

Academic Program Sequence Map

Program Degree Type and Name: B.S Biology, Biomedical Sciences Track Catalog Year: 2022-2023

Program Level: Undergraduate Academic Term Type: Semester

<b>* Denote core course with an asterisk and (cc) next to the course number</b>									
<b>Year and Term: Year 1 Fall Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
Math 116: College Algebra (if needed)	3	x							
ENGL 111: Written Engl and Lit Studies	3	x							
COMM 110: Oral communication	3	x							
BIOL 105: Pathways	3	x							
CINQ 101: Critical Inquiry	3	x							
<b>Term Credit Total:</b>	<b>15</b>	<b>15</b>							
<b>Year and Term: Year 2 Fall Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
CHEM 161: General Chem II	3	x			Pre: CHEM 160/160A; Co: CHEM 161A/160R				
CHEM 161A: General Chem II Lab	1	x			Pre: CHEM 160/160A; Co: CHEM 161				
BIOL 161: General Bio II	3	x			Pre: BIOL 160/160A; Co: BIOL 161A				
BIOL 161A: General Bio II Lab	1	x			Pre: BIOL 160/160A; Co: BIOL 161				
PSYN 101: Intro to Psychology	3	x							
MATH 260: Calculus I	4		x		Pre: MATH 201				
<b>Term Credit Total:</b>	<b>15</b>	<b>11</b>	<b>4</b>						
<b>Year and Term: Year 3 Fall Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	SM	Co / Prerequisite(s)				
BIOL 360: Genetics	4		X		Pre: BIOL 161/161A; CHEM 161/161A; BIOL 275 or BIOL 265/265A				
CHEM 261: Organic Chem II	3		X		Pre: CHEM 260/260A; Co: CHEM 261A/261R				
CHEM 261: Organic Chem II Lab	1		X		Pre: CHEM 260/260A; Co: CHEM 261				
JRSM 301: Junior Seminar	3	X							
PHYS 180: PHYS for Biol. Sci	4		x		Pre or Co: MATH 260				
<b>Term credit total:</b>	<b>15</b>	<b>3</b>	<b>12</b>						
<b>Year and Term: Year 4 Fall Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
BIOL 355: Molecular Biology of the Cell *(cc)	4		X		Pre: BIOL 360; CHEM 160/160A; CHEM 161/161A				
BIOL 370	3		X						
Gen Ed	6	X							
Open Elective	3			X					
<b>Term Credit Total:</b>	<b>16</b>	<b>3</b>	<b>9</b>	<b>3</b>					
<b>Year and Term: Year 1 Spring Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
CHEM 160: General Chemistry I	3	X			Pre: MATH 116; Co: CHEM 160A/160R				
CHEM 160A: General Chemistry I Lab	1	x			Pre: MATH 116; Co: CHEM 160				
CHEM 160R: General Chem I Recitation	0				Co: CHEM 160				
BIOL 160: General Bio I	3	x			Pre: MATH 116; Co: BIOL 160A/160R				
BIOL 160A: General Bio I Lab	1		x		Pre: MATH 116; Co: BIOL 160				
MATH 201: Precalculus	3	x							
ENGL 112: Written Engl and Lit Studies II	3	x							
<b>Term Credit Total:</b>	<b>14</b>	<b>13</b>	<b>1</b>						
<b>Year and Term: Year 2 Spring Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
BIOL 275: Cell Biology	4		x		Pre: BIOL 160/160A; 161/161A; CHEM 160/160A; Pre or Co: CHEM 161, 161A ( can be taken prior to or same semester as if necessary)				
CHEM 260: Organic Chem I	3		x		Pre: CHEM 160/160A; 161/161A; Co: CHEM 260A/260R				
CHEM 260A: Organic Chem I Lab	1		x		Pre: CHEM 160/160A; 161/161A; Co: CHEM 260				
CISC 120: Introduction to Computers	3	x							
PSYN 370: Stats for Social and Behavioral	3		x		Pre: PSYN 101				
Major Elective 1 (eg. HLSC 201)	2		x						
<b>Term Credit Total:</b>	<b>16</b>	<b>3</b>	<b>13</b>						
<b>Year and Term: Year 3 Spring Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
CHEM 354: Biochemistry	4		X		Pre: BIOL 160/160A; 161/161A; CHEM 160/160A; 161/161A; 260/260A; 261/261A.				
Open Elective	3			X					
Gen Ed	3	X			Pre: ENGL 112				
PHYS 181: PHYS for Biol. Sci	4		x		Pre: MATH 260				
<b>Term Credit Total:</b>	<b>14</b>	<b>3</b>	<b>8</b>	<b>3</b>					
<b>Year and Term: Year 4 Spring Term</b>		<b>Credits Per Classification</b>							
Course Number & Title	CR	GE	Maj	OE	Co / Prerequisite(s)				
Gen Ed	6	X							
BIOL 460: Coordinating Seminar	3		X		15 upper level BIO &/or CHEM credits				
BIOL 309	3		X		Pre: BIOL 160/A, BIOL 161/A; CHEM 160/160A; CHEM 161/161A				
Major Elective 2	3		X						
<b>Term Credit Total:</b>	<b>15</b>	<b>6</b>	<b>9</b>						
<b>Program Totals</b>		<b>Credits: 120</b>		<b>General Education: 60</b>		<b>Major &amp; Major Elective: 54</b>		<b>Open Elective: 6</b>	

Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequisites for noted course (CC): indicates core course