

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
_____	Approved AS Elective	3
_____	Social Science Elective	3
_____	Literature/Humanities/Fine Arts Elective	3
CSC 215	Computer Systems	3

Fourth Semester (Spring II)

Course #	Course Description	Credits
MTH 288	Discrete Math	3
CSC 223_____	Data Structures and Analysis of Algorithms	4
MTH 245	Statistics I	3
_____	Approved AS Elective	3
_____	Literature Elective	3

Total Credits Required for Associate of Science Degree/JMU Computer Science requirements with MTH 161 start - 63

Academic Advising Notes for Computer Science

Students seeking academic advising for this major at JMU are encouraged to meet with BRCC Professor John Maxfield in D124. Email address: MaxfieldJ@brcc.edu; phone: 540-435-2413

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 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. Students may be placed into precalculus using multiple measures, but to place directly into calculus, you must take the Virginia Placement Test for Mathematics. There are separate advising guides for both precalculus and calculus entry points. Students with a developmental math placement must complete MTE 1-9 as a prerequisite to MTH 161 and should plan on entering the pathway after that point.

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).