

Name _____

Major Applied Biological Sciences

Degree BS

Applied Biological Sciences/Secondary Education Concentration

I. English Proficiency (6 hrs) (University requirement - "C" min required)	Hrs Cr		Trans from	Gr
	ASU	Tr		
ENG 101 First-Year Comp (3) and ENG 102 First-Year Comp (3) or, if eligible, ENG 105 Adv First-Year Comp (3) (see Catalog for eligibility requirements)				

Sub Total (I) _____

II. General Studies (35 hrs) (see Catalog for approved courses)
A. Humanities & Social Sciences (15 hrs) Combined requirement: Six hours in one area, nine hours in the other, and three hours must be upper-division.
Humanities/Fine Arts (6-9 hrs min.) (HU)

	ASU	Tr	Trans from	Gr

Social/Behavioral Sciences (6-9 hrs min) (SB)

	ASU	Tr	Trans from	Gr

Awareness Areas- Cultural, Global and Historical awareness areas must be satisfied. Courses that are listed for a core and awareness area may satisfy both requirements concurrently, as may courses that are listed for more than one awareness area.

C:	ASU	Tr	Trans from	Gr
G:				
H:				

B. Literacy/Critical Inquiry (6 hrs min)

L	ASU	Tr	Trans from	Gr
L:				

C. Natural Sciences (8 hrs min) SQ/SG- At least four hours must be SQ

SQ/SG: BIO 187 General Biology 1 SQ (4)	ASU	Tr	Trans from	Gr
SQ/SG: BIO 188 General Biology 2 SQ (4)				

D. Mathematical Studies (6 hrs min) One MA (mathematics course) and one CS (Computer/statistics/quantitative applications) course.

MA: MAT 210 Brief Calculus (3)	ASU	Tr	Trans from	Gr
CS: ABS 350 Applied Statistics or Equivalent (3)				

Sub Total (II) _____

III. Applied Biological Sciences Core (*May be cross listed with General Studies)

ABS 150 Environmental Biology (3)	ASU	Tr	Trans from	Gr
ABS 301 Technology and Biology (2)				
ABS 302 Policy and Biology (2)				
ABS 312 Structure & Function (4)				
ABS 350 Applied Statistics or equivalent (3) CS				
BIO 187 General Biology I (4) SG				
BIO 188 General Biology II (4) SQ				
BIO 340 General Genetics (4)				

Choose between the two courses below:

BIO 360 Animal Physiology (3)	ASU	Tr	Trans from	Gr

OR

PLB 308 Plant Physiology (4)	ASU	Tr	Trans from	Gr
MAT 210 Brief Calculus (3) MA				

Total: (32 - 33)

IV. Secondary Education Concentration Biology Coursework	Hrs Cr		Trans from	Gr
	ASU	Tr		

Choose between the two courses below:

ABS 207 Applied Plant Taxonomy (3)	ASU	Tr	Trans from	Gr

OR

ABS 355 Vertebrate Zoology (4)	ASU	Tr	Trans from	Gr
ABS 370 Ecology (3)				

MIC 205 Microbiology (3)	ASU	Tr	Trans from	Gr
MIC 206 Microbiology Laboratory (1)				

ABS 490 Applied Biological Sciences Seminar (1)	ASU	Tr	Trans from	Gr
CHM 113 General Chemistry SQ (4)				

CHM 116 General Chemistry SQ (4)	ASU	Tr	Trans from	Gr
PHY 101 Introduction to Physics SQ (4)				

Approved Upper-Division Electives (2)	ASU	Tr	Trans from	Gr

Total: (25 - 26)

Note: BIO 187, BIO 188, MAT 210, and ABS 350 must be used for both General Studies and concentration requirements to allow graduation within 120 hours.

V. Secondary Education Course Work

BIO 480 Methods of Teaching Biology (3)	ASU	Tr	Trans from	Gr
BIO 482 Adv Methods of Teaching Bio (3)				

EDC 350 Educ Tech I: Applications (1)	ASU	Tr	Trans from	Gr
EDC 351 Educ Tech II: Instr and Eval (1)				

EDC 352 Educ Tech III: Design (1)	ASU	Tr	Trans from	Gr
EDC 494 ST: Professional Knowledge (2)				

EDP 303 Human Development (3) L	ASU	Tr	Trans from	Gr
EDP 310 Educational Psychology (3) SB				

RDG 301 Literacy & Instr in Cont Areas (3)	ASU	Tr	Trans from	Gr
SED 403 Middle and Secondary School				

Principles, Curriculum, and Methods (3)	ASU	Tr	Trans from	Gr
SED 478 Std Teaching in Sec Schools (10-12)				

SED 496 Field Experience (0)	ASU	Tr	Trans from	Gr
SPE 394 ST: Inclusion Practices at Sec Lvl (3)				

Total: (36-38)

Strongly Recommended:

MCE 446 Understanding the Culturally Diverse Child (3) C
 SPE 311 Orientation to Education of Exceptional Children (3) SB

TOTAL PROGRAM HOURS:

I. English	ASU	Tr	Trans from	Gr
II. General Studies				
III. ABS Core				
IV. Secondary Educ/Biology Coursework				
V. Secondary Educ Course Work				
Total Program Hours				

Graduation Requirements (Regular Curriculum -120 hours)

Total upper-division hours _____ (minimum required - 45)