

BIOMEDICAL SCIENCES (HEALTH ADMINISTRATION CONCENTRATION), BS

Code	Title	Hours
Core Curriculum Requirements (https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/)		42
Major Requirements (30 hours)		
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 Requirements (13 hours)		
HSOA 335	Hlth Pol & US Hlthcare Sys	3
HSOA 431	HC Mgmt & Leadership	3
HSCR 2310	Biomedical Ethics	3
Select 4 hours from the following:		4
HSOI 362	Med Term Word Processing	
HSOI 366	Legal Aspects	
HSCR 2320	Principles of Disease	
HSOA 332	Intro Commun & Population Hlth	
HSOA 336	Res Health Professionals	
HED 399	Health Seminar	
Other Requirements (35 hours)		
Biological Science Core (16 hours)		
BIOL 1306 & BIOL 111	Biological Science I and Biological Science Lab I	4
BIOL 1307 & BIOL 112	Biological Science II and Biological Science Lab II	4
BIOL 245	Human Anatomy & Physiology (BIOL 2401 or BIOL 2402 also allowed)	4
BIOL 347	Microbiology (BIOL 2401 or BIOL 2402 also allowed)	4
Biochemistry Core (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 Core (4 hours)		
MATH 2413	Calculus & Analytic Geomtry I	4
First Time Freshman (1 hour)		
FS 102	Freshman Seminar/ first Year Experience	1
Total Hours		120

Course	Title	Hours
First Year		
First Semester		
BIOL 1306	Biological Science I	3
BIOL 111	Biological Science Lab I	1
CHEM 1311	Chemistry I	3
CHEM 111	Chemistry I Lab	1
ENGL 1301	Freshman English I	3
MATH 2312	Precalculus Math	3
FS 102	Freshman Seminar/ first Year Experience	1
Hours		15
Second Semester		
BIOL 1307	Biological Science II	3
BIOL 112	Biological Science Lab II	1
CHEM 1312	Chemistry II	3
CHEM 112	Chemistry II Lab	1
ENGL 1302	Freshman English II	3
Social/Behavioral Science Elective		3
Visual & Performing Arts Elective		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
POLS 2305	American Government	3
Hours		18
Fourth Semester		
English 2XX		3
CHEM 232	Organic Chem II	3
CHEM 212	Organic Chem II Lab	1
COMM 1321 or COMM 1315	Business & Professional Comm or Public Address	3
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
PHYS 213	College Phys Lab I	1
HSCR 2310	Biomedical Ethics	3

MATH 1342	Elementary Statistics	3
Hours		14
Sixth Semester		
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
Hours		15
Fourth Year		
Seventh Semester		
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
HSHA 431	HC Mgmt & Leadership	3
Hours		13
Eighth Semester		
BIOM 436	Biostatistics	3
BIOM 421	Introduction to Pharmacology	2
Electives		7
Hours		12
Total Hours		120