

DEGREE PLAN

2024-2027

School of Education and Science

Bachelor of Science Degree in Biology

Freshman Year

First Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
ENGL	1301	English Composition I	3			Gen Ed Requirement
BIOL	1411	General Biology I w/ Lab	4			
CHEM	2401	General Chemistry I w/ Lab	4			
GEES	1300	Academic Success Seminar	3			Gen Ed Requirement
*MATH	1350	Pre-Calculus I	3			
GEEP	1001	General Educ. Enrich Program	0			
		Total	17			

*Either MATH 1350 or 1351 (Pre-Calculus I, II) or MATH 2410, and 2420 (Calculus I, II). The Calculus track is recommended for pre-pharmacy students

Second Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
ENGL	1302	English Composition II	3			Gen Ed Requirement
MATH	1351	General Pre-Calculus II	3			
BIOL	1422	General Biology II / Lab (Botany)	4			
CHEM	2402	General Chemistry II w/ Lab	4			
HIST	2300	Introduction to African American Studies	3			Gen Ed Requirement
GEEP	1002	General Educ. Enrich Program	0			
		Total	17			

Sophomore Year

First Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
PHYS	2401	General Physics I with Lab	4			
ENGL	2311	World Literature I	3			Gen Ed Requirement
BIOL	4411	Principles of Genetics with Lab	4			Replacing Ecology with Principles of Genetics w/Lab here to be better aligned for pre-health programs (BIOL 4411)
BIOL	2200	Concepts in Laboratory Analysis	2			
CHEM	3401	Organic Chemistry I with Lab	4			
GEEP	2001	General Educ. Enrich Program	0			
		Total	17			

Second Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
PHYS	2402	General Physics II with Lab	4			
CHEM	3402	Organic Chemistry II with Lab	4			
SPCH	2300	Speech Communication	3			Gen Ed Requirement
BIOL	2301	Nutrition	3			
HIST	1301	United States History I	3			
GEEP	2002	General Educ. Enrich Program	0			
		Total	17			

Junior Year

First Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
HIST	1302	United States History II	3			Gen Ed Requirement
BIOL	3411	Essentials of Cell / Molecular Biology	4			
BIOL	3111	Biology Seminar I	1			
BIOL	3441	Anatomy and Physiology I with Lab	4			
MATH	3305	Elementary Statistics	3			
SPAN	2301	Elementary Spanish I	3			Gen Ed Requirement
GEEP	3001	General Educ. Enrich Program	0			
		Total	18			

Second Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
SPAN	2302	Elementary Spanish II	3			
BIOL	3442	Anatomy and Physiology II with Lab	4			
BIOL	4112	Biology Seminar II	1			
CHEM	4404	Advanced Techniques in Molecular Biology and Biochemistry	4			
GEEP	3002	General Educ Enrich Program	0			
		Total	12			We want this semester to have the least credit hours so students can be studying for MCAT and DAT as well as getting application materials ready for May.

Senior Year

First Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
BIOL	4201	Research in Biology	2			
PSYC or SOCI	2300 or 2310	Introduction to Psychology or Introduction to Sociology	3			Gen Ed Requirement
HUMA	2300	Humanities	3			Gen Ed Requirement
RELI	1301	Survey of Religion and Philosophy	3			Gen Ed Requirement
MATH	2410	Calculus I	3			
PHED	1110	Fundamentals of Health & Fitness I	1			Gen Ed Requirement
GEEP	4001	General Educ. Enrich Program	0			
		Total	15			

Second Semester

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
BIOL	4331	Bioethics	3			
BIOL	2304	Medical Terminology*	3			
BIOL	4441	Microbiology with Lab	4			
BIOL		Translational Models in Research**	1			New Course
PHED	1111	Fundamentals of Health & Fitness II	1			Gen Ed Requirement
GEEP	4002	General Educ. Enrich Program	0			
		Total	12			

*Medical Terminology or other upper-level Biology Elective.

**Translational Models in Research or Current Topics in Biology to serve 1 credit hour upper-level Biology Electives.

TOTAL CUMULATIVE HOURS 124*

The number of total hours contingent upon, elective chosen

Courses Required to Satisfy a Minor-Optional (26 hours)

Code	Number	Title	Hours	Grade	Semester	Comments or Substitution
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BIOL	1411	General Biology I with Lab (Zoology emphasis)	4			
BIOL	1422	General Biology II with Lab (Botany emphasis)	4			
BIOL	2301	Nutrition	3			Replaced Ecology as removing that from being a core requirement. No lab needed
BIOL	3411	Essential of Cell/ Molecular Biology with Lab	4			
BIOL	4331	Bioethics	3			Replaces both Biology Seminars.
BIOL	4411	Principles of Genetics with Lab	4			
BIOL	4441	Microbiology with Lab	4			
		Total	26			

Student Signature

Date

Major Advisor

Date

Dean

Date