Computer Game Design B.S. Degree
2020-2021 Curriculum Chart

MATH 19A or 20A
Calculus I

MATH 19B or 20B
Calculus II

*CSE 16
Discrete Math

*CSE 20
Beginning Programming
Python

CSE 12/L
Computer Systems & Assembly Language

CSE 13S or
CSE 13E
Computer/Embedded Systems and C Programming

*CSE 101
Algorithms and Abstract Data Types

*CSE 111
Advanced Programming

*CSE 111
Advanced Programming

*CSE 101
Algorithms and Abstract Data Types

Game Design and Development

CMPPM 80K
Foundations of Video Game Design

*CMPPM 176
Game Systems

Games and Playable Media Foundations

ARTG 80H
History of Digital Games

ARTG 80G
Visual Communication and Interaction Design

FILM 80V
Video Games as Visual Culture

CAMPM 120
Game Development Experience

AND

ARTG 120
Game Design Experience

Computer Game Engineering Electives

CGE ELECTIVE

CGE ELECTIVE

CGE ELECTIVE

CGE ELECTIVE

CGE ELECTIVE

Notes:
* Check catalog/SOE course descriptions for additional prerequisites.
♣ Students must complete CMPM 112, ARTG 120 and CSE 111
♦ Students must complete CMPM 170, CMPM 176, and one CGE Elective

- Completion of Game Design Studio courses satisfies the exit requirement.
- Completion of CMPM 170 satisfies the disciplinary communication requirement.

A list of Computer Game Engineering Elective courses can be found on the BSOE undergraduate advising website: https://undergrad.soe.ucsc.edu/computer-science-computer-game-design-2020-2021

http://undergrad.soe.ucsc.edu • bsoeadvising@ucsc.edu • (831) 459-5840 • 10/6/2020
## Computer Game Design B.S. Degree
### 2020-2021 Curriculum Chart

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**Notes:**

- All students admitted to a School of Engineering major, or seeking admission to a major, must take all courses required for that major for a letter grade.
- Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
- The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: [https://undergrad.soe.ucsc.edu/declare-your-major](https://undergrad.soe.ucsc.edu/declare-your-major)
- Shaded boxes represent foundation courses. Major qualification requirements for this major can be found at: [https://undergrad.soe.ucsc.edu/bsoe-major-qualification-requirements](https://undergrad.soe.ucsc.edu/bsoe-major-qualification-requirements)

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**Student Name:**

**Staff Advisor:**

**Faculty Advisor:**