

# 2023-2024 Computer Science BS Degree Plan



Student name: \_\_\_\_\_ UMID: \_\_\_\_\_ Date: \_\_\_\_\_  
 Advisor name: \_\_\_\_\_ Concentration: **None**

**The Purpose of General Education is to Gain:**

- Knowledge of Human Cultures and the Physical and Natural World
- Intellectual and Practical Skills
- Personal and Social Responsibility
- Integrative and Applied Learning

**Key Courses For General Education (48 hours)**

1. **Written Composition (6)**  
Choose: ENG 101 or 103. 3 \_\_\_\_\_  
Choose: ENG 102 or 104. 3 \_\_\_\_\_
2. **Humanities & Fine Arts (18)**  
Choose one: ENG 231, 233, 232 or 234\*. 3 \_\_\_\_\_  
\*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
Choose: COMS 101 or 102. 3 \_\_\_\_\_  
Choose one Fine Arts: ART 100, 120, 220; 3 \_\_\_\_\_  
 MC 100, 325; MUS 121 or 122, 125, 211, 240, 255, 342; THEA 120 or 122.  
Choose one Humanities:  
 ENG 231 or 233, 232 or 234; FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290; REL 110.  
Choose two of the following (not used above):  
 ART 100, 120, 220; ENG 231 or 233, 232 or 234; 3 \_\_\_\_\_  
 FRN 101, 102, 150, 201, 202, 250; SPN 101 or 103, 102 or 104, 150, 201, 202, 250; GER 101, 102, 201, 202; MC 100, 325; MUS 121 or 122, 125, 211, 240, 255, 342; PHIL 110 or 111, 180, 220 or 221, 230, 280, 290; REL 110; THEA 120 or 122.
3. **Natural Sciences & Mathematics (12)**  
Choose one lab science from two different disciplines:  
 BIO 100, 105-107; CHEM 100-102, 121, 122; 4 \_\_\_\_\_  
 ESCI 100; GEOL 110, 115; PHYS 100 or higher. 4 \_\_\_\_\_  
Choose: MATH 170. 4 \_\_\_\_\_
4. **History, Social & Behavioral Sciences (12)**  
Choose one: HIST 101, 102, 103 or 104.\* 3 \_\_\_\_\_  
\*Students must complete a six-hour sequence in either History or Literature. Students may complete both sequences.  
Choose three of the following (not used above):  
 EC 231, 232; FCS 291, 402; GEOG 231; 3 \_\_\_\_\_  
 HIST 101 or 103, 102 or 104; POS 200, 250; 3 \_\_\_\_\_  
 PSYC 201/202; SOC 101/102; SWK 203, 260, 322. 3 \_\_\_\_\_
5. **Personal Development (3)**  
Choose: CS 161. 3 \*\*

\*\*Indicates requirement is satisfied in major course requirements.

**Additional Requirements for Degree (7 hours)**

**Bachelor of Science Requirements (7)**

Choose MATH 171 4 \_\_\_\_\_

Choose 2 additional hours in mathematics and/or science (not used toward requirement #3 above).

\_\_\_\_\_ 3 \_\_\_\_\_

**Major Course Requirements (36 hours)**

- |  |         |
|--|---------|
| CS 161 (Introduction to Computer Science)        | 3 _____ |
| CS 170 (Introduction to Programming with Python) | 3 _____ |
| CS 270 (Object-Oriented Programming)             | 3 _____ |
| CS 280 (Algorithm Dev and Data Structure)        | 3 _____ |
| CS 305 (Operating System)                        | 3 _____ |
| CS 320 (Database Management Systems)             | 3 _____ |
| CS 400 (Program Languages)                       | 3 _____ |
| CS 405 (Computer Networks)                       | 3 _____ |
| CS 415 (Software Engineering)                    | 3 _____ |
| CS 485 (Senior Seminar in Computer Science)      | 3 _____ |

Choose two of the following (at least one of which must be a CS course):

- |  |         |
|--|---------|
| CS elective (200-level or above)             | 3 _____ |
| CS elective (200-level or above)             | 3 _____ |
| CS 325 (Artificial Intelligence)             | 3 _____ |
| ART 250 (Introduction to New Media)          | 3 _____ |
| DATA 241 (Intro. to Informatics & Computing) | 3 _____ |
| MATH 261 (Intro. to Prog. & Comp. Alg. Sys.) | 3 _____ |

**Minor Course Requirements (12-24 hours)**

- CS majors must complete either:
1. A minor in a selected field or
  2. A second major

Title: \_\_\_\_\_ Hrs. Req. \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**General Electives (remaining for required hours)**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**GENERAL GRADUATION REQUIREMENTS**

- |                                   |  |
|-----------------------------------|--|
| 1. 50% of hrs in major area at UM | 5. 45 hr limit of non-traditional credit                 |
| 2. 30 hrs 300/400 at UM           | 6. 6-hr sequence in history or literature                |
| 3. 30 of last 40 hours at UM      | 7. Capstone experience within major                      |
| 4. 64 hr limit from 2-year school | 8. 2.0 or higher UM GPA and in all major and minor areas |

Total Hours Required:	120
Total Hours Completed to Date:	_____
Hours Remaining for Completion:	_____
Hours Currently Registered:	_____
Hours Remaining:	_____