

Sample Program for Preoptometry 3+ Dual Degree Biology Major (updated 2025)

Freshman					
Fall			Spring		
Course		Credits	Course		Credits
CHE161	General Chemistry 1	4	CHE162	General Chemistry 2	4
CHE168	General Chemistry Lab 1	1	CHE169	General Chemistry Lab 2	1
MAT221	Calculus 1	4	BIO202	Principles of Biology 2	4
COM101	Introduction to Communication	3	ENG101	Writing & Rhetoric	3
COL101	Intro to College Exp	1	LAS101	Liberal Arts Seminar	1
THE 1xx	General Education	3	XXX	General Education (Fine Arts)	3
		16			16
Sophomore					
Fall			Spring		
BIO201	Principles of Biology 1	4	PHY151	General Physics 1	4
CHE221	Organic Chemistry 1	3	PSY101	Introduction to Psychology	3
THE 2xx	General Education	3	ANT/SOC	ANT 102 or SOC 101	3
HIS	History	3	THE 3xx	General Education	3
	Free Elective	3		Free Elective	3
		16			16
Junior					
Fall			Spring		
PHY152	General Physics 2	4	BIO341	Microbiology	4
DSC 311	Applied Statistics	3	ENG	English Literature	3
BIO380	Ecology	4	BIO 331	Cell Bio (or Genetics or Elective)	3-4
BIO 360	Genetics (or Cell Bio or Elective)	3-4	LAS402	Liberal Arts Capstone	2
PED100	Health & Wellness	1	THE 4xx	General Education	3
		15-16			15-16

Courses required for admission to ICO are highlighted in red.

This assumes reverse transfer of 26 total credits from the ICO Program to fulfill the requirements for a Bachelor of Science degree (120 total credits) with a major in Biology as follows:

ICO Year 1 courses		Credits toward O.D.	WLC reverse transfer course		Credits toward B.S.
Fall	Human anatomy	5	BIO BIO401-2	Elective credits Research Strategies	21
	Human Physiology & Pathology	3			5
	Biochemistry	4			26
Winter	Human Physiology & Pathology II	3			
	Biochemistry II	4			
Spring	Neuroanatomy & Neurophysiology	4			
	Human Physiology & Pathology III	4			
		27			

