

School of Natural Sciences and Mathematics
BACHELOR OF SCIENCE in PHYSICAL SCIENCES with Concentration in ENVIRONMENTAL GEOLOGY

COMPLETE THIS FORM IN INK

Name of Student (Please Print)

Catalog under which student graduates

Student ID No.

NOTE TO STUDENT: It is **your** responsibility to keep this program sheet up-to-date. This sheet must be completed and signed by you, your advisor, the Chair of Physical and Environmental Sciences, and the Registrar the semester prior to the semester you will complete your program.

1. Mark the courses you plan to take the last semester by indicating the name of the course and the semester and year it will be taken. **You will not be allowed to make changes without written approval from your advisor, Chair, and the Dean. You must take a copy of this signed approval to the Registrar.**
2. Make sure the form is completed and sign your name.
3. Take the form to your advisor for signature.
4. Take the form to the Department Chair for signature.
5. Take the form to the Registrar (along with your Petition to Graduate – see Note below) so that you can be cleared for graduation. **THIS IS YOUR RESPONSIBILITY.**
6. **NOTE:** You also must file with the Registrar a Petition to Graduate & Degree Plan form with this Program Sheet.
7. **ADDITIONAL NOTE:** The semester before graduation, you will be required to take a Major Field Achievement Test (Exit Exam).

SUGGESTED COURSE SEQUENCING FOR AN ENVIRONMENTAL GEOLOGY MAJOR

FRESHMAN YEAR					
Fall Semester		Hours	Spring Semester	Hours	
GEOL 111*	Principles of Physical Geology (3)		GEOL 112	Principles of Historical Geology	3
GEOL 111L*	and Prin. of Physical Geology Lab (1)		GEOL 112L	Principles of Historical Geology Lab	1
GEOL 113*	or Field Based Intro. Phys. Geol. (3)	3	ENGL 112	English Composition	3
GEOL 113L*	and Fld. Bas. Intro. Phys. Geol. Lab (1)	5			
ENGL 111	English Composition				
MATH 151	Calculus I				
General Education Humanities		<u>3</u>	General Education Humanities		3
		15	General Education Social/Behavioral Sciences		3
			Human Performance & Wellness		<u>2</u>
					15

* Either GEOL 111/111L or GEOL 113/113L may be taken for credit, *but not both.*

SOPHOMORE YEAR					
Fall Semester		Hours	Spring Semester	Hours	
CHEM _____	Select from 122, 131, or 311 and the Corresponding Lab	4	GEOL 250	Environmental Geology	3
CHEM _____L		1	STAT 200	Probability and Statistics	3
ENGS 110	Introduction to ERWM	3	General Education Humanities or Social/Behavioral Sciences		3
PHYS 111	General Physics	4	General Education Applied Studies		3
PHYS 111L	General Physics Lab	1	General Education Social/Behavioral Sciences		<u>3</u>
General Education Natural Sciences		3			15
Human Performance and Wellness		<u>1</u>			
		17			

JUNIOR YEAR					
Fall Semester		Hours	Spring Semester	Hours	
GEOL 331	Mineral Studies	3	GEOL 340	Petrology	3
GEOL 331L	Mineral Studies Lab	1	GEOL 340L	Petrology Lab	1
BIOL 105	Attributes of Living Systems (4)		Electives		<u>10</u>
BIOL 105L	Attributes of Living Systems Lab (1)	4			14
or ENGS 213	Site Characterization	1			
ENGS 213L	Site Characterization Lab				
General Education Fine Arts		3	Summer Semester		Hours
General Education Natural Sciences		<u>4</u>	GEOL 380	Field Studies	6
		16			

SENIOR YEAR					
Fall Semester		Hours	Spring Semester	Hours	
GEOL 402	Applications of Geomorphology	3	GEOL 415	Introduction to Ground Water	3
GEOL 402L	Applications of Geomorphology Lab	1	GEOL 415L	Introduction to Ground Water Lab	1
GEOL 404	Geophysics	3	Electives		<u>6</u>
GEOL 404L	Geophysics Lab	1			10
	Geophysics Lab	3			
GEOL 444	Stratigraphy and Sedimentation	<u>1</u>			
GEOL 444L	Stratigraphy and Sedimentation Lab	12			

Minimum GPA 2.0 (repeated classes will be counted only once)

General Education	34
Human Performance and Wellness	3
Degree Distinction	8
Required Core Courses	41
Required Supporting Courses	18
Electives.....	<u>16</u>
TOTAL HOURS REQUIRED	<u>120</u>
Minimum upper division hours required (300 & 400 level classes) . . 40	

B.S. in Environmental Geology

1. **GENERAL EDUCATION:** A minimum of 34 GENERAL EDUCATION (G.E.) credits are required. In addition, 8 credits of DEGREE DISTINCTION (D.D.) are required, as well as 3 credits of HUMAN PERFORMANCE AND WELLNESS (H.P.W.). (SEE CURRENT MESA STATE COLLEGE CATALOG FOR LIST OF APPROVED GENERAL EDUCATION COURSES.)

	Hrs.	Final Grade	Sem/ Year
English Composition (6 or 3 cr. hrs.)			
ENGL 111 English Composition (3) and			
ENGL 112 English Composition (3) or			
ENGL 129 Honors English (3) (Advisor permission only)			

Humanities

6 credit hours chosen from History, Literature, and Philosophy

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Social and Behavioral Sciences

6 credit hours chosen from Anthropology, Economics, Geography, Political Science, Social Science, Sociology, or Psychology

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

B.S. students must choose 3 additional credit hours from either the Humanities or the Social/Behavioral Sciences for a total of 9 credit hours in one of the two areas.

Fine Arts

3 credit hours chosen from Art, Dance, Music, or Theater

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Natural Sciences

7 credit hours chosen from Biology, Chemistry, Geology, or Physics.

At least one course must be a LAB SCIENCE or FIELD COMPONENT course.

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Applied Studies

3 credit hours chosen from Foreign Language, Computer Science, Business, Applied Fine Arts, Speech, or Occupational Courses

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

TOTAL G.E. CREDITS (min of 34) (unless Hon. Engl. taken)

2. **DEGREE DISTINCTION:** 8 credit hours. A "C" or better must be achieved in each of the courses.

MATH	Calculus I	_____	_____
------	------------	-------	-------

4. **TOTAL G.E., D.D., and H.P.W. (minimum of 45)**

THERE IS NO DOUBLE COUNTING ALLOWED BETWEEN THE MAJOR AND THE GENERAL EDUCATION COURSES.

ENTER THE GRADE RECEIVED AS YOU COMPLETE CLASSES

	Hrs.	Final Grade	Sem/ Year
REQUIRED CORE COURSES (41 cr. hrs.) "C" or better is required in each course.			
GEOL 111* Principles of Physical Geology (3) and			
GEOL 111L* Principles of Physical Geology Lab (1) or			
GEOL 113* Fld. Bas. Intro to Phys Geol. (3) and			
GEOL 113L* Fld. Bas. Intro. to Phys. Geol. Lab (1)			

* Either GEOL 111/111L or GEOL 113/113L may be taken for credit, but not both.

GEOL 112 Principles of Historical Geology	3		
GEOL 112L Principles of Historical Geology Lab	1		
GEOL 250 Environmental Geology	3		
GEOL 331 Mineral Studies	3		
GEOL 331L Mineral Studies Lab	1		
GEOL 340 Petrology	3		
GEOL 340L Petrology Lab	1		
GEOL 380 Field Studies	6		
GEOL 402 Applications of Geomorphology	3		
GEOL 402L Applications of Geomorphology Lab	1		
GEOL 404 Geophysics	3		
GEOL 404L Geophysics Lab	1		
GEOL 415 Introduction to Ground Water	3		
GEOL 415L Introduction to Ground Water Lab	1		
GEOL 444 Stratigraphy and Sedimentation	3		
GEOL 444L Stratigraphy and Sedimentation Lab	1		

REQUIRED SUPPORTING COURSES (18 cr. hrs.)

"C" or better is required in each course.

BIOL 105 Attributes of Living Systems (4)			
BIOL 105L Attributes of Living Systems Lab (1)			
or			
ENGS 213 Site Characterization (4)			
ENGS 213L Site Characterization Lab (1)			
CHEM 122 Principles of Organic Chemistry (4)			
CHEM 122L Principles of Organic Chemistry Lab (1) or			
CHEM 131 General Chemistry (4)			
CHEM 131L General Chemistry Lab (1) or			

REQUIRED CORE COURSES (41 cr. hrs.) **Final Sem/**
"C" or better is required in each course. **Hrs. Grade Year**

Note: "D's" will not be accepted in major courses taken at Mesa State nor as transfer credits in major courses.

SUMMARY OF CREDIT HOURS COMPLETED

TOTAL G.E., D.D., and H.P.W.....	_____ (45)
TOTAL Required Core.....	_____ (41)
TOTAL Required Supporting	_____ (18)
TOTAL Electives.....	_____ (16)
TOTAL Upper Division Hours ...	_____ (40)
TOTAL Hours Completed in Program	_____ (120)

STUDENT: PLEASE BE SURE TO FILL OUT TOP OF PAGE 1.

I, (signature) _____,
 hereby certify that I have completed (or will complete) all the
 courses listed above. I further certify that the grade listed for
 those courses is the final course grade received except for the
 courses in which I am currently enrolled and the courses which I
 will complete this semester. I have indicated the semester in
 which I will complete these courses. My cumulative grade point
 average as of the end of the last semester completed is
 _____. The semester I plan to graduate is
 _____.

Permanent home address and phone number where I can be
 reached

in the future:

 Signature of Advisor Date

 Signature of Department Chair Date

 Signature of the Registrar Date