

## 3+4 Program: BS Chemistry 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 Chemistry 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 and 109, 115 and 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 Chemistry		LECOM-Bradenton		LECOM-Erie	
Course	Credits	Course	Credits	Course	Credits
BIOL 401	3	Biochemistry I	2	Biochemistry I	2
CHEM 416	3	Pharmaceutics I with Lab	4	Pharmacotherapeutics I Sterile Dosage Forms/Lab	2.5 1.0
CHEM 100	2	Pharmacy, Drugs and Healthcare	4	Pharmacy, Drugs, and Healthcare	3.5
CHEM 434	4	Pharmaceutics II w/ Lab	4	Pharmaceutics I Pharmaceutics II Pharmaceutics II Lab	2.0 2.0 1.0
CHEM 451	3	Drug Information Effective Communications	2 1	Drug Information I Effective Communications	1.5 1.5
Free Elective	1	Pharmacy Law	2	Pharmacist Provided Care	1.5
CHEM Elective	1	Pharmaceutical Calculations	1	Pharmaceutical Calculations	1.5
CHEM Elective	3	Biochemistry II	2	Biochemistry II Biochemistry II	1.5 1.5
CHEM Elective	2	Pharmacist Provided Care	2	Basic Pharmacokinetics	2.5
Free Elective	3	Physiology & Anatomy w/ lab	4	IPPE Community	4
<b>Total</b>	<b>25</b>		<b>28</b>		<b>29.5</b>

## Sample Schedule

<b>Semester 1</b>	<b>Credits</b>
Humanities 2xx	3
BIOL 107 General Biology Lectures	3
BIOL 109 General Biology Laboratory	1
CHEM 124 Principles of Chemistry I	4
MATH 151 Calculus I	5
<b>Total</b>	<b>16</b>

<b>Semester 3</b>	<b>Credits</b>
CS 105 or 110 Intro to Computer Programming	2
CHEM 237 Organic Chemistry I	4
Economics Elective	3
MATH 251 Multivariate and Vector Calculus	4
PHYS 221 General Physics II	4
<b>Total</b>	<b>17</b>

<b>Semester 5</b>	<b>Credits</b>
CHEM 343 Physical Chemistry I	3
CHEM 321 Instrumental Analysis	4
I PRO	3
CHEM 485 Chemistry Colloquium	1
H/SS Elective	3
Social Science Elective 3xx	3
<b>Total</b>	<b>17</b>

<b>Semester 2</b>	<b>Credits</b>
PHYS 123 General Physics 1	4
CHEM 125 Principles of Chemistry II	4
MATH 152 Calculus II	5
BIOL 115 Human Biology	3
BIOL 117 Human Biology Laboratory	1
<b>Total</b>	<b>17</b>

<b>Semester 4</b>	<b>Credits</b>
CHEM 247 Analytical Chemistry	3
MATH 252 Intro to Differential Equations	4
CHEM 239 Organic Chemistry II	3
CHEM 240 Organic Chemistry Lab	2
PSYC or SS 3xx	3
COM Elective 3xx	3
<b>Total</b>	<b>18</b>

<b>Semester 6</b>	<b>Credits</b>
CHEM 344 Physical Chemistry II	4
CHEM 485 Chemistry Colloquium	1
CHEM 415 Inorganic Chemistry	3
COM 3xx	3
I PRO	3
Math 425 Statistics	3
<b>Total</b>	<b>17</b>