

## Overview of the University System of Georgia IMPACTS Core Curriculum

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 as noted below. 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. Not taking the recommended courses for a major may result in a student needing additional coursework to meet pre-requisites for a specific degree.

Domain <i>(Career-Ready Competencies)</i>	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>		
<b>Writing</b> <i>(Critical Thinking, Information Literacy, Persuasion)</i>	Communicating in Writing 2 courses	ENGL 1101, ENGL 1102	6	6
<b>Mathematics</b> <i>(Information Literacy, Inquiry &amp; Analysis, Problem-Solving)</i>	Mathematics and Quantitative Skills 1 course	MATH 1001 Quantitative Reasoning MATH 1101 Introduction to Mathematical Modeling MATH 1111 College Algebra MATH 1112 College Trigonometry MATH 1113 Pre-Calculus MATH 1401/STAT 1401 Elementary Statistics Calculus (no common number)	3	4
<b>Institution</b> <i>(Critical Thinking, Teamwork, &amp; Time Management)</i>	Institutional Priority 1 – 3 courses	Highly variable, includes foreign language courses at some institutions.	3	7
<b>Humanities</b> <i>(Ethical Reasoning, Information Literacy, Intercultural Competence)</i>	Arts, Humanities & Ethics 2 courses	A literature course is required at many institutions. Completion of ENGL 1102 is typically a prerequisite for literature courses. Also in this area, music appreciation, art appreciation, theatre appreciation, philosophy. Foreign language courses are included at many institutions.	6	6
<b>STEM</b> <i>(Inquiry &amp; Analysis, Problem-Solving, Teamwork)</i>	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
<b>Citizenship</b> <i>(Critical Thinking, Intercultural Competence, Persuasion)</i>	Political Science & US History 1 – 2 courses	This area includes courses that meet the “legislative requirement” in US and Georgia Constitution and History. Typically met by taking POLS 1101 and HIST 2111 or 2112 but some schools may meet the legislative requirement with only one course.	3	6
<b>Social Sciences</b> <i>(Intercultural Competence, Perspective-Taking, Persuasion)</i>	Social Sciences 2 courses	Courses offered in this area include anthropology, economics, geography, history, political science, psychology, and sociology.	6	6

**Courses specific to a major or program of study** – This consists of 18 credit hours that are in addition to the IMPACTS Core and prepare a student for required courses in their major. These are the transition courses between the General Education Core and the more direct focus of a student's major.

<b>Field of Study</b>	Field of Study Pre-requisites for the major  Typically 6 courses	Courses required by the degree program and courses that are prerequisites to major courses at higher levels. While most will be 1000/2000 level, some institutions may use 3000/4000 level courses here.	18 semester hours
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### **Choice of Math for the Mathematics Domain**

No USG school can require students to take a particular course from among any of the Mathematics Domain courses. No matter which of these math courses students take, it must count toward satisfying IMPACTS Mathematics Domain requirements and it must count toward graduation. However, students should be ADVISED to take the math course most appropriate for their intended majors. Where MATH 1001 or MATH 1101 is the default recommendation for a particular major, students with strong math interests and abilities may opt to take MATH 1111, but MOST students should be advised to take MATH 1001, MATH 1101, or MATH/STAT 1401. It should also be noted that Math 1111 is designed to prepare students for calculus and it is not the best course for students who will not be taking calculus in their degree programs.

Students wishing to take MATH 1111 must qualify for **placement** in that course based on SAT scores, ACT scores, or Next-Generation Accuplacer Quantitative Reasoning, Algebra, and Statistics test scores. Students seeking placement in MATH 1112, MATH 1113, or calculus as their Mathematics Domain course must meet institutional requirements for course placement, including additional placement testing.

Overall, the choice of an appropriate mathematics course in the Mathematics domain can have important consequences for student progression. This is particularly important for students planning to major in STEM disciplines.

Specific mathematics recommendations for students in various disciplines are listed at [https://www.usg.edu/curriculum/mathematics\\_pathways](https://www.usg.edu/curriculum/mathematics_pathways).

Students who take a course in the Mathematics domain other than the recommended math course for their majors may later have to take an additional mathematics course outside of the Core IMPACTS requirement to meet mathematics requirements for their majors.

#### **STEM majors (other than Engineering)**

Most STEM majors should take Precalculus (MATH 1113) or College Trigonometry (MATH 1112) in the Mathematics domain. (At institutions where College Trigonometry (MATH 1112) serves as the prerequisite to Calculus I, College Trigonometry should be considered equivalent to Precalculus.)

#### **Engineering Majors**

All Engineering majors and students in all programs at the Georgia Institute of Technology should fulfill the Mathematics domain requirement with a calculus course.

#### **Business Majors**

Institutions differ widely in their recommendations for the Mathematics domain requirement for Business Majors. Students should consult the table on First Math Courses for Business Majors at [https://www.usg.edu/curriculum/mathematics\\_pathways](https://www.usg.edu/curriculum/mathematics_pathways)

#### **Other majors**

Students in majors not listed above should consult the Math Pathway recommendations for their majors at: [https://www.usg.edu/curriculum/mathematics\\_pathways](https://www.usg.edu/curriculum/mathematics_pathways)

A compilation of recommended math courses based on major can be found at the Complete College Georgia website - [Math Recommendations for Programs of Study | Complete College Georgia](#) and a summaries are shown below.

### **Start Smart – Choose the Right MATH Pathway!**

		Start here	Start here	Start here	Start here
Math Course	<b>MATH 1001 Quantitative Reasoning OR MATH 1101 Introduction to Mathematical Modeling (OR MATH 1401 Elementary Statistics<sup>1</sup>)</b>		<b>MATH 1111 College Algebra</b>	<b>MATH 1112 College Trigonometry OR MATH 1113 Precalculus</b>	<b>Calculus</b>
<b>What majors start here?</b>	Anthropology Business Administration <sup>2</sup> Communication Criminal Justice <sup>1</sup> Dental Hygiene Digital Media Educator Preparation Birth-to-Five Early Childhood Middle Grades (except Math and Science) P-12 Programs (except Health & Physical Education) Secondary (except Math and Science) English Film/Media Studies Foreign Languages General Studies <sup>1</sup> Health Information Management <sup>3</sup>	History <sup>1</sup> International Studies <sup>1</sup> Journalism/ Mass Communication <sup>1</sup> Music Nursing Occupational Therapy Philosophy <sup>1</sup> Political Science <sup>1</sup> Psychology <sup>1</sup> Public Relations <sup>1</sup> Recreation Respiratory Therapy Social Work <sup>1</sup> Sociology <sup>1</sup> Speech Theatre Visual Arts	Business Administration <sup>2</sup> Exercise and Health Science Exercise Science Geography (B.A.) Health and Physical Education (P-12) Health Information Management <sup>3</sup> Information Science Information Technology Logistics <sup>4</sup> Radiological Sciences	Agricultural Science <sup>5</sup> Architecture Astronomy Biology Chemistry Computer Science Educator Preparation Mathematics (Middle Grades or Secondary) Science (Middle Grades or Secondary) Engineering Technology Environmental Science Forestry Geography (B.S.) Geology Mathematics Pharmacy Physical Therapy Physics	Engineering ALL Georgia Tech students

<sup>1</sup> Students in these majors may take MATH 1001, MATH 1101, or MATH 1401.  
<sup>2</sup> Business Administration recommendations are institution-specific. See the chart below for Business Administration recommendations for each institution.  
<sup>3</sup> Some Health Information Management programs require MATH 1111 College Algebra. Students should check institutional catalogs.  
<sup>4</sup> Some Logistics programs require MATH 1111 College Algebra. Students should check institutional catalogs.

### **Recommended First Math Course for Business Majors**

<b>MATH 1001 Introduction to Mathematical Modeling or MATH 1111 College Algebra</b>	<b>MATH 1111 College Algebra</b>	<b>MATH 1113 Precalculus</b>	<b>MATH 1551* Differential Calculus and MATH 1552* Integral Calculus</b>
<ul style="list-style-type: none"> <li>• Clayton State University</li> <li>• College of Coastal Georgia</li> <li>• Dalton State College</li> <li>• East Georgia State College</li> <li>• Georgia Southwestern State University</li> <li>• Middle Georgia State University</li> </ul>	<ul style="list-style-type: none"> <li>• Albany State University</li> <li>• Atlanta Metropolitan State College</li> <li>• Augusta University</li> <li>• Columbus State University</li> <li>• Fort Valley State University</li> <li>• Georgia College &amp; State University</li> <li>• Georgia Highlands College</li> <li>• Georgia Southern University</li> <li>• Gordon State College</li> <li>• Kennesaw State University</li> <li>• South Georgia State College</li> <li>• Savannah State University</li> <li>• University of North Georgia</li> <li>• University of West Georgia</li> <li>• Valdosta State University</li> </ul>	<ul style="list-style-type: none"> <li>• University of Georgia</li> </ul>	<ul style="list-style-type: none"> <li>• Georgia Institute of Technology</li> </ul>

\* The transfer course number may vary

## **Choice of Science/Technology/Math Courses for the STEM Domain**

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 courses.

### **STEM Domain Course Recommendations by Major**

<b>Non-STEM</b>	<b>Health Professions, including Nursing</b>	<b>STEM</b>
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.

***Updated August 19, 2024***