

Majoring in Natural Resource Conservation

(352)-846-0847 or khaselier@ufl.edu

The Biology Education Certification

The **Biology Education Certification** track is a customized version of the **Individualized Program** that prepares students to seek professional teacher certification as grades 6-12 biology teachers through the UF Pro Teach M. Ed. Program. This track is rigorous and requires students to begin completing required science content courses early in their career.

Pre-requisite Courses – Students **must** complete the following courses prior to beginning Specified, Selected, or Planned courses (see following page). Students who wish to transfer from another institution (community college, State college, other university, etc.) must: 1) earn an Associate of Arts degree; 2) complete the **bolded** courses shown below; and 3) earn a 2.5 GPA or better in the prerequisite courses listed below.

Course Title	Number	Credit	Substitutes	Biology Education Certification
Any Psychology or Sociology Course	PSY#### or SYG####	3		
Microeconomics	ECO2023	3		
Survey of Calculus 1	MAC2233	3	MAC2311	X
Introduction to Statistics	STA2023	3		X
Principles of Biology 1 with lab	BSC2010 + BSC2010L	4		X
Principles of Biology 2 with lab	BSC2011 + BSC2011L	4	ZOO2010 + ZOO2010L, BOT2010 + BOT2010L	X
Chemistry 1 with lab	CHM2045 + CHM2045L	4	CHM2047 + CHM2047L	X
Applied Physics with lab	PHY2004 + PHY2004L	4		X
Effective Oral Communication	AEE3033C	3	SPC2608	
Any computer software or applications course	CGS####	3		

Course Title	Number	Credits	Term(s) Offered	Biology Education Certification
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Specified Core Courses (17 Credits)

Dendrology/Forest Plants	FNR3131C	3	Fall	X
Technical Writing	ENC2210	3	All Semesters	
Natural Resource Sampling	FNR3410C	3	Fall	
Natural Resource Policy and Economics	FNR4660	3	Fall	
Integrated Natural Resource Mgmt	FNR4623C	3	Spring	

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Selected Courses (12-14 Credits)

Forest Ecology	FOR3153C	3 credits	Fall	X
Wildlife of Florida or Vertebrate Zoology	WIS3402 or ZOO2303C	3 or 4	Fall or Fall	X
Forests, Conservation, and People	FOR3004	3	Fall	
Invertebrate Zoology or Principles of Entomology	ZOO2203C or ENY3005C	4 or 3	Fall or Fall, Spring, Summer	X

Planned Courses (23-26 Credits)

Functional Vert Anatomy or Animal Physiology	ZOO3713C or PCB4723C	5 or 4	Fall, Spring, Summer A or Fall, Spring	X
Genetics or Genetics	AGR3303 or PCB3063	4 or 3	Fall, Spring, Summer B or Fall, Spring	X
Basic Biology of Microorganisms with lab	MCB3020 + MCB3020L	5	Fall, Spring, Summer C	X
Chemistry 2 with Lab	CHM2046 + CHM2046L	4	Fall, Spring, Summer C	X
Organic Chemistry with Lab or Organic and Biochemistry	CHM2210 + CHM2210L or BCH3023	4 or 3	Fall, Spring, Summer C	X
Applied Physics 2 with Lab	PHY2005 + PHY2005L	4	Spring, Summer C	X

Other Directed Electives (as needed to reach 60 credits, consult advisor):

The Adolescent*	EDF3135	3	Fall, Spring, Summer A	
Integrating Technology*	EME4406	3	Fall, Spring	
I ESOL Strategies*	TSL4320	3	Summer A	
Global Issues in K-12 Edu.*	EDG4003	3	Spring	
Environmental Ed Program Development	FOR4070C	3	Fall of odd years	

* If taken as an undergraduate, these courses do not need to be taken again as part of the Pro Teach Master's program."