



B.A.E. Secondary Education (Biological Sciences) Catalog: 2002-2003

Initial Teacher Certification (ITC) program

Arizona State University, L1-13 Payne Hall

coe.asu.edu/oss

(480) 965-5555

This checksheet is for Secondary Education (Biological Sciences) majors in the College of Education. It should be used with the B.A.E. Secondary Education checksheet, which outlines the general studies requirements and the Initial Teacher Certification (ITC) program requirements.

Students in the College of Education have two catalog years: an ASU catalog year and a College of Education catalog year. Academic Specialization requirements are determined by a student's ASU catalog year, whereas ITC program courses are determined by the College's alternative catalog year.

Academic Specialization Admission Requirements

The following courses must be completed with a "C" or better **before** applying to the ITC program:

- BIO 187: General Biology I
- BIO 188: General Biology II

The following courses may be in progress when applying to the ITC but must be completed before starting the program:

- At least 12 hours of biology coursework

Academic Advising

For advising prior to admission into the ITC program, please contact:

Therese Aguayo EDB L1-13 (480) 965-5555
Edan Hunter EDB L1-13 (480) 965-5555

For advising after admission into the ITC program, please contact:

Tom Avants EDB L1-13 (480) 965-5555
Leslie Namerow EDB L1-13 (480) 965-5555

For advising related to your Academic Specialization in Biological Sciences, please contact:

Jan Mundy LS C206 (480) 727-6277
Susie Wentworth LS C206 (480) 727-6277

Additional Information

- All specialization courses must be completed prior to student teaching
- A "C" grade minimum is required in all academic specialization courses

Academic Specialization - Biological Sciences (62-67 hours)

Biology core

Course number & title	(8 hours)		
	Cr	GS	UD
BIO 187: General Biology I	4	SG	
BIO 188: General Biology II	4	SQ	

Biology

(22-23 hours)

All of the following are required:

BIO 320: Fundamentals of Ecology	3		X
BIO 340: General Genetics	4		X
BIO 345: Organic Evolution	3		X
BIO 360: Animal Physiology	4		X
PLB 308: Plant Physiology	4		X

Choose one of the following:

MIC 205: Microbiology	3	SG	
MIC 206: Microbiology Laboratory	1		
MIC 220: Biology of Microorganisms	3		
MIC 206: Microbiology Laboratory	1		

Electives – Part 1

(4 hours)

Choose one course from the following:

BIO 370: Vertebrate Zoology	4		X
BIO 385: Comparative Invertebrate	4		X
PLB 300: Comparative Plant Diversity	4	L/SG	X
PLB 310: The Flora of Arizona	4		X

Electives – Part 2

(minimum 6 hours)

Students cannot use BIO 100, BIO 120, BIO 201, BIO 202, BIO 241, BIO 300, BIO 319, PLB 108, PLB 320 to fulfill this requirement.

Chemistry

(9 hours)

All of the following are required:

Course number & title	Cr	GS	UD
CHM 113: General Chemistry	4	SQ	
CHM 115: General Chem. w/ Qualt. Anal.	5	SQ	

Mathematics

(3 hours)

MAT 170: Precalculus	3	MA	
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Geology

(3 hours)

Choose one of the following:

GLG 102: Introduction to Geology II	3		
GLG 300: Geology of Arizona	3		X

History

(3 hours)

Choose one of the following:

BIO 316: History of Biology	3	H	X
HPS 330: History of Biology	3	H	X

Physics

(4-8 hours)

Choose one of the following:

PHY 101: Introduction to Physics	4	SQ	
PHY 111: General Physics &	3	SQ	
PHY 113: General Physics Laboratory	1		
AND			
PHY 112: General Physics &	3	SQ	
PHY 114: General Physics Laboratory	1		

Teaching methods

The following required courses are considered part of your ITC program:

BIO 480: Methods of Teaching Bio.	3		X
BIO 482: Adv Methods of Teaching Bio.	3		X