation for future professional growth. The program blends theory and practice into a learning experience that gives students the capability to apply computer and information systems technology to a wide range of disciplines.

- MTH 115 and MTH 210 may also be used to satisfy core requirements.

NOTE: To graduate with a Bachelor of Arts or Bachelor of Science degree from Lyon College, students must successfully complete a minimum of 120 semester credit hours comprised of our required Core curriculum (44-48 hours), the requirements of at least one major (credit hours vary per major), and a selection of our Liberal Arts electives. They must also earn at least a 2.00 cumulative grade point average for all work taken at Lyon College and a 2.00 cumulative grade point average in their major, minor, and concentration.

Summary of Requirements for a Major in Computer Science

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Item #	Title	Credits
	MTH 115 or MTH 290	3
MTH 210	Calculus I	4
CSC 100	Introduction to Programming in C++	3
CSC 240	Data Structures with C++	3
CSC 245	Introduction to Digital Logic	3
CSC 255	Computer Architecture	3
CSC 265	Algorithms	3
CSC 310	Mathematical Foundations of Computer Science	3
CSC 320	Programming Languages	3
CSC 420	Operating Systems	3
	CSC Electives (9 credits)	9

CORE CURRICULUM

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Item #	Title	Credits
	Core Curriculum Requirements (In addition to Major hours)	44-48
	Total Credits	**84-88**

MTH 115 or MTH 290

Item #	Title	Credits
MTH 115	Discrete Mathematics	3
MTH 290	Foundations of Modern Mathematics	3

CSC Electives (9 credits)

3 electives at the 300/400 level; one may be a 300/400 level MTH class.