

James Madison University Advising Guide

BRCC Associate of Science Degree and JMU Advising Guide for a major in Computer Science. See Computer Science Advising Notes for more information about math placement and the major.

MTH 263 (Calculus) Start

First Semester (Fall I)

Course #	Course Description	Credits
ENG 111	College Composition I	3
MTH 263	Calculus I	4
SDV 101	Student Development (100 or 101)	1
_____	Lab Science Elective	4
CSC 221	Introduction to Problem Solving and Programming	3

Second Semester (Spring I)

Course #	Course Description	Credits
ENG 112	College Composition II	3
MTH 264	Calculus II (see notes)	4
_____	Lab Science Elective	4
CSC 222	Object Oriented Programming	4

Third Semester (Fall II)

Course #	Course Description	Credits
CSC 215	Computer Systems	3
MTH 245	Statistics I	3
_____	Approved AS Elective (see notes)	3
_____	Social Science Elective	3
_____	Literature/Humanities/Fine Arts Elective	3

Fourth Semester (Spring II)

Course #	Course Description	Credits
CSC 223	Data Structures and Analysis of Algorithms	4
MTH 288	Discrete Mathematics	3
_____	History elective	3
_____	Approved AS Elective	3
_____	Literature Elective	3

Total Credits Required for Associate of Science Degree/JMU Computer Science requirements - 61

Academic Advising Notes for Computer Science

Students seeking academic advising for this major at JMU are encouraged to meet with BRCC Professor Dan OBrien. Office: T122 Email: obriend@brcc.edu Phone: 540-453-2254

Admission to Computer Science

CS is not an open major at JMU. BRCC students' admission status upon transferring is based on the initial course placement at JMU: Students who begin after CS 159 are fully admitted, while students who begin in CS 149 or CS 159 must apply for full admission upon completion of CS 159. Typically, students who complete CSC 221, CSC 222 and CSC 223 with grades of B or better are positioned to bypass CS 159 and enter JMU as fully admitted majors. For complete admission requirements, see [Admission to Computer Science](#).

Mathematics Placement

All students in the AS Science Program complete at least one semester of calculus (MTH 263). Your first step as a science major is to work with Academic Advising to determine your mathematics placement. Placement into mathematics courses is based on multiple measures. Students should work with an advisor to determine which mathematics course is the best entry point to the program. MTH 161, MTH 162, and MTH 263 are all possible entry points, however, direct placement into a course above MTH 161 requires advisor approval.

Approved AS Electives: If you completed MTH 161 and 162 as high school dual enrollment, you have satisfied the AS electives. If not, work with an advisor to identify courses that will meet these requirements.

Students considering a career as a computer scientist with the U.S. government (including DoD, NASA, etc.) must complete more math courses than the minimum requirements for a B.S. degree. Recommended calculus sequences for these students are MATH 235-236 (MTH 263-264 at BRCC). **Please Note:** Students not wishing to take calculus II must take 4 credits of approved AS elective in its place.