

## **ADVISING WORKSHEET**

BACHELOR OF ARTS DEGREE MAJOR IN BIOLOGY General Bulletin 2013-2015

TRA	NSFER	INSTI	TUTION	N(S):	

Montana State University Billings Advising Center Phone: 406-657-2240 Fax: 406-657-2302 advising@msubillings.edu

www.msubillings.edu/advise/

Name		
Student ID #		

## GENERAL EDUCATION REQUIREMENTS - SEE ATTACHED PAGE FOR SPECIFIC COURSES

<b>General Education Category</b>	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits) M 171 or STAT 216 – Major requirement					
B. English (3 credits)	WRIT 101				
C. Communication & Information Literacy (3 credits)					
Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab)					
BIOB 160/161 & CHMY 141 – Major requirements					
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits)					
B. History (3 credits)					
Category IV: Cultural Diversity (3 credits)					
Category V: Arts & Humanities (6 credits) A. Fine Arts (3 credits)					
B. Humanities (3 credits)					
D. Humamues (5 credits)					

A minimum grade of "C-"is required in all General Education courses.

Note: Certain degrees may require a minimum grade of "C" in General Education courses.

Students should consult with their advisors to determine if specific courses are necessary in order to satisfy the General Education requirements within this program.

 $Certain\ courses\ in\ this\ program\ have\ prerequisites;\ students\ should\ check\ the\ course\ descriptions\ in\ the\ General\ Bulletin\ for\ required\ prerequisites.$ 

Revie	ewed:						

## GENERAL EDUCATION REQUIREMENTS

CATEGO	RY I: (	GLOBAL ACADEMIC SKILLS	9 credits
Students	are req	uired to take one course from each sub	category
Subcateg	gory A	- Mathematics	3 credits
M	105	Contemporary Mathematics	3
M	114	Extended Technical Mathematics	3
M	121	College Algebra	3
M	122	College Trigonometry	3
M	131	Mathematics for Elementary Teacher	rs II 3
M	143	Finite Mathematics	4
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
Subcates	gory B	- English	3 credits
WRIT `	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3
WRIT	201	College Writing II	3
WRIT	220	Business & Professional Writing	3
WRIT	221	Intermediate Technical Writing	3
		- Communication & Information Litera	
BMIS	150	Computer Literacy	3
COMX	111	Introduction to Public Speaking	3
COMX	115	Introduction to Interpersonal Commi	
LSCI	125	Research in the Information Age	3
Students	are req	NATURAL SCIENCES 6 cr. lecture of uired to take one course from each subsequenting lab or SCIN 101, 102, 103, 103, 103, 103, 103, 103, 103, 103	category and
Students at least o <b>Subcate</b> s	are req ne corr gory A	uired to take one course from each sub responding lab <u>or</u> SCIN 101, 102, 103 d – <b>Life Sciences</b>	category and \$104 3-4 credits
Students at least o <b>Subcates</b> BIOB	are req one corr <b>gory A</b> 101	nuired to take one course from each sub responding lab <u>or</u> SCIN 101, 102, 103 of <b>Life Sciences</b> Discover Biology	category and \$104 3-4 credits 3
Students at least o <b>Subcates</b> BIOB BIOB	are req one corr gory A 101 102	ruired to take one course from each sub- responding lab <u>or</u> SCIN 101, 102, 103 of <b>Life Sciences</b> Discover Biology  Discover Biology Lab	category and \$104  3-4 credits 3
Students at least o Subcates BIOB BIOB BIOB	are req one corr gory A 101 102 <b>160</b>	uired to take one course from each sub responding lab <u>or</u> SCIN 101, 102, 103 of <b>Life Sciences</b> Discover Biology Discover Biology Lab <b>Principles of Living Systems</b>	category and & 104 3-4 credits 3 1 3
Students at least o Subcates BIOB BIOB BIOB BIOB	are req one corr gory A 101 102 160 161	uired to take one course from each sub responding lab or SCIN 101, 102, 103 of — Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab	3-4 credits 3 104 3-4 credits 3 1 3 1
Students at least o Subcates BIOB BIOB BIOB BIOB BIOB BIOB SUBCates	are req one corr gory A 101 102 160 161 gory B	uired to take one course from each sub responding lab or SCIN 101, 102, 103 of — Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab — Physical Sciences	3-4 credits 3-4 credits 3 1 3 1 3-4 credits
Students at least o Subcates BIOB BIOB BIOB BIOB SUBCATES SUBCATES ASTR	are req one corr gory A 101 102 160 161 gory B 110	uired to take one course from each sub responding lab or SCIN 101, 102, 103 of – Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  – Physical Sciences Introduction to Astronomy	3-4 credits 3 1 3-4 credits 3 1 3 3 1 3-4 credits
Students at least of Subcates BIOB BIOB BIOB BIOB Subcates ASTR ASTR	are req one corr gory A 101 102 160 161 gory B 110 111	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab	3-4 credits 3 1 3-4 credits 3 1 3 1 3-1 3-4 credits
Students at least of Subcates BIOB BIOB BIOB SUBCATES ASTR CHMY	are require corrigory A 101 102 160 161 gory B 110 111 121	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry	3-4 credits 3 1 3-4 credits 3 1 3 1 3-3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students at least o Subcates BIOB BIOB BIOB SUbcates ASTR ASTR CHMY	are req me corr gory A 101 102 160 161 gory B 110 111 121 122	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry L	3-4 credits 3 1 3-4 credits 3 1 3 1 3-4 credits 3 1 3-4 credits
Students at least o Subcates BIOB BIOB BIOB Subcates ASTR CHMY CHMY	are req me corr gory A 101 102 160 161 gory B 110 111 121 122 141	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students at least o Subcates BIOB BIOB BIOB SUBCATES ASTR CHMY CHMY CHMY CHMY	are req me corr gory A 101 102 160 161 gory B 110 111 121 122 141 142	Duired to take one course from each subsession ding lab or SCIN 101, 102, 103 of Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1
Students at least o Subcates BIOB BIOB BIOB Subcates ASTR CHMY CHMY CHMY GEO	are require correspond to 1 102 160 161 gory B 110 111 122 141 142 101	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students at least o Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO	are require correspond to the corresponding to the	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology La	3-4 credits 3 1-3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 ab 1 3 boratory 1
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY	are require correspond to the corresponding to the	Discover Biology Discover Biology Discover Biology Principles of Living Systems Principles of Living Sy	3-4 credits 3 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 ab 1 3 boratory 1 Lab 1
Students at least o Subcates BIOB BIOB BIOB Subcates ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY GPHY	are require correspond to the correspond of the	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography	3-4 credits 3 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 boratory 1 Lab 1 3
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX	are require correspond to the correspond of the	Discover Biology Lab Principles of Living Systems Principles of Living Systems Principles of Living Systems Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Georgraphy Introduction to Physical Geography Our Physical World	3-4 credits 3 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 ab 1 3 boratory 1 Lab 1 3 3
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX	are require correspond to the correspond of the	Discover Biology Lab Principles of Living Systems Principles of Living Systems Principles of Living Systems Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Our Physical World	3-4 credits 3 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 ab 1 3 boratory 1 Lab 1 3 3 1
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX	are require corr gory A 101 102 160 161 gory B 110 111 122 141 142 101 102 111 103 104 205	Discover Biology Discover Biology Discover Biology Discover Biology Lab Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 3 1 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GHO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX	are require corr gory A 101 102 160 161 gory B 110 111 122 141 142 102 111 103 104 205 206	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World College Physics I College Physics I Lab	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1 1 3 1
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX PHSX	are require corr gory A 101 102 160 161 gory B 110 111 122 141 142 101 102 111 103 104 205 206 105	Discover Biology Discover Biology Discover Biology Discover Biology Lab Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World College Physics I College Physics I Lab Fundamentals of Phys Sci	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1 3 1 1 3 1 1 3 1 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX PHSX PHSX PHSX	are require corr gory A 101 102 160 161 gory B 110 111 122 141 142 101 102 111 103 104 205 206 105 106	nuired to take one course from each sub- responding lab or SCIN 101, 102, 103 or  Life Sciences  Discover Biology Discover Biology Lab Principles of Living Systems Principles of Living Systems Lab  Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World College Physics I College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1 1 3 1 1 3 1 1 3 1 3 1 3 1
Students at least of Subcates BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY PHSX PHSX PHSX PHSX PHSX PHSX PHSX PHSX	are require correspond to the corresponding to the	Discover Biology Discover Biology Discover Biology Discover Biology Lab Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to General Chemistry Introduction to General Chemistry Introduction to General Chemistry L College Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World College Physics I College Physics I Lab Fundamentals of Phys Sci	3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3-4 credits 3 1 3 1 3 1 3 1 1 3 1 1 3 1 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1

CATEGO	RY III:	SOCIAL SCIENCES AND HISTORY	6 credits
Students	are requ	uired to take one course from each subca	itegory
Subcate	gory A -	- Social Sciences	3 credits
ANTY	217	Physical Anthropology & Archeology	3
<b>BGEN</b>	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workpla	ace 3
<b>ECNS</b>	201	Principles of Microeconomics	3
<b>ECNS</b>	202	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
GPHY	141	Geography of World Regions	3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to Comparative Government	ent 3
PSYX	100	Introduction to Psychology	3
PSYX	231	Human Relations	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3

Subcate	gory B	- History	3 credits
HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	101	Western Civilization I	3
HSTR	102	Western Civilization II	3
HSTR	103	Honors Western Civilization I	3
HSTR	104	Honors Western Civilization II	3
PSCI	230	Introduction to International Relations	
1501	200		, .
CATEGO	RY IV:	CULTURAL DIVERSITY	3 credits
A&SC/WG	ss 274	Women, Culture, and Society	3
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
COMX	212	Introduction to Intercultural Commun	
<b>GPHY</b>	121	Human Geography	3
HTH	270	Global Health Issues	3
LIT	230	World Literature Survey	3
MUSI	207	World Music	3
NASX	105	Introduction to Native American Stud	ies 3
NASX	205	Native Americans in Contemporary S	
PHL	271	Philosophy & Religion of India	3
PHL	272	Philosophy & Religion of China/Tibe	t/Japan 3
REHA	201	Introduction to Diversity in Counselin	
RLST	170	The Religious Quest	3
SPNS	150	The Hispanic Tradition	3
		Ī	
		ARTS & HUMANITIES	6 credits
Students	are req	uired to take one course from each subc	rategory
Students Subcate	are req gory A	uired to take one course from each subc – <b>Fine Arts</b>	ategory 3 credits
Students Subcate ARTZ	<i>are req</i> <b>gory A</b> 101	uired to take one course from each subc <b>- Fine Arts</b> Art Fundamentals	ategory 3 credits 3
Students Subcate ARTZ ARTZ	are req <b>gory A</b> 101 105	uired to take one course from each subc – <b>Fine Arts</b> Art Fundamentals Visual Language-Drawing	ategory 3 credits 3 3
Students Subcate ARTZ ARTZ ARTZ	are req gory A 101 105 131	uired to take one course from each subce  - Fine Arts  Art Fundamentals  Visual Language-Drawing  Ceramics for Non-majors	ategory 3 credits 3 3 3
Students Subcate ARTZ ARTZ ARTZ ARTZ CRWR	are req gory A 101 105 131 240	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop	ategory 3 credits 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM	are req gory A 101 105 131 240 160	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema	ategory 3 credits 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT	are req gory A 101 105 131 240 160 270	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature	3 credits 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM	are req gory A 101 105 131 240 160	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation	3 credits 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT	are req gory A 101 105 131 240 160 270	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music	3 credits 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART	are req gory A 101 105 131 240 160 270 260	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic	3 credits 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI	are req gory A 101 105 131 240 160 270 260 101	uired to take one course from each subce  Fine Arts  Art Fundamentals  Visual Language-Drawing  Ceramics for Non-majors  Intro Creative Writing Workshop  Introduction to World Cinema  Film & Literature  Computer Presentation and Animation  Enjoyment of Music  Band: MSUB Symphonic  Jazz Ensemble I: MSUB	3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI	are req gory A 101 105 131 240 160 270 260 101 114	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic	3 credits 3 3 3 3 3 3 3 1 3 1
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI	are req gory A 101 105 131 240 160 270 260 101 114 131	uired to take one course from each subce  Fine Arts  Art Fundamentals  Visual Language-Drawing  Ceramics for Non-majors  Intro Creative Writing Workshop  Introduction to World Cinema  Film & Literature  Computer Presentation and Animation  Enjoyment of Music  Band: MSUB Symphonic  Jazz Ensemble I: MSUB	3 credits 3 3 3 3 3 3 3 1 1 1
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI MUSI	are req gory A 101 105 131 240 160 270 260 101 114 131 147	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 credits 3 3 3 3 3 3 1 1 1 1
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI MUSI THTR THTR	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre	3 credits 3 3 3 3 3 3 1 1 1 1 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI MUSI THTR THTR	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI THTR THTR Subcate	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120 gory B	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI THTR THTR Subcate ARTH	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120 gory B 150	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI THTR THTR Subcate ARTH HONR	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120 gory B 150 111	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI THTR THTR Subcate ARTH HONR LIT	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120 gory B 150 111 110	uired to take one course from each subce—Fine Arts Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Students Subcate ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI THTR THTR Subcate ARTH HONR LIT LIT	are req gory A 101 105 131 240 160 270 260 101 114 131 147 101 120 gory B 150 111 110 240	uired to take one course from each subce—Fine Arts  Art Fundamentals Visual Language-Drawing Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature	3 credits 3 3 3 3 3 3 1 1 1 1 3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

		Course	Credits	Grade	Semester	Equivalent
Dialaga D		A minimum grade of C or better is require	ed in all mo	ijor cours	ework	
Biology R *BIOB	160	Principles of Living Systems	3			
* BIOB	161	Principles of Living Systems Lab	1			
BIOB	170	Principles of Biological Diversity	3			
BIOB	171	Principles of Biological Diversity Lab	1			
BIOB	260	Cellular and Molecular Biology	3			
BIOB	261	Cellular and Molecular Biology Lab	1			
BIOB	375	General Genetics	3			
BIOB	376	General Genetics Lab	1			
BIOE	370	General Ecology	3			
BIOE	371	General Ecology Lab	1			
BIOB	425	Advanced Cell and Molecular Biology	3			
BIOB	426	Advanced Cell and Molecular Biology Lab	1			
BIOB	490	Undergraduate Research	2			
BIOB	499	Senior Thesis/Capstone	1			
Unrestric		gy electives (15 credits – at least 7 credits in up)	per divisio	on course	es)	
	eted Biolo		per divisio	on course	es)	
	eted Biolo	gy electives (15 credits – at least 7 credits in up) es not qualify in this category.  Biology Total	per divisio	on course	es)	
*BIOB 10	oted Biolo	es not qualify in this category.  Biology Total  ements	42	on course	es)	
*BIOB 10 Chemistr *CHMY	ol/102 doe	es not qualify in this category.  Biology Total  ements  College Chemistry I	42	on course	es)	
*BIOB 10 Chemistr *CHMY *CHMY	21/102 doe  y Require 141 142	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I	42	on course	es)	
*BIOB 10 Chemistr *CHMY *CHMY	21/102 doe  y Require 141 142 143	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II	42 3 1 3	on course	es)	
*BIOB 10 Chemistr *CHMY *CHMY CHMY	21/102 doe  y Require 141 142 143 144	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry II	42 3 1 3 1	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY	21/102 doe  y Require 141 142 143 144 211	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry	42 3 1 3 1 3	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY	21/102 does y Require 141 142 143 144 211 212	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab	42 3 1 3 1 3 1	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY	y Require 141 142 143 144 211 212 380	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab  Biochemistry	42 3 1 3 1 3 1 3	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY	21/102 does y Require 141 142 143 144 211 212	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab  Biochemistry  Biochemistry Lab	3 1 3 1 3 1 3	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY	y Require 141 142 143 144 211 212 380	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab  Biochemistry	42 3 1 3 1 3 1 3	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY BCH BCH	21/102 doe  y Require 141 142 143 144 211 212 380 381	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab  Biochemistry  Biochemistry Lab	3 1 3 1 3 1 3 1 1 1 6	on course	es)	
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY BCH BCH	21/102 doe  y Require 141 142 143 144 211 212 380 381	es not qualify in this category.  Biology Total  ements  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Elements of Organic Chemistry  Elements of Organic Chemistry Lab  Biochemistry  Biochemistry Lab  Chemistry Total	3 1 3 1 3 1 3 1 1 1 6	on course	es)	

Math or Statistics Total 4

<sup>\*</sup>May satisfy Academic Foundations/General Education requirements.

Course	Credits	Grade	Semester	Equivalent
	0.1			
Foreign Language Requirement (2 semesters/1full year	of the same language	e)		
		I		
Restricted Electives selected in consultation with facult	y advisor (6 credits)			
Electives				
LICCUTCS				

## **BACHELOR OF ARTS DEGREE IN BIOLOGY**

Categories	Credits	Earned	Remaining
General Education	31		
Biology Requirements	**38		
Chemistry Requirements	***13		
Math or Statistics Requirement	***1		
Foreign Language Requirement	8		
Restricted Electives	6		
Electives (variable)	17/V		
Total	120		

<sup>\*\* 4</sup> credits that also satisfy General Education requirements are not included in the total number of credits.
\*\*\*3 credits that also satisfy General Education requirements are not included in the total number of credits.

The total number of elective credits required for the degree will be determined by the number of courses a student elects to take which fulfill both the General Education requirements and the major requirements. Electives should be chosen in consultation with an academic advisor.

It is the student's responsibility to know and meet the requirements for graduation. A minimum of 36 credits must be upper division classes (300 and above)

Notes: