

**BS Biochemistry Progression**  
Begin with **MATH 1221** or higher

	Fall		Interim		Spring		Hours earned	
Year	Course prefix/number	hours	course	hours	Course prefix/number	hours	Total hrs earned for academic year*	
Freshman year	The math that you test into-- <b>MATH 1221</b> or <b>MATH 2221</b> (PG1)	4	INTM course required	3	MATH2221 if needed for professional school or Ethos course of choice (PG1, PG2, PG3)	3-4	Min 30	Max 34
	CORE 1101 (PG3)	3			CORE 1102 (PG3); pre-req CORE 1101	1		
	ENGL 1101 (PG1)	3			ENGL 1102 (PG1); pre-req ENGL 1101	3		
	CHEM1101/1101L (PG2; Gen. Chem. I & Lab) Pre-req MATH1101 or placement into Math1221	4			CHEM1102/1102L (PG2); (Gen. Chem. II & Lab); pre-req CHEM1101/1101L	3		
	<b>OPTIONS (choose from below with advisor)</b>				Ethos course of choice if desired (PG1, PG2, PG3)	3		
	Ethos course of choice if desired (PG1, PG2, PG3)	3						
	<b>between 14-17 hrs</b>		<b>hrs 3</b>		<b>between 13-14 hrs</b>			
	Consult advisor regarding number of hours to take first semester.							
Sophomore year	CHEM3201/33201L (Organic Chem. I & Lab); pre-req CHEM1102	4	INTM course	3	CHEM3202/3302L (Organic Chem. II&Lab); pre-req CHEM3301	4	Min 27	Max 35
	BIOL1107/1107L (Prin. Biology) pre-req MATH1101	4			BIOL1108/1108L (Prin. Biology) pre-req MATH1101	4		
	<b>OPTIONS (choose from below with advisor)</b>				<b>OPTIONS (choose from below with advisor)</b>			
	PHYS1101/1101L (Intro. Physics I&Lab); pre-req MATH2105	4			PHYS1102 (Intro. Physics II&L); pre-req PHYS1101	4		
	Ethos course of choice from PG1 (if not complete), PG2, PG3; choose 1 or more courses.	3			Ethos course of choice from PG1 (if not complete), PG2, PG3; choose 1 or more courses.	3		
	Course for Minor or Prof. School Requirements.	3-4			Course for Minor or Prof. School Requirements.	3-4		
	<b>between 12-16 hrs</b>		<b>hrs 3</b>		<b>between 12-16 hrs</b>			
Junior year	PHYS1101/1101L (Intro. Physics I&Lab, if not already taken); pre-req MATH2105	4			PHYS1102 (Intro. Physics II&L, if not already taken); pre-req PHYS1101	4	Min 25	Max 34
	<b>OPTIONS (choose from below with advisor)</b>				CHEM3311 (El. Of Physical Chem., required even years); pre-req PHYS1101 and CHEM3201	3		
	CHEM4421 (Biochemistry I and Lab); pre-req CHEM3302	4			CHEM3371 (Jr. Seminar)	1		
	Upper Level Elective	3-4			<b>OPTIONS (choose from below with advisor)</b>			
	Ethos course of choice from PG2, PG3; choose 1 or more courses.	3			CHEM4422 (Biochemistry II and Lab); pre-req CHEM4421	4		
	Course for Minor or Prof. School Requirements.	3-4			Upper Level Elective	3		
	<b>between 13-17 hrs</b>		<b>between 0-3 hrs</b>		Ethos course of choice from PG2, PG3; choose 1 or more courses.	3		
					Course for Minor or Prof. School Requirements.	3-4		
					<b>between 12-14 hrs</b>			
Senior year	CHEM4421 (Biochemistry I and Lab, if not already taken); pre-req CHEM3302	4			CHEM4422 (Biochemistry II and Lab, if not already taken); pre-req CHEM4421	4	Min 24	Max 35
	<b>OPTIONS (choose from below with advisor)</b>				CHEM3311 (El. Of Physical Chem. Required even years); pre-req PHYS1101 and CHEM3201	3		
	Upper Level Elective	3-4			CHEM4471 (Sr. Seminar)	2		
	Ethos course of choice from PG2, PG3; choose 1 or more courses.	3			<b>OPTIONS (choose from below with advisor)</b>			
	Course for Minor or Prof. School Requirements.	3-4			Upper Level Elective	3-4		
	<b>between 12-15 hrs</b>		<b>hrs 0-3</b>		Ethos course of choice from PG2, PG3; choose 1 or more courses.	3		
					Course for Minor or Prof. School Requirements.	3-4		
					<b>between 12-17 hrs</b>			
					<b>120 minimum hours to graduate</b>			

-During fall, interim, and spring semesters of each academic year, a student must earn on average 30 credit hours per year to graduate with the required 120 credit hours in 4 years.  
 -Course options are listed in order of priority for the given year. These courses are required, but flexibility exists as to when to take the take courses listed as options.  
 -For a list of Ethos courses and requirements, see Ethos in the bulletin; PG# corresponds to the course categories in Ethos.  
 -Two Upper level electives are required for the BS Biochemistry major which may be chosen from BIOL3321 (Microbiology), BIOL3322 (Immunology), BIOL3370 (Toxicology), BIOL3372 (Molecular Biology), BIOL3373 (Genetics), BIOL3374 (Cell Physiology), BIOL3376 (Virology), CHEM2251 (Analytical Analysis), CHEM4451 (Instrumental Analysis) CHEM3331 (Inorganic Chemistry) or PSYC4465 (Biopsychology).