

## Physics: Biophysics concentration (B.S.) 2023-2024 catalog

Student Name:	ID Number:					
Major Requirements						
Term Completed/Planned	Grade	Credit	Course #	Title		
		5		nd 121L: General Physics I (NSM-L)		
		5		nd 122L: General Physics II (NSM-L)		
		5		nd 245L: Modern Physics		
		5		nd 261L: Electronics		
		5		nd 317L: Biophysics		
		4	PHY351	Classical Mechanics		
		4	PHY365	Electricity and Magnetism		
		2	PHY395	Comprehensive Laboratory I		
		2	PHY396	Comprehensive Laboratory II		
		4	CHM368	Physical Chemistry: Microscopic Theory		
		2	PHY484	Quantum Mechanics Supplement		
		5		nd 115L: General Chemistry I (NSM-L)		
		5		nd 116L: General Chemistry II (NSM_L)		
		4	MAT145	Calculus I (NSM)		
		4	MAT146	Calculus II (NSM)		
		4	MAT255	Multivariable Calculus		
Complete one (1) of PHY327 o	r MAT369					
complete <b>one</b> (2) or rivis2? o		4	PHY327	Special Functions of Mathematical Physics		
		4	MAT369	Modeling and Differential Equations in Biological and Natural Sciences		
Complete one (1) independen	t project (eit	her BIO499	), CHM499, N			
		4		Independent Study		
Complete at least four (4) elec	tive credits.	chosen fro	m:			
.,	,	5		d 473L: Physiology of Humans and Other Animals		
	·	5	BIO475 and 475L: Neurobiology			
		4	CHM362	Physical Chemistry: Macroscopic Theory		
	·	2	CHM430	Advanced Thermodynamic and Separation Lab		
	·	2	CHM450	Advanced Spectroscopy and Computational Chemistry Lab		
		4	CHM481	Instrumental Analysis		
		4	CHM482	Advanced Inorganic Chemistry		
	·	4	CSC371	Computer Organization		
		4	CSC431	Introduction to A I Robotics		
		4	MAT273	Statistical Modeling		
		•		Modeling and Differential Equations in Biological and Natural Sciences ( <i>if not</i>		
		4	MAT369	used in place of PHY327 above)		
		4	MAT455	Numerical Mathematics and Computation		
Complete one (1) additional e	lective cours			10-00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	-	5		d 253L: Introductory Cellular Biology		
		5		d 255L: Genetics		
		5	BIO/CHM 369 and 369L: Biochemistry			
		5	BIO471 and 471L: Advanced Cellular and Molecular Biology			
		5	BIO475 and 475L: Neurobiology			
		5	BIO476 and 476L: Microbiology			
		4	BIO486: Immunology			
		5		nd CHM280L: Quantitative Analytical Chemistry		
		4	CHM464	Advanced Organic Chemistry		
		4	CHM481	Instrumental Analysis		

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Complete <b>one</b> (1) Speaking skill course,	chosen from	1:		
	4	COM111	Public Speaking (HUM)	
	4	COM115	Scientific and Technical Public Speaking (HUM)	
		MAT201	Communicating Mathematics	
	4	HON130	Liberating Letters (HUM)	
	_		= Engaging Minneapolis; AE = Augsburg Experience; KC = ematics-with lab; SBS = Social & Behavioral Science; FA = l	-
Student's Signature				Date
Advisor's Printed Name			Signature	Date
Advisor(s): By signing you indicat	e vou have	verified the	accuracy of the information above. Faculty ac	lvisors must initial next to

Advisor(s): By signing, you indicate you have verified the accuracy of the information above. Faculty advisors must initial next to each course substitution/waiver and sign this form.