Michigan Technological University
**Registrar's Office**
1885

**Academic Year 2017-18**
**Bachelor of Science in Computer Science**
**Concentration: Applications**
**SCS1UG**

Student Name and ID Number                    Estimated Graduation Date

| **Major Requirements: 62 - 65 Credits** | | |
|---|---|---|
| **Course Number** | **Credits** | **Course Status Code M, R, P, WVD, SUB\*** |
| CS 1000 | 1 | |
| CS 1121 **and** CS 1122   **or** CS 1131 | 6/5 | |
| CS 1142 | 3 | |
| CS 2311 | 3 | |
| CS 2321 | 3 | |
| CS 3000 | 2 | |
| CS 3141 | 3 | |
| CS 3311 | 3 | |
| CS 3331 | 3 | |
| CS 3411 | 3 | |
| CS 3421 | 3 | |
| CS 3425 | 3 | |
| CS 4121 | 3 | |
| CS 4321 | 3 | |
| HU 3120 | 3 | |
| MA 1160 **or** MA 1161 | 4/5 | |
| MA 2720 **or** MA 3710 | 4/3 | |
| **Technology and Society: 3 Credits** | | |
| Select one of the following: HU3701, HU3710, MA4945, SS3510, SS3511, SS3520, SS3530, SS3581, SS3630, SS3640, SS3800, SS3801, SS3820 | | |
| | 3 | |
| **STEM Lab Science: 8 Credits** | | |
| Courses taken to meet STEM Lab/Science must be from the approved STEM Science course list. Two different disciplines (BL, CH, EH, FW, GE, PH, SS) are required and at least one course must be taken with the accompanying laboratory. | | |
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| **Credit Subtotal** | | |

| **Concentration Requirements: 25 - 28 Credits** | | |
|---|---|---|
| **Course Number** | **Credits** | **Course Status Code M, R, P, WVD, SUB\*** |
| **Applications Area: 16 - 19 Credits** | | |
| Must be approved by the undergrad curriculum committee. Depending on application area, up to 7 additional Math credits may be required. | | |
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| CS 4yyy\* | 3 | |
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| **Technical Electives: 6 Credits (See Note)** | | |
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| **Credit Subtotal** | | |

\*CS4yyy may be satisfied by CS4099

Note: The technical electives plus the one 4000- level CS electives total 9 credits.

\***M**-Passed with valid grade, transfer, or Advance Placement credit; **R**egistered in course; **P**lan to take in future, **WVD**-Waived course or credit (does not reduce total degree credits required), **SUB-**Petitioned as substitute course.

| General Education Requirements: 24 credits | | |
| --- | --- | --- |
| **Course Number** | **Credits** | **Course Status Code M, R, P, WVD, SUB*** |

Courses used to complete General Education may not be used to complete other degree requirements.

| Core:  12 credits | | |
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| UN 1015 | 3 | |
| UN 1025 or upper level modern language | 3 | |
| Critical and Creative Thinking | 3 | |
| Social Responsibility and Ethical Reasoning | 3 | |

✓ Each course can satisfy only one requirement
✓ No more than three credits may come from the Restricted List
✓ Six credits of HASS must be at the 3000- or 4000- level (an upper level language course in place of UN1025 does not meet this requirement).

| Humanities, Fine Arts/Social & Behavioral Sciences (HASS): 12 credits | | |
| --- | --- | --- |
| Communication/ Composition | 3 | |
| Humanities and Fine Arts | 3 | |
| Social and Behavioral Sciences | 3 | |
| Course from any list above or Restricted List | 3 | |

| Co-Curricular Activities | | |
| --- | --- | --- |
| Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. | | |
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| Free Electives: 6 - 12 credits | | |
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| **Course Number** | **Credits** | **Course Status Code M, R, P, WVD, SUB*** |
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| **Credit Subtotal** | | |

| Advisor Use Only | |
| --- | --- |
| **Total Credits Required** | 123 |
| **Total Credits Completed** | |
| **Total Credits Needed** | |

Student Signature                                    Date

Departmental Approval                                    Date