Name

I. English Proficiency (6 hrs)	Hrs	Cr	Trans		IV. Secondary Education Concentration	Hrs	<u>Cr</u> Trans	
(University requirement - "C" min required)	ASU	Tr	from	Gr	Biology Coursework	ASU 2	Tr from	
ENG 101 First-Year Comp (3) and								
ENG 102 First-Year Comp (3) or, if eligible,					Choose between the two courses below:			
ENG 105 Adv First-Year Comp (3)					ABS 207 Applied Plant Taxonomy (3)			
(see Catalog for eligibility requirements)					OR			
Sub Total (I)		_			ABS 355 Vertebrate Zoology (4)			_
<b>II. General Studies</b> (35 hrs) (see Catalog for app					ABS 370 Ecology (3)			_
<b>A. Humanities &amp; Social Sciences</b> (15 hrs) Combined nine hours in the other, and three hours must be upper-div		ient: Six	: hours in o	ne area,	MIC 205 Microbiology (3)			_
Humanities/Fine Arts (6-9 hrs min.) (HU)	,	-	1		MIC 206 Microbiology Laboratory (1)			$\rightarrow$
					ABS 490 Applied Biological Sciences Seminar (1)			_
					CHM 116 General Chemistry SQ (4)			$\rightarrow$
					PHY 101 Introduction to Physics SQ (4)			$\rightarrow$
Social/Behavioral Sciences (6-9 hrs min) (SB)					Approved Upper-Division Electives (3)			_
					Total: (22 - 23)			
					Note: BIO 187, BIO 188, MAT 210, and ABS 350	must be use	ed for both C	Jen
Awareness Areas - Cultural, Global and Historical awareness listed for a core and awareness area may satisfy both requirements c					Studies and concentration requirements to allow gr	aduation wi	thin 120 hor	ars.
for more than one awareness area.	oncurrenti	y, as may	courses inai	are listea	General elective required for all Freshman:			
C:					ASU 101: The ASU Experience (1)			
G:					V. Secondary Education Course Work			
H:					BIO 480 Methods of Teaching Biology (3)			
B. Literacy/Critical Inquiry (6 hrs min)		1		· · · ·	BIO 482 Adv Methods of Teaching Bio (3)			1
L					<ul> <li>EDC 354 Educational Media in the Classroom (3)</li> </ul>			
L:					<ul> <li>EDC 405 Classroom Management K-12 (3)</li> </ul>			+
C. Natural Sciences (8 hrs min) SQ/SG- At least four he	ours mus	t be SQ		1 1	EDC 425 Integrated Learning Exp IV:			-
SQ/SG: BIO 187 General Biology 1 SG (4)					Adv. Mgt & Prof. Knowledge (2)			-
SQ/SG: BIO 188 General Biology 2 SQ (4) D. Mathematical Studies (6 hrs min) One MA (mathem					EDC 355 Accom. Instruction for Diverse Learners (3			+
(Computer/statistics/quantitative applications) course.	ancs coi	irse) an	a one CS		<ul> <li>EDP 311 Educational Psychology for</li> </ul>			-
MA: MAT 210 Brief Calculus (3)					- Future Teachers (3)			-
CS: ABS 350 Applied Statistics or Equivalent (3)					EDP 313 Childhood and Adolescence (3)			-
Sub Total (II)			1		RDG 301 Literacy & Instr in Cont Areas (3)			-
III. Applied Biological Sciences Core (*May be cross listed with General				SED 403 Middle and Secondary School				
Studies)			1	· · · ·	Principles, Curriculum, and Methods (3)			-
BIO 187 General Biology I (4) SG					· · · · · · · · · · · · · · · · · · ·			-
BIO 188 General Biology II (4) SQ					ELL 415 Structured English Immersion			+
ABS 270 Sustainable Biological Systems (3)					(SEI) Methods (3)			+
ABS 302 Ethical and Policy Issues in Biology (2)					SDE 474 (0-1)			_
BIO 340 General Genetics (4)					SDE 484 (10)			_
ABS 350 Applied Statistics or Equivalent (3) CS					<ul> <li>Total: (43-51)</li> <li>Strongly Recommended:</li> </ul>			
Choose one of the three courses below:					_ MCE 446 Understanding the Culturally Diverse Ch	nild (3) C		
BIO 360 Animal Physiology (3)					SPE 311 Orientation to Education of Exceptional O	Children (3)	SB	
OR					ELL 416 Advanced SEI Methods (3)			
ABS 498 Applied Plant Physiology (4)								
OR					TOTAL PROGRAM HOURS:	-	-	
ABS 311 Applied Cell Biology (3)					I. English			
MAT 210 Brief Calculus (3) MA					II. General Studies			
CHM 113 General Chemistry (4) SQ					III. ABS Core			
Total: (30 - 31)					IV. Secondary Educ/Biology Coursework			
General Elective required for all Freshn	nen				V. Secondary Educ Course Work			
General Elective regulied for all Pressin								

Graduation Requirements (Regular Curriculum –120 hours) *Total upper-division hours\_\_\_\_\_ (minimum required –45)* 

Major Applied Biological Sciences

Degree BS

## C atrati . **D' 1** . 10. ..