BIOMEDICAL SCIENCE (PRE-PHARMACY CONCENTRATION), BACHELOR OF SCIENCE

SUMMARY

Code	Title I	Hours
	Requirements (https://catalog.tsu.edu/	42
	general-education-core-curriculum/)	
Major Requirem		
BIOM 331	Principles of Biomedical Research	3
BIOM 332	Biomedical anatomy & Physiology	3
BIOM 333	Biomedical Genetics	3
BIOM 334	Biomedical Writing	3
BIOM 335	Health Disparities	3
BIOM 430	Medical Calculations	3
BIOM 410	Medical Calculations Lab	1
BIOM 420	Introduction to Pathophysiology	2
BIOM 432	Biomedical Biochemistry	3
BIOM 411	Biomedical Biochemistry Lab	1
BIOM 436	Biostatistics	3
BIOM 421	Introduction to Pharmacology	2
Major Elective R	equirements (13 hours)	
BIOM 433	Medical Communications	3
BIOM 434	Introduction to Pharmacy Practice	3
BIOM 431	Biopharmaceutics	3
BIOM 412	Biopharmaceutics Lab	1
BIOM 330	Pharmacy Seminar	3
Other Requireme	ents 35 hours)	
Biological Science	ce Core (16 hours)	
BIOL 1306	Biological Science I	4
& BIOL 111	and Biological Science Lab I	
BIOL 1307	Biological Science II	4
& BIOL 112	and Biological Science Lab II	
BIOL 245	Human Anatomy & Physiology (BIOL 2401 or BIOL 2402 also allowed)	_ 4
BIOL 347	Microbiology (BIOL 2420 or BIOL 2421 also allowed)	4
Biochemistry Co	re (10 hours)	
CHEM 111	Chemistry I Lab	1
CHEM 112	Chemistry II Lab	1
CHEM 211	Organic Chem I Lab	1
CHEM 212	Organic Chem II Lab	1
CHEM 231	Organic Chem I	3
CHEM 232	Organic Chem II	3
Physics Core (4	hours)	
PHYS 1301	College Physics I	3
PHYS 213	College Phys Lab I	1
Mathematics Co		
MATH 2413	Calculus & Analytic Geomtry I	4
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First Time Freshman (1 hour) ²

FC 102 Freehman Seminar/ first Vear Evperience	1	FS 102	Freshman Seminar/ first Year E	xperience	1

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Suggestions in the Core Curriculum

Mathematics (020)

MATH 2312 Precalculus Math

Life and Physical Science (030)

CHEM 1311 Chemistry I and CHEM 1312 Chemistry II

American History (060)

HIST 1301 Soc & Pol Hist US to 1877 and HIST 1302 Soc & Pol Hist US

Since 1877

Institutional Option (090)

Speech Option and MATH 1342 Elementary Statistics

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FS 102 can be substituted with a free elective for transfer students only.

rs 102 can be su	bstituted with a free elective for transfer student	S Offiy.
Course First Year First Semester	Title	Hours
BIOL 1306	Biological Science I	3
BIOL 111	Biological Science Lab I	1
CHEM 1311	Chemistry I (Life and Physical Sciences 030 (https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/))	3
CHEM 111	Chemistry I Lab	1
ENGL 1301	Freshman English I (Communication 010 (https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/))	3
MATH 2312	Precalculus Math (Mathematics 020 (https://catalog.tsu.edu/undergraduate/generaleducation-core-curriculum/))	3
FS 102	Freshman Seminar/ first Year Experience	1
	Hours	15
Second Semeste	r	
BIOL 1307	Biological Science II	3
BIOL 112	Biological Science Lab II	1
CHEM 1312	Chemistry II (Life and Physical Sciences 030 (https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/))	3
CHEM 112	Chemistry II Lab	1
ENGL 1302	Freshman English II	3
	l Science 080 Course (https://catalog.tsu.edu/ eneral-education-core-curriculum/)	3
	Course (https://catalog.tsu.edu/ eneral-education-core-curriculum/)	3
	Hours	17
Second Year		
Third Semester		
BIOL 245	Human Anatomy & Physiology	4
BIOL 245L	Human Anat & Phys Lab	0
CHEM 231	Organic Chem I	3
CHEM 211	Organic Chem I Lab	1
MATH 2413	Calculus & Analytic Geomtry I	4
HIST 1301	Soc & Pol Hist US to 1877	3

Third Year Fifth Semester BIOL 347 Microbiology 4 BIOL 347L Microbiology Lab 0 PHYS 1301 College Physics I 3 PHYS 213 College Phys Lab I 1 MATH 1342 Elementary Statistics 3 BIOM 330 Pharmacy Seminar 3 Hours 14 Sixth Semester BIOM 331 Principles of Biomedical Research 3 BIOM 332 Biomedical Genetics 3 BIOM 333 Biomedical Writing 3 BIOM 334 Biomedical Writing 3 BIOM 335 Health Disparities 3 Fourth Year Seventh Semester BIOM 430 Medical Calculations 3 BIOM 430 Medical Calculations Lab 1 BIOM 420 Introduction to Pathophysiology 2 BIOM 433 Medical Communications 3 BIOM 431 Biomedical Biochemistry Lab 1 Hours<	POLS 2305	American Government	3
Fourth Semester Language, Philosophy, and Culture 040 Course (https:// catalog.tsu.edu/undergraduate/general-education-core-curriculum/) 3 CHEM 232 Organic Chem II 3 CHEM 212 Organic Chem II Lab 1 COMM 1321 Business & Professional Comm 3 or COMM 1315 or Public Address HIST 1302 Soc & Pol Hist US Since 1877 3 POLS 2306 Texas Government 3 Hours 16 Third Year Fifth Semester BIOL 347 Microbiology 4 BIOL 347L Microbiology Lab 0 PHYS 1301 College Physics I 3 BIOL 347L Microbiology Lab 0 PHYS 1301 College Physics I 3 BIOL 347L Microbiology Lab 0 PHYS 1301 College Physics I 3 BIOL 347L Microbiology Lab 0 BIOM 330 Pharmacy Seminar 3 BIOM 330 Pharmacy Seminar 3 BIOM 331 </td <td></td> <td>Hours</td> <td></td>		Hours	
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catalog.tsu.edu/undergraduate/general-education-core- curricullum/) CHEM 232 Organic Chem II			3
CHEM 212 Organic Chem II Lab 1 COMM 1321 Business & Professional Comm or COMM 1315 3 or COMM 1315 or Public Address HIST 1302 Soc & Pol Hist US Since 1877 3 POLS 2306 Texas Government 3 Hours 16 Third Year Fifth Semester BIOL 347 Microbiology 4 BIOL 347L Microbiology Lab 0 PHYS 1301 College Physics I 3 BHYS 213 College Physics I 1 MATH 1342 Elementary Statistics 3 BIOM 330 Pharmacy Seminar 3 Hours 14 Sixth Semester BIOM 331 Principles of Biomedical Research 3 BIOM 332 Biomedical Genetics 3 BIOM 333 Biomedical Writing 3 BIOM 334 Biomedical Writing 3 BIOM 430 Medical Calculations 3 BIOM 410 Medical Calculations Lab 1 </td <td>catalog.tsu.edu/</td> <td></td> <td>·</td>	catalog.tsu.edu/		·
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POLS 2306 Texas Government 36 Hours 16	or COMM 131	5 or Public Address	
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BIOM 412 Biopharmaceutics Lab 1 BIOM 421 Introduction to Pharmacology 2 BIOM 434 Introduction to Pharmacy Practice 3 BIOM 436 Biostatistics 3 Hours 12	Eighth Semester	r	
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BIOM 434 Introduction to Pharmacy Practice 3 BIOM 436 Biostatistics 3 Hours 12	BIOM 412	Biopharmaceutics Lab	1
BIOM 436 Biostatistics 3 Hours 12	BIOM 421	Introduction to Pharmacology	2
Hours 12	BIOM 434	Introduction to Pharmacy Practice	3
-	BIOM 436	Biostatistics	3
Total Hours 120		Hours	12
		Total Hours	120