

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

**COMPLETE THIS FORM IN INK**

Name of Student (Please Print)	Catalog under which student graduates	Student ID No.
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**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 A GEOLOGY MAJOR**

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

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

<b>SOPHOMORE YEAR</b>			
Fall Semester	Hours	Spring Semester	Hours
CHEM 131 General Chemistry	4	GEOL 250 Environmental Geology	3
CHEM 131L General Chemistry Lab	4	BIOL 105 Attributes of Living Systems	4
PHYS 111 General Physics	3	BIOL 105L Attributes of Living Systems Lab	1
PHYS 111L General Physics Lab	1	General Education Natural Sciences	3
STAT 200 Probability and Statistics		General Education Fine Arts	3
General Education Social/Behavioral Sciences	3	General Education Humanities <b>or</b>	
Human Performance and Wellness	<u>1</u>	Social/Behavioral Sciences	
	17		<u>3</u>

<b>JUNIOR YEAR</b>			
Fall Semester	Hours	Spring Semester	Hours
GEOL 301 Structural Geology	3	GEOL 340 Petrology	3
GEOL 301L Structural Geology Lab	1	GEOL 340L Petrology Lab	1
GEOL 331 Mineral Studies	1	GEOL 390 Computer Applications	3
GEOL 331L Mineral Studies Lab		Electives	
General Education Natural Sciences	4		<u>6</u>
General Education Applied Studies	<u>3</u>		1
	15		3
		Summer Semester	Hours
		GEOL 380 Field Studies	6

<b>SENIOR YEAR</b>
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<b>Fall Semester</b>	<b>Hours</b>	<b>Spring Semester</b>	<b>Hours</b>
GEOL 402 Applications of Geomorphology	3	GEOL 490 Seminar	3
GEOL 402L Applications of Geomorphology Lab	1 3	Electives	<u>8</u>
GEOL 444 Stratigraphy & Sedimentation	1		11
GEOL 444L Stratigraphy & Sedimentation Lab			
Electives	<u>3</u>		
	11		

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 .....	43
Required Supporting Courses .....	15
Electives.....	<u>17</u>
<b>TOTAL HOURS REQUIRED .....</b>	<b><u>120</u></b>

Minimum upper division hours required (300 & 400 level classes) . . 40

**B.S. in 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
<b>English Composition</b> (6 or 3 cr. hrs.)			
ENGL 111 English Composition (3) <b>and</b>			
ENGL 112 English Composition (3) <b>or</b>			
ENGL 129 Honors English (3) (Advisor permission only)			

**Humanities**

6 credit hours chosen from History, Literature, and Philosophy

	Hrs.	Final Grade	Sem/Year
_____	_____	_____	_____
_____	_____	_____	_____

**Social and Behavioral Sciences**

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

	Hrs.	Final Grade	Sem/Year
_____	_____	_____	_____
_____	_____	_____	_____

**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

	Hrs.	Final Grade	Sem/Year
_____	_____	_____	_____

**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.

	Hrs.	Final Grade	Sem/Year
_____	_____	_____	_____
_____	_____	_____	_____

**Applied Studies**

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

	Hrs.	Final Grade	Sem/Year
_____	_____	_____	_____

**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.

	Hrs.	Final Grade	Sem/Year
MATH 151 Calculus I (Prerequisite: MATH 119 or consent of instructor)	5		
STAT 200 Probability and Statistics	3		

3. **HUMAN PERFORMANCE & WELLNESS:** 3 credit hours

NOTE: Students must participate in one hour of a lecture class, one hour of an "Aerobic/Fitness" class and one hour of either an "Aerobic/Fitness" or "Lifetime Activity" class

	Hrs.	Final Grade	Sem/Year
HPWA 100 Health and Wellness	1		

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

**REQUIRED CORE COURSES** (43 cr. hrs.)

	Hrs.	Final Grade	Sem/Year
<i>"C" or better is required in each course.</i>			
GEOL 111* Principles of Physical Geology (3) <b>and</b>			
GEOL 111L* Principles of Physical Geology Lab (1) <b>or</b>			
GEOL 113* Fld. Bas. Intro to Phys Geol. (3) <b>and</b>			
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 Lab	1		
GEOL 250 Environmental Geology	3		
GEOL 301 Structural Geology	3		
GEOL 301L Structural Geology Lab	1		
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 390 Computer Applications in Geology	3		
GEOL 402 Applications of Geomorphology	3		
GEOL 402L Lab	1		
GEOL 444 Stratigraphy and Sedimentation	3		
GEOL 444L Lab	1		
GEOL 490 Seminar	3		

**REQUIRED SUPPORTING COURSES** (15 cr. hrs.)

<i>"C" or better is required in each course.</i>			
BIOL 105 Attributes of Living Systems	4		
BIOL 105L Attributes of Living Systems Lab	1		
CHEM 131 General Chemistry	4		
CHEM 131L General Chemistry Lab	1		
PHYS 111 General Physics	4		
PHYS 111L General Physics Lab	1		

**ELECTIVES** (unrestricted, 17 cr. hrs.)

These hours may be used to satisfy the requirements for a minor.

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

**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.....	(43)
TOTAL Required Supporting .....	(15)
TOTAL Electives.....	(17)

TOTAL Upper Division Hours ...\_\_\_\_\_ (40)  
TOTAL Hours Completed in Program..... \_\_\_\_\_ (120)

**STUDENT: PLEASE BE SURE TO FILL OUT THE 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