

Bachelor of Science - Computer Science - Students Entering Fall 2025

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 | Term | Course | Credits | Grade |
|---------------------------------------|--|---------|-------|---------------------------------------|---|---------|-------|
| <u>REQUIRED COURSES</u> | | | | <u>TECHNICAL ELECTIVES</u> | | | |
| I | Science I | 3.0 | | IV | | 3.0 | |
| II | Science II | 3.0 | | V | | 3.0 | |
| II | Science Lab | 1.0 | | VI | | 3.0 | |
| | | | | VI | | 3.0 | |
| I | MA121 – Differential Calculus | 2.0 | | VI | | 3.0 | |
| I | MA122 – Integral Calculus | 2.0 | | VII | | 3.0 | |
| II | MA125 – Vectors and Matrices | 2.0 | | VII | | 3.0 | |
| II | MA126– Multivariable Calculus I | 2.0 | | VII | | 3.0 | |
| III | MA222 – Probability and Statistics | 3.0 | | VIII | | 3.0 | |
| IV | MA331 – Intermediate Statistics | 3.0 | | VIII | | 3.0 | |
| | | | | | | | |
| I | CS101 – Research and Entrepreneurship in Computing | 1.0 | | <u>SUCCESS CORE CURRICULUM</u> | | | |
| I | CS115 – Introduction to Computer Science | 4.0 | | I | PRV 101 – First Year Experience | 1.0 | |
| II | CS135 – Discrete Structures | 4.0 | | III | MGT 103–Intro to Entrepreneurial Thinking | 2.0 | |
| II | CS284 – Data Structures | 4.0 | | III | PRV | 1.0 | |
| III | CS382 – Computer Architecture and Organization | 4.0 | | IV | PRV | 1.0 | |
| III | CS385 – Algorithms | 4.0 | | IV | PRV | 1.0 | |
| IV | CS392 – Systems Programming | 3.0 | | | | | |
| IV | CS496 – Principles of Programming Languages | 3.0 | | <u>HUMANITIES</u> | | | |
| V | CS334 – Theory of Computation | 3.0 | | I | HASS 103 | 3.0 | |
| V | CS396 – Security, Privacy, and Society | 4.0 | | II | HASS 105 | 3.0 | |
| VII | CS423 – Senior Design I | 3.0 | | IV | Humanities | 3.0 | |
| VIII | CS424 – Senior Design II | 3.0 | | V | HSSC 371 | 3.0 | |
| | | | | VII | Humanities | 3.0 | |
| Term | <u>ADDITIONAL COURSES</u> | Credits | Grade | VIII | Humanities | 3.0 | |
| | | | | <u>SCIENCE/MATH ELECTIVES</u> | | | |
| | | | | III | | 3.0 | |
| | | | | VI | | 3.0 | |
| | | | | <u>GENERAL ELECTIVES</u> | | | |
| | | | | V | | 3.0 | |
| | | | | VIII | | 3.0 | |
| *FOR ACADEMIC ADVISING PURPOSES ONLY* | | | | | | | |

FOR ACADEMIC ADVISING PURPOSES ONLY

Effective Sept. 1, 2025

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 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 V- 16 credits

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

TERM VII- 15 credits

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

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 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 VI- 15 credits

Science/Math Elective
 Technical Elective
 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 |
| Physics & Biology | PEP 111 Mechanics | BIO 181 Biology & Biotechnology | BIO 182 |
| Physics & Chemistry | PEP 111 Mechanics | CH 115 General Chemistry I | CH 117 |
| Chemistry | CH 115 General Chemistry I | CH 116 General Chemistry II | CH 117 |
| Chemistry & Biology | CH 115 General Chemistry I | BIO 181 Biology & Biotechnology | CH 117 OR BIO 182 |
| Chemistry & Physics | CH 115 General Chemistry I | PEP 111 Mechanics | 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 |