

**The University of South Dakota**  
**Major Credit Hour count: 50**  
**Major: Computer Science, B.A. Artificial Intelligence Specialization**

[2020-2021 Academic Catalog]

| <u>Year / Semester</u>                   | SGR/Major Requirement | <u>Cr Hrs</u> | <u>Year / Semester</u>                   | SGR/Major Requirement | <u>Cr Hrs</u> |
|--|-----------------------|---------------|--|-----------------------|---------------|
| <b><u>First Year - 1st Semester</u></b>  |                       |               | <b><u>First Year - 2nd Semester</u></b>  |                       |               |
| CSC 155/155L Computer Science I          | Major                 | 4             | CSC 255/255L Computer Science II         | Major                 | 4             |
| ENGL 101 Composition I                   | SGR1                  | 3             | ENGL 210 Introduction to Literature      | BA                    | 3             |
| MATH 121 Survey of Calculus              | Major+SGR5            | 4             | SPCM 101 Fundamentals of Speech          | SGR2                  | 3             |
| Social Science                           | SGR3                  | 3             | Fine Arts                                | SGR4                  | 3             |
| A&S 100 First Year Experience            |                       | 1             | Social Science                           | SGR3                  | 3             |
| <b>Semester Credit Hours:</b>            |                       | <b>15</b>     | <b>Semester Credit Hours:</b>            |                       | <b>16</b>     |
| <b><u>Second Year - 1st Semester</u></b> |                       |               | <b><u>Second Year - 2nd Semester</u></b> |                       |               |
| CSC 350 Algorithms & Data Structures     | Major                 | 4             | CSC 324/324L Machine Organization        | Major                 | 4             |
| MATH 216 Discrete Structures             | Major                 | 3             | CSC Elective /Specialization             | Major                 | 3             |
| Foreign Language                         | SGR4+BA               | 3             | Foreign Language                         | BA                    | 3             |
| Natural Science                          | SGR6                  | 4             | Natural Science                          | SGR6                  | 4             |
| Advanced Composition                     | SGR1                  | 3             | Elective                                 |                       | 3             |
| <b>Semester Credit Hours:</b>            |                       | <b>17</b>     | <b>Semester Credit Hours:</b>            |                       | <b>17</b>     |
| <b><u>Third Year - 1st Semester</u></b>  |                       |               | <b><u>Third Year - 2nd Semester</u></b>  |                       |               |
| CSC Elective / Specialization            | Major                 | 3             | CSC Elective / Specialization            | Major                 | 6             |
| CSC 380 Information Retrieval & Analysis | Major                 | 3             | Additional Social Science/Humanities     | BA                    | 3             |
| Additional Social Science/Humanities     | BA                    | 3             | Minor                                    | BA                    | 3             |
| Minor                                    | BA                    | 6             | Elective                                 |                       | 3             |
| <b>Semester Credit Hours:</b>            |                       | <b>15</b>     | <b>Semester Credit Hours:</b>            |                       | <b>15</b>     |
| <b><u>Fourth Year - 1st Semester</u></b> |                       |               | <b><u>Fourth Year - 2nd Semester</u></b> |                       |               |
| CSC Elective / Specialization            | Major                 | 6             | CSC 480 Capstone: Software Engineering   | Major                 | 3             |
| Minor                                    | BA                    | 6             | CSC Elective / Specialization            | Major                 | 3             |
|  |                       |               | Minor                                    | BA                    | 3             |
|  |                       |               | Elective                                 |                       | 4             |
| <b>Semester Credit Hours:</b>            |                       | <b>12</b>     | <b>Semester Credit Hours:</b>            |                       | <b>13</b>     |
| <b>Total Major Requirements</b>          |                       |               |  |                       | <b>120</b>    |

CSC Electives: CSC 380, CSC 408, CSC 411, CSC 425, CSC 433, CSC 435, CSC 447, CSC 453, CSC 456, CSC 461, CSC 462, CSC 471, CSC 475, CSC 481, CSC 492, CSC 494

CSC Elective for Specialization: CSC 380, CSC 425, CSC 447, CSC 486, CSC 488. Select 4 courses, need 12 credits

STAT Elective for Specialization: STAT 480, STAT 481. Select one course, 3 credits.