

KEAN UNIVERSITY
COLLEGE OF NATURAL, APPLIED AND HEALTH SCIENCES
(78296) B.A. IN MATHEMATICAL SCIENCES (TEACHER CERTIFICATION): 137 S.H.
DUAL CERTIFICATION FOR TEACHERS OF STUDENTS WITH DISABILITIES AND K-12 MATH
EFFECTIVE DATE: Fall 2018 **START TERM: _____**

| | | | |
|--|-----|--|----------|
| NAME | | TRANSFER INSTITUTIONS(X) | Credits: |
| STUDENT ID# | | In Progress | |
| GENERAL EDUCATION: 45-46 Semester Hours (S.H.) | | ACADEMIC MAJOR: 42 Semester Hours (S.H.) | |
| Foundation Requirements¹ 13 S.H. | | ***Foundation Core 18 S.H. | |
| GE 1000 Transition to Kean ² or GE 3000 Transfer Transitions | 1 | MATH 2415 Calculus I | 4 |
| **ENG 1030 College Composition | 3 | MATH 2416 Calculus II | 4 |
| MATH 1054 Precalculus ^{3,4} | 3 | MATH 2995 Matrix and Linear Algebra | 3 |
| **COMM 1402 Speech Communication | 3 | MATH 3415 Calculus III | 4 |
| GE 2024 Research & Technology | 3 | MATH 3544 Probability and Math Statistics | 3 |
| | | ***Concentration 12 S.H. | |
| | | MATH 2526 Applied Statistics I | 3 |
| Disciplinary & Interdisciplinary Distribution Requirements | | MATH 3110 Intro to Proofs | 3 |
| Humanities 9 S.H. | | MATH 3342 Euclidean and Non-Euclidean Geometry | 3 |
| * ENG 2403 World Literature | 3 | MATH 3891 History of Mathematics | 3 |
| <i>Select two courses from different areas:</i> | | | |
| Fine Arts or Art History | 3 | ***Major Electives 9 S.H. (3000-4000 with advisement) | |
| Philosophy or Religion | 3 | MATH | 3 |
| Music or Theatre | 3 | MATH | 3 |
| | | MATH | 3 |
| Social Sciences 9 S.H. | | ***G.E. and Major Capstone 3 S.H. | |
| * HIST 1062 Worlds of History | 3 | MATH 4890 Senior Seminar in Mathematics (WE) | 3 |
| PSY 1000 General Psychology ⁵ | 3 | | |
| SOC 1000 Intro to Soc or ANTH 1800 Cultural Anthropology | 3 | | |
| | | PROFESSIONAL EDUCATION: 33 S.H. (B or BETTER) | |
| Science and Mathematics 11 or 12 S.H. | | <i>Must pass Praxis I and have a GPA of 3.0 before applying for admission to the Middle and Secondary Education (MSE) Department.</i> | |
| CPS 1231 Fund of Computer Science ¹ | 4 | | |
| PHYS 2091 General Physics I or PHYS 2095 Physics I | 4 | Sophomore Level | |
| One course from Biology, Chemistry, Physics, Astronomy, Earth Science, Geology, Meteorology or Interdisciplinary | 3,4 | +EMSE 2801 Introductory Field Exp ** | 3 |
| | | +SPED 2200 Multicult Learner in Diverse Settings ** | 3 |
| Health & Physical Education 3 S.H. | | Junior Level (2nd Semester) | |
| ID 1225 Issues in Contemporary Health | 3 | EDUC 3000 Curriculum Evaluation & Learner | 3 |
| | | +EDUC 3401 Lang/Rdg in Sec Curr. | 3 |
| | | Senior Level (1st Semester) | |
| | | +SPED 3000 Prin & Practice Contemp. Educ. (WE) | 3 |
| ADDITIONAL REQUIRED COURSES: 16 S.H. | | +EMSE 3220 Math Ed in K-12 (WE) | 3 |
| PSY 2110 Psychology of Adolescence ⁵ | 3 | +EMSE 4711 Clinical I Practice/Subj | 3 |
| CPS 2231 Comp Org and Programming | 4 | Senior Level (2nd Semester) | |
| +ID 2052 Human Exceptionality** | 3 | EMSE 4811 Clinical II Practice/Subj | 9 |
| ID 3051 Tech Universal Design | 3 | Prereq: Passing Score on Math Praxis II | |
| ID 3163 Classroom Management | 3 | | |
| | | SPED 4200 Teacher and Classroom | 3 |
| | | FREE ELECTIVES: 0-1 S.H.**** | |
| Special Notes: ¹ See prerequisites and equivalencies. ² University Requirement for Graduation for all undergraduate students that must be satisfied in one of two ways: Complete GE 1000 (all freshmen and transfers entering with 0-29 credits) OR complete GE 3000 (transfers entering with 30 credits or more) ³ Students who do not qualify on the placement test to take MATH 1054 must take MATH 1000 first. ⁴ Students whose qualifying score on the placement test makes them eligible to take Math 2415 may take that course instead. In that case the student must take another 3 credits in free electives to total 137 S.H. ⁵ PSY 1000 is a prerequisite for PSY 2110. | | Special Notes: + Prerequisite: 3.0 Cumulative GPA *G.E. required course; WE: Writing Emphasis ** A grade of B- or higher required. ***All math major courses require a grade of C or better. ****No mathematics courses allowed other than MATH 1000. | |
| | | TOTAL CREDITS: | |
| | | Advisor Signature: | |

