

# 2020-2021 Computer Science BA 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 (47 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 or 232/234.\* 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, 218, 219; 3 \_\_\_\_\_  
 MC 100, 325; MUS 121 or 122, 125, 211, 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.  
 Choose two of the following (not used above):  
 ART 100, 218, 219; 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, 255, 342; PHIL 110/111, 180, 220 or 221, 230, 280, 290; THEA 120 or 122.
3. **Natural Sciences & Mathematics (11)**  
 Choose one lab science from two different disciplines:  
 BIO 100, 105-107; CHEM 100-102, 121, 122; 4 \_\_\_\_\_  
 ES 100; GEOL 110, 115; PHYS 100 or higher. 4 \_\_\_\_\_  
 Choose: MATH 147 or 154 (or MATH 144 or higher). 3 \_\_\_\_\_
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 (12 hours)**

**Bachelor of Arts Requirements (12)**

Complete the second-year course sequence in a foreign language (FRN, GER, or SPN). Courses may also be used to satisfy requirement #2 (Humanities) above.

101 or 103 3 \_\_\_\_\_ 201 3 \_\_\_\_\_  
 102 or 104 3 \_\_\_\_\_ 202 3 \_\_\_\_\_  
 Or 150 6 \_\_\_\_\_ 250 6 \_\_\_\_\_

**Major Course Requirements (37 hours)**

- CS 161 (Introduction to Computer Science) 3 \_\_\_\_\_
- CS 185 (Survey of Computer Science) 1 \_\_\_\_\_
- CS 210 (Intro. to Object Oriented Programming) 3 \_\_\_\_\_
- CS 222 (Algorithm Development) 3 \_\_\_\_\_
- CS 250 (Discrete Math. for Computer Science) 3 \_\_\_\_\_
- CS 310 (Data Structures) 3 \_\_\_\_\_
- CS 311 (Object Oriented Design) 3 \_\_\_\_\_
- CS 322 (Algorithm Dev. & Data Structures) 3 \_\_\_\_\_
- CS 340 (Human Centered Comp. Foundations) 3 \_\_\_\_\_
- CS 484 (Senior Seminar I) 3 \_\_\_\_\_
- CS 485 (Senior Seminar II) 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 \_\_\_\_\_
- ART 250 (Introduction to New Media) 3 \_\_\_\_\_
- INFM 241 (Intro. to Informatics & Computing) 3 \_\_\_\_\_
- MATH 261 (Intro. to Prog. & Comp. Alg. Sys.) 3 \_\_\_\_\_

**General Electives (24 hours)**

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\_\_\_\_\_

\_\_\_\_\_

**Minor Course Requirements**

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

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

\_\_\_\_\_

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**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: \_\_\_\_\_