Name_

ABS 311 Applied Cell Biology

Total: (30)_

Major Applied Biological Sciences

Applied Biological Sciences Concentration

Degree BS Page 1 of 1

Gr

I. English Proficiency (6 hrs)		Hrs Cr			IV. Applied Biological Sciences Concentration				
(University requirement - "C" min required)	ASU	Tr	Trans from	Gr		Hrs	s Cr	Trans	
ENG 101 First-Year Comp (3) and	7150	17	Hom	0,		ASU	Tr	from	
ENG 102 First-Year Comp (3) or, if eligible,					ABS 355 Vertebrate Zoology (4)				
ENG 105 Adv First-Year Comp (3)					ABS 370 Ecology (3)				
(see Catalog for eligibility requirements)					ABS 490 Applied Biological Sci. Seminar (1)				
Sub Total (I)				1	CHM 116 General Chemistry SQ (4)				
II. General Studies (35 hrs) (see Catalo	og for ann	roved a	courses)		Choose between the organic chemistry cou	rse comb	oinatior	ıs below:	
					CHM 231 Elementary Organic Chemistry (3)				
A. Humanities & Social Sciences (15 hrs) Combinine hours in the other, and three hours must be upper-		nent: Six	hours in one	e area,	CHM 235 Elementary Organic Chem. Lab (1)				
Humanities/Fine Arts (6-9 hrs min.) (HU)					OR				
					2. CHM 233 General Organic Chemistry (3)				
					CHM 234 General Organic Chemistry (3)				
					CHM 237 General Organic Chemistry Lab (1)				
Social/Behavioral Sciences (6-9 hrs min) ((SB)				CHM 238 General Organic Chemistry Lab (1)				
					Choose between the organic physics cours	e combin	ations	below:	
					1. PHY 101 Introduction to Physics (4)				
					OR				_
Awareness Areas - Cultural, Global and Historical awaren	ness areas mus	t he satisf	ied Courses t	hat are	2. PHY 111 General Physics (3)				_
listed for a core and awareness area may satisfy both requireme for more than one awareness area.					PHY 112 General Physics (3)				_
C:					PHY 113 General Physics Lab (1)	+	<u> </u>		_
G:					PHY 114 General Physics Lab (1)	+			_
H:					1111 114 Ocheral Filysics Lab (1)	!		L	_
B. Literacy/Critical Inquiry (6 hrs min)				u .	Approved Electives in Applied Biologics	al Scienc	es and	Science (
L:					ripproved Electives in ripplied Biologica	Belefic		Science (
L:							+		
C. Natural Sciences (8 hrs min) SQ/SG- At lea	ant form hour		. 50	1		-	<u> </u>		-
SQ:	usi jour nour	s musi v	e sQ			+	<u> </u>		_
SG:									_
D. Mathematical Studies (6 hrs min) One M (Computer/statistics/quantitative applications) course.	IA (mathema	tics cour	rse) and one	CS					
MA:									_
CS:						1	†		-
Sub Total (II)						1	<u> </u>		_
III. Applied Biological Sciences Core	(*May be cr	oss liste	d with Gener	ral	Total: (32-40)		<u> </u>		_
Studies)	(May be er	033 11310	a wan Gener		General Elective required for all Freshman:				_
BIO 187 General Biology I (4) SG					ASU 101 The ASU Experience (1)	1			-
BIO 188 General Biology II (4) SQ								1	_
ABS 270 Sustainable Biological Systems (3)					TOTAL PROGRAM HOURS:				-
ABS 302 Ethical and Policy Issues in Biology (2)					I. English				-
BIO 340 General Genetics (4)					II. General Studies	+	<u> </u>		_
ABS 350 Applied Statistics or Equivalent (3) CS					III. ABS Core	1	†		-
MAT 210 Brief Calculus (3) MA					IV. ABS Concentration		<u> </u>		_
CHM 113 General Chemistry (4) SQ					Upper-Division Electives		<u> </u>		_
Choose one of the three courses below:					TOTAL PROGRAM HOURS	-	+		_
BIO 360 Animal Physiology (3)					Graduation Requirements (Regular Curric	ulum 1°	10 hour	·c)	_
OR					Total upper-division hours (minimum requ			<i>3)</i>	
ABS 498 Applied Plant Physiology					Total apper-airision nours (minimum requ	cu - 4.	′)		
OP									