

**CURRICULUM SUMMARY FOR THE BACHELOR OF SCIENCE IN  
PHYSICS  
PREMEDICAL-PHYSICS CONCENTRATION\*  
TOTAL CREDITS REQUIRED:120**

CORE CURRICULUM (STANDARD)		MAJOR (PHYSICS)	OTHER REQUIREMENTS	MINOR REQUIREMENTS
TSU COURSES	TCCNS EQUIVALENT			
42 credits		40 credits	38 credits	0 credits
<u>Communication:</u>		PHYS 152 (3)	MATH 241 (4)	
ENG 131 (3)	ENGL 1301	PHYS 217 (1)	MATH 242 (4)	
ENG 132 (3)	ENGL 1302	PHYS 252 (3)	MATH 243 (4)	
<u>Mathematics:</u>		PHYS 218 (1)	MATH 251 (3)	
MATH 136 (3)	MATH 2312	PHYS 332 (3)	FS 102 (1)	
<u>Life and physical sciences:</u>		PHYS 333 (3)	BIOL 131 (3)	
CHEM 131 (3)	CHEM 1311	PHYS 336 (3)	BIOL 111 (1)	
PHYS 251 (3)	PHYS 2325	PHYS 338 (3)	BIOL 132 (3)	
<u>Language, philosophy, and culture:</u>		PHYS 341 (3)	BIOL 112 (1)	
ENG 2xx (3) **		PHYS 360 (3)	CHEM 111 (1)	
<u>Creative arts:</u>		PHYS 415 (1)	CHEM 112 (1)	
MUSI 136 (3) or ART 135 (3)	MUSI 1306 or ARTS 1301	PHYS 416 (1)	CHEM 231 (3)	
<u>American history:</u>		PHYS 432 (3)	CHEM 211 (1)	
HIST 231 (3)	HIST 1301	PHYS 437 (3)	CHEM 232 (3)	
HIST 232 (3)	HIST 1302	PHYS 483 (3)	CHEM 212 (1)	
<u>Government/political science:</u>		PHYS 484 (3)	CHEM 343 (4)	
POLS 235 (3)	GOVT 2305			
POLS 236 (3)	GOVT 2306			
<u>Social and behavioral sciences:</u>				
PSY 131 (3) or ECON 231 (3) or SOC 157 (3)	PSYC 2301 or ECON 2301 or SOCI 1301			
<u>Institutional Options:</u>				
SC 135 (3)	SPCH 1321			
CHEM 132 (3)	CHEM 1312			

\* It is recommended that the student consider the following courses to be better prepared for the MCAT exam: SOC 157, BIOL 135, BIOL 241, BIOL 338, MATH 231. Consult with advisor.

\*\*ENG 2XX – African American Literature (ENG 244) or World Literature I or II (ENG 230 or ENG 231)

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First Year	FIRST SEMESTER		SECOND SEMESTER	
	ENG 131 - Freshman English I	3	ENG 132 - Freshman English II	3
	PHYS 152 - Pre-University Physics	3	PHYS 251 - University Physics I	3
	FS 102 - Freshmen Seminar	1	PHYS 217 - University Physics Lab I	1
	CHEM 131 - General Chemistry I	3	CHEM 132 - General Chemistry II	3
	CHEM 111 - General Chemistry Lab I	1	CHEM 112 - General Chemistry Lab II	1
	MATH 136 - Pre-Calculus	3	MATH 241 - Calculus I	4
		<b>14 Hrs</b>		<b>15 Hrs</b>

Second Year	THIRD SEMESTER		FOURTH SEMESTER	
	HIST 231 - History of the United States to 1877	3	HIST 232 - History of the United States since 1877	3
	PHYS 252 - University Physics II	3	PHYS 332 - Modern Physics	3
	PHYS 218 - University Physics Lab II	1	MATH 243 - Calculus III	4
	MATH 242 - Calculus II	4	PSY 131 - General Psychology	3
	BIOL 131 - Biological Science I	3	BIOL 132 - Biological Science II	3
	BIOL 111 - Biological Science Laboratory I	1	BIOL 112 - Biological Science Laboratory II	1
	<b>15 Hrs</b>		<b>17 Hrs</b>	

Third Year	FIFTH SEMESTER		SIXTH SEMESTER	
	POLS 235 - Political Science I	3	POLS 236 - Political Science II	3
	PHYS 336 - Thermodynamics & Stat.	3	PHYS 360 - Advanced Undergrad Lab	3
	PHYS 341 - Mechanics 1	3	MATH 251 - Differential Equations	3
	**ENG 2XX - Upper Level English	3	SC 135 - Bus. and Prof. Communications	3
	CHEM 231 - Organic Chemistry I	3	CHEM 232 - Organic Chemistry II	3
	CHEM 211 - Organic Chemistry I Lab	1	CHEM 212 - Organic Chemistry II Lab	1
	<b>16 Hrs</b>		<b>16 Hrs</b>	

Fourth Year	SEVENTH SEMESTER		EIGHTH SEMESTER	
	PHYS 333 - Electricity and Magnetism	3	PHYS 338 - Math Methods I	3
	PHYS 415 - Senior Thesis I	1	PHYS 416 - Senior Thesis II	1
	PHYS 432 - Quantum Mechanics	3	PHYS 437 - Nuclear Physics	3
	PHYS 483 - Advanced Physics Elective	3	PHYS 484 - Topics in Physics	3
	CHEM 343 - Biochemistry	4	MUSI 136/ ART 135 - Music Appreciation or Topics in Contemp. Art & Culture	3
		<b>14 Hrs</b>		<b>13 Hrs</b>

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