Bachelor of Science - Computer Science - Students Entering Fall 2024

Name: _____   CWID: _____   Minor Field(s), if any: _____   Co-op (Y/N) _____

Interested in Pursuing Accelerated Masters Program (Y/N)___   Reduced Course Program (Y/N) ___   Interested in Study Abroad(Y/N)___

The primary purpose of this form is to lay out the courses required to complete your degree program and when you expect to take each of them. You may then use it to track your own progress to the degree. You should revise it as needed. Please indicate the term when you expect to take each course (e.g., 20F, 21S, etc.). Roman numerals indicate the standard curriculum time schedule. For electives, fill in the course number. Any courses taken elsewhere for Transfer Credit should be marked as TR. Advanced Placement credit should be marked as AP.

Term	Course	Credits	Grade
REQUIRED COURSES			
I	Science I _____	3.0	____
II	Science II _____	3.0	____
II	Science Lab _____	1.0	____
I	MA121 – Differential Calculus	2.0	____
I	MA122 – Integral Calculus	2.0	____
II	MA125 – Vectors and Matrices	2.0	____
II	MA126– Multivariable Calculus I	2.0	____
III	MA222 – Probability and Statistics	3.0	____
IV	MA331 – Intermediate Statistics	3.0	____
I	CS101 – Research and Entrepreneurship in Computing	1.0	____
I	CS115 – Introduction to Computer Science	4.0	____
II	CS135 – Discrete Structures	4.0	____
II	CS284 – Data Structures	4.0	____
III	CS382 – Computer Architecture and Organization	4.0	____
III	CS385 – Algorithms	4.0	____
IV	CS392 – Systems Programming	3.0	____
IV	CS496 – Principles of Programming Languages	3.0	____
V	CS334 – Theory of Computation	3.0	____
V	CS396 – Security, Privacy, and Society	4.0	____
VII	CS423 – Senior Design I	3.0	____
VIII	CS424 – Senior Design II	3.0	____

Term	ADDITIONAL COURSES	Credits	Grade
____	_____	____	____
____	_____	____	____
____	_____	____	____
____	_____	____	____
____	_____	____	____
____	_____	____	____
____	_____	____	____

Term	Course	Credits	Grade
TECHNICAL ELECTIVES			
IV	_____	3.0	____
V	_____	3.0	____
VI	_____	3.0	____
VI	_____	3.0	____
VI	_____	3.0	____
VI	_____	3.0	____
VII	_____	3.0	____
VII	_____	3.0	____
VII	_____	3.0	____
VIII	_____	3.0	____
VIII	_____	3.0	____

Term	SUCCESS CORE CURRICULUM	Credits	Grade
I	PRV 101 – First Year Experience	1.0	____
III	MGT 103–Intro to Entrepreneurial Thinking	2.0	____
III	PRV _____	1.0	____
IV	PRV _____	1.0	____
IV	PRV _____	1.0	____

Term	HUMANITIES	Credits	Grade
I	HASS 103	3.0	____
II	HASS 105	3.0	____
IV	Humanities	3.0	____
V	HSSC 371	3.0	____
VII	Humanities	3.0	____
VIII	Humanities	3.0	____

Term	SCIENCE/MATH ELECTIVES	Credits	Grade
III	_____	3.0	____
VI	_____	3.0	____

Term	GENERAL ELECTIVES	Credits	Grade
V	_____	3.0	____
VIII	_____	3.0	____

Effective Sept. 1, 2024

Standard CS Semester Outline

TERM I- 16 credits

CS 101-   Research and Entrepreneurship in Computing
CS 115-   Introduction to Computer Science
HASS 103- Writing and Communications Colloquium
MA 121-   Differential Calculus
MA 122-   Integral Calculus
Science I
PRV 101-   First Year Experience

TERM II- 19 credits

CS 135-   Discrete Structures
CS 284-   Data Structures
HASS 105- Knowledge, Nature, Culture
MA 125-   Vectors and Matrices
MA 126-   Multivariable Calculus I
Science II
Science Lab

TERM III- 17 credits

CS 382-   Computer Architecture and Organization
CS 385-   Algorithms
MA 222-   Probability and Statistics
Science/Math Elective
MGT 103- Intro to Entrepreneurial Thinking
PRV 20X- Frontiers of Technology

TERM IV- 17 credits

CS 392-   Systems Programming
CS 496-   Principles of Programming Languages
MA 331-   Intermediate Statistics
Humanities
Technical Elective
PRV 20X- Frontiers of Technology
PRV 20X- Frontiers of Technology

TERM V- 16 credits

CS 334-   Theory of Computation
CS 396-   Security, Privacy, and Society
HSSC 371- Computers and Society
Technical Elective
General Elective

TERM VI- 15 credits

Science/Math Elective
Technical Elective
Technical Elective
Technical Elective
Technical Elective

TERM VII- 15 credits

CS 423- Senior Design I
Humanities
Technical Elective
Technical Elective
Technical Elective

TERM VIII- 15 credits

CS 424- Senior Design II
Humanities
General Elective
Technical Elective
Technical Elective

Additional Resources

Required Science Track:

	Science I	Science II	Science Lab
Physics	PEP 111 Mechanics	PEP 112 Electricity and Magnetism	PEP 221
Chemistry	CH 115 General Chemistry I	CH 116 General Chemistry II	CH 117
Chemistry & Biology	CH 115 General Chemistry I	BIO 281 Biology & Biotechnology	CH 117 OR BIO 282
Physics & Biology	PEP 111 Mechanics	BIO 281 Biology & Biotechnology	BIO 282
Physics & Chemistry	PEP 111 Mechanics	CH 115 General Chemistry I	CH 117

Science/Math Electives:

You can count any 3-credit physics (PEP), chemistry (CH), biology (BIO), or mathematics (MA) course, except:

- Any course that is required for your degree requirements
- Any course that is equivalent to another course counted towards the degree. For example, MA 117, MA 118, MA 119, MA 134, MA 503, and MA 520 may not be counted
- EN 250, CE 240, and NANO 200 may count as a science elective.

CS Core Courses:

Note: Certain courses are only offered during the Fall or Spring semester

CS 101-**Fall Only**	
CS 115	
CS 135	
CS 284	Pre req CS 115
CS 382	Pre req CS 284
CS 385	Pre req CS 284
CS 392- **SPR Only**	Pre req CS 385 & CS 382
CS 496- **SPR Only**	Pre req CS 385
CS 334- **Fall Only**	Pre req CS 135 & CS 385
CS 396	Pre req CS 392
CS 423- **Fall Only**	Pre req CS 385
CS 424- **SPR Only**	Pre req CS 423