

**The University of South Dakota**  
**Major Credit Hour count: 63**  
**Major: Computer Science, B.S. Artificial Intelligence Specialization**

[2021-2022 Academic Catalog]

**First Year - 1st Semester**

CSC 155/155L Computer Science I  
ENGL 101 Composition I  
MATH 123 Calculus I  
CMST 101 Fundamentals of Speech  
First Year Seminar

SGR/Major Requirement	Cr Hrs
Major	4
SGR 1	3
SGR 5 + M	5
SGR 2	3
	1

**Semester Credit Hours: 16**

**Second Year - 1st Semester**

CSC 350 Algorithms & Data Structures  
MATH 216 Discrete Structures  
Advanced Comp  
Natural Science

SGR/Major Requirement	Cr Hrs
Major	4
Major + Minor	3
SGR 1	3
SGR 6	4

**Semester Credit Hours: 14**

**Third Year - 1st Semester**

CSC 456 Operating Systems  
  
CSC 408 Social/Ethical/Legal Aspect  
Science course from list BIOL 151/L, BIOL 153/L, CHEM 112/L, CHEM 114/L, ESCI 101/L, ESCI 103/L, PHYS 211/L, or PHYS 213/L. min 3cr req. toward major, 1 hr towards general electives  
STAT Course (STAT 480 or STAT 481)  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	1
SGR 6 + M	4
Major + Minor	3
	3

**Semester Credit Hours: 14**

**Fourth Year - 1st Semester**

CSC 380 Information Retrieval & Analysis  
Math Elective to Complete Math Composite Minor  
Specialization Course (CSC 425/CSC 447/CSC 486)  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Minor	3
Major	3
	6

**Semester Credit Hours: 15**

**First Year - 2nd Semester**

CSC 255/255L Computer Science I  
ENGL 210 Introduction to Literature  
MATH 125/125L Calculus II  
Social Science

SGR/Major Requirement	Cr Hrs
Major	4
BS	3
Major + Minor	5
SGR 3	3

**Semester Credit Hours: 15**

**Second Year - 2nd Semester**

CSC 324/324L Machine Organization  
Humanities  
Social Science  
Additional Natural Science  
Fine Arts

SGR/Major Requirement	Cr Hrs
Major	4
SGR 4	3
SGR 3	3
BS	3
SGR 4	3

**Semester Credit Hours: 16**

**Third Year - 2nd Semester**

CSC 453 Theory & System Fundamentals  
Specialization Course (CSC 425/CSC 447/CSC 486/CSC 488)  
  
Additional Natural Science  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	6
BS	3
	3
	0

**Semester Credit Hours: 15**

**Fourth Year - 2nd Semester**

CSC 462 Computer Networks & Security  
CSC 480 Capstone: Software Engineering  
Specialization Course (CSC 425/CSC 447/CSC 486)  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	3
Major	3
	6

**Semester Credit Hours: 15**

**Total Major Requirements 120**

Notes:

CSC Electives: CSC 401, CSC 411, CSC 425, CSC 433, CSC 435, CSC 447, CSC 461, CSC 471, CSC 475, CSC 481, CSC 492, CSC 494.  
CSC Electives for AI Specialization: CSC 425, CSC 447, CSC 486, CSC 488.