

**Computer Science Major Bachelor of Arts (54 credit hours)**

**2018-2019**

**Major Requirements:**

**Foundational Courses (28 credit hours):**

- CPSC 1400, Computer Science I, 4 credit hours<sup>1</sup>
- CPSC 1500, Computer Science II, 4 credit hours
- CPSC 2100, Database Programming, 4 credit hours
- CPSC 2330, Introduction to Web Applications, 4 credit hours
- CPSC 2420, Computer Architecture, 2 credit hours
- CPSC 2430, Programming Languages and Compilers, 2 credit hours
- CPSC 2500, Data Structures and Algorithms, 4 credit hours
- MATH 2200/CPSC 2250, Discrete Mathematical Structures, 4 credit hours

**Professional Core (17 credit hours)**

- CPSC/ENGR 3310, Cybersecurity, 3 credit hours
- CPSC/ENGR 3320, Cybersecurity Laboratory, 1 credit hour
- CPSC 3410, Computer Networks, 3 credit hours
- CPSC 4420, Operating Systems, 3 credit hours
- CPSC 4430, Software Engineering, 3 credit hours
- CPSC 4950, Senior Design Capstone 1, 2 credit hours
- CPSC 4960, Senior Design Capstone 2, 2 credit hours

**Mathematics Elective (3-4 credit hours):**

- Any 3-4 credit hours from MATH 1300 and above.

**Computer Science Elective (6 credit hours):**

- Any 6 credit hours from CPSC 2000 and above.

Proposed course sequence:

Freshman: CPSC 1400, Math Elective; CPSC 1500, MATH 2200/CPSC 2250  
Sophomore: CPSC 2100, CPSC 2500; CPSC 2420, 2430, 2330  
Junior: CPSC 3310 and 3320, CPSC 4430; CPSC 4420, Computer Science Elective  
Senior: CPSC 4950, Computer Science Elective; CPSC 4960, CPSC 3410

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<sup>1</sup> This course fulfills the Quantitative Ways of Knowing requirement in the Liberal Arts Program. Questions? Please contact the [Department of Computer Science](#).

Computer Science Bachelor of Arts Major Suggested Course Sequence

2018-2019

SEMESTER 1		SEMESTER 2	
CPSC 1400	4 Hours	CPSC 1500	4 Hours
Mathematics Elective	4 Hours	MATH 2200/CPSC 2250	4 Hours
ENGL 1100/ENGL 1110	3-4 Hours	ENGL 1120	3 Hours
LART 1050	1 Hour	LART 1100	2 Hours
Foreign Language	4 Hours	COMM 1000	3 Hours

SEMESTER 3		SEMESTER 4	
CPSC 2100	4 Hours	CPSC 2420	2 Hours
CPSC 2500	4 Hours	CPSC 2430	2 Hours
BIBL 2000	3 Hours	CPSC 2330	4 Hours
Personal Wellness	2-Hours	Scientific Ways of Knowing	4 Hours
Elective	3 Hours	Civic Ways of Knowing	3 Hours

SEMESTER 5		SEMESTER 6	
CPSC 3310 and CPSC 3320	3+1 Hours	CPSC 4420 (Spring 2017-18)	3 Hours
CPSC 4430 (Fall 2017-18)	3 Hours	Computer Science Elective	3 Hours
Christian Ways of Knowing	3 Hours	Social & Behavioral Ways of Knowing	3 Hours
Writing Intensive Course	3 Hours	Global/Intercultural Ways of Knowing	3 Hours

SEMESTER 7		SEMESTER 8	
CPSC 4950	2 Hours	CPSC 4960	2 Hours
Computer Science Elective	3 Hours	CPSC 3410 (Spring 2018-19)	3 Hours
Aesthetic Ways of Knowing	3 Hours	Speaking Intensive Course	3 Hours
Writing Intensive Course	3 Hours	Elective	3 Hours

The Computer Science Bachelor of Arts program allows students to move directly into high-paying industry jobs after graduation. The B.A. in Computer Science is designed to develop each student's problem solving, critical thinking, and communication abilities while also developing the computer science knowledge and skills needed by programmers, software developers and software engineers.

Questions? Please contact the [Department of Computer Science](#).