

**KEAN UNIVERSITY**  
**COLLEGE OF NATURAL, APPLIED & HEALTH SCIENCES**  
(70400) BS in Clinical Laboratory Science/Joint Program with UMDNJ Cytotechnology 137 S.H.  
EFFECTIVE DATE: Fall 2012

START TERM: \_\_\_\_\_

NAME		TRANSFER INSTITUTIONS (X) Credits:	
STUDENT ID#		IN PROGRESS:	
<b>GENERAL EDUCATION</b>	<b>35 S.H.</b>	<b>UMDNJ CYTOTECHNOLOGY COURSES</b>	<b>42 S.H.</b>
<b>Foundation Requirements<sup>1</sup> 13 S.H.</b>		CYTO4110 Gynecologic Cytology	4
G.E. 1000 Transition to Kean <sup>2</sup>	1	CYTO4120 Gynecologic Cytology Lab	4
**ENG 1030 Composition	3	CYTO4130 Fine Needle Aspiration Cytology	1
MATH 1000 Algebra for College Students	3	CYTO4169 Clinical Practicum I	2
COMM 1402 Speech Communication	3	CYTO4289 Cytotprep Techniques I	1
GE 2024 Research & Technology	3	CYTO4350 Cytogenetics	1
		CYTO4389 Cytotprep Techniques II	2
<b>Disciplinary &amp; Interdisciplinary Distribution Requirements:</b>		CLSC4319 Introduction to Molecular Diagnostics	2
<b>Humanities: 6 S.H.</b>		CLSC4310 Lab Statistics, Management & Education	2
*ENG 2403 World Literature	3	CYTO4209 Respiratory Cytology <sup>1</sup>	3
(Select one course from below)		CYTO4220 Fine Needle Aspiration Cytology of the Thyroid	2
Fine Arts/Art History	3	CYTO4239 Urinary Cytology	2
Philosophy or Religion	3	CYTO4369 Clinical Practicum II	2
Foreign Languages (Must take I and II for credit) <sup>***</sup>	3	CYTO4370 Independent Study	2
Music or Theatre	3	CYTO4390 Gastrointestinal Cytology	2
Interdisciplinary	3	CYTO4249 Body Fluid Cytology	3
<b>Social Sciences: 6 S.H.</b>		CYTO4469 Clinical Practicum III	7
*HIST 1000 or HIST 1062	3		
PSY 1000 General Psychology	3		
<b>Science and Mathematics: 7 S.H.</b>			
MATH 1054 Pre-Calculus <sup>3</sup>	3		
CHEM 1083 Chemistry I <sup>4,5</sup>	4		
<b>**GE Major Capstone:</b> BIO 4970 Seminar Integrative Biology	3	<b>NOTES:</b>	
		*G.E. required course	
<b>** ACADEMIC MAJOR REQUIREMENTS</b>	<b>41 S.H.</b>	**All Major courses require a grade of C or better	
BIO 2200 Cell Biology	4	**ENG 1030 Composition requires a grade of C or better	
BIO 2400 Genes, Organisms, Populations	4	<sup>1</sup> See prerequisites and equivalencies.	
BIO 3305 Principles of Microbiology	4	<sup>2</sup> Required of all Freshmen and Transfers with less than 10 credits	
BIO 3403 Anatomy and Physiology I <sup>6</sup>	4	<sup>3</sup> A prerequisite for MATH 1054 is MATH 1000 (Algebra for College Students).	
BIO 3404 Anatomy and Phys II <sup>6</sup>	4	<sup>4</sup> A grade of C or better must be earned in CHEM 1083 and CHEM 1084; prerequisites to CHEM 2581	
BIO 3709 Genetics	4	<sup>5</sup> MATH 1054 is a co- or prerequisite for CHEM 1083	
BIO 4105 Essentials of Biochemistry	4	<sup>6</sup> BIO 3433 and BIO 3434 Honors Anatomy & Physiology I & II may be substituted for BIO 3403 & BIO 3404	
BIO 4315 Immunology	4	<sup>7</sup> BIO 3260 is taken either at Kean University or UMDNJ	
BIO Major Elective @ 3000/4000 level	4	A comprehensive exam in Medical Laboratory Science is given at the end of the Program. Achievement of a passing score is a requirement for completion of the Program.	
CHEM 2581 Organic Chemistry Lecture I	3		
CHEM 2583 Organic Chemistry Lab I	2		
<b>ADDITIONAL REQUIRED COURSES</b>	<b>19 S.H.</b>		
CHEM 1084 Chemistry II <sup>4</sup>	4		
CHEM 2582 Organic Chemistry Lecture II	3		
CHEM 2584 Organic Chemistry Lab II	2	<b>Advisor Signature:</b>	
BIO 3260 Introduction to Histology <sup>7</sup>	4	<b>Advisor:</b>	
SOC 1000 Introduction to Sociology	3		
MATH 1016 Statistics	3		

## ADDITIONAL MAJOR INFORMATION AND REQUIREMENTS

### GENERAL EDUCATION INFORMATION AND 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

##### **GE 1000<sup>2</sup>**

Required of all freshmen and transfers with fewer than 10 credits  
Prereq: None  
Equiv: ID 1001

##### **ENG 1030<sup>\*\*</sup>**

Prereq: Placement testing or exemption from placement testing  
Equiv: ENG 1031/1032, ENG 1033/1034, ENG 1430, ENG 1020, ENG 1400

##### **MATH 1000 or 1010 or 1016 or 1030**

Prereq: MATH 0901 if required by placement testing  
Equiv of MATH 1000: MATH 1001/1002, MATH 1003/1004, MATH 1051

##### **MATH 1044 or 1054**

Prereq: MATH 0901 if required by placement testing and MATH 1000

##### **COMM 1402**

Prereq: CS 0412 if required by placement testing  
ENG 1031/1032 or ENG 1033/1034 if required by placement testing  
May be taken concurrently with ENG 1030  
Equiv: COMM 1400

**GE 2021- 2026** *Research and Technology* is offered as college-based course

GE 2021 College of BPA

GE 2022 College of EDU

GE 2023 College of HSS

GE 2024 College of NAHS

GE 2025 College of VPA

GE 2026 Undecided Majors

Prereq: CS 0412 if required by placement testing  
ENG 1030 or equivalent  
COMM 1402

Equiv: GE 2020

#### *GE Distribution Courses*

All courses taken under the General Education Disciplinary/Interdisciplinary Distribution requirements must be selected from the Approved General Education Distribution Course List, printed in Registration Bulletin. These courses are designated as GEHU, GESS, GESM, or GEHPE.

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. Prereq: CS 0412 if required by placement testing; ENG 1030 or equivalent.

**HIST 1000 OR HIST 1062** is a required Social Sciences Distribution course with an emphasis on diversity. Prereq: CS 0412 if required by placement testing; ENG 1031/1032 or ENG 1033/1034 if required by placement testing; May be taken concurrently with ENG 1030.

#### *Foreign Language Credit\*\*\**

The three credits for a foreign language that may satisfy the GE Disciplinary/Interdisciplinary Distribution Requirement are awarded only upon successful completion of the second of two semesters of study at the introductory or intermediate level.

Credit for the first semester may be used as elective credit.

#### **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.

### UNIVERSITY REQUIREMENT

#### **Writing-Emphasis Requirement**

All students are required to complete one "Writing-Emphasis" course. The "W-E" course must be within the major portion of your program. Consult your major program advisor for specific information.

**Evaluator's Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

**Advisor's Signature** \_\_\_\_\_ **Date** \_\_\_\_\_