

4 and 5 year graduation plans for the Department of Biology

Four-year Graduation Plans

Students who cannot carry a 15- to 17-unit load each semester must plan on more than four years to complete the Biology major. This plan assumes that students are eligible to take ENG/CHS/PAS 155, CHEM 101, and MATH 255A without preparatory courses (e.g., CHEM 105, MATH 105). If such courses are needed, additional semesters will be required to complete the major.

Five-year Graduation Plans

This plan is designed for students who can only take a 12- to 14-unit load per semester. This plan assumes that the student is eligible to take ENG/CHS/PAS 155, CHEM 101, and MATH 105 without preparatory courses

Very few real students would actually follow these plans. Transfer students, of course, would have many GE classes; they would take more exclusively classes for Biology majors, and they should be apprised that these classes often take more time (labs and field studies) than lecture classes. Many first-time freshman have deficiencies that they need to make up, and they would have to put off many required courses. Finally, students who change their major to Biology would have a concentration of Biology courses late in their programs. A very large proportion of students fall into these categories.

5-Year Graduation Plan for B.A. in Biology																					
		Biology						GE				Biology						GE			
		Core		Elect		UD		GE				Core		Elect		UD		GE			
Yr	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max	Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max			
1	Biol 106/L	4	4							Biol 107/L	4	4									
	Chem 101/L	5	5							Chem 102/L	5	5									
	Engl 155							3	3	Coms 151								3	3		
	Semester total 12	9	9	0		0		3	3	Semester total 12	9	9	0		0		3	3			

	Cumulative	12	9	9	0		0		3	3	Cumulative	24	18	18	0		0		6	6
2	Fall - Semester 3										Spring - Semester 4									
	Biol 322		3	3							Biol 360		3	3						
	Chem 333/L/R		4	5							Chem 334/L/R		4	5						
	Math 105 or 255A***		3	5					3	5	Math 255A*** or GE				0	3			0	3
											Kin								1	1
	Semester total 10-13		10	13	0		0		3	5	Semester total 11-12		7	8	0	3	0		1	4
	Cumulative 34-37		28	31	0		0		9	11	Cumulative 45-49		35	39	0	3	0		10	15
3	Fall - Semester 5										Spring - Semester 6									
	Biol 380		3	3							Biol Sel Prog 1**				3	4	0	4		
	Biol Sel Prog 3*				3	4	3	4			Phys 100A/L		4	4						
	Phil 210								3	3	GE								3	3
	Title V (3)										Title V (3)									
	Semester total 12-13		3	3	3	4	3	4	3	3	Semester total 13-14		4	4	3	4	0	4	3	3
	Cumulative 57-62		38	42	3	7	3	4	13	18	Cumulative 70-76		42	46	6	11	3	8	16	21
4	Fall - Semester 7										Spring - Semester 8									
	Biol Sel Prog 2*				3	4	3	4			Biol Sel Prog 1**				3	4	3	4		
	Phys 100B/L		4	4							UD GE****								3	3
	GE								6	6	LD GE								6	6
	Semester total 13-14		4	4	3	4	3	4	6	6	Semester total 12-13		0	0	3	4	3	4	9	9
	Cumulative 83-90		46	50	9	15	6	12	22	27	Cumulative 95-103		43	50	12	19	9	16	31	36

5	Fall - Semester 9									Spring - Semester 10									
	Biol Elect Sel Prog 4			3	6	3	6			Biol Elect Sel Prog 4			3	6	3	6			
	UD GE****							3	6	UD GE****								3	6
	LD GE							3	6	LD GE								3	3
	General Elect (0-4)									General Elect (0-4)									
										for 120 total									
	Semester total 12	0	0	3	6	3	6	3-6		Semester total 11-12	0	0	3	6	3	6	3	9	
	Cumulative 107-115	43	50	15	25	12	22	34	37	Cumulative 120-127	43	50	20***	31	15	28	43	51	
<p>* At least 1 course must have a field study.</p> <p>** At least 1 course must have a lab with L designation; at least 1 course must be 400 or above.</p> <p>*** Minimum of 20. At least 17 units must be upper division. Math 255 is optional; it is included both in Biol Electives and in GE.</p> <p>**** Total of 9 units of UD GE.</p>																			
<p>This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.</p>																			

4-Year Graduation Plan for B.A. in Biology																			
Yr		Biology						GE	sum		Biology						GE	sum	
		Core		Selective		UD		GE			Core		Selective		UD		GE		
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max
1	Biol 106/L		4							4	Biol 107/L		4						4
	Chem 101/L		5							5	Chem 102/L		5						5
	Engl 155								3	3	Coms 151							3	3
	Phys 100A/L		4							4	Phys 100B/L		4						4

	Semester total		13		0		0		3	16	Semester total		13		0		0		3	16
	Cumulative		13		0		0		3	16	Cumulative		26		0		0		6	32
2	Fall - Semester 3										Spring - Semester 4									
	Biol 360		3				3			3	Biol 380		3				3			3
	Chem 333/L/R	4	5				5			5	Chem 334/L/R	4	5				5			5
	Biol 322		3							3	Phil 210								3	3
	Math 105 or 255A	3	5						3	3	LD GE								3	3
	Semester total		16		0		8		3	14	Semester total		8		0		8		6	14
	Cumulative		42		0		8		9	46	Cumulative		50		0		16		15	60
3	Fall - Semester 5										Spring - Semester 6									
	Systematics Selective	3	4				3			4	1st Mole/Cell/Phys	3	4	3	4		4			4
	LD GE						9	9		9	LD GE								6	6
											Kin								1	1
	Title V 3 units									3	Title V 3 units									3
	Semester total		4		0		3		9	16	Semester total		4		4		4		7	14
	Cumulative		54		0		19		24	76	Cumulative		58		4		23		31	90
4	Fall - Semester 7										Spring - Semester 8									
	2nd Mole/Cell/Phys	3	4	3	4		4			4	Ecology Selective	3	4	3	4		4			4
	additional units elective									3	Biology elective			3	4		4			4
	LD GE								3	3	UD GE****						3		3	3
	UD GE****						6	6		6	additional units elective									3
	Semester total		4		4		10		9	16	Semester total		4		8		11		3	14
	Cumulative		62		8		33		40	106	Cumulative		66		16		44		43	120

28-32 units (8 courses) of cell & molecular classes (C&M) distributed in the selective program across 6 lists.
 Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.

5-Year Graduation Plan for B.S. in Biology: Cell & Molecular Biol																				
Yr		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
		Min	Max	Min	Max	Min	Max	Min	Max			Min	Max	Min	Max	Min	Max	Min	Max	
1	Fall - Semester 1										Spring - Semester 2									
	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5
	Engl 155								3	3	Math 105								5	5
	Semester total		9		0		0		3	12	Semester total		9		0		0		5	14
	Cumulative		9		0		0		3	12	Cumulative		18		0		0		8	26
2	Fall - Semester 3										Spring - Semester 4									
	Biol 360		3				3			3	Biol 380/L		4				4			4
	Chem 333/L/R	4	5				5			5	Chem 334/L/R	4	5				5			5
	Math 255A		3							3	Phil 210								3	3
	Coms 151								3	3	Kin								1	1
	Semester total		11		0		8		3	14	Semester total		9		0		9		4	13
	Cumulative		29		0		8		11	40	Cumulative		38		0		17		15	53

3	Fall - Semester 5									Spring - Semester 6									
	Biol 322		3			3			3	2nd C&M class*			3	4		4			4
	Phys 100A/L		4						4	Phys 100B/L		4							4
	1st C&M class*			3	4		4		4	LD GE								3	3
	Title V 3 units								3	Title V 3 units									3
	Semester total		7		4		7		0 14	Semester total		4		4		4		3	14
	Cumulative		45		4		24		15 67	Cumulative		49		8		28		18	81
4	Fall - Semester 7									Spring - Semester 8									
	3rd C&M class*			3	4		4		4	5th C&M class*			3	4		4			4
	4th C&M class*			3	4		4		4	6th C&M class*			3	4		4			4
	LD GE							6	6	LD GE								3	3
										UD GE****						3		3	3
	Semester total		0		8		8		6 14	Semester total		0		8		11		6	14
	Cumulative		49		16		36		24 95	Cumulative		49		24		47		30	109
5	Fall - Semester 9									Spring - Semester 10									
	7th C&M class			3	4		4		4	8th C&M class			3	4		4			4
	UD GE****						3		3	UD GE****						3		3	3
	LD GE							6	6	LD GE								3	3
	Semester total		0		4		7		9 13	Semester total		0		4		7		6	10
	Cumulative		49		28		54		39 122	Cumulative		49		32		61		45	132
28-32 units (8 courses) of cell & molecular classes (C&M) distributed in the selective program across 6 lists.																			
Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.																			

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.

4-Year Graduation Plan for B.S. in Biology: Cell & Molecular Biol

Yr		Biology						GE		sum		Biology						GE		sum	
		Core		Selective		UD		GE				Core		Selective		UD		GE			
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max		
1	Biol 106/L		4							4	Biol 107/L		4							4	
	Chem 101/L		5							5	Chem 102/L		5							5	
	Engl 155							3	3	3	Coms 151							3	3	3	
	Phys 100A/L		4						4	4	Phys 100B/L		4							4	
	Semester total		13		0		0		3	16	Semester total	14		13		0		0		3	16
	Cumulative		13		0		0		3	16	Cumulative	26		26		0		0		6	32
2	Fall - Semester 3										Spring - Semester 4										
	Biol 360		3				3		3	3	Biol 380/L		4				4			4	
	Chem 333/L/R	4	5				5		5	5	Chem 334/L/R	4	5				5			5	
	Math 255A		3						3	3	Phil 210								3	3	
	LD GE							3	3	3	Title V 3 units									3	
	Title V 3 units								3	3	Kin								1	1	
	Semester total		11		0		8		3	17	Semester total		9		0		9		4	16	
	Cumulative		37		0		8		9	49	Cumulative		46		0		17		13	65	
3	Fall - Semester 5										Spring - Semester 6										
	Biol 322		3				3		3	3	3rd C&M class*			3	4		4			4	

	LD GE							6	6	4th C&M class*			3	4		4			3	
	1st C&M class*		3	4		4			4	LD GE									6	6
	2nd C&M class*		3	4					3											
	Semester total		3	8		7		6	16	Semester total		0	8	8		6			13	
	Cumulative		49	8		24		19	81	Cumulative		49	16	32		25			94	
4	Fall - Semester 7									Spring - Semester 8										
	5th C&M class*		3	4		4			4	7th C&M class		3	4	4					4	
	6th C&M class*		3	4		4			4	8th C&M class		3	4	4					4	
	LD GE							6	6	additional units									3	
	UD GE****					3		3	3	UD GE****					6	6			6	
	Semester total		0	8		11		9	17	Semester total		0	8	14		6			17	
	Cumulative		49	24		43		34	111	Cumulative		49	32	57		40			128	

28-32 units (8 courses) of cell & molecular classes (C&M) distributed in the selective program across 6 lists.

Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 255A.

5-Year Graduation Plan for B.S. in Biology: Environmental Biol

		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
Yr	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4

	Chem 101/L		5					5	Chem 102/L		5						5
	Engl 155						3	3	Math 105							5	5
	Semester total		9	0	0		3	12	Semester total		9	0	0		5	14	
	Cumulative		9	0	0		3	12	Cumulative		18	0	0		8	26	
2	Fall - Semester 3								Spring - Semester 4								
	Biol 322		3				3	3	Biol 360		3			3		3	
	Chem 235		4					4	Biol 330/L		4			4		4	
	Math 255A		3					3	1st Botany or Zoology*				4	4		4	
	Coms 151						3	3	Kin							1	1
	Semester total		10	0	3		3	13	Semester total		7	4		11		1	12
	Cumulative		28	0	3		11	39	Cumulative		35	4		14		12	51
3	Fall - Semester 5								Spring - Semester 6								
	Biol 380		3				3	3	1st Ecology**				4	4		4	
	Phys 100A		3					3	Phys 100B		3					3	
	Phil 210						3	3	LD GE							3	3
	Title V 3 units							3	Title V 3 units								3
	Semester total		6	0	3		3	12	Semester total		3	4		4		3	13
	Cumulative		41	4	17		15	63	Cumulative		44	8		21		18	76
4	Fall - Semester 7								Spring - Semester 8								
	2nd Botany or Zoology*			4	4			4	3rd Ecology**				4	4			4
	2nd Ecology**			4	4			4	3rd Botany or Zoology*				4	4			4
	LD GE						6	6	LD GE							3	3
									UD GE****					3		3	3

	Semester total		0		8		8		6	14	Semester total		0		8		11		6	14	
	Cumulative		44		16		29		24	90	Cumulative		44		24		40		30	104	
5	Fall - Semester 9										Spring - Semester 10										
	Env Biol Selective				4		4			4	Env Biol Selective				4		4			4	
	UD GE****						3		3	3	UD GE****						3		3	3	
	LD GE								6	6	LD GE								3	3	
											General elective									1	
	Semester total		0		4		7		9	13	Semester total		0		4		7		6	11	
	Cumulative		44		28		47		39	117	Cumulative		44		32		54		45	128	
* Students must take 3 classes in botany and zoology, at least one on animals and at least one on plants																					
** Students must take 3 ecology classes																					
*** Students must take 32 units of environmental biology selective courses																					
**** Total of 9 units of UD GE.																					
This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.																					

4-Year Graduation Plan for B.S. in Biology: Environmental Biol

		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
Yr	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5
	Engl 155								3	3	Coms 151								3	3
	Math 255A		3							3	Phil 210								3	3

	Semester total		12	0	0	3	15	Semester total		9	0	0	6	15
	Cumulative		12	0	0	3	15	Cumulative		21	0	0	9	30
2	Fall - Semester 3							Spring - Semester 4						
	Biol 322		3		3		3	Biol 360		3		3		3
	Chem 235		4				4	Biol 330/L		4		4		4
	LD GE					6	6	1st Botany or Zoology*			4	4		4
	Biol 380		3		3		3	Kin					1	1
	Semester total		10	0	6	6	16	Semester total		7	4	11	1	12
	Cumulative		31	0	6	15	46	Cumulative		38	4	17	16	58
3	Fall - Semester 5							Spring - Semester 6						
	2nd Botany or Zoology*			4	4		4	1st Ecology**			4	4		4
	3rd Botany or Zoology*			4	4		4	2nd Ecology**			4	4		4
	Phys 100A		3				3	Phys 100B		3				3
	LD GE					3	3	LD GE					3	3
	Title V 3 units						3	Title V 3 units						3
	Semester total		3	8	8	3	17	Semester total		3	8	8	3	17
	Cumulative		41	12	25	19	75	Cumulative		44	20	33	22	92
4	Fall - Semester 7							Spring - Semester 8						
	Env Biol Selective			4	4		4	3rd Ecology**			4	4		4
	Env Biol Selective			4	4		4	general electives						6
	LD GE					6	6	LD GE					3	3
	UD GE****				6	6	6	UD GE****				3	3	3
	Semester total		0	8	14	12	20	Semester total		0	4	7	6	16
	Cumulative		44	28	47	34	112	Cumulative		44	32	54	40	128

* Students must take 3 classes in botany and zoology, at least one on animals and at least one on plants
** Students must take 3 ecology classes
*** Students must take 32 units of environmental biology selective courses
**** Total of 9 units of UD GE.
This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 255A.

5-Year Graduation Plan for B.S. in Biology: Microbiology

Yr		Biology						GE		sum		Biology					
		Core		Selective		UD		GE				Core		Selective		UD	
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max
1	Biol 106/L		4							4	Biol 107/L		4				
	Chem 101/L		5							5	Chem 102/L		5				
	Engl 155								3	3	Math 105						
	Semester total		9		0		0		3	12	Semester total		9		0		0
	Cumulative		9		0		0		3	12	Cumulative		18		0		0
2	Fall - Semester 3										Spring - Semester 4						
	Biol 360		3				3			3	Biol 380/L		4				4
	Chem 333/L/R	4	5				5			5	Chem 334/L/R	4	5				5
	Math 255A		3							3	Phil 210						
	Coms 151								3	3	Kin						
	Semester total		11		0		8		3	14	Semester total		9		0		9
	Cumulative		29		0		8		11	40	Cumulative		38		0		17

3	Fall - Semester 5									Spring - Semester 6					
	Biol 322	3			3				3	Required Microbiol*			4		4
	Phys 100A/L	4							3	Phys 100B/L	4				
	Biol 315/L*			4					3	LD GE					
	Title V 3 units								3	Title V 3 units					
	Semester total	7		4	0	3	0	0	12	Semester total		4		4	4
	Cumulative	45		4	0	20	0	15	65	Cumulative		49		8	24
4	Fall - Semester 7									Spring - Semester 8					
	Required Microbiol*			4		4			4	Required Microbiol*			4		4
	1st C&M selective**		3	4	3	4			4	2nd C&M selective**		3	4	3	4
	LD GE							6	6	LD GE					
										UD GE****					3
	Semester total	0		8		8		6	14	Semester total		0		8	11
	Cumulative	49		16		32		24	92	Cumulative		49		24	43
5	Fall - Semester 9									Spring - Semester 10					
	3rd C&M selective**		3	4	3	4			4	4th C&M selective**		3	4	3	4
	UD GE****					3		3	3	UD GE****					3
	LD GE							6	6	LD GE					
	Semester total	0		4		7		9	13	Semester total		0		4	7
	Cumulative	49		28		50		39	119	Cumulative		49		32	57

*Students must take 4 required courses beyond the standard physics and chemistry, plus **they must take 4 selective cell and molecular (C&M) courses. Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed, but it all adds up to the same number of units.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 1

4-Year Graduation Plan for B.S. in Biology: Microbiology

Yr		Biology						GE		sum		Biology					
		Core		Selective		UD		GE				Core		Selective		UD	
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max
1	Biol 106/L		4							4	Biol 107/L		4				
	Chem 101/L		5							5	Chem 102/L		5				
	Engl 155								3	3	Coms 151						
	Math 255A		3							3	LD GE						
	Semester total		12		0		0		3	15	Semester total		9		0		0
	Cumulative		12		0		0		3	15	Cumulative		21		0		0
2	Fall - Semester 3										Spring - Semester 4						
	Biol 360		3				3			3	Biol 380/L		4				4
	Chem 333/L/R	4	5				5			5	Chem 334/L/R	4	5				5
	Phys 100A/L		4							3	Phys 100B/L		4				
											LD GE						
	Phil 210								3	4	Kin						
	Semester total		12		0		8		3	15	Semester total		13		0		9
	Cumulative		33		0		8		12	45	Cumulative		46		0		17
3	Fall - Semester 5										Spring - Semester 6						

	Biol 322		3				3			3	Required Microbiol*				4		4
	1st C&M selective**			3	4	3	4			4	Required Microbiol*				4		4
	Biol 315/L*				4					3	LD GE						
	LD GE								3	3	general electives						
	Title V 3 units									3	Title V 3 units						
	Semester total		3		8	3	7	0	3	16	Semester total		0		8		8
	Cumulative		49		8	3	24	0	19	76	Cumulative		49		16		32
4	Fall - Semester 7										Spring - Semester 8						
	UD GE****						3		3	3	3rd C&M selective**			3	4	3	4
	Required Microbiol*				4		4			4	4th C&M selective**			3	4	3	4
	LD GE								6	6	LD GE						
	3rd C&M selective**			3	4	3	4			4	UD GE****						6
	Semester total		0		8		11		9	17	Semester total		0		8		14
	Cumulative		49		24		43		31	111	Cumulative		49		32		57

*Students must take 4 required courses beyond the standard physics and chemistry, plus **they must take 4 selective cell and molecular (C&M). Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed, but it all adds up to the same number of units.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 25.

5-Year Graduation Plan for B.S. in Biology: Biotechnology

	Biology			GE	sum		Biology			GE	sum
	Core	Selective	UD	GE			Core	Selective	UD	GE	

Yr	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5
	Engl 155								3	3	Math 105								5	5
	Semester total		9		0		0		3	12	Semester total		9		0		0		5	14
	Cumulative		9		0		0		3	12	Cumulative		18		0		0		8	26
2	Fall - Semester 3										Spring - Semester 4									
	Biol 360		3				3			3	Biol 380/L		4			4				3
	Chem 333/L/R	4	5				5			5	Chem 334/L/R	4	5			5				5
	Math 255A		3							3	Phil 210								3	3
	Coms 151								3	3	Kin								1	1
	Semester total		11		0		8		3	14	Semester total		9		0		9		4	12
	Cumulative		29		0		8		11	40	Cumulative		38		0		17		15	52
3	Fall - Semester 5										Spring - Semester 6									
	Biol 322		3				3			3	Biol 470				3		3			3
	Phys 100A/L		4							4	Phys 100B/L		4							3
	Biol 315/L				4					4	LD GE								3	3
	Title V 3 units									3	Title V 3 units									3
	Semester total		7		4		3		0	14	Semester total		4		3		3		3	12
	Cumulative		45		4		20		15	66	Cumulative		49		7		23		18	78
4	Fall - Semester 7										Spring - Semester 8									
	Biochem			4	4	4	4			4	1st C&M selective*		3	4		3				4
	Biol 572/L			4	4	4	4			4	Biol 577/L		4	4	4	4				4

	LD GE							6	6	LD GE							3	3
										UD GE****						3	3	3
	Semester total	0	8	8	6	14				Semester total	0	8	10	6	14			
	Cumulative	49	15	31	24	92				Cumulative	49	23	41	30	106			
5	Fall - Semester 9									Spring - Semester 10								
	2nd C&M selective*		3	4	3	4			4	LD GE							3	4
	UD GE****					3		3	3	UD GE****			3				3	3
	LD GE							6	6	general electives								2
	Semester total	0	4	7	9	13				Semester total	0	0	3	6	9			
	Cumulative	49	27	48	39	119				Cumulative	49	27	51	45	128			

*Students need to take 6-8 units (2 classes) in cell and molecular selective courses

Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.

5-Year Graduation Plan for B.S. in Biology: Medical technology

Yr		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5

	Engl 155						3	3	Math 105								5	5
	Semester total		9		0		3	12	Semester total		9		0		0		5	14
	Cumulative		9		0		3	12	Cumulative		18		0		0		8	26
2	Fall - Semester 3								Spring - Semester 4									
	Biol 360		3			3		3	Biol 380/L		4			4				3
	Chem 333/L/R	4	5			5		5	Chem 334/L/R	4	5			5				5
	Math 255A		3					3	Phil 210								3	3
	Coms 151						3	3	Kin								1	1
	Semester total		11		0	8	3	14	Semester total		9		0	9			4	12
	Cumulative		29		0	8	11	40	Cumulative		38		0	17			15	52
3	Fall - Semester 5								Spring - Semester 6									
	Biol 322		3			3		3	Biol 410/L***		4			4				4
	Phys 100A/L		4					4	Phys 100B/L		4							4
	Biol 315/L				4			4	LD GE								3	3
	Title V 3 units							3	Title V 3 units									3
	Semester total		7		4	3	0	14	Semester total		8		0	4			3	14
	Cumulative		45		4	20	15	66	Cumulative		53		4	24			18	80
4	Fall - Semester 7								Spring - Semester 8									
	Biol 435/L***		4			4		4	Biol 485/L***		4			4				4
	Chem 321/L		4			4		4	Chem 464		4			4				4
	LD GE						6	6	LD GE								3	3
									UD GE****					3			3	3
	Semester total		8		0	8	6	14	Semester total		8		0	11			6	14

	Cumulative		61		4		32		24	94	Cumulative		69		4		43		30	108
5	Fall - Semester 9										Spring - Semester 10									
	Biol 487/L***		4				4			4	LD GE								3	3
	UD GE****						3		3	3	UD GE****						3		3	3
	LD GE								6	6	general electives									1
	Semester total		4		0		7		9	13	Semester total		0		0		3		6	7
	Cumulative		73		4		50		39	121	Cumulative		73		4		53		45	128

*Students need to take 17-12 units (usually 5 classes) in biotech or medtech depending on their track

Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.

*** sequence of these 4 courses must be adjusted according to availability

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.

5-Year Graduation Plan for B.S. in Biology: Marine Biology

Yr		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5
	Engl 155								3	3	Math 105								5	5
	Semester total		9		0		0		3	12	Semester total		9		0		0		5	14

	Cumulative		9		0		0		3	12	Cumulative		18		0		0		8	26
2	Fall - Semester 3										Spring - Semester 4									
	Biol 322		3				3			3	Phil 210								3	3
	Chem 235		4							4	Biol 330/L		4				4			4
	Math 255A		3							3	Biol 421		4				4			4
	Coms 151								3	3	Kin								1	1
	Semester total		10		0		3		3	13	Semester total		8		0		8		4	12
	Cumulative		28		0		3		11	39	Cumulative		36		0		11		15	51
3	Fall - Semester 5										Spring - Semester 6									
	Biol 380		3				3			3	1st Marine Biol*				4		4			4
	Phys 100A/L		4							4	Phys 100B/L		4							4
	Biol 360		3				3			3	LD GE								3	3
	Title V 3 units									3	Title V 3 units									3
	Semester total		7		0		3		0	13	Semester total		4		4		4		3	14
	Cumulative		43		0		14		15	64	Cumulative		47		4		18		18	78
4	Fall - Semester 7										Spring - Semester 8									
	2rd Marine Biol*				4		4			4	3rd Marine Biol*				4		4			4
	1st Env Biol selective**				4		4			4	2nd Env Biol selective**				4					4
	LD GE								6	6	LD GE								3	3
											UD GE****						3		3	3
	Semester total		0		8		8		6	14	Semester total		0		8		7		6	14
	Cumulative		47		12		26		24	92	Cumulative		47		20		33		30	106
5	Fall - Semester 9										Spring - Semester 10									

3rd Env Biol selective**			4		4		4	4th Env Biol selective**			3	4	3	4		4			
UD GE****					3		3	UD GE****						3		3			
LD GE							6	LD GE							3	3			
Semester total		0		4		7		9	13	Semester total		0		4		7		6	10
Cumulative		47		24		40		39	119	Cumulative		47		28		47		45	129
* Students must take 3 classes in marine biology in the strict sense																			
** Students must take 15 additional units in environmental biology selective courses																			
Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.																			
**** Total of 9 units of UD GE.																			
This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 105.																			

5-Year Graduation Plan for B.S. in Biology: Marine Biology																				
Yr		Biology						GE		sum		Biology						GE		sum
		Core		Selective		UD		GE				Core		Selective		UD		GE		
	Fall - Semester 1	Min	Max	Min	Max	Min	Max	Min	Max		Spring - Semester 2	Min	Max	Min	Max	Min	Max	Min	Max	
1	Biol 106/L		4							4	Biol 107/L		4							4
	Chem 101/L		5							5	Chem 102/L		5							5
	Engl 155								3	3	LD GE								3	3
	Math 255A		3							3	Coms 151								3	3
	Semester total		12		0		0		3	15	Semester total		9		0		0		6	15
	Cumulative		12		0		0		3	15	Cumulative		21		0		0		9	30
2	Fall - Semester 3										Spring - Semester 4									

	Biol 322	3			3			3	Phil 210							3	3
	Chem 235	4						4	Biol 330/L		4			4			4
	LD GE						3	3	Biol 421		4			4			4
	Kin							1	Title V 3 units								3
	Title V 3 units							3	Kin							1	1
	Semester total	7	0		3		3	14	Semester total		8	0		8		4	15
	Cumulative	28	0		3		12	44	Cumulative		36	0		11		16	59
3	Fall - Semester 5								Spring - Semester 6								
	Biol 380	3			3			3	2rd Marine Biol*			4		4			4
	Phys 100A/L	4						4	3rd Marine Biol*			4		4			4
	Biol 360	3			3			3	Phys 100B/L		4						4
	1st Marine Biol*			4	4			4	general electives								3
	LD GE						3	3	LD GE							3	3
	Semester total	7	4		7		3	17	Semester total		4	8		8		3	18
	Cumulative	43	4		18		19	76	Cumulative		47	12		26		22	94
4	Fall - Semester 7								Spring - Semester 8								
	1st Env Biol selective**			4	4			4	3rd Env Biol selective**			4					4
	2nd Env Biol selective**			4	4			4	4th Env Biol selective**		3	4	3	4			4
	LD GE						6	6	LD GE							3	3
	UD GE****				3		3	3	UD GE****					6		6	6
	Semester total	0	8		11		9	17	Semester total		0	8		10		9	17
	Cumulative	47	20		37		31	111	Cumulative		47	28		47		40	128
* Students must take 3 classes in marine biology in the strict sense																	
** Students must take 15 additional units in environmental biology selective courses																	

Some of these classes are 3 units, so any one semester a student might have one unit fewer than listed.

**** Total of 9 units of UD GE.

This plan assumes scores on the EPT, ELM, and Chemistry Placement Test that qualify for Engl 155, Chem 101/L, and Math 255A.