

ROWAN UNIVERSITY
DEPARTMENT OF MATHEMATICS

UNDERGRADUATE MINOR IN MATHEMATICS

The study of Mathematics enables a person to understand the nature and functioning of different mathematical systems and the process of solving problems related to these areas. Moreover, the increasing need for mathematical analysis of modern day problems will provide good employment opportunities for mathematically trained individuals in government and international agencies, education, business, and industry. People trained in mathematics are needed to solve many of the technical problems of the future.

The Minor in Mathematics encourages and facilitates the acquisition of mathematical skills and concepts. It thus provides an added dimension to a student's program. Students wishing to Minor in Mathematics must take 21 semester hours including 15 semester hours in required core courses and 6 semester hours in the approved math electives below. **NOTES: 1) A 2.0 G.P.A. is required in the Minor courses. At least 6 credits must be taken at Rowan University; 2) A number of the elective courses require Discrete Math as a prerequisite. Prerequisite override forms will not be signed without documentation of equivalent subject matter in another course. All courses denoted with an asterisk (*) either have Discrete Math as a prerequisite or have another prerequisite for which DM is a prerequisite.**

In order to Minor in Math you MUST select Track 1 or Track 2.

Track I (Not Engineering)

Required courses (15 semester hours):

MATH01.130 Calculus I
MATH01.131 Calculus II
MATH01.230 Calculus
MATH01.210 Linear Algebra

Track 2 (Engineering)

Required Courses (16 semester hours):

MATH01.130 Calculus I
MATH01.131 Calculus II
MATH01.230 Calculus III
MATH01.235 Math/Eng. Analysis (I)

**Two Courses (at least 6 semester hours)
chosen from:**

MATH01.231 Ord Differential Equations
MATH01.310 College Geometry*
MATH01.330 Intro to Real Analysis I*
MATH01.331 Intro to Real Analysis II*
MATH01.332 Intro to Numerical Analysis
MATH01.340 Modern Algebra I*
MATH01.341 Modern Algebra II*
MATH01.352 Theory of Numbers*
MATH01.354 Topology*
MATH01.386 Intro to Partial Diff Eqns
MATH01.430 Intro to Complex Analysis*
MATH03.400 App of Mathematics
MATH03.411 Det Mods in OR
MATH03.412 Stochastics Mods in OR*
STAT02.320 Concepts in Statistical Data Analysis*
STAT02.360 Prob/Random Variables*
STAT02.361 Mathematical Statistics*

**Two Courses (at least 6 semester hours)
chosen from:**

MATH01.310 College Geometry*
MATH01.330 Intro To Real Analysis I*
MATH01.331 Intro to Real Analysis II*
MATH01.332 Intro to Numerical Analysis
MATH01.340 Modern Algebra I*
MATH01.341 Modern Algebra II*
MATH01.352 Theory of Numbers*
MATH01.354 Topology*
MATH01.386 Intro to Partial Diff Eqns
MATH01.430 Intro to Complex Analysis*
MATH03.400 Apps of Mathematics
MATH03.411 Det Mods in OR
MATH03.412 Stochastics Mods in OR*
STAT02.320 Concepts in Statistical Data Analysis*
STAT02.360 Prob/Random Variables*
STAT02.361 Mathematical Statistics*