Mathematics Pathways

From the Board of Regents Academic Advisory Committee Statement on Mathematics Pathways in the University System of Georgia, March 2014:

In an ever increasing data-centered technologically demanding society it is imperative that students at all levels receive appropriate mathematical training. As students enter higher education and begin to determine their career paths, it becomes increasingly important that the mathematics they learn is differentiated according to those choices. In July of 2013, the USG Task Force on the Role of Mathematics in College Completion stated in its report, “System institutions should ensure the alignment of pathways for AREA A Mathematics to programs of study so that students learn the mathematical content necessary for success in their majors.”

The purpose of this document is to describe the gateway paths in mathematics at Augusta University so that informed decisions can be made about major requirements and advisement.

Pathways at Augusta University:

1.) MATH 1111 College Algebra
This course is intended explicitly to develop the algebraic skills needed for success in calculus. In particular, the course is designed to provide those such skills necessary for success in MATH 1113 Precalculus for those science majors who do not qualify for placement into MATH 1113 and therefore need to take MATH 1111 as a prerequisite.

In general, students should not be entered in this pathway unless MATH 1111 is a major program requirement or a prerequisite for a major requirement (either in mathematics or elsewhere). Students who will not need these specific skills in a later course are usually better served in the other pathway. The next step in this pathway is likely MATH 1113 Precalculus, though MATH 1111 also serves as a prerequisite for MATH 2210 Elementary Statistics and other courses.

2.) MATH 1001 Quantitative Reasoning
This course includes the analysis of data-centered problems with the intent of developing appropriate mathematical models and communicating results in a clear and effective fashion. The course places emphasis on decision making in the context of problem-solving. The only next steps in this pathway are MATH 2210 Elementary Statistics or MATH 2008 Foundations of Numbers and Operations.

Suggested Pathway by Major at Augusta University

MATH 1001 Pathway:
Associate of Arts, Core Curriculum
Bachelor of Arts with a Major in Anthropology
Bachelor of Arts with a Major in Art
Bachelor of Arts with a Major in Communications
Bachelor of Arts with a Major in Criminal Justice
Bachelor of Arts with a Major in English
Bachelor of Arts with a Major in History
Bachelor of Arts with a Major in Music
Bachelor of Arts with a Major in Political Science
Bachelor of Arts with a Major in Psychology
Bachelor of Arts with a Major in Sociology
Bachelor of Arts in Foreign Languages
Bachelor of Fine Arts with a Major in Art
Bachelor of Music with a Major in Music Education
Bachelor of Music with a Major in Performance
Bachelor of Science in Education with a Major in Early Childhood Education
Bachelor of Science in Education with a Major in Middle School Education (Social Studies and Language Arts Concentrations)
Bachelor of Science in Education with a Major in Special Education
Bachelor of Social Work

**MATH 1111 Pathway:**
Bachelor of Business Administration with a Major in Accounting
Bachelor of Business Administration with a Major in Finance
Bachelor of Business Administration with a Major in Management
Bachelor of Business Administration with a Major in Management Information Systems
Bachelor of Business Administration with a Major in Marketing
Bachelor of Science in Applied Information Systems & Technologies
Bachelor of Science in Dental Hygiene
Bachelor of Science in Education with a Major in Health and Physical Education
Bachelor of Science in Education with a Major in Middle School Education (Science Concentrations)
Bachelor of Science in Health Information Administration
Bachelor of Science in Kinesiology with a Major in Kinesiology
Bachelor of Science in Nursing
Bachelor of Science in Radiologic Sciences with a Major in Nuclear Medicine Technology
Bachelor of Science in Respiratory Therapy

**MATH 1113 Pathway (w/MATH 1111 possibly needed as a prerequisite):**
Associate of Science, Core Curriculum
Bachelor of Science with a Major in Biology
Bachelor of Science with a Major in Cell and Molecular Biology
Bachelor of Science with a Major in Chemistry
Bachelor of Science with a Major in Computer Science
Bachelor of Science with a Major in Ecology
Bachelor of Science with a Major in Mathematics
Bachelor of Science with a Major in Mathematics/Physics
Bachelor of Science with a Major in Physics
Bachelor of Science in Education with a Major in Middle School Education (Mathematics Concentration)
Bachelor of Science in Clinical Laboratory Science
Bachelor of Science in Radiologic Sciences with a Major in Radiation Therapy Technology