2011-2012 PETITION/PROGRAM SHEET

Degree: Bachelor of Science Major: Biological Sciences

Concentration: Biology, Secondary Teaching

About This Major . . .

The Biology program offers coursework, in conjunction with the Center for Teacher Education, leading to licensure in secondary education science. Graduates of the program can teach in the state of Colorado or use their teaching expertise in other careers. After completing foundation sciences classes in Biology, Chemistry, Physics and Geology, students choose 10 hours of upper level Biology course work, in consultation with their advisor.

The secondary licensure program provides teacher education candidates with broad content knowledge in science and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of general education and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 211, *Foundations of Education*, must be taken before applying to the program.

POLICIES:

- 1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the Catalog for a complete list of graduation requirements.
- 2. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
- 3. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.
- 4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
- 5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- 6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
- 7. NOTE: The semester before your teaching internship, you will be required to take a Major Field Achievement Test (exit exam).

NAME:	STUDENT ID #	
LOCAL ADDRESS AND PHONE NUMBER:		
	()	
on the Program Sheet. I further certify that the grade liste	, hereby certify that I have completed (or will coned for those courses is the final course grade earned except for emester. I have indicated the semester in which I will complete	r the courses in which I am these courses.
Signature of Advisor	Date	20
Signature of Advisor	Date	
Signature of Content Advisor	Date	20
		20
Signature of Department Head	Date	
		20
Signature of Registrar	Date	

Deg	ree Requirements:		•		
•	122 semester hours total (A minimum of 28 taken at CMU in no	Course No T	Title	Sem.hrs	Grade Term/Trns
•	fewer than two semesters). 40 upper division credits (A minimum of 15 taken at the 300-400	Fine Arts (3	semester hours)		
_	course levels within the major at CMU).				
:	2.80 cumulative GPA or higher in all CMU coursework 2.80 cumulative GPA or higher in coursework toward the major	History (3 se	emester hours)		
	content area A cumulative grade point average of 2.8 or higher must be	пізт			
	maintained for each of 3 areas: content courses, education courses and overall GPA	OTHER LO	WER DIVISION REQUIRE	MENTS	(6 semester hours)
•	Pre-collegiate courses (usually numbered below 100) cannot be	Kinesiology	(3 semester hours)		
	used for graduation.	KINE 100	Health and Wellness	1	
•	A student must follow the CMU graduation requirements either	KINA 1		_ 1	
	from 1) the program sheet for the major in effect at the time the	KINA I		_ 1	
	student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the	Applied Stud	dies (3 semester hours)		
	student officially declares the major and is approved for the student	SPCH 102	Speechmaking	3	
	by the department head. Because a program may have requirements		grade of "B" or better.		
	specific to the degree, the student should check with the faculty				
	advisor for additional criteria. It is the student's responsibility to		ON COURSES (16 semester	hours)	
	be aware of, and follow, all requirements for the degree being	Must earn a g	grade of "C" or better.		
	pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.	CHFM 121*	Principles of Chemistry	4	
•	When filling out the program sheet a course can be used only once.		* Principles of Chemistry Lab	1	
•	See the "Undergraduate Graduation Requirements" in the catalog		Principles of Organic Chemi		
	for additional graduation information.	CHEM 122L	* Principles of Organic Chemi	stry	
•	Students must PASS the PLACE or PRAXIS II exam in the content		Lab	1	
	area prior to beginning the internship. Also, ALL other coursework	STAT 200	Probability and Statistics	3	
	toward the degree must be successfully completed prior to the internship.	Humanities o	r Social/Behavioral Sciences		
	mensing.	Tumamues	1 Social/Deliavioral Sciences	3	
See belo requ requ requ	the current catalog for a list of courses that fulfill the requirements w. If a course is on the general education list of options and a irement for your major, you must use it to fulfill the major irement and make a different selection within the general education irement. see No Title Sem.hrs Grade Term/Trns	approval. BIOLOGY - CERTIFICA	vel subject may be taken in the - LEADING TO SECONDAL ATION MAJOR REQUIREM grade of "C" or better.	RY EDU(<u>CATION</u>
			ore Courses (11 semester hour		
	lish (6 semester hours, must earn a grade of "B" or better and must	BIOL 106	Principles of Animal Biology		
	ompleted by the time the student has 60 semester hours.) GL 111 English Composition 3	BIOL 106L	Principles of Animal Biology Lab	y 1	
	GL 112 English Composition 3 3	BIOL 107	Principles of Plant Biology	3	
2111		BIOL 107L	Principles of Plant Biology I		
	h: MATH 113 or higher (3 semester hours, must earn a grade of	BIOL 386	Introduction to Science Ed	3	
	or better, must be completed by the time the student has 60 semester				
hou			<u>elated Study Area</u> (19 semeste College Algebra	er hours)	
	TH 113 College Algebra 4* redits apply to the General Ed requirements and 1 credit applies to	MAIHIIS	College Algebra	1	
	uired Course credit	Choose either	r GEOL 111/111L or GEOL 1	13/113L	
1				_ 3	
Hur	nanities (3 semester hours)	GEOL		_ 1	
		GEOL 112	Principles of Historical Geol		
G - 1	al and Dahardanal Calancer (C. 1997)	GEOL 112L	Principles of Historical Geol		
	al and Behavioral Sciences (6 semester hours) C 233 Human Growth & Development3	PHYS 111	Lab General Physics	1 4	
101	233 Human Growth & Development3	PHYS 111L	General Physics Lab	1	
Mus	t earn a grade of "B" or better for PSYC 233.	PHYS 1112	General Physics	4	
		PHYS 112L	General Physics Lab	1	
	ural Sciences (7 semester hours) Must earn a grade of "C" or better.		•		
	L 105 Attributes of Living Systems 3				
RIO	L 105L Attributes of Living Systems Lab 1				
	1 3				
Choo	ose one from ENVS 101, GEOL 103, GEOL 104, GEOL 105, PHYS 101				

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Course No T	ïtle	Sem.hrs	Grade	Term/Trns	Course No Title	Sem.hrs	Grade Term/Trns
BIOL	tives (10 Upper Division Sem				BIOL BIOL BIOL		
				33, EDUC 2	11 (all with a grade of B or bette	r) and formal acceptance	e to the Teacher
Course No T	itle	Sem.hrs	Grade	Term/Trns			
EDUC 211 EDUC 342*	Foundations of Education Pedagogy & Assessment:	2			20 Fiel	d Experience Hours	
	Secondary/K-12	3			20 Fiel	d Experience Hours	
EDUC 343* EDUC 442	Teaching to Diversity Integrating Literacy Across	3 the			20 Fiel	d Experience Hours	
	Curriculum	4			60 Fiel	d Experience Hours	
EDUC 497	Content Methodology					-	
	Practicum	3			80 Fiel	d Experience Hours	
EDUC 497D	Methods of Teaching Second	dary					
	Science**	2					
EDUC 499G	Teaching Internship and						
	Colloquium	12			600 Fie	eld Experience Hours	

Students must PASS the PRAXIS II exam in the content area prior to commencing the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

***All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.

^{**}This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN BIOLOGY - LEADING TO SECONDARY TEACHER LICENSURE

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

FRESHMAN YEAR

Fall Semester		Hours	Spring Semest	er	Hours
BIOL 105	Attributes of Living Systems	3	BIOL 106	Principles of Animal Biology	3
BIOL 105L	Attributes of Living Systems Lab	1	BIOL 106L	Principles of Animal Biology Lab	1
ENGL 111	English Composition	3	ENGL 112	English Composition	3
CHEM 121	Principles of Chemistry	4	CHEM 122	Principles of Organic Chemistry	4
CHEM 121L	Principles of Chemistry Lab	1	CHEM 122L	Principles of Organic Chemistry Lab	1
MATH 113	College Algebra	<u>4</u>	STAT 200	Probability and Statistics	3
		16	KINA	Activity	<u>1</u>
	_				16

SOPHOMORE YEAR

Fall Semester		Hours	Spring Semeste	r	Hours
BIOL 107	Principles of Plant Biology	3	GEOL 111	Principles of Physical Geology AND	3
BIOL 107L	Principles of Plant Biology Lab	1	GEOL 111L	Principles of Physical Geology Lab	1
PHYS 111	General Physics	4	<u>OR</u>		
PHYS 111L	General Physics Lab	1	GEOL 113	Field-Based Intro To Physical Geol Al	ND 3
PSYC 233	Human Growth and Development	3	GEOL 113L	Field-Based Intro To Physical Geol La	ab 1
KINE/ 100	Health and Wellness	1	PHYS 112	General Physics	4
SPCH 102	Speechmaking	<u>3</u>	PHYS 112L	General Physics Lab	1
		16	General Education	on Natural Science	3
			<u>OR</u>		
			BIOL 386	Intro to Science Education	3
			Foundation Hun	nanities/Soc & Behav Sci	3
			KINA	Activity	<u>1</u>
					16

JUNIOR YEAR

Fall Semester		Hours	Spring Semeste	er	Hours
*EDUC 211	Foundations of Education	2	EDUC 342	Pedagogy & Assessment: Secondary	$r/K-12 \ 3$
GEOL 112	Principles of Historical Geology	3	EDUC 343	Teaching to Diversity	3
GEOL 112L	Principles of Historical Geology Lab	1	BIOL 386	Intro to Science Education	3
Electives	Upper Division Biology course	4	<u>OR</u>		
General Educati	ion History	3	General Educat	ion Natural Science	3
General Educati	ion Humanities	<u>3</u>	Electives	Upper Division Biology course	3
		16	General Educat	ion Social and Behavioral Science	<u>3</u>
*Must be taken	prior to acceptance into the Center for '	Teacher			15
Education. Off	ered in summer, fall and spring ser	mesters.			

SENIOR YEAR

Fall Semester	Hou	<u>urs</u>	Spring Seme	ster	Hours
EDUC 442	Integrating Literacy Across the Curriculum	m 4	EDUC 499G	Teaching Internship/Colloquium:Seconda	ry <u>12</u>
EDUC 497	Content Methodology Practicum	3			12
EDUC 497D*	Methods of Teaching Secondary Science	2			
General Education	on Fine Arts	3			
Electives	Upper Division Biology course	<u>3</u>			
		15			

*Only offered in fall.