

KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED and HEALTH SCIENCES (78200) B.A. IN MATHEMATICAL SCIENCES: 124 SEMESTER HOURS (S.H.)



For students graduating from Ocean County College with the A.A. in Liberal Arts or the A.S. General Studies with a Mathematics Concentration and transferring to Kean University

Kean University Courses are in Blue (57 S. H.) Ocean County College Courses are in Green (67 S. H.)

EFFECTIVE DATE: Fall 2016

KEAN DECLARATION AND GRADUATION GPA REQUIREMENT: 2.0

GENERAL EDUCATION REQUIREMENTS: 49 S.H. Foundation Requirements: 13 S.H.			ACADEMIC MAJOR COURSES ¹ : 40 S.H.	
			Required: Foundation Core ¹ : 18 S.H.	
GE 3000 Transfer Transitions		1	MATH 2415 Calculus I MATH 265 Calculus I	4
ENG 1030 English Comp ¹	ENGL 151 English I ¹	3	MATH 2415 Calculus II MATH 266 Calculus II	4
MATH 1054 Precalculus ^{1,2}	MATH 192 Pre-Calculus II ^{1,2}	3	MATH 2995 Matrix & Lin. Algebra MATH 275 Linear Algebra	3
COMM 1402 Speech Comm	COMM 154 Public Speaking	3	MATH 3415 Calculus III MATH 267 Calculus III	4
GE 2024 Research & Technology	ENGL 152 English II	3	MATH 3544 Probability and Math Statistics	3
DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION COURSES			Required: Concentration ¹ : 13 S.H.	
Humanities: 9 S.H.			MATH 2800 Mathematical Software	1
ENG 2403 World Literature	General Education Literature (GHUM)	3	MATH 3110 Introductions to Proofs	3
Select Two courses from below			MATH 3455 Differential Equations MATH 280 Differential Equations	3
Fine Arts or Art History	Select two courses from the OCC GHUM courses, excluding English and History.	3	MATH 3247 Abstract Algebra or MATH 4451 Advanced Calculus	3
Philosophy or Religion			Math 4451 Advanced Calculus	3
Foreign Languages	Note: Credit for a foreign language is granted upon completion of 6 credits of the		Required: Major Electives ¹ : 9 S.H.	
Music or Theatre	same language, with 3 credits used here and 3 credits used in free electives.	3	(With advisement, from the 3000-4000 level)	
Interdisciplinary			MATH 3000-4000 level course	3
			MATH 3000-4000 level course	3
Social Sciences: 9 S.H.			MATH 3000-4000 level course	3
HIST 1000 or HIST 1062	General Education History (GHIS)	3		
Select Two courses from below				
Psychology				
Geography			FREE ELECTIVES: 31 S.H. Additional courses in Computer Science, Physics, or other Sciences,	
Political Science	Select two courses from the OCC GSOC list of approved courses.	3 3	Technology, Economics or Management Science recommended. No	
Sociology or Anthropology			Mathematics courses allowed other than prerequisites for MATH 105	4
Interdisciplinary			(MATH 192 at OCC). At least 50% must be at the 3000/4000 level	
Interdisciplinary			Any Kean University Course	3
Science and Mathematics: 12 S.H			Any Kean University Course	3
CPS 1231 Fund. Comp. Sci.	CSIT 165 Programming I	4	Any Kean University Course	3
Lab Science	Con 100 hogranning f	-	Any Kean University Course	3
PHYS 2091 Gen. Physics I or	PHYS 171 Physics I or PHYS 281		Any Kean University Course	3
PHYS 2095 (recommended)	General Physics I (recommended)	4	Any Kean University Course	1
Second Science Class			Any 3000/4000 level Kean University Course	3
Select a class from Biology,	Select any science class from the OCC		Any 3000/4000 level Kean University Course	3
Physics, Chemistry or Astronomy	GSCL list.	4	Any 3000/4000 level Kean University Course	3
			Any 3000/4000 level Kean University Course	3
Health/Physical Education: 3 S.H.			Any 3000/4000 level Kean University Course	3
ID 1010 or ID 1225	MATH 191 Pre-Calculus I ^{1,2}	3		U
		•	TOTAL CREDITS	24 S.H.
GE and Major Capstone ¹ : 3 S.H.				
MATH 4890 Senior Seminar in Mat	hematics (WE) ^{1,3}	3	² Students whose qualifying score on the placement test makes them	eligible
		-	to take MATH 2415 (MATH 265 at OCC) can start with that course, a	nd will
Additional Required Course: 4 S	.н.		have an additional 3 credits of free electives to total 124 degree cred	
CPS 2231 Comp. Org. & Prog. CSIT 166 Programming II			Students whose qualify score does not make them eligible to take M	
			MATH 192 or MATH 191 will need to take the appropriate pre-requis courses	le
¹ Requires a grade of C or better.			³ WE = Writing Emphasis course.	