

**University of South Dakota**  
**Major Credit Hour count: 62**  
**Major: Computer Science, B.S.**

**[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 Experience

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  
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  
Social Science

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

**Semester Credit Hours: 17**

**Third Year - 1st Semester**

CSC 456 Operating Systems  
CSC 408 Social/Ethical/Legal Aspect  
STAT 281 or MATH 481  
Additional Natural Science  
Additional Social Science or Humanities

SGR/Major Requirement	Cr Hrs
Major	3
Major	1
Major + BS	3
BS	3
BS	3

**Semester Credit Hours: 13**

**Fourth Year - 1st Semester**

CSC 380 Information Retrieval & Analysis  
CSC Electives (see list in Notes)  
Math Elective to Complete Math Composite Minor  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	3
BS	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  
Fine Arts

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

**Semester Credit Hours: 15**

**Second Year - 2nd Semester**

CSC 324/324L Machine Organization  
Humanities  
Social Science

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

Natural Science

SGR 6 4

**Semester Credit Hours: 14**

**Third Year - 2nd Semester**

CSC 453 Theory & System Fundamentals  
CSC Electives (see list in Notes)  
Additional Natural Science  
Additional Social Science or Humanities

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

**Semester Credit Hours: 15**

**Fourth Year - 2nd Semester**

CSC 462 Computer Networks & Security  
CSC 480 Capstone: Software Engineering  
CSC Electives (see list in Notes)  
Elective

SGR/Major Requirement	Cr Hrs
Major	3
Major	3
Major	2
	7

**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.