## Proposal for a General Education REQUIRED CORE MATHEMATICAL AND QUANTITATIVE REASONING COURSE

Please use one form per course proposal.

Department or Departments: Mathematics

Contact(s):	Christopher Hanusa
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This is a _X_new or ane	existing course. (Please mark with X)
This is aCapstone or	Synthesis course. (Please mark with X)
Course Number: MATH 128 Course Title: Mathematical Design	
Pre-requisites (if any): MATH 115 or the equivalent	
For what majors, if any, does this course satisfy a requirement? None	
With what courses, if any, is this course cross-listed? None	
All Queens College General Education courses must satisfy the following two criteria.	
•	ne (or disciplines) of the course, data and evidence are construed and

knowledge is acquired; that is, how questions are asked and answered.

Students will be solving design problems algorithmically, which involves exploring alternative

approaches, establishing correctness and, when the design does not meet intentionality, discovering remedies.

2. Position the discipline(s) in the liberal arts curriculum and the larger society.

The knowledge of Mathematics is a fundamental component of a liberal education. This course is the intersection of Mathematics, Computing, and Design shows that mathematics is a basis for concepts that are not only the life, social, and natural sciences.