Computer Science

Computer Science students follow the Business, Science, Technology, Engineering, and Mathematics (BSTEM) placement pathway.

Placements are generally available 2-3 days after students complete their SWC application. An email with your placements should be in your MySWC email. If not, log-in to your MySWC account and then click on this link, My SWC Placements, to see your specific placements.

The course requirements list the classes needed to complete the program of study.

The placement level indicates your starting point in math or quantitative reasoning for your program of study. Students may use a single math course to fulfill General Education math/quantitative reasoning and major requirements, if applicable.

Individual situations and needs are different. SWC STRONGLY recommends speaking with a counselor about your individual circumstances and goals in education planning.

Course Recommendations

General Recommendation for Your Major

Students in your major take:

- MATH 130 Introduction to Computer Programming **and**
- MATH 250 Analytic Geometry and Calculus I

BSTEM 1, 2, 3, and 4 Placement Level Recommendation

Take <u>only one</u> of the following pairings:

- MATH 101* College Algebra **with** MATH 83* (NC 283**) **or/ and**
- MATH 104* Trigonometry **with** MATH 86* (NC 286**) **OR**

The following non-transferable course option also exists:

- MATH 72 Intermediate Algebra I and II (read note below)

NOTE:

Students at this placement level will be able to take MATH 130 Introduction to Computer Programming **after** they pass MATH 72, MATH 101, MATH 104 **or** MATH 250 with a grade of C or better.

MATH 101 College Algebra and MATH 104 Trigonometry are **not** required courses. However, together these two classes teach precalculus skills and concepts that contribute to success in MATH 250 for students who have not studied precalculus.

MATH 72 Intermediate Algebra I and II (STEM/BUS) is not a required course. However, it teaches intermediate algebra skills for STEM and Business majors. Students who pass MATH 72 can go directly into MATH 101 and/or MATH 104 without support or MATH 244 Precalculus to build precalculus skills before taking MATH 250 without support.

BSTEM 5 Placement Level Recommendation

Take either of the following:

- MATH 244 Precalculus **OR**
- MATH 130 Introduction to Computer Programming.

NOTE:

MATH 130 and MATH 244 or MATH 250 with MATH 87 can be taken in different semesters.

MATH 244 Precalculus with Trigonometry is **not** a required course. However, it teaches precalculus skills and concepts that contribute to success in MATH 250 for students who have not studied precalculus.

MATH 101 College Algebra and MATH 104 Trigonometry are **not** required courses. Together MATH 101 and MATH 104 are equivalent to MATH 244 Precalculus. They can be taken in different semesters.

BSTEM 6 and 7 Placement Level Recommendation

Take the following:

- MATH 250 Analytic Geometry and Calculus I **and/or**
- MATH 130 Introduction to Computer Programming

NOTE:

MATH 130 and MATH 250 can be taken in different semesters. MATH 250* with support MATH 87** (NC 287**) provides a concurrent review of Precalculus, Algebra and Trigonometry.

Endnotes

* MATH 81-87 are support courses. Look for paired sections with an S in the schedule, e.g. MATH 110-S01 and MATH 82-S01. Once a student passes a transferable course in the BSTEM pathway, support is not required for future BSTEM courses. Students who pass MATH 101 AND MATH 104 or MATH 244 (with a “C” or better) are eligible to take MATH 250 without the support course.

** Noncredit (NC) MATH co-requisite support courses are equivalent to credit co-requisite support courses. The benefits of the courses include no tuition and not appearing on your credit transcript.