

## Kean-Ocean Suggested Curriculum BA Mathematical Sciences

*Courses in Bold are essential for transfer*

### **GENERAL STUDIES – Math Concentration - A.S. Degree Program - Effective Catalog Year 2020-2021**

The Associate in Science (A.S.) degree is designed for students who wish to create an individualized program in a specific academic area. Students may explore career fields while selecting courses that will facilitate their goal of transferring to a four-year college/university or beginning a career. Students must complete the following:

- a. All students must complete STSC 150, Student Success Seminar, during their first year of enrollment.
- b. A minimum of 30 credits from the list of Approved General Education Courses.
- c. At least 18 credits from the academic area of Mathematics to satisfy the Department Concentration.
- d. Additional elective credits to meet the requirements for the degree (minimum of 60 credits).

<b>GENERAL EDUCATION CORE REQUIREMENTS</b>		
<b>COMMUNICATIONS (6 credits)</b>		
ENGL 151	English I	3 cr.
ENGL 152	English II	3 cr.
<b>HUMANITIES (3 credits)</b>		
GHUM	One (1) Humanities course from the list of Approved General Education Courses	3 cr.
<b>SOCIAL SCIENCE (3 credits)</b>		
GSOC	One (1) Social Science course from the list of Approved General Education Courses	3 cr.
<b>ADDITIONAL HUMANITIES OR SOCIAL SCIENCE (3 credits)</b>		
GHUM	One (1) Humanities course from the list of Approved General Education Courses	3 cr.

<b>MATHEMATICS-SCIENCE-TECHNOLOGY (11 credits)</b>		
MATH 191	Pre-Calculus I	3 cr.
GSCL	Any Lab Science course from the List of Approved General Education Courses	4 cr.
<b>CSIT 165</b>	<b>Programming I</b>	4 cr.
<b>ADDITIONAL GENERAL EDUCATION CREDIT (6 credits)</b>		
Literature	Any Literature course from the Humanities Gen Ed list	3 cr
COMM 154	Fundamentals of Public Speaking	3 cr
<b>PROGRAM REQUIREMENT</b>		
STSC 150	Student Success Seminar	2 cr.
<b>DEPARTMENT CONCENTRATION (18-19 cr.)</b>		
<b>MATH 265</b>	<b>Calculus I</b>	4 cr.
<b>MATH 266</b>	<b>Calculus II</b>	4 cr.
<b>MATH 267</b>	<b>Calculus III</b>	4 cr.
<b>MATH 275</b>	<b>Linear Algebra</b>	3 cr.
<b>MATH or PHYS</b>	<b>Any MATH or PHYS course</b>	3-4 cr.
<b>ELECTIVE COURSES (9 cr.)</b>		
GSOC	Social Science from the list of Approved General Education Courses	3 cr.
HIST 181	World Civilization to 1660	3 cr.
MATH 192	Pre-Calculus II	3 cr.
<b>Total: 62 credits</b>		
<b>NOTES</b>		

*	Students may attempt to “test out” of the technology requirement. If they succeed, they must take an additional course(s) in math or science from the List of Approved General Education Courses.
	cr. (credit) = semester credit hour