

Saint Francis University Education Department  
Paradigm for Catalog Year 2019-2020

## BIOLOGY/SECONDARY/SPECIAL EDUCATION CONCENTRATION

### Suggested Course Sequence – 128 Total Credits Needed for Graduation

FIRST YEAR FALL			CREDITS	FIRST YEAR SPRING			CREDITS
CORE 103	Fall Community Enrichment Series	0		CORE 104	Spring Community Enrichment Series	0	
BIOL 131	Biology Freshman Seminar	0		CORE 113	Gen Ed 1st Year Seminar	3	
BIOL 110	Evolution, Ecol, & Plant Biol.	4		BIOL 111	Molecules, Cells, & Anim. Phys (SCI)	4	
CHEM 121	Chemistry Principles I	4		CHEM 122	Chemistry Principles II	4	
WRIT 102	Research Writing	3		RLST 105	Franciscan Goals for Today	3	
HIST xxx	History Elective	3		EDUC 150	Educational Psychology (SOC SCI 3/3)	3	
PSYC 101	Intro to Psychology (SOC SCI 1/3)	3					
<b>TOTAL</b>		<b>17</b>		<b>TOTAL</b>		<b>17</b>	
SECOND YEAR FALL			CREDITS	SECOND YEAR SPRING			CREDITS
BIOL 105 or BIOL 205	Human Biology Human Anatomy & Physiology I	3-4		BIOL xxx	Cell Biology or Physiology Course Option	4	
CHEM 221	Organic Chemistry I	4		BIOL 203	Ecology	4	
*LIT 104	Intro to Literature (or LIT 201,202,204,207,270)	3		BIOL 231	Biology Sophomore Seminar	0	
EDUC 205	Intro to Special Education	3		MATH 112	Calculus (moved from 3 <sup>rd</sup> yr fall)	3	
EDUC 315	Positive Behavioral Interventions	3		PHIL 205	Reason and Responsibility	3	
				EDUC 240	The Diverse Learner in Sec Settings	3	
<b>TOTAL</b>		<b>16-17</b>		<b>TOTAL</b>		<b>17</b>	
THIRD YEAR FALL			CREDITS	THIRD YEAR SPRING			CREDITS
EXAM 301	Writing Competency Exam (Completing ENGL 199 with a grade of C or better can also satisfy this requirement)	0		EXAM 401	Dept. Comp. Exam	0	
BIOL 301	Genetics (GETM III)	4		BIOL xxx	Biological Diversity Course Option	4	
BIOL 331	Biology Junior Seminar	0		BIOL 402	Evolution	3	
PHYS 104 or PHYS 121	Intro to Physics or Gen. Physics I	4		PHYS 101 or PHYS 102	Physical Sciences or Descriptive Astronomy	3	
Statistics	Statistics Course (see note)	3		BIOL 431	Biology Senior Seminar	1	
EDUC 225	Assistive and Inst Technology	3		EDUC 305	IEP Content and Secondary Transition	3	
EDUC 420	Autism Spectrum Disorders	3		EDUC 429	Middle/Secondary Methods I	3	
<b>TOTAL</b>		<b>17</b>		<b>TOTAL</b>		<b>17</b>	
FOURTH YEAR FALL			CREDITS	FOURTH YEAR SPRING			CREDITS
BIOL 208	Animal Behavior	4		SOSC	SOC SCI Elective (2/3)	3	
FNAR	Fine Art Elective	3		EDUC 261	Linguistic Diversity in the Classroom (Diversity)	3	
EDUC 405 & 405 L	Low Incidence Disabilities and Lab	3		LANG	Foreign Lang. (102 or higher)	3	
EDUC 430	Methods II	3		PHIL 319	Philosophy, Ethics & Education (PHIL requirement)	3	
				EDUC 324	Foundations in Reading	3	
				EDUC 415	High Incidence Disabilities	3	
<b>TOTAL</b>		<b>13</b>		<b>TOTAL</b>		<b>18</b>	
FIFTH YEAR FALL			CREDITS	Six credits of Math and six credits of English are Pennsylvania Department of Education program Requirements  <i>*LIT 104-Completing any of the following 200-level literature courses (LIT 201, 202, 204,207,274, and 270) can also satisfy this requirement. Any course taken for the fulfillment of this general education requirement may not count for the general education outer core or for a course within any major.</i>  <i>***Course sequence may be altered with advisor consent</i>  <i># students may want to take summer courses to lighten the load</i>			
EDUC 451	Student Teaching	12					
CORE 407	Teacher as Reflective Practitioner (for Education Majors)	3					
<b>TOTAL</b>		<b>15</b>					

### **Cell Biology or Physiology Course Options**

BIOL 206 – Human Anatomy & Physiology II, 4 cr

BIOL 214 - Clinical Microbiology, 4 cr

BIOL 320 - General Microbiology, 4 cr

BIOL 401 - Cell and Molecular Biology, 4 cr

BIOL 406 - Vertebrate Physiology, 4 cr

### **Biological Diversity Course Options**

BIOL 204 - Invertebrate Zoology, 4 cr

BIOL 218 - Marine Biology, 4 cr

BIOL 320 - Vertebrate Zoology, 4 cr

BIOL 403 - Advanced Botany, 4 cr

### **Statistics Course Options**

BIOL 315 - Biostatistics, 4 cr

MATH 215 - Introductory Statistics, 3 cr

STAT 205 - Essentials of Statistics, 3 cr