

BS Biomedical Physics course planning guide

- It is expected that students will take some courses in the summer in order to complete coursework in four years.
- Either the **Foundations of Biology** or the **General Physics** sequence can be taken in the summer.

Year	Semester	Type	Course	Course Title	Total credit	
19-20	Fall	ACE	ENGL 115	College Writing I	3	
		Cognate	BIOL 122	Introduction to Medicine	1	
		Cognate	CPTR 151	Computer Science I	3	
		Cognate	MATH 191	Calculus I	4	
		Major requirement	BIOL 165	Foundations of Biology	5	
		Major requirement		Foundations of Biology (lab)	0	
		Major requirement	PHYS 277	Physics Colloquium	0	
	Fall Total					16
	Spring	ACE	COMM 104	Communication Skills	3	
		ACE	HLED 120	Fit for Life	1	
		ACE	RELT 100	God and Human Life	3	
		Cognate	MATH 192	Calculus II	4	
		Major requirement	BIOL 166	Foundations of Biology	5	
		Major requirement		Foundations of Biology (lab)	0	
		Major requirement	PHYS 277	Physics Colloquium	0	
	Spring Total					16
	Summer	Major requirement	PHYS 141	General Physics I	4	
		Major requirement		General Physics I (lab)	0	
		Major requirement	PHYS 142	General Physics II	4	
		Major requirement		General Physics II (lab)	0	
Summer Total					8	
19-20 Total					40	
20-21	Fall	ACE	BHSC 100	Philosophy of Service and Civic Engagement	2	
		ACE	HIST 110	Worldviews, Cultures, and Gods (recommended)	3	
		ACE	PSYC 101	Introduction to Psychology (pre-med recommended)	3	
		ACE	FTES	Fitness: consult bulletin for ACE-approved options	1	
		Cognate	CHEM 131	General Chemistry I	4	
		Cognate		General Chemistry I (lab)	0	
		Major requirement	PHYS 277	Physics Colloquium	0	
		Major requirement	PHYS 330	Thermodynamics and Statistical Mechanics	3	
	Fall Total					16
	Spring	ACE	ENGL 220	Technical Writing	3	
		ACE	(blank)	Religion: consult bulletin	3	
		Cognate	CHEM 132	General Chemistry II	4	
		Cognate		General Chemistry II (lab)	0	
		Major requirement	PHYS 277	Physics Colloquium	0	
		Major requirement	PHYS 316	Biophysics	3	
		Major requirement	PHYS	Elective	3	
Spring Total					16	
Summer	Major requirement	PHYS 326	Biomedical Math	3		
Summer Total					3	
20-21 Total					35	
21-22	Fall	ACE		Religion: consult bulletin	3	
		Cognate	BIOL 372	Cell and Molecular Biology	3	
		Cognate	CHEM 231	Organic Chemistry I	3	
		Cognate	CHEM 241	Organic Chemistry Laboratory I	1	
		Major requirement	PHYS 277	Physics Colloquium	0	
		Major requirement	PHYS 346	Physics in Medicine	3	
		Major requirement	PHYS 350	Optics	3	
	Fall Total					16
	Spring	ACE	FTES	Fitness: consult bulletin for ACE-approved options	1	
		ACE		Fine Arts/Humanities: consult bulletin for ACE-approved options	3	
		ACE	HIST	History: consult bulletin for ACE-approved options	3	
		Cognate	CHEM 232	Organic Chemistry II	3	
		Cognate	CHEM 242	Organic Chemistry Laboratory II	1	
		Major requirement	PHYS 277	Physics Colloquium	0	
Recommended elective		SOCI 119	Principles of Sociology (pre-med recommended)	3		
Spring Total					14	
Summer	Major requirement	BCHM 421	Biochemistry I	4		
Summer Total					4	
21-22 Total					34	
22-23	Fall	ACE	FTES	Fitness: consult bulletin for ACE-approved options	1	
		ACE		Religion: consult bulletin	3	
		ACE		Fine Arts/Humanities: consult bulletin for ACE-approved options	3	
		ACE		Social Sciences: consult bulletin for interdisciplinary list	3	
		Major requirement	PHYS 277	Physics Colloquium	0	
		Major requirement	PHYS 376	Advanced Biophysics Laboratory	1	
		Major requirement	PHYS 495	Physics Research	1	
	Major requirement	PHYS	Elective	3		
	Fall Total					15
	Spring	ACE		Service: consult bulletin for ACE-approved options	0	
Major requirement	PHYS 496	Internship Practicum	2			
Spring Total					2	
22-23 Total					17	
Grand Total					126	