B.S. in Bioinformatics -- Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

		Quarter Courses	Semester Course Equivalencies (Course is the same as the quarter course. This can be 1:1; Inanay; many; or many;many courses. Anywhere (for any program) which the quarter course was required or listed, this (these) semester course(s) can be used. This information will also be displayed in the course conversion guide. Repeat rules apply.)	Acceptable Semester Course Substitutions (Course is NOT the same as the semester course, but it is acceptable for this particular program requirement area for all students. This information WILL NOT be displayed in the course conversion guide, but will be reflected on the PAWS as choice for the students.	Acceptable Semester Course Repeats (If there is no semester course equivalency, this is the atternative course to allow for grade forgiveness/grade discounting.)	Quarter Units (Current number of units which are required for each requirement area.)	Semester Units (Number of semester units which will be required for each requirement area.)	Notes
DINE					•			
BINF		BIOL 200	DIOI 2010			E	E	
		BIOL 200 BIOL 201	BIOL 2010 BIOL 2010			5	5	
		BIOL 202 CHEM 215	BIOL 2020 CHEM 2100 + CHEM 2100L			5	5	
		CHEM 215 CHEM 216	CHEM 2100 + CHEM 2100L CHEM 2200 + CHEM 2200L			6	5	
		CHEM 221A	CHEM #OrganicChemistryLecture			3	3	
	Required courses	CHEM 222A	CHEM #OrganicChemistryLecture			3	,	
		CHEM 223A	CHEM #OrganicChemistryLecture			3		
Lower Division Requirements		CSE 122	CSE 1220			2	3	not required in Semster System
		CSE 201	CSE 1220 CSE 2010			4	4	not required in Senister System
		CSE 202	CSE 2010			4	-	
		MATH 211	Math 2210			4	4	
		MATH 212	Math #Calculus II	Math #AppliedLinearAlgebra		4	4	
		MATH 262	CSE #262	Width Wydphedelifedrydgebid		4	3	
		MATH 272	CSE 2071			4	3	
		PHIL 191	PHIL #191			4		not required in Semester
		BIOL 300	BIOL #Molecular Lecture			5	4	
	Required courses	BIOL 400	BIOL #Molecular Lecture			5		
		BIOL 423	_					
		BIOL 424						
	A minimum of 5 units chosen	BIOL 431	BIOL 4000-level			5	5	and annies of the Community
	from	BIOL 440	BIOL 4000-level			5	,	not regired in Semester
		BIOL 450						
		BIOL 455						
Upper Division Requirements		CHEM 436A	CHEM #BioChemistry Lecture			4	3	
TPP Pision requirements		CHEM 436B	CHEM #BioChemistry Lecture			1		
		CSE 330	CSE 2020			4	4	
		CSE 431	CSE 4310			4	3	
	Required courses	CSE 500	CSE 5000			4	0	not required in Semster System
	nequired courses	CSE 535	CSE 5350			4	3	
		CSE 550	CSE 5500			4	3	
		CSE 516 or CSE 551	CSE 5160 or CSE 5510			4	3	

B.S. in Biology -- Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

			•						
		Quarter Courses	Semester Course Equivalencies [Course is the same as the quarter course. This can be £1½; Iranany, many½; or many;many courses. Anywhere (for any program) which the quarter course was required or listed, this (theel) semester course() can be used. This information will not be displayed in the course coversion guide. Repeat rules apply.)	Acceptable Semester Course Substitutions (Course is NOT the same as the semester course, but it is acceptable for this particular program requirement area for all students. This information WILL NOT be displayed in the course conversion guide, but will be reflected on the PAWS as a thoice for the student Repeat rules DO NOT apply.)	Acceptable Semester Course Repeats (if there is no semester course equivalency, this is the alternative course to allow for grade forgiveness/grade discounting.)	Quarter U (Current nu units which required for requiremen	imber of are r each	Semester Units (Number of semester units which will be required for each requirement area.)	Notes
BIOL-BS									
		BIOL 200	BIOL 2010				5	5	
		BIOL 201	BIOL 2010 & BIOL 2020				5		
Lower Division Requirements	Required courses	BIOL 202	BIOL 2020				5	5	
		CHEM 215	CHEM 2100 & CHEM 2100L				5	5	
		CHEM 216	CHEM 2200 & CHEM 2200L				5	5	
		CHEM 221A	CHEM 2400						
		CHEM 221B	CHEM 2400L						
		CHEM 222A	CHEM 2400 & CHEM 2500						
Ones le Shamleton (a milalanna 112	Group A	CHEM 222B	CHEM 2400L & CHEM 2500L						
Organic Chemistry (a minimum of 12		CHEM 223A	CHEM 2500			12	-15	8-10	
units chosen from Group A or Group B)		CHEM 223B	CHEM 2500L						
	Group B	CHEM 321	CHEM 3400						
		CHEM 322	CHEM 3400 & CHEM3500						
		CHEM 323	CHEM 3500						
Mathematics		MATH 192	MATH 1601					3-4	
Mathematics	One course chosen from	MATH 211	MATH 2210				1	3-4	
	Group A	PHYS 121	PHYS 2000 & 2000L						
		PHYS 122	PHYS 2000 & 2000L & PHYS 2010 & 2010L						
Physics (a minimum of 13 units chosen		PHYS 123	PHYS 2010 & 2010L			13-15		9-10	
from Group A or Group B)	Group B	PHYS 221	PHYS 2500 & 2500L						
		PHYS 222	PHYS 2500 & 2500L & PHYS 2510 & 2510L						
		PHYS 223	PHYS 2510 & 2510L						
		BIOL 300	BIOL 3100				5	4	
		BIOL 400	BIOL 3120				5	4	
Upper Division Requirements	Required courses	BIOL 423	BIOL 3300					4	
		BIOL 450 or BIOL 455	BIOL 3800				5	4	
		BIOL 591	BIOL 5000				1	1	
		BIOL 319	BIOL 3520						Groupings of courses and number of units
	Group A	BIOL 354	BIOL 53540						in each will be transformed for semesters
		BIOL 354 BIOL 431	BIOL 4510						
A minimum of 31 units of upper division		BIOL 320	BIOL 3200						
		BIOL 320	BIOL 3410						
		BIOL 335	BIOL 3410 BIOL 3460						
		BIOL 335 BIOL 340	BIOL 3460 BIOL 3400						
biology courses (excluding BIOL 301,			BIOL 3400 BIOL 3420	1		31		20	
BIOL 304, BIOL 305, BIOL 306, BIOL 314, BIOL 349, and BIOL 503) with at least one course from each of Groups A and B		BIOL 342		1				30	
	Group B	BIOL 420	BIOL 4200	1					
		BIOL 424	BIOL 3630 & BIOL 3640						4 + 4 = 8 total for 2 sem courses- must take both
		BIOL 440	BIOL 4400	-					
		BIOL 516	BIOL 5160						
		BIOL 517	BIOL 5170	1					
		BIOL 524	BIOL 5420	4					
		BIOL 573	BIOL 5370						
	May count as 5 of the 31 units in	CHEM 436A	CHEM 4100						

B.A. in Biology -- Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

December								1	
Courter No. Pick can be \$12, 12, 12, 12, 12, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14				Semester Course Equivalencies	Acceptable Semester		l		
Courter No. Pick can be \$12, 12, 12, 12, 12, 12, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14				(Course is the same as the quarter	Course Substitutions		1		
Comparison Com									
Appropries (for any program publish the quarter course are registed or life, part color or gram registered miss or the part color or gram registered miss or the part color or gram registered miss or the color conversion galds. The last for the part color or gram registered miss or the color conversion galds. The last for the part color or gram registered miss or the color conversion galds. The last for the part color or gram registered miss or the color conversion galds. The last for the part color or gram registered miss or the color conversion galds. The last for the part color or gram registered miss of the color conversion galds. The last for the part color or gram registered miss of the color conversion galds. The last for the part color or gram registered miss of the color conversion galds. The last for the part color or gram registered miss of the color conversion galds. The last for the part color or gram registered miss of the color or gram registered miss of the color color color or gram registered miss of the color co									
Second Committee Committee Commi							1		
Comparison of the subset of									
Mountain Committed March									
Application Company					for all students. This				
District Countries				used. This information will also be	information WILL NOT be				
District Chemistry (a minimum of 3 units chosen from droup A or Group I)				displayed in the course conversion	displayed in the course				
Compared Color to PANNS as a choice for the PANNS as a choice for the pannet rouse generative course (Pannet Course)						Accentable Semester			
Courter Courses Courter Courter Courses Courter Courter Course									
Course Delivery							L		
Authorities Page									
Counter Courses Biox. 2010					Repeat rules DO NOT apply.)				
No. Page P						alternative course to allow for	units which are	units which will be	
BIOL BA BIOL 2016 BIOL 2						grade forgiveness/grade	required for each	required for each	
BIOL BA BIOL 2016 BIOL 2			Quarter Courses					requirement area.)	Notes
December			quarter courses		l			,,	Notes
December									
May	BIOL-BA								
May			BIOL 200	BIOL 2010			5	5	
May							5		
CHEAD 25	Lower Division Requirements	Required courses					5	5	
ORIGN 215 ORIGN 210 ORIGN 2100 ORIGN 210 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 210 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 210 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 210 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 2100 ORIGN 210 ORIGN 2100 ORIGN 210									
OFFICE Company Committy (a minimum of 9 units on Company C			CHEM 216				6	5	
Order Chemistry (a minimum of 9 units Chemistry (a minimum of 13 units chosen from Group A or Group B) Chemistry (a minimum of 13 units chosen from Chemistry (a minimum of 14 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of 15 units of upper division Chemistry (a minimum of									
CHM 2234		Group A							
Ashbematics One course choicen from Marth 1922									
Comp B Column 322	chosen from Group A or Group B)						9-15	8-10	
OFFICE Control Contr		Group B			+				
Anthematics One course chosen from MATH 192 MATH 1921 MA			CHEM 322						
Marketenbus Over Conser (mm) MATH 211 MATH 2210 PMS 1231 PMS 2008 20000. PMS 122 PMS 1230 PMS 2008 20000. PMS 122 PMS 1230 PMS 2000 8 20000. PMS 122 PMS 1200 8 20000. PMS 122 PMS 12000. PMS 12000. PMS 12000. PMS 12000.									
hysics (a minimum of 33 units chosen for Group A PMS 121 PMS 2000 8, 2000. PMS 122 PMS 2000 8, 2000. PMS 123 PMS 2010 8, 2010. PMS 213 PMS 2100 8, 2010. PMS 210	Mathematics	One course chosen from					4	3-4	
Ambinimum of 13 units chose from Group A or Group B) March 13 15 13 15 13 15 13 15 March 13 15 13 15 13 15 March 13 15									
hysics (a minimum of 13 units chosen from Group A or Group B) Print 123		C 4					4		
Prior Group A or Group B) Prior Size		Group A							
Price Pric							13-15	9-10	
Phys 223 Phys 2510 Physion Requirements Page Biol 300 Biol 3100 5 4		Grove B							
Sequired courses Sequired co		Group B							
## Paper Division Regularements Paquired courses									
Big									
80.4 50 or 810.4 555 80.3 800 5 4 4									
80.0 591 80.0 5000 1 1 1 1 1 1 1 1 1	Upper Division Requirements	Required courses							
BIOL 319 BIOL 3520									
Group A 800.354 800.45350 800.4350							1	1	
800, 431 800, 4510 801, 3200 801, 3200 801, 3200 801, 3200 801, 331 801, 3410 801, 3									
Minimum of 15 units of upper division (100 un		Group A		BIOL 53540					
Minimum of 15 units of upper division biology course (excluding BIOL 301, 100, 308, 10			BIOL 431	BIOL 4510					
Minimum of 15 units of upper division biology course (excluding BIOL 301, 100, 304, 100, 305, 100, 304, 100, 305, 100, 304, 100, 305, 100, 304, 100, 305, 100, 304, 100, 305, 100, 304, 100, 304, 100, 305, 100, 304, 10			BIOL 320	BIOL 3200					
Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of 16 units of upper division in loign course (seekuling 810.3 a) Minimum of upper division in loign course (seekuling 810.3 a) Minimum of upper division in loign course (seekuling 810.3 a) Minimum of upper division in loign course (seekuling 810.3 a) Minimum of upper division in									
100,349,010,359,101,351,101,359,101,351,101,359,101,351,351,351,351,351,351,351,351,351,35	A minimum of 16 units of upper division								
100. 304, and BIOL 503, BIOL 306, BIOL 306, BIOL 306, BIOL 304, BIOL 305, BIOL 306, BIOL 305, BIOL 306, BIOL 305, BIOL 306, BIOL 305, BIOL 306, BI					1		16	30	
100, 349, and 8100, 593) with a test me course from each of Groups A and B 100, 420							10	30	
BOL 424 BOL 3500 & BIOL 3540 BIOL 4440 BIOL 4500 & BIOL 3500 & BIOL 3540 BIOL 4440 BIOL 5150 & BIOL 5150 BIOL 51									
800.440 804.4400 805.156 805.1560 805.1570 806.1		Group B							
BIOL 516 BIOL 5160 BIOL 5170 BIOL 5170 BIOL 524 BIOL 5420 BIOL 5420	one course from each of Groups A and B								4 + 4 = 8 total for 2 sem courses- must take both
800, 517 800, 5170 800, 5124 800, 5120									
BIOL 524 BIOL 5420									
			BIOL 524	BIOL 5420		·			
BIOL 573 BIOL 5370									
Total 90-98 87-91									

B.S. in Biology and Doctor of Osteopathic Medicine Articulation Program – Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

		Quarter Courses	Semester Course Equivalencies (Course is the same as the quarter course. This can be 1:1; 1:many; many:1; or many:many courses. Anywhere (for any program) which the quarter course was required or listed, this (these) semester course(s) can be used. This information will also be displayed in the course conversion guide. Repeat rules apply.)	reflected on the PAWS as a choice for the student.	Acceptable Semester Course Repeats (If there is no semester course equivalency, this is the alternative course to allow for grade forgivenes/grade discounting.)	Quarter Units (Current number of units which are required for each requirement area.)	Semester Units (Number of semester units which will be required for each requirement area.)	Notes
BPMD								
DENID		BIOL 200	BIOL 2010			5	5	
		BIOL 201	BIOL 2010 & BIOL 2020			5	,	
Lower Division Requirements	Required courses	BIOL 202	BIOL 2020			5	5	
•	.,.	CHEM 215	CHEM 2100 & CHEM 2100L			6	5	
		CHEM 216	CHEM 2200 & CHEM 2200L			6	5	
		CHEM 221A	CHEM 2400					
	Group A	CHEM 221B	CHEM 2400L					
		CHEM 222A	CHEM 2400 & CHEM 2500					
Organic Chemistry (a minimum of 12		CHEM 222B	CHEM 2400L & CHEM 2500L					
		CHEM 223A	CHEM 2500			12-15	8-10	
units chosen from Group A or Group B)		CHEM 223B	CHEM 2500L					
	Group B	CHEM 321	CHEM 3400					
		CHEM 322	CHEM 3400 & CHEM3500					
		CHEM 323	CHEM 3500					
Mathematics		MATH 192	MATH 1601			4	3-4	
Wathematics	One course chosen from	MATH 211	MATH 2210			4	3-4	
	Group A Group B	PHYS 121	PHYS 2000 & 2000L					
		PHYS 122	PHYS 2000 &2000L & PHYS 2010 & 20	ā				
Physics (a minimum of 13 units chosen		PHYS 123	PHYS 2010 & 2010L			13-15	9-10	
from Group A or Group B)		PHYS 221	PHYS 2500 & 2500L			13-15	9-10	
		PHYS 222	PHYS 2500 & 2500L & PHYS 2510 & 25					
		PHYS 223	PHYS 2510 & 2510L					
		BIOL 300	BIOL 3100			5	4	
		BIOL 320 or BIOL 420	BIOL 3200 or BIOL 4200			6	4-5	
		BIOL 323	BIOL 4630			6	5	
		BIOL 324	BIOL 4640			6	5	
		BIOL 354	BIOL 3540			6	4	
	Required courses	BIOL 400	BIOL 3120			5	4	
Upper Division Requirements	incquired courses	BIOL 423	BIOL 3300			5	4	
		BIOL 424	BIOL 3630 & BIOL 3640			6	8	4 + 4 = 8 total for 2 sem courses- must take both
		BIOL 450 or BIOL 455	BIOL 3800			5	4	
		CHEM 436A	CHEM 4100			4	3	
		CHEM 437A	CHEM 4100 + CHEM 4200			3		
		CHEM 438A	CHEM4200			3	3	
		BIOL 342	BIOL 3420					
		BIOL 371	None	1				Th
	Other courses which may be used	BIOL 380	BIOL 4580					These courses are recommended but not required.
	for preparation for the program	BIOL 572	BIOL 5320			0	0	Biol371 has not been offered recently (last 5 years) and an equivalent course is not part of the semester
	tor preparation for the program	BIOL 573	BIOL 5370					
		RIOI 576	BIOL 5670			1		program.

B.S. in Biology - Ecology and Evolution Option -- Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

			S	A				
			Semester Course	Acceptable Semester				
			Equivalencies	Course Substitutions				
			(Course is the same as the	(Course is NOT the same as				
			quarter course. This can be 1:1:	the semester course, but it is				
			1:many; many:1; or many:many	acceptable for this particular				
			courses. Anywhere (for any	program requirement area	Acceptable Semester Course			
			program) which the quarter	for all students. This				
			course was required or listed,	information WILL NOT be	Repeats			
			this (these) semester course(s)	displayed in the course	(If there is no semester course	Quarter Units	Semester Units	
			can be used. This information will	conversion guide, but will be	equivalency, this is the	(Current number of	(Number of semester	
			also be displayed in the course	reflected on the PAWS as a	alternative course to allow for	units which are	units which will be	
			conversion guide. Repeat rules	choice for the student.	grade forgiveness/grade	required for each	required for each	
		Quarter Courses	apply.)	Repeat rules DO NOT apply.)	discounting.)	requirement area.)		Notes
	l .	Quarter Courses	арріу.)	Repeat rules DO NOT apply.)	uiscounting.)	requirement area.j	requirement area.j	Notes
BIEC								
		BIOL 200	BIOL 2010			5	5	
		BIOL 201	BIOL 2010 & BIOL 2020			5		
Lower Division Requirements	Required courses	BIOL 202	BIOL 2020			5	5	
		CHEM 215	CHEM 2100 & CHEM 2100L			6	5	
		CHEM 215	CHEM 2200 & CHEM 2200L			6	5	
		CHEM 221A	CHEM 2200 & CHEM 2200E					
		CHEM 221B	CHEM 2400L	+				
	Group A	CHEM 222A	CHEM 2400 & CHEM 2500					
Organic Chemistry (a minimum of 12		CHEM 222B	CHEM 2400L & CHEM 2500L			12-15	8-10	
units chosen from Group A or Group B)		CHEM 223A	CHEM 2500				8-10	
		CHEM 223B	CHEM 2500L					
	Group B	CHEM 321	CHEM 3400					
		CHEM 322	CHEM 3400 & CHEM 3500					
		CHEM 323	CHEM 3500					
Mathematics		MATH 192	MATH 1601			4	3-4	
Mathematics	One course chosen from	MATH 211	MATH 2210			4	3-4	
		PHYS 121	PHYS 2000 & 2000L				+	
	Group A	PHYS 122	PHYS 2000 & 2000L & PHYS 2010 & 20					
Physics (a minimum of 13 units chosen	Group A	PHYS 123	PHYS 2010 & 2010L	1			9-10	
from Group A or Group B)		PHYS 221	PHYS 2500 & 2500L			13-15		
from Group A or Group B)	Group B					1		
		PHYS 222 PHYS 223	PHYS 2500 & 2500L & PHYS 2510 & 25					
			PHYS 2510 & 2510L					
		BIOL 300	BIOL 3100			5	4	
		BIOL 321	BIOL 3700			4	4	
		BIOL 400	BIOL 3120			5	4	
	Required courses	BIOL 423	BIOL 3300			5	4	
		BIOL 450	BIOL 3800			5	4	
		BIOL 514 or BIOL 590M	BIOL 5912			2-4	2	
		BIOL 591	BIOL 5000			1	1	
		BIOL 319	BIOL 3520-3					
		BIOL 455	None	1				
Upper Division Requirements		BIOL 505 or PSYC 410	BIOL 5050-4	1				BIOL 455 has not been offered for several years, and
	One course chosen from	BIOL 505 OF PSYC 410	BIOL 5850-3			4-6	3-4	has been deleted from the semester course
	One coarse chosen from					4-0	3-4	offerings.
		BIOL 522	BIOL 5720-4					onenings.
		BIOL 525	BIOL 5820-3					
		BIOL 565	BIOL 5860-4					
	A minimum of 18 units of upper							
	division biology courses							
	(excluding BIOL 301, BIOL 304,							
	BIOL 305, BIOL 306, BIOL 314,							
	BIOL 349, and BIOL 503), selected	BIOL 300-599				18		
	in consultation with a Biology							
	faculty advisor in area of							

Biology Minor -- Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

				Acceptable Semester Course Substitutions (Course is NOT the same as the semester course, but it is acceptable for this particular program requirement area				
			program) which the quarter course was required or listed, this (these) semester course(s)	for all students. This information WILL NOT be displayed in the course	equivalency, this is the alternative course to allow for grade forgiveness/grade	Quarter Units (Current number of units which are required for each requirement area.)	Semester Units (Number of semester units which will be required for each requirement area.)	Notes
BIOL-MIN								
		BIOL 200	BIOL 2010			5	5	
		BIOL 201	BIOL 2010 & BIOL 2020			5		
		BIOL 202	BIOL 2020			5	5	
Minor Requirements	Required courses	BIOL 300	BIOL 3100			5	4	
		CHEM 206	CHEM 2060 & CHEM 2060L			5	5	
			CHEM 2100 & CHEM 2100L			6	5	
			CHEM 2200 & CHEM 2200L			6	5	
			MATH 1401					
Mathematics			MATH 1601			4	3-4	
			MATH 2210					
Physics			PHYS 1000 & PHYS 1000L					
	Five units chosen from		PHYS 2000 & PHYS 2000L			5	4-5	
		PHYS 221	PHYS 2500 & PHYS 2500L					
Electives	A minimum of 10 upper-division units (2 courses) in biology	BIOL 300-599	BIOL 3000-5999			10	7	

Quarter to Semester Translation Table Quarter Requirements (AY 2017-18)

				Acceptable Semester				
			Semester Course	Course Substitutions				
			Equivalencies	(Course is NOT the same as				
			(Course is the same as the	the semester course, but it				
			quarter course. This can be 1:1;	is acceptable for this				
			1:many; many:1; or many:many	particular program				
			courses. Anywhere (for any	requirement area for all				
			program) which the quarter	students. This information	Acceptable Semester Course			
			course was required or listed,	WILL NOT be displayed in	Repeats		Semester Units	
							(Number of	
			this (these) semester course(s)	the course conversion guide,		Quarter Units		
			can be used. This information	but will be reflected on the	equivalency, this is the	(Current number of	semester units	
			will also be displayed in the	PAWS as a choice for the	alternative course to allow for	units which are	which will be	
			course conversion guide. Repeat		grade forgiveness/grade	required for each	required for each	
		Quarter Courses	rules apply.)	NOT apply.)	discounting.)	requirement area.)	requirement area.)	Notes
,	BIOL MS							•
		BIOL 601	BIOL 6010	1		2	2	NOT REQUIRED FOR PROGRAM
		BIOL 601 BIOL 690	BIOL 6010 BIOL 6490			2		
		BIOL 690 BIOL 691	BIOL 6490 BIOL 6100			2		
	A minimum of 45 quarter units of		DIOL 010U			1	1	
	A minimum of 45 quarter units of acceptable graduate-level work	BIOL 692A BIOL 692B		BIOL 6930		2	1	
	acceptable graduate-level work included in the formal program,	BIOL 692B BIOL 692C		BIOL 0330		2	1	
	included in the formal program, with no less than 32 units		nioi core			2	1	
Program Requirements	with no less than 32 units completed in residence at this	BIOL 696A BIOL 696B	BIOL 6951 BIOL 6952			1		
						2	2	
	university and with at least 24	BIOL 696C	BIOL 6953			3	3	
	units gained from 600-level	BIOL 696D	BIOL 6954			4	4	
		BIOL 696E	BIOL 6955			5		
		BIOL 696F	BIOL 6956			6	6	
		BIOL 699A				3		Students may receive up to 6 units of credit
		BIOL 699B	BIOL 6970			3	4	any combination of QTR or Semester units
		BIOL 424	BIOL 4XXX			6		
		BIOL 431	BIOL 4XXX			6		
		BIOL 440	BIOL 4XXX			5		
		BIOL 502	BIOL SXXX			4		
		BIOL 514	BIOL SXXX			4		
		BIOL 515	BIOL SXXX			4		
		BIOL 522	BIOL SXXX			4		
		BIOL 524	BIOL SXXX			3		
		BIOL 528	BIOL 5XXX			4		
		BIOL 565	BIOL 5XXX			6		
		BIOL 572	BIOL SXXX			4		
	Twenty (20) units of electives to	BIOL 573	BIOL SXXX			5		
	be chosen from biology or related	BIOL 576	BIOL 5XXX			4		
	courses at the 600-, 500- and	BIOL 580	BIOL SXXX					
	400-levels (excluding BIOL 601).	BIOL 590A-M	BIOL SXXX			-		
Program Electives	A maximum of twelve (12) units	BIOL 590A-M BIOL 592	BIOL SXXX			-		
	from any combination of BIOL	BIOL 592 BIOL 600	BIOL SXXX BIOL 6300			4		
	596, BIOL 692, and BIOL 696 may					2	2	
	be applied toward the student's	BIOL 605	BIOL 6310			2	2	
	degree.	BIOL 620	BIOL 6320			2	2	
		BIOL 622	BIOL 6330			2	2	
		BIOL 624	BIOL 6340			2	2	
		BIOL 650	BIOL 6390			2	2	
		BIOL 651				2		Topics taught under this course can be taught under other variable-topic courses.
		BIOL 660				2		Topics taught under this course can be taught under other variable-topic courses.
		BIOL 664	BIOL 6400			2	2	
		BIOL 670	BIOL 6370			2	2	·
		BIOL 675				2		Topics taught under this course can be taught under other variable-topic courses.
		BIOL 677	BIOL 6350			2	2	·
		BIOL 678	BIOL 6360			2	2	·
		BIOL 680	BIOL 6380			2	2	
					Total	135	57	