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 161 (Precalculus) Start

First Semester (Fall I)

Course #	Course Description	Credits
ENG 111	College Composition I	3
MTH 161	Precalculus I	3
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 162	Precalculus II	3
_____	Lab Science Elective	4
_____	History Elective	3
CSC 222	Object Oriented Programming	4

Third Semester (Fall II)

Course #	Course Description	Credits
MTH 263	Calculus I	4
_____	Literature Elective	3
_____	Social Science Elective	3
MTH 245	Statistics I	3
CSC 215	Computer Systems	3

Fourth Semester (Spring II)

Course #	Course Description	Credits
MTH 288	Discrete Math	3
CSC 223_____	Data Stuctures and Analysis of Algorithms	4
_____	Literature/Humanities/Fine Arts Elective	3
MTH 264	Calculus II (see note)	4

Total Credits Required for Associate of Science Degree/JMU Computer Science requirements with MTH 161 start - 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. Students who complete CSC 221 and CSC 222 with a 3.0 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.

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.