

Science Course Recommendations for Dual Enrollment Students

This document provides general guidance only, and nothing in this document is binding on any University System of Georgia institution or on the University System as a whole.

The University System of Georgia IMPACTS Core Curriculum is 42 semester hours divided into seven domains. Each of these domains has a specific set of career-ready competencies that are emphasized in the domain courses and contain classes that can be applied to any major. However, while any course listed within a domain will meet the requirements of the Core and will transfer to the Core of any institution with the USG, some courses are more appropriate for specific majors. As such, students who have a firm grasp on their intended major should be highly encouraged to take the recommended courses for that degree. Recommendations in science and mathematics are especially important as these disciplines often require sequences of courses. Not taking the recommended courses for a major may result in a student needing additional coursework to meet pre-requisites for a specific degree.

Science courses are specifically listed under the STEM domain of the USG IMPACTS Core as noted below. Some mathematics requirements may be listed under the STEM domain but “first math” courses can be found in the Mathematics domain and math course recommendations are discussed in a separate document.

Domain (Career-Ready Competencies)	Description	Possible Courses	Minimum Semester Hours for all USG institutions	Typical Maximum Semester Hours (may vary)
		<i>While most of the courses in the IMPACTS Core will be 1000/2000 level, some institutions may use 3000/4000 level courses in the core.</i>		
STEM (Inquiry & Analysis, Problem-Solving, Teamwork)	Technology, Mathematics & Sciences 3 courses	At least 4 of these hours must be in a lab science course. All institutions require 3 courses: typically 2 science courses and 1 math or computer science course (or a third science course).	10	12

All USG institutions require three courses in the STEM domain with at least one being a lab science. Typically, the requirement is for two science courses and one course in technology or higher-level mathematics. The choice of appropriate courses in the STEM domain can have important consequences for student progression. This is particularly important for students planning to major in STEM disciplines or Health Professions. Students who take a course in the STEM domain other than the recommended course(s) for their major may later have to take additional courses outside of the Core IMPACTS requirements to meet requirements for their majors.

Students who take 11 or 12 credit hours in this domain may earn extra credit(s) that cannot be counted in the STEM domain. This extra credit(s) may be applied to the Field of Study Pre-requisites or general degree requirements outside of the Core IMPACTS general education domains.

STEM Domain Course Recommendations by Major

Non-STEM	Health Professions, including Nursing	STEM
Students may take any of the science courses offered in this domain. Courses with titles beginning with “General” or “Introductory” are usually intended for non-STEM majors.	Students should take a two-semester laboratory sequence in physics, chemistry, or biology.	Students should take two four-hour laboratory science courses in the STEM domain
Students may take any of the courses approved for the STEM domain at their institutions as their third STEM course.	The appropriate biology courses are Introductory Biology or Principles of Biology	Science courses titled “Principles of ...” are designed for STEM majors.
	The appropriate Chemistry courses are the Survey of Chemistry sequence (CHEM 1151-1152), which is designed for health professions majors, or Principles of Chemistry, which is designed for STEM majors.	STEM students may need a higher-level mathematics (above what was taken for the Mathematics requirement) in this domain.

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