

Biology: Secondary Education

Degree Type

Bachelor of Science

Division Dean: Clay Barton, M.Ed.

Department Chair: Lindsay Boateng, Ph.D.

Professors: Bret Clark, Ph.D., Charles Horn, Ph.D.

Associate Professor: Valarie Burnett, Ph.D.

Assistant Professor: Lindsay Boateng, Ph.D.

Requirements for the **Major in Biology** with a concentration in **Secondary Education** (not including General Education Core).

Required for the Major

Item #	Title	Credits
BIO 111	Latin and Greek Bioscientific Terminology	1
BIO 121	Biological Science	4
BIO 122	Zoology	4
BIO 201	Botany	4
BIO 212	Microbiology	4
BIO 215	Human Anatomy and Physiology I	4
BIO 216	Human Anatomy and Physiology II	4
BIO 322	Genetics	4
BIO 331	Cell Biology	4
BIO 391	Investigative Biology	2
BIO 431	Ecology	4
CHE 113	General Chemistry I	4
CHE 114	General Chemistry II	4

One chemistry from of below

Item #	Title	Credits
CHE 230	Essentials of Organic Chemistry	3
CHE 231	Organic Chemistry I	3

Physics; one of the below

Item #	Title	Credits
PHY 101	Fundamentals of Physics I	4
PHY 213	Physics for Science and Engineering Students I	4

Other Requirements

Item #	Title	Credits
SCI 110	Introduction to Earth Science	4
SCI 321	Methods of Teaching Secondary Science	3
EDU 224	Foundation of Teaching and Learning	3
EDU 228	Foundations of Literacy	3
EDU 230	Human Development and Learning	3
EDU 232	Inclusive, Equitable, and Differentiated Instructional Practices	3
EDU 300	Assessment for Learning	3
EDU 342	Classroom Environment for Middle and High School Classrooms	3
EDU 350	Advanced Assessment	3
EDU 382	Technology and Teaching	3
EDU 455	Content Area Literacy in Middle and High Schools	3
EDU 480	Internship. (All Licensure Programs)	12
EDU 483	Internship Seminar (All Licensure Programs)	3
MAT 150	Precalculus Mathematics	4
MAT 200	Applied Statistics	3
	Total Credits	110