

COMPUTER SCIENCE, B.A.

Requirements for a Major in Computer Science

The Bachelor of Arts degree with a major in computer science provides a traditional liberal arts education with a solid set of core courses in computer science. These courses provide the foundation necessary for advancement in computer science. During the sophomore year, a student selects one of several areas of concentration. Students may choose a concentration program from computer science or any approved minor in another discipline.

An important characteristic of the Baylor computer science program is the integration of software, hardware, theory, and design methodology throughout the curriculum. A highly personalized education is provided by faculty who are dedicated to undergraduate education with small classes and state-of-the-art laboratories. The programs are broadly based to prepare computer science graduates for the increasingly complex and ever-changing field of computer science.

In addition to a Bachelor of Arts degree with a major in computer science, the Department of Computer Science offers a Bachelor of Science in Computer Science (B.S.C.S.) degree accredited by the

Computing Accreditation Commission of the Accreditation Board for Engineering and Technology
111 Market Place, Suite 1050
Baltimore, MD 21202-4012
Telephone: (410) 347-7700

The requirements for the B.S.C.S. and B.S.I. are presented in the School of Engineering & Computer Science section of the Undergraduate Catalog.

Option A - Computer Science Major (Computer Science Concentration)

Code	Title	Hours
Required Courses		
Fifty-two semester hours of computer science including the following:		
CSI 1430	Introduction to Computer Science I with Laboratory	4
CSI 1440	Introduction to Computer Science II with Laboratory	4
CSI 2334	Introduction to Computer Systems	3
CSI 2350	Discrete Structures	3
CSI 3334	Data Structures	3
CSI 3335	Database Design and Applications	3
CSI 3336	Systems Programming	3
CSI 3344	Introduction to Algorithms	3
CSI 3372	Software Engineering II	3
CSI 3439	Computer Architecture	4
CSI 3471	Software Engineering I	4
CSI 4321	Data Communications	3
CSI 4330	Foundations of Computing	3
CSI 4337	Introduction to Operating Systems	3
CSI 43C9	Capstone Design Project	3

Three semester hours of 3000-4000 CSI courses	3
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Additional Requirements

A grade of "C" or better is required in all computer science hours counted toward the major.

Subtotal	52
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Required Courses in Other Fields

PWR 3300	Technical Writing	3
MTH 1321	Calculus I	3
STA 2381	Introductory Statistical Methods	3
or STA 3381	Probability and Statistics	
CSS 1302	Speech for Business and Professional Students	3

Total Hours	64
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¹ "C" or better in MTH 1322 Calculus II is the prerequisite for STA 3381 Probability and Statistics

Option B - Computer Science Major (Additional Minor Concentration)

Code	Title	Hours
Required Courses		
Forty-two semester hours of computer science including the following:		
CSI 1430	Introduction to Computer Science I with Laboratory	4
CSI 1440	Introduction to Computer Science II with Laboratory	4
CSI 2334	Introduction to Computer Systems	3
CSI 2350	Discrete Structures	3
CSI 3334	Data Structures	3
CSI 3335	Database Design and Applications	3
CSI 3336	Systems Programming	3
CSI 3344	Introduction to Algorithms	3
CSI 3372	Software Engineering II	3
CSI 3471	Software Engineering I	4
CSI 4321	Data Communications	3
CSI 4337	Introduction to Operating Systems	3
CSI 43C9	Capstone Design Project	3

Additional Requirements

A grade of "C" or better is required in all computer science hours counted toward the major

Subtotal	42
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Required Courses in Other Fields

Complete any minor conferred by the College of Arts & Sciences other than the computer science minor.

PWR 3300	Technical Writing	3
MTH 1321	Calculus I	3
STA 2381	Introductory Statistical Methods	3
or STA 3381	Probability and Statistics	
CSS 1302	Speech for Business and Professional Students	3

Total Hours	54
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¹ "C" or better in MTH 1322 Calculus II is the prerequisite for STA 3381 Probability and Statistics

Note: The following courses are not applicable to the major or minor in computer science or as degree electives without written permission from the Computer Science Department Chair:

Code	Title	Hours
CSI 1337	Introduction to Video Game Design	3
CSI 1401	Introduction to Programming I	4
CSI 1402	Introduction to Programming II	4
CSI 2300	Introduction to Data Science	3
CSI 3303	Information Technology	3