MATHEMATICS

Did you ever stop to think about how a video game works? How about a 3D movie or that new app you just downloaded? Computer programs are based on mathematical formulas and logic that are applied to a particular use. Long after current technology becomes obsolete, the science of math will continue to solve existing problems or discover new concepts. Mathematics is the foundation upon which the other sciences are built so the next time you think of math as just being about algebra and geometry, think again.

Mathematics at King's College

The mathematics department at King's College strives to make its students sophisticated in the way they think and solve problems, both in mathematics and in life. By studying mathematics, students gain a sound background in both pure and applied mathematics while developing a respect for objective reasoning, clear ideas, and precise expression.

Mathematics majors develop their analytical and problem-solving skills to make informed decisions, which can be applied in a variety of fields. Because of the unique flexibility of King's math program, some students select a second major or minor in the sciences and business in order to maximize their future opportunities.

Career Opportunities

"One of the most advantageous components of majoring in mathematics is all of the job possibilities it provides," explains Dr. Daniel J. Ghezzi, chairperson of the mathematics department. "While some of our students seek careers as teachers, worldwide dependence upon predictive modeling and statistical analysis has created numerous exciting career opportunities for math grads." Advanced degrees are recommended for those interested in computer science or engineering but a degree in mathematics can take you to many careers and places, such as:

- computer systems analyst
- actuarial science
- secondary education
- software engineer
- quality control/inventory management
- market research

Job and Graduate School Placement

Many people who have earned a degree in mathematics at King's have flourished in the workforce or graduate school. Here are some examples of where our alumni have found success.

- Ohio State University, postdoctoral researcher in biomathematics
- Boston University, graduate studies in biostatistics
- Villanova University, master's degree in computer science
- Cigna, benefits analyst
- Brigham Young Women's Hospital, data analyst
- Hatboro-Horsham School District, Hatboro, Pa., teacher

To learn more about majoring in Mathematics at King's College, please contact the Office of Admission at 1-888-KINGS PA or admissions@kings.edu.

Mathematics (120 Credit Hours - General Track)

Suggested Sequence

- Use the information below as a guide when selecting courses.
- Consult your Academic Advisor prior to course registration.
- Refer to the King's College Catalog and/or website for course titles and descriptions.
- Choose one course from each CORE category as listed for Mathematics Majors
  - ➢ CORE courses may be taken in any order approved by the academic advisor with the following conditions:
    - CORE 100 and CORE 110 should be taken in the first year.
    - CORE 115 (or 116) should be taken within the first two years.
    - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first semester at King's.

1st Year - Fall	cr.	1st Year - Spring	cr.
MATH 127 Logic & Axiomatics	3	MATH 130 Analytic Geometry & Calculus II	4
MATH 129 Analytic Geometry & Calculus I	4	CS 115 Introduction to Computing or CORE	3
CORE	3	CORE	3
CORE	3	CORE	3
CORE	3	CORE	3
CORE 090 First Year Experience	1		
	17		16
2nd Year – Fall		**2nd Year – Spring**	
MATH 231 Analytic Geometry & Calculus III	4	MATH 250 Linear Algebra	4
MATH 235 Discrete Mathematics	3	CORE	3
CORE	3	CORE	3
Science Group	3	Science Group	3
CS 116 Fund. of Prog. I with CS 116L Lab	3	CS 117 Fund. of Prog. II with CS 117L Lab OR CS 115 Intro to Computing OR CORE	3
	16		16
3rd Year – Fall		**3rd Year – Spring**	
MATH 367 Real Analysis I	3	MATH 490 Junior Seminar	1
MATH Track	3	MATH Track	3
CORE	3	MATH Track	3
CORE	3	CORE	3
Free Elective	3	Free Elective	3
	15		13
4th Year – Fall		**4th Year – Spring**	
MATH 425 Abstract Algebra	3	MATH Track	3
MATH Track	3	MATH Track/Elective	3
CORE	3	Free Elective	3
Free Elective	3	Free Elective	3
Free Elective	3		
	15		12
Total Credits Required for Graduation = 120			

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