BACHELOR of SCIENCE DEGREE in SCIENCE EDUCATION (BIOLOGY, 6-12)

Department of Curriculum and Instruction
Information Sheet

NOTE: All College of Education Secondary Degree Programs are Florida Department of Education (DOE) and Council for Accreditation of Teacher Education (CAEP) approved. This State and CAEP approval represents the transferability of your teaching credentials from state-to-state. Test scores must be submitted to Office of Academic and Student Services (OASS) prior to the placement deadline.

Professional Education component courses offered in the College of Education: (3 credits each)

EDF	**2005**	**Introduction to the Teaching Profession** *(Requires 15-hour field component)*	EDF	3430	Ed. Meas. & Evaluation
			TSL	4324	ESOL Strategies for Content Area Teachers
EME	2040	Intro to Technology for Educators	SCE	4360	Science: Middle & Secondary School
EDF	3210	Applied Learning Theory	RED	4335	Content Read: Mid & Sec School
			ESE	**3940**	**Secondary School Effective Instruction*** *(Requires 90-hour field component)*

 *Must be programmed and taken the fall/spring semester prior to student teaching. Courses in bold are not offered in the summer.

Biology content courses offered through the C.E. Schmidt College of Science:

BSC	1011/L	Biodiversity + Lab	(4 cr.)	PSY	3234	Experimental Design & Statistical Inference	(3 cr.)
BSC	1010/L	Biological Principles + Lab	(4 cr.)				
CHM	2045/L	General Chemistry I + Lab	(4 cr.)	PCB	3063	Genetics	(4 cr.)
CHM	2046/L	General Chemistry II + Lab	(4 cr.)	PCB	4043	Principles of Ecology	(3 cr.)
CHM	2210	Organic Chemistry I	(3 cr.)				
PSC	2121	Physical Science	(3 cr.)				
MAC	2233	Methods of Calculus	(3 cr.)				
(See catalog for possible prerequisite)							
OCE	3008	Oceanography	(3 cr.) **OR** OCB	4633	Marine Ecology	(3 cr.)

Choose one: (3 – 4 credits)

MCB	3020/L	General Microbiology + Lab (4 cr.)
PCB	3023	Cell Biology (3 cr.)

Choose one: *(Permission of instructor required)* (4 credits)

PCB	4723/L	Comparative Animal Physiology + Lab (4 cr.)
BOT	4503/L	Principles of Plant Physiology + Lab (4 cr.)

Electives: (6-7 credits) **Choose from the following approved courses including at least 3 credits upper-division. Other upper-division electives may be selected with the preapproval of your advisor.**

BSC	2085/L	Anatomy & Physiology I / L	(4 cr.)	MCB	4603	Microbial Ecology (Davie)	(3 cr.)
BSC	2086/L	Anatomy & Physiology II / L	(4 cr.)	OCB	4043/L	Marine Biology + Field Studies and Lab	(4 cr.)
EVR	2017	Environment & Society	(3 cr.)				
ZOO	2203/L	Invertebrate Zoology /L	(5 cr.)	ZOO	4690/L	Comparative Vertebrate Morphogenesis	(5 cr.)
PCB	3352	Issues in Human Ecology	(3 cr.)				
BOT	3223/L	Vascular Plant Anatomy	(4 cr.)	BCH	3033	Biochemistry I	(3 cr.)
BOT	4404/L	Marine Botany	(4 cr.)	CHM	2211/L	Organic Chemistry II / L	(5 cr.)

Final Semester: (6-12 credits)

SCE	4944	Student Teaching: Science *(Full-time internship, to be completed during a fall or spring term)*

ALL COURSEWORK AND CERTIFICATION EXAMS FTCE: General Knowledge, Biology 6-12 Subject Area Exam (SAE), and Professional Education Exam (PEd) MUST BE COMPLETED PRIOR TO STUDENT TEACHING
Applications to Student Teach during the fall semester are due by January 31st
Applications to Student Teach during the spring semester are due by September 15th

PROGRAM ADMISSION REQUIREMENTS:
60 semester hours completed, with a 2.5 overall Grade Point Average (GPA); and passing scores on the General Knowledge test

Revised April 2023