

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 Core Curriculum is 42 semester hours divided into five Areas (A – E) made up of requirements in groups of lower-level courses that are common to pretty much all majors. For students planning to major in STEM fields, however, there are some specific recommendations to keep them on track. Mathematics recommendations are discussed in a separate document. Science and Technology course requirements, which are grouped in Area “D,” are covered in this document.

Area	Name	Notes	Minimum Semester Hours (at any institution)	Maximum Semester Hours (at any institution)
Area D	Natural Sciences, Mathematics, and Technology 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

Area D (science and technology) course recommendations may vary by major. Some Area D courses are designed specifically for science, technology, engineering, mathematics, or nursing majors. Students planning to pursue any of these majors should be careful about the Area D courses they choose. Students planning to major in STEM fields or to pursue a health professions pathway should be aware of the requirements for their pathway and should choose courses listed in the appropriate column (below) for their pathways.

	Students not majoring in science, technology, engineering, mathematics, or health professions	Health Professions majors (including nursing)	Students majoring in science, technology, engineering, or mathematics
Notes:	All institutions require three courses in this area. Typically the requirement is for two science courses, at least one of which must be a laboratory science, and one other course, which can be a higher level mathematics course, a computer or data science course, or a third science course.		
Science courses:	There are no restrictions on what students can take in this area. Students may take courses intended for non-science majors or may take courses intended for science and health professions majors.	Students in the health professions, including nursing, must fulfill the Area D science requirement with a two-semester laboratory sequence in either physics, chemistry, or biology.	Science programs must require two four-hour laboratory science courses in Area D.
		The only biology courses that may be used to fulfill this requirement are Introductory Biology (designed for non-science majors) and Principles of Biology	

		(designed for science majors).	
		The Survey of Chemistry sequence (CHEM 1151 and CHEM 1152) has been designed for the Area D health professions track. Health professions majors have the option of taking the Survey of Chemistry sequence or the sequence appropriate for science majors , but they may not fulfill their Area D requirements with chemistry courses designed for non-science majors.	The Survey of Chemistry sequence may not be used to fulfill the science requirements for science majors not in the health professions.
Biology Courses:	Introductory Biology (no common number) BIOL 1107-1108 or 2107-2108 Principles of Biology I and II Other Biology Courses	Introductory Biology (no common number) BIOL 1107-1108 or 2107-2108 Principles of Biology I and II	BIOL 1107-1108 or 2107-2108 Principles of Biology I and II
Chemistry Courses:	CHEM 1101-1102 Introductory Chemistry I and II CHEM 1151-1152 Survey of Chemistry I and II CHEM 1211-1212 Principles of Chemistry I and II	CHEM 1151-1152 Survey of Chemistry I and II CHEM 1211-1212 Principles of Chemistry I and II	CHEM 1211-1212 Principles of Chemistry I and II
Physics Courses:	PHYS 1111-1112 Introductory Physics I and II or PHYS 1211-1212 or PHYS 2211-2212 Principles of Physics	PHYS 1111-1112 Introductory Physics I and II PHYS 1211-1212 or PHYS 2211-2212 Principles of Physics	PHYS 1111-1112 Introductory Physics I and II (non-calculus-based physics designed for non-science majors; may be allowed for science majors at some institutions) PHYS 1211-1212 or PHYS 2211-2212 Principles of Physics (calculus-based physics for science majors)
Other Science Courses:	Astronomy courses, Geology courses, Physical Science courses	Astronomy courses, Geology courses, Physical Science courses (as third science)	Astronomy courses, Geology courses, Physical Science courses (may be allowed for science majors at some institutions)
Mathematics Courses:	MATH 1401 or STAT 1401 Elementary Statistics MATH 1112 – College Trigonometry MATH 1113 – Precalculus Calculus	MATH 1401 or STAT 1401 Elementary Statistics (or may be taken in Area F) MATH 1112 – College Trigonometry	Science programs may specify a higher level math course in Area D. MATH 1401 or STAT 1401 Elementary (for some majors)

		MATH 1113 – Precalculus Calculus	Calculus (for non-engineering science majors; engineering majors must take calculus in Area A2)
Computer Science Courses:	CSCI 1301-1302 Computer Science I or II or other technology/computer science courses	CSCI 1301-1302 Computer Science I or II or other technology/computer science courses	CSCI 1301-1302 Computer Science I or II
Data Science Courses:	DATA 1501 Introduction to Data Science		

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