

Program Map: BSED in Secondary Education (6-12)
Biology Education (121-124 credits)
College of Education

Name:

SID:

Advisor:

Start Date:

Catalog Date:

Expected Graduation Date:

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	Area A ENGL 1101	Composition I Pre-requisite: None	3	Area A ENGL 1102	Composition II Pre-requisite: ENGL 1101	3	
Area A MATH 1111*	College Algebra or test score Pre-requisite: None	3	MATH 1113	Pre-Calculus Pre-requisite: MATH 1111	3		
Area D BIOL 1107	Principles of Biology I Pre-requisite: None	3	BIOL 1108**	Principles of Biology II Pre-requisite: BIOL 1107/1107L	3		
Area D BIOL1107L	Principles of Biology I Lab Co-requisite: BIOL 1107	1	BIOL 1108L**	Principles of Biology II Lab Co-requisite BIOL 1108	1		
Area F EDUC 2000	Technology in Teaching & Learning Pre-requisite: None	3	Area F EDUC 2100	Reading and Writing Strategies Pre-requisite: None	3		
Area F EDUC 1103	First Year Experience for Future Educators Pre-requisite: None	2	Area F EDUC 2110	Investigating Critical & Contemporary Issues in Education Pre-requisite: None	3		
Fall Milestones		Total	Spring Milestones		Total		
		15			16		

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	PHYS 1111K	Introductory Physics I Pre-requisite: MATH 1113	4	Area D HIST 2111 or HIST 2112	Survey US History to Post Civil or Survey US History Post Civ-Present Pre-requisite: None	3	
Area D CHEM 1211	Principles of Chemistry I Pre-requisite: NONE	3	CHEM 1212	Principles of Chemistry II Pre-requisite: CHEM 1211/1211L	3	Secure Assessment Account	
Area D CHEM 1211L	Principles of Chemistry I Lab Co-requisite: CHEM 1211	1	CHEM 1212L	Principles of Chemistry II Lab Co-requisite: CHEM 1212	1	Complete Georgia Professional Standards Commission (GaPSC) Pre-Service Certification and Background Check	
Area B HUMN 1201	Critical Thinking & Communication Pre-requisite: None	3	Area E	Elective Pre-requisite: None	3	Apply for Admission to the Teacher Education Program (TEP)	
Area E PSYC 2103	Human Growth & Development Pre-requisite: None	3	Area F EDUC 2130	Exploring Teaching and Learning Pre-requisite: None	3		
Area F EDUC 2120	Exploring Socio-Cultural Influences in Teaching & Learning Pre-requisite: None	3	BIED 2201	Biology Literacy for Diverse Learners Pre-requisite: None	3		
Fall Milestones		Total	Spring Milestones		Total		
Take GACE Program Admission Exams		17	Retake GACE Program Admission Exams, if needed.		16		

Junior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	BIOL 3201	Molecular & Cell Biology Pre-requisite: BIOL1108/CHEM1212	3	BIOL 3301	Genetics Pre-requisite: BIOL 1108/1108L	3	
BIOL 3201L	Molecular & Cell Biology Lab Co-requisite: BIOL 3201	1	BIOL 3301L	Genetics Lab Co-requisite: BIOL3301	1	Apply for Student Teaching/ Clinical Practice Placement	
Area C	Elective Pre-requisite: None	3	BIOL 3401	Ecology and Evolutionary Biology Pre-requisite: BIOL 1108/1108L	3		
Area D CSCI/CISM 1130	Computer Applications Pre-requisite: None	3	BIOL 3401L	Ecology and Evolutionary Biology Lab Co-requisite: BIOL 3401	1		
Area E POLS 1101	American Government Pre-requisite: None	3	Area C	Elective Pre-requisite: None	3		
EDUC 3030	Teaching Exceptional Learners Pre-requisite: Admission to TEP	3	BIED 3002	Connections in Secondary Science Pre-requisite: Admission to TEP	3		
			EDUC 3200	Curriculum and Assessment Pre-requisite: Admission to TEP	3		
Fall Milestones		Total	Spring Milestones		Total		
Take GA Educator Ethics: Program Entry Exam (350)		16	Take GACE Content Exams Test I [026] and Test II [027] or Combined Test I and II [526]		17		

Senior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	BIOL 3321	Microbiology Pre-requisite: BIOL 1108 /1108L	3	EDUC 4475	Student Teaching/Clinical Practice Pre-requisite: Admission to TEP GaPSC Pre-Service Certificate Required	10	
BIOL 3321L	Microbiology Lab Co-requisite: BIOL 1108	1	EDUC 4476	Student Teaching Seminar Co-requisite: EDUC 4475	2	Apply for Graduation	
Area B AFRS 1501	Survey African American Experience Pre-requisite: None	2				Complete Exit Counseling (Financial Aid)	
EDUC 3040	Classroom Management and Ethics Pre-requisite: None	3				Complete Evaluation of Cooperating Teacher Survey	
BIED 4416	Teaching and Research in Secondary Biology Education Pre-requisite: Admission to TEP	3				Complete Program Graduate Survey	
BIED 4417	Practicum in Teaching Secondary Biology Education Co-requisite: EDUC 4416 Pre-requisite Admission to TEP	3					
Fall Milestones		Total	Spring Milestones		Total		
Take Georgia Educator Ethics: Program Exit Exam (360)		15	Submit edTPA		12		

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Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 hrs.

AFRS 1501 Survey of African-American Experience 2 hrs.
HUMN 1201 Critical Thinking & Communication 3 hrs.

Area C – Humanities/Fine Arts, and Ethics 6 hrs.

1. Select one of the following:

ENGL 2111 World Literature I 3 hrs.
ENGL 2112 World Literature II 3 hrs.
ENGL 2121 British Literature I 3 hrs.
ENGL 2122 British Literature II 3 hrs.
ENGL 2131 American Literature I 3 hrs.
ENGL 2132 American Literature II 3 hrs.
ENGL 2222 African American Literature 3 hrs.
PHIL 2010 Introduction to Philosophy 3 hrs.
PHIL 2030 Introduction to Ethics 3 hrs.

2. Select one of the following:

ARTS 1101 Introduction to Visual Art 3 hrs.
DNCE 2010 Dance Appreciation 3 hrs.
ENGL 2521 Introduction to Film 3 hrs.
HUMN 2011 Humanities 3 hrs.
MUSC 1101 Introduction to Music 3 hrs.
THEA 2101 Introduction to Theatre 3 hrs.

Area D – Natural Sciences, Math, & Technology 11 hrs.

1. Select one of the following:

BIOL 1107 Principles of Biology I 3 hrs.
BIOL 1108 Principles of Biology II 3 hrs.
CHEM 1211 Principles of Chemistry I 3 hrs.
CHEM 1212 Principles of Chemistry II 3 hrs.
CISM 1130 Computer Applications 3 hrs. or
CSCI 1130 Computer Applications 3 hrs.
CSCI 1301 Computer Science I 3 hrs.
ENVS 1140 Environmental Issues 3 hrs.

2. Select two of the following lab sciences:

BIOL 1107/1107L Principles of Biology I 4 hrs.
BIOL 1108/1108L Principles of Biology II 4 hrs.
CHEM 1211/1211L Principles of Chemistry 4 hrs.
CHEM 1212/1212L Principles of Chemistry 4 hrs.
PHYS 1111K Introductory Physics I 4 hrs.
PHYS 1112K Introductory Physics II 4 hrs.
PHYS 2211K Principles of Physics I 4 hrs.
PHYS 2212K Principles of Physics II 4 hrs.

Area E – Social Science 12 hrs.

POLS 1101 American Government 3 hrs.

1. Select one of the following:

HIST 2111 U.S. History to the Post-Civil War Period 3 hrs.
HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs.

2. Select two of the following:

AFRS 2000 Introduction to Africana Studies 3 hrs.
ANTH 1101 Introduction to Anthropology 3 hrs.
ECON 2105 Principles of Macro-Economics 3 hrs.
GEOG 1101 Introduction to Human Geography 3 hrs.
HIST 1111 World Hist to Early Modern Times 3 hrs.
HIST 1112 World History Early Modern Times to Pres 3 hrs.
POLS 2401 Global Issues 3 hrs.
PSYC 1101 Intro to General Psychology 3 hrs.
PSYC 2103 Human Growth & Development 3 hrs.
SOC 1101 Introduction to Sociology 3 hrs.
SOC 1160 Social Problems 3 hrs.

Distinctive Courses in this Major

EDUC 3030 Teaching Exceptional Learners 3 credits

This course is designed to prepare candidates to work collaboratively with families and school personnel to have a positive impact on the educational, social and behavioral development of all students, including those with a full range of disabilities and in a diverse society. The course focuses on knowledge of legislative mandates for serving exceptional students, characteristics of exceptionality, best practice in facilitating teaching and learning, and accountability through assessment of outcomes. **There are 60 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required.**

EDUC 3200 Curriculum and Assessment 3 credits

This course will engage students in the investigation of curriculum, instruction, and assessment development with an emphasis on student learning outcomes. This course will review assessment methods relative to constructing, evaluating and interpreting tests with an understanding on reliability, valid and fair measurements; descriptive and inferential statistics, and state competency testing. Students will cover knowledge management and methods for integrating technology into assessment practice. **There are 60 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required.**

BIED 4416 Teaching & Research in Secondary Biology Education 3 credits

This course is an examination and application of curricular issues, learning theories, teaching strategies, instructional materials, and assessment procedures for teaching secondary school biology in the multicultural and diverse classroom of today. The course emphasizes those practices recommended by research in biology education and the Next Generation Science Standards of the National Science Teachers Association (NSTA), which include inquiry and discovery through active learning. **The eportfolio is required. Admission to TEP required. Taken with BIED 4417.**

BIED 4417 Practicum in Teaching Secondary Biology Education 3 credits

This course is designed to provide teacher candidates with experience in a supervised school setting where they will show active involvement with mentor teachers in creating and teaching lessons and assessing student learning to guide instruction. Students will learn how to implement meaningful and engaging instruction for secondary students in biology using inquiry and discovery to develop critical thinking, problem solving, and scientific literacy skills. **There are 120 required field hours in this course. This course cannot be passed without verification of completion of field hours. Admission to TEP required. Taken with BIED 4416.**

EDUC 4475 Student Teaching/Clinical Practice 10 credits

Student teaching is a **630-hour field-based capstone requirement** for teacher certification and BSED candidates. Requirements for entry, grade level and/or content placement, and teaching experiences at the assigned school adhere to the most recent rules for teacher certification mandated by the GaPSC. **Taken with EDUC 4476.**

EDUC 4476 Student Teaching Seminar 2 credits

This seminar, taken with EDUC 4475 Student Teaching/Clinical Practice, provides students with structured support to meet final teacher preparation program requirements mandated by the GaPSC for teacher certification. **Completion of GACE assessments and submission of the teaching portfolio to edTPA are required to complete this course. Taken with EDUC 4475.**