

3+4 Program: BS Biology IIT/Pharm D LECOM

The affiliation agreement with Lake Erie College of Osteopathic Medicine (LECOM) College of Pharmacy allows for a 3+4 option with the first year course work at LECOM College of Pharmacy back transferring to IIT to complete approved IIT degrees. The Biology department has reviewed curricular options at both the Bradenton and Erie campuses of LECOM and proposes the following allowances for transfer credit.

LECOM College of Pharmacy Requirements are listed in the following table. As part of the affiliation agreement, Communication courses must be taken to fulfill the LECOM English requirement and course work in Economics and Psychology or Sociology are also required. IPRO may be counted for LECOM general education requirements.

MINIMUM UNDERGRADUATE COURSES NEEDED

LECOM Requirement	Semester hours	IIT Equivalent	Semester hours
English	6	Communication (H) (C)	6
Biology with Laboratory	8	Biology 107, 109, 115, 117	8
General Chemistry with Laboratory	8	Chemistry 124, 125	8
Organic Chemistry with Laboratory	8	Chemistry 237, 239, 240	9
Physics	3	Physics 123	4
Calculus	3	Mathematics 151	5
Statistics	3	MATH 425, MATH 474, MATH 476, MATH 374, CHE 426, PSYC 203, BUS221, or BME433	3
Economics	3	ECON 151, ECON 152, or ECON211	3
Psychology or Sociology	3	Psychology or Sociology	3
General Education Requirements	15	HUM 200 (3), SS (3), H/SS (3), IPRO (6)	15

IIT/LECOM Course Replacement Table

IIT Biology		LECOM-Bradenton		LECOM-Erie	
Course	Credits	Course	Credits	Course	Credits
BIOL 4xx Laboratory	3	Pharmaceutics I with Lab	4	Pharmaceutics I & II with Lab	5
BIOL 4xx Laboratory	3	Pharmaceutics II with Lab	4	Research Methods and Epidemiology	2
BIOL 451 Biological Literature	2	Pharmacy, Drugs, and Healthcare	4	Pharmacy, Drugs, and Healthcare	3.5
Free Elective*	1				
BIOL 495 Colloquium	1	Effective Communications	1	Effective Communication in Pharmacy Practice	1.5
BIOL 495 Colloquium	1	Pharmacist Provided Care	2	Pharmacist Provided Care	1.5
BIOL Elective	3	Pharmacy Law	2	Anatomy & Physiology I with Lab	2.5
BIOL Elective	3	Microbiology	4	Anatomy & Physiology II with Lab	2.5
BIOL Elective	3	Biochemistry I	2	Biochemistry I & II	3.5
BIOL Elective	3	Physiology & Anatomy	4	Immunology and Microbiology	4
Total	23		27		26

*Two credits of the Biology program free elective must be Organic Chemistry 2 Lab (CHEM 240); therefore, this substitution is the remaining one credit of free elective.

Sample Schedule

Semester 1	Credits
BIOL 100 Introduction to the Profession	2
BIOL 107 General Biology Lectures	3
BIOL 109 General Biology Laboratory	1
CHEM 124 Principles of Chemistry I	4
MATH 151 Calculus I	5
CS 105 or 110 Computing Principles	2
Total	17

Semester 3	Credits
BIOL 214 Genetics	3
CHEM 237 Organic Chemistry I	4
PHYS 123 General Physics I	4
COM 3xx Communication Elective	3
SS Elective-2xx level	3
Total	17

Semester 5	Credits
BIOL 401 Introductory Biochemistry	3
BIOL 445 Cell Biology Lectures	3
CHEM 247 Analytical Chemistry	3
Economics Elective	3
I PRO	3
Psychology or Sociology 3xx	3
Total	18

Semester 2	Credits
BIOL 115 Human Biology Lectures	3
BIOL 117 Human Biology Laboratory	1
CHEM 125 Principles of Chemistry II	4
MATH 152 Calculus II	5
HUM 2xx Humanities Elective	3
Total	16

Semester 4	Credits
BIOL 210 Microbiology Lectures	3
BIOL 225 Microbiology Laboratory	2
CHEM 239 Organic Chemistry II	3
CHEM 240 Organic Chemistry Lab	2
PHYS 221 General Physics II	4
COM 3xx Communication Elective	3
Total	17

Semester 6	Credits
BIOL 402 Metabolic Biochemistry	3
BIOL 430 Human Physiology	3
MATH 425 Statistics	3
PHYS 224 General Physics III	3
I PRO	3
Social Science Elective 3xx	3
Total	18