

BIOLOGY AND SOCIETY

A Biology Department Major Arizona State University

Biology and Society is an emphasis track within ASU's Bachelor's of Science in Biology program. It promotes the multi-disciplinary study of the biological sciences and their relevance to society, bringing together students and faculty from diverse departments to pursue interdisciplinary curricular and research opportunities.

I.	BIO 193 Introductory Biology	4
	or	
	BIO 181 and 182 General Biology	(8)
II.	BIO 311 Biology and Society	3
	BIO 320 Fundamentals of Ecology <i>or</i> BIO 345 Organic Evolution	3
	BIO 340 General Genetics <i>or</i> BIO 341 Genetic Analysis	4 (5)
	BIO 419 Research Colloquium	3
	Additional Research (e.g., BIO 484, BIO 495, BIO 499 or HON 493)	3

The remaining courses are determined by the student in consultation with a Biology and Society advisor, and must be distributed in the following areas:

III.	Upper division electives from BIO, PLB, MIC or LSC (West)	12
IV.	Interface courses: at least one 3 hour course from each of the three areas of Ethics, History or Philosophy of Science, and Science in Contemporary Society (see back page)	12
V.	Related Fields: Physical sciences (especially Chemistry)	11
	An approved course in statistics	3-4
VI.	Math Proficiency: MAT 210 Brief Calculus (or any Calculus course)	3

*For further information, please contact Rita Yordy at (480) 965-8927 or rita.yordy@asu.edu.
Stop by the Biology and Society office in LSC-206, or visit our website at
<http://lsvl.la.asu.edu/biosoc/>*

BIOLOGY AND SOCIETY PROGRAM INTERFACE COURSE REQUIREMENTS

must take at least one course from each of the three areas for a total of 12 hours. Please note that while these specific courses will fulfill the requirement without further approval, students may propose other courses as well. We will carefully review any courses proposed for their fit with rationale and objectives outlined below.

ETHICS

Courses in this list include rigorous analysis of ethics and values in the context of the products and process of life sciences.

BIO 394/HPS 394 Biomedical ethics	PHI 310 Environmental Ethics
BIO 416/HPS 410 Professional Values in Science	PHI 335 History of Ethics
PHI 305 Ethical Theory	REL 494 Bioethics
PHI 306 Applied Ethics	

HISTORY AND PHILOSOPHY OF SCIENCE

Courses in this interface area should focus 1) on the development of science over time and the way science changes with and within society or 2) promote a deep understanding and appreciation of the nature of scientific arguments and logic, and of what counts as evidence in science.

BIO 316/HPS 330 History of Biology	HPS 323 History of Science
BIO 318/HPS 331 History of Medicine	PHI 312 Theory of Knowledge
HIS 309/HPS 325 History of Chinese Science	PHI 314 Philosophy of Science
HIS 369 Exploration and Empire	PHI 394 Philosophy of Biology
HPS 322 History of Science	

SCIENCE IN CONTEMPORARY SOCIETY

Students should be exposed to the methods of inquiry and results in the social sciences that explore the contemporary interactions between biology and society. Studies of economics, politics, law, anthropology, etc., are valuable here, if they clearly recognize and analyze the current issues relating to both science and society, not just science.

BIO 302 Cancer and Heart Disease	BIO 394/HUM 371/HPS 311 Origins: Evolution and Creation
BIO 303 Radiation and Life	BIO 494/HIS 488 Fire and Society
BIO 304 Radiation Medicine and Biology	PGS 306 Environmental Psychology
BIO 394/AFR 394/ASB 394 Genes, Race and Society	SOC 331 Environmental Sociology
BIO 394/HPS 332/HUM 372 Darwinian Revolution	SOC 394 Sociology of Science

**DEPARTMENT OF BIOLOGY
CURRICULUM CHECKSHEET**

ARIZONA STATE UNIVERSITY
COLLEGE OF LIBERAL ARTS AND SCIENCES (CLAS)

1998-2000 CATALOG
Your catalog year:

NAME				ASU ID			ADVISOR				
DEGREE B.S.		MAJOR BIOLOGY		EMPHASIS BIOLOGY & SOCIETY			This checksheet is a guide to completing the appropriate coursework for this major. Please reference the catalog for specific requirements. ASU students are required to file a Declaration of Graduation before completion of 87 credit hours.				
COURSE PREFIX & NO.		Sem Hrs.	%	Upper Div.	COURSE PREFIX & NO.		Se m Hrs	%	Upper Div.	TGECC CERTIFICATION 9 YES 9 NO	
PROFICIENCY REQUIREMENTS				MAJOR REQUIREMENTS (min 44 hr; C min req in all UD hrs)						UNIVERSITY GENERAL STUDIES CORE AREAS (cross-listed from left 2 columns)	
FIRST-YEAR COMPOSITION				I. BIO 193 or BIO 181		4					LITERACY AND CRITICAL INQUIRY
ENG 101	3			& BIO 182		4					
ENG 102	3			II. BIO 311 Biology and Society		3			3	L:	
FOREIGN LANGUAGE				BIO 320 Fundamentals of Ecology		3			3		L (upper div.):
101	4			or BIO 345 Organic Evolution (445)						NUMERACY	
102	4			BIO 340 or BIO 341 Genetics		4/5			4/5	MA: (Calculus)	
201	4			BIO 419 Research Colloquium		3			3	CS: (Statistics)	
202	4			Research (e.g., BIO 499, HON 493)		3			3		
MATHEMATICS				III. INTERFACE REQUIREMENTS (12 hours with at least 3 hrs from each of the three areas of Ethics, History or Philosophy of Science, & Societal Issues. See back page.)						HUMANITIES/FINE ARTS (3 or 2 from dist.)	
MAT										(usually satisfied by CLAS Humanities distribution	
MAT 210 (or any calculus)				3						requirement - see catalog)	
PROFICIENCY TOTALS											
CLAS DISTRIBUTION REQUIREMENTS (see catalog for specifics)				IV. ELECTIVE COURSES 12 UD hours BIO/PLB/MIC/LSC						(usually satisfied by CLAS Social/Behavioral distribution	
HUMANITIES (5, at least 3 from CLAS depts., min 2 CLAS UD, see back page)										requirement - see catalog)	
1.	3										
2.	3										
3.	3									SCIENCES	
4.	3		3	RELATED AREAS REQUIREMENTS						(satisfied by supplemental requirements of major)	
5.	3		3	I. PHYSICAL SCIENCES (esp. CHM) 11 hours minimum							
SOCIAL/BEHAVIORAL (5, from 2 or 3 CLAS depts., min 2 UD, see back page)										UNIVERSITY GENERAL STUDIES AWARENESS AREAS (3 credits in each area)	
1.	3									CULTURAL DIVERSITY	
2.	3									GLOBAL (For Lang. 201 or 202 may satisfy)	
3.	3									HISTORICAL	
4.	3		3	II. STATISTICS (rec Bio 415) 3 hrs min							
5.	3		3								
DISTRIBUTION TOTALS										SEMESTER HOUR TALLY	
ELECTIVES (Courses which may satisfy only Total or UD req.)										Hrs UD	
										PROFICIENCY TOTALS	
										DISTRIBUTION TOTALS	
										ELECTIVES TOTALS	
										MAJOR TOTALS	
										TOTAL SEM. HRS (min. 120)	
										TOTAL UPPER DIVISION (min 45)	
										ADDITIONAL REQUIREMENTS: _____	
										30 HOURS AT ASU	
										MIN. GPA 2.00	

CLAS DISTRIBUTION REQUIREMENTS

HUMANITIES

At least 9 of the 15 required hours must come from the following departments. 6 hours must be upper division (300 level or higher): AFH*, CSH, ENG (Literature courses only), HUM, PHI, HPS, REL, WST** (WST 413, 464, 470 only), Department of Languages & Literatures - FLA 150 or any upper division literature or civilization course (e.g., SPA 325). The remaining 6 hours may come from the prefixes listed above or any of the following departments: APH, ARS, DAH, HML, MUS, THE, HON (171 only).
Note: no studio or performance classes.

SOCIAL AND BEHAVIORAL SCIENCES

The 15 required hours must be taken from at least two but from no more than three of the following departments. Six hours must be upper division: AFS, ASB, CSS, ECN, GCU, HIS, HON (172 only), POS, PGS, SOC, WST** (not WST 413, 464, 470).

*For students in the 99-00 and after catalogs. ** For students in the 98-99 and after catalogs.