KEAN UNIVERSITY – COLLEGE OF NATURAL, APPLIED AND HEALTH SICENCES (72104) B.S. IN CHEMISTRY (Chemical Instrumentation Option, ACS Certified): 124 S.H. EFFECTIVE DATE: Fall 2014 START TERM:

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|--|-------|--|-----|
| NAME | | TRANSFER INSTITUTIONS (X) Credits: | 1 |
| STUDENT ID# | | In Progress | |
| GENERAL EDUCATION1: 32 Semester Hours (S.H.) | | ACADEMIC Major and Capstone Requirements ³ 60-61 S.H. | |
| Foundation Requirements 13 S.H. | | CHEM 1083 Chemistry I | + |
| GE 1000 Transition to Kean ² | 1 | CHEM 1083 Chemistry II | + |
| ENG 1030 College Composition ³ | • | CHEM 2283 Quantitative Analysis | + |
| | 3 | • | + |
| MATH 1000 Algebra for College Students ⁴ | 3 | CHEM 2491 Inorganic Chemistry | + |
| COMM 1402 Speech Communication | 3 | CHEM 2493 Descriptive Inorganic Chemistry Lab | + |
| GE 2024 Research & Technology | 3 | CHEM 2581 Organic Chemistry I | 4 |
| Distriction of the adjustic linear Distriction Description of | | CHEM 2582 Organic Chemistry II | 4 |
| Disciplinary & Interdisciplinary Distribution Requirements Humanities: 6 S.H. (from different areas) | i | CHEM 2583 Organic Chemistry Lab and Recitation I WE | |
| *ENG 2403 World Literature | 2 | CHEM 2584 Organic Chemistry Lab and Recitation II CHEM 3284 Instrumental Method of Analysis WE | _ |
| | 3 | - | |
| Select one course from below: | 2 | CHEM 3381 Physical Chemistry I | |
| Fine Arts/Art History | 3 | CHEM 3382 Physical Chemistry II | 4 |
| Philosophy or Religion | 3 | CHEM 3383 Physical Chemistry Lab and Recitation I | + |
| Foreign Languages ⁵ (Must take I and II for credit) | 3 | CHEM 3581 Biochemistry | + |
| Music or Theatre | 3 | CHEM 3583 Biochemical Techniques | - |
| Interdisciplinary | 3 | CHEM 3902 Independent Chemistry Research (2 semesters) | + |
| | | Or CHEM 4284 Exp. Analytical Problem Solving | |
| Social Sciences: 6 S.H. (from different areas) | | CHEM 4150 Spectroscopic ID of Organic Compounds | 4 |
| *HIST 1000 Civil Society in America or HIST 1062 Worlds of History | 3 | CHEM 4285 Chemical Separations | 4 |
| | | CHEM 4481 Advanced Inorganic Chemistry | _ |
| Select one course from below: | | | _ |
| Psychology | 3 | G.E. and Major Capstone ³ : | 4 |
| Economics or Geography | 3 | CHEM 4908 Seminar in Chemistry | 4 |
| Political Science | 3 | | 4 |
| Sociology or Anthropology | 3 | FREE ELECTIVES ⁴ : 3-4 S.H. at least 50% must be 3000/4000level | |
| Interdisciplinary | 3 | at least 30 /0 must be 3000/4000level | Ť |
| 1 - 1 | | | |
| Science and Mathematics: 7 S.H. | | | T |
| MATH 1054 Precalculus ⁴ | 3 | | |
| PHYS 2095 Physics I | 4 | | T |
| | | | |
| Additional Required Courses: 28 S.H | 4 | | _ |
| BIO 1300 General Biology I | 4 | | + |
| BIO 1400 General Biology II | 4 | | + |
| MATH 2415 Calculus I | 4 | | + |
| MATH 2416 Calculus II | 4 | | + |
| MATH 3415 Calculus III | 4 | | - |
| PHYS 2096 Physics II | 4 | | + |
| PHYS 2097 Physics III | 4 | | 4 |
| See prerequisites and equivalencies on page 3. Required of all Freshmen and Transfers with fewer than 10 credits. | | Other Transfers | + |
| 3. Eng 1030 College Comp, all Major courses, and the Capstone, require a | | Other Transfer: | + |
| grade of C or better. 4. Students whose qualifying score on the placement test makes them | | Special Notes: | + |
| eligible to take Math 1054 or Math 2415 may take that course instead. In | | * G.E. required course | + |
| that case, Math 1054 or Math 2415 will count as the General Education requirement and the student may take another 3 or 6 credits in Free | | TOTAL OPERITOR | + |
| Electives to total 124 S.H. | | TOTAL CREDITS: | 4 |
| 5. Credit granted upon completion of two semesters of elementary or intermediate foreign language. Three credits can be applied to | | Advisor: | 4 |
| intermediate rereign language. Three credits call be applied to | 1 | Advisor Signature: | - 1 |