



UMBC AT



The Universities
AT SHADY GROVE

UNDERGRADUATE PROGRAM PREREQUISITES

COMPUTER SCIENCE

Computer Science I with a grade of B or higher*

Computer Science II with a grade of B or higher*

Discrete Structures with a grade of C or higher*

Calculus and Analytic Geometry I and II with a grade of C or higher*

Natural science including a sequence in Biology, Chemistry, or Physics that must include at least one lab, with a grade of C or higher and no more than one prior attempt**

Introduction to Linear Algebra with a grade of C or higher and no more than one prior attempt**

English Composition**

*Courses marked with an * are required prior to transfer. Computer science students are permitted two attempts in these courses required for the major or courses required to progress in the major. A course in which a student earns a grade of "W" (withdrawal) is counted as an attempt. Please note that you will not be permitted a third attempt in required courses taken at UMBC or another institution.

**Courses marked with ** are strongly recommended prior to transfer.

Computer science students may contact Kim Casimbon at USGadvising@cs.umbc.edu with questions related to prerequisites.

HISTORY

English Composition

Three 100- or 200- level history classes with at least one in U.S.

MECHANICAL ENGINEERING

Principles of Chemistry I with lab*

Principles of Chemistry II with lab*

Calculus and Analytical Geometry I*

Calculus and Analytical Geometry II*

Introduction to Engineering*

Introductory Physics I*

Introductory Physics II*

Multivariable Calculus*

Introduction to Differential Equations*

Statics*

Mechanics of Materials*

Dynamics*

Introduction to Engineering Design with CAD*

Engineering Thermodynamics*

English Composition**

*Courses marked with an * are required prior to transfer. Please be advised that students are admitted to the Mechanical Engineering program only when they pass all four of the gateway courses which include Introduction to Engineering, Statics, Calculus II, and Introduction to Chemistry (Chemistry 101). Introduction to Engineering, Statics, and Calculus II must be completed with a grade of "B" or better. Introduction to Chemistry (Chemistry 101) must be completed with a grade of "C" or better. Students are permitted to re-take two of the gateway courses one time to earn the required grade. Enrolling in a gateway course at UMBC or another institution is considered an attempt. Students are not allowed to take any 300-level or 400-level Mechanical Engineering courses until all prerequisite and gateway requirements are fulfilled. Please also note that all other prerequisite courses required for the major must be earned with a grade of "C" or better and may only be taken twice.

**Courses marked with ** are strongly recommended prior to transfer.

Mechanical Engineering students may contact Kim Casimbon at usgmeadvising@umbc.edu with questions related to prerequisites.



UMBC

AT



The Universities

AT SHADY GROVE

UNDERGRADUATE PROGRAM PREREQUISITES CONTINUED...

POLITICAL SCIENCE

English Composition
American Government
Two 200-level Political Science Courses

PSYCHOLOGY

English Composition
Introduction to Psychology
Statistics

SOCIAL WORK

Minimum GPA 2.5
English Composition
Introduction to Sociology
Introduction to Psychology
Statistics
General or Human Biology (with lab)

TRANSLATIONAL LIFE SCIENCE TECHNOLOGY (TLST)

English Composition
Principles of Biology I & Principles of Biology II
Principles of Chemistry I and Introductory Chemistry Lab
Principles of Chemistry II
Principles of Genetics
Elementary Applied Calculus I or Calculus for Applied Life Science I or Calculus I

If your transfer coursework is coming from a Maryland community college, you may use the Articulation System (ARTSYS) as a guide to see how it may be applied to your degree at UMBC. ARTSYS provides transferability and general education requirement information for students at the initial point of transfer (first degree seeking enrollment at UMBC). For out-of-state and Maryland four-year colleges and universities, you may use the Transfer Evaluation Systems (TES).

Should you have any questions related to our undergraduate program prerequisites, please contact Erin Botker, Coordinator of Undergraduate Recruitment, at 240-665-6459 or erin.botker@umbc.edu.