

KEAN UNIVERSITY
College of Natural, Applied and Health Sciences
(70401) B.S. in Clinical Laboratory Science/ Joint Program with Rutgers--Medical Laboratory Science 130 S.H.
Effective Date: Fall 2017

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| Name: | | TRANSFER INSTITUTION(S) | |
| Student ID # | | | |
| | | Start term at Kean: | |
| GENERAL EDUCATION: 35 SH | | RUTGERS MEDICAL LAB SCIENCE COURSES | |
| | | 45 SH | |
| Foundation Requirements¹ | 13 SH | MLSC2119 Basic Laboratory Operations | 2 |
| GE 1000 ² or GE 3000 | 1 | MLSC2129 Hematology I | 3 |
| ENG 1030 ³ College Composition | 3 | MLSC2169 Body Fluids | 1 |
| MATH 1054 Precalculus | 3 | MLSC2249 Clinical Chemistry I | 4 |
| COMM 1402 Speech Comm. As Critical Citizenship | 3 | MLSC2159 Clinical Immunology | 2 |
| GE 2024 Research & Technology | 3 | MLSC2239 Immunoematology I | 3 |
| DISCIPLINARY & INTERDISCIPLINARY DISTRIBUTION REQUIREMENTS: | | MLSC4279 Clinical Microbiology | 6 |
| | | MLSC4349 Clinical Chemistry II | 3 |
| Humanities (GEHU) | 6 SH | MLSC4329 Hematology II | 3 |
| ENG 2403 World Literature | 3 | CLSC4310 Lab Statistics, Management & Education | 2 |
| One GE-Approved Humanities Course | 3 | CLSC4319 Introduction to Molecular Diagnostics | 2 |
| Social Sciences (GESS) | 6 SH | MLSC4339 Immunoematology II | 2 |
| HIST 1062 Worlds of History | 3 | MLSC4429 Clinical Practice Hematology & Urinalysis | 2 |
| One GE-Approved Social Science Course | 3 | MLSC4449 Clinical Practice in Chemistry | 2 |
| Science and Mathematics (GESM) | 7 SH | MLSC 4489 Independent Study | 3 |
| MATH 1016 Statistics | 3 | MLSC4390 Topics in Medical Laboratory Science | 1 |
| CHEM 1083 ⁴ General Chemistry I | 4 | MLSC4439 Clinical Practice Immunoematology & Immunology | 2 |
| | | MLSC4479 Clinical Practice in Microbiology | 2 |
| Major/GE Capstone³ | 3 SH | | |
| BIO 4970 Seminar in Integrative Biology | 3 | | |
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| MAJOR REQUIRED COURSES³ | 36 SH | | |
| BIO 1300 ⁵ General Biology I | 4 | | |
| BIO 1400 ⁵ General Biology II | 4 | | |
| BIO 3305 Microbiology | 4 | | |
| BIO 3403 Anatomy and Physiology I | 4 | | |
| BIO 3404 Anatomy and Physiology II | 4 | | |
| BIO 3709 Genetics | 4 | | |
| BIO 4105 Essentials of Biochemistry | 4 | | |
| BIO 4315 Immunology | 4 | | |
| BIO Major Elective @ 3000/4000 level | 4 | | |
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| ADDITIONAL REQUIRED COURSES: | 14 SH | | |
| CHEM 1084 ⁴ General Chemistry II | 4 | | |
| CHEM 2581 ⁴ Organic Chemistry Lecture I | 3 | | |
| CHEM 2583 ⁴ Organic Chemistry Lab I | 2 | | |
| CHEM 2582 Organic Chemistry Lecture II | 3 | | |
| CHEM 2584 Organic Chemistry Lab II | 2 | | |
| | | ADVISOR: | |
| Rev. 03/17 | | ADVISOR'S SIGNATURE: | |

Minimum cumulate GPA of 2.85 at time of application for acceptance as declared major

Minimum cumulative GPA of 2.85 required to apply to Rutgers School of MLS or Senior year clinical preceptorship.

Minimum cumulative GPA of 2.85 required for graduation.

¹See prerequisites & equivalencies

²University 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).

³ENG 1030, Capstone & Major Courses require C or higher

⁴C or higher needed to progress to next course

⁵If enrolled before 9/14, substitute BIO2200/2400

GENERAL EDUCATION INFO & REQUIREMENTS

Testing and Placement: Incoming freshmen and transfer students may be placed in specific GE Foundations, Developmental or ESL courses as a result of testing prior to registration. Students may be exempt from testing due to SAT scores or prior college work.

Prerequisites and Equivalencies for GE----Foundations Courses

ENG 1030 Prerequisite: Placement testing; Equivalent: ENG 1031/32; 1033/34; 1430; ENG 1020; 1400

MATH 1054 Precalculus Prerequisite: 3 years secondary school math including 2 years algebra + 1 year geometry or equivalent & qualifying score on placement exam or equivalent

COMM 1402 Prerequisite: CS 0411 or 0412 if required by testing; ENG1031/32; 1033/34 Maybe taken concurrently w/ENG1030; Equivalent: COMM1400

GE 2021-2024 Research & Technology is offered as college-based course

GE 2021 College of BPA; GE 2022 College of ED; GE 2023 College of AHSS; GE 2024 College of NAHS

Prerequisite: ENG 1030 or equivalent & MATH 1000 or equivalent; Equivalent: GE 2020

Course Paired with Reading Must be taken concurrently with CS 0412 if required by placement testing.

General Education Distribution Courses

All courses under GE Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved GE Distribution Course List. (GEHU Humanities; GESS Social Sciences; GESM Science and Mathematics; GEHPE Health and Physical Education)

Required GE Distribution Courses

ENG 2403 is a required Humanities Distribution course with an emphasis on diversity. Prerequisite: ENG 1030 or equivalent

HIST 1062 is a required Social Sciences Distribution course with an emphasis on diversity.

Major/GE Capstone Course (a Capstone course is a major course that satisfies three credits of GE requirements.)

Each major guide sheet will count three credits for the Capstone as either GE credits or major credits, but not both.

Course Prerequisites (Pre/Corequisites may change, consult Kean Wise; Some course may require approved petitions)

BIO 1300: Math 1000 (College Algebra) or the University's math placement exam score to qualify & Corequisites: MATH 1054 (Precalculus) or instructor permission

BIO 1400: Prerequisite BIO 1300 and Corequisites CHEM 1083 General Chemistry I

BIO 3403: BIO 2400 or BIO 1400 and CHEM 2180 or CHEM 2581

BIO 3404: BIO 3403

BIO 3305: BIO 2400 or BIO 1400

BIO 3709: BIO 2400 or 1400

BIO 4315: BIO 1400 and BIO 3305

BIO 4105: BIO 2400 or BIO 1400 and one semester of organic chemistry

BIO 4970: 20 credits of biology plus senior biology major status (requires approved petition)

CHEM 1083: Prerequisite MATH 1000 (College Algebra); Corequisites MATH 1054 (Precalculus)

CHEM 1084: MATH 1054, & CHEM 1083 with grade of C or better

CHEM 2581: CHEM 1084 with grade of C or better; **CHEM 2583:** Corequisites of CHEM 2581

CHEM 2582: CHEM 2581 with grade of C or better; **CHEM 2584:** Prerequisite of CHEM 2583 grade of C or better & corequisite of CHEM 2582

MATH 1016: MATH 0901 or placement testing