

Year 1 - Fall		
Choose one of the options below:		
Option A		
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Option B		
GLG 100	Introductory Geology	3
GLG 100L	Introductory Geology Lab	1
Option C		
GLG 112	Geologic Disasters	3
GLG 112L	Geologic Disasters Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option D		
MAT 125	Precalculus Mathematics	4
Option E		
GE COURSE	General Elective Course	4
NAU 100	Transition To College	1

Year 1 - Spring		
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
GLG 240	Intro Field Mthds & Rprt Wrng	3
Choose one of the options below:		
Option A		
PHY 111	General Physics I	4
Option B		
PHY 161	University Physics I	4
MAT 137	Calculus II	4
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	3

Year 2 - Spring		
Choose one of the options below:		
Option A		
PHY 112	General Physics II	4
Option B		
PHY 262	University Physics II	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	2

Year 3 - Fall		
GLG 225	Paleontology	4
GLG 309	Mineralogy: Intro Earth Mats	4
MAJOR ELECTIVE	Major Elective	4
LIBST COURSE	Liberal Studies Course	3

Year 3 - Spring		
GLG 315	Petrology	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 350W	Geologic Communicatn & Topics	3
GE COURSE	General Elective Course	4

Year 4 - Fall		
GLG 435	Structural Geology	4
GLG 470	Physics And Chemistry Of Earth	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		

Year 4 - Spring		
GLG 440C	Adv Geologic Field Methods	6
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

University Requirements Specified by Major	
Foundation Requirements:English (FNQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNQ:MAT)	MAT 137 (4)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	PHY 111 (4), PHY 161 (4)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

Recitations are available and strongly encouraged for CHM 151, CHM 152, PHY 111, PHY 112, PHY 161, & PHY 262; however they are not required.

* If you are not prepared to take MAT 136 in term 2, MAT 125 will take the place of the general elective in term 1.

** Major electives include 7 units from the following:

- One course selected from ~~GLG 360, GLG 430 or GLG 451~~ ^{GLG 259/259L, GLG 360, or GLG 451} (4 units).
- One course selected with your advisor approval from GLG 107, 430, 451, and any 500-level GLG course; or MAT 238; STA 270 (3 units).

GLG 441 & GLG 490 are recommended courses.

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Geology Bachelor of Science

Environmental Geology - Emphasis

2014-2015

2013-2014 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only. see the catalog for official details

Year 1 - Fall		
Choose one of the options below:		
Option A		
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Option B		
GLG 100	Introductory Geology	3
GLG 100L	Introductory Geology Lab	1
Option C		
GLG 112	Geologic Disasters	3
GLG 112L	Geologic Disasters Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option D		
MAT 125	Precalculus Mathematics	4
Option E		
GE COURSE	General Elective Course	4
NAU 100	Transition To College	1

Year 1 - Spring		
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
GLG 240	Intro Field Mthds & Rprt Wrtg	3
Choose one of the options below:		
Option A		
PHY 111	General Physics I	4
Option B		
PHY 161	University Physics I	4
MAT 137	Calculus II	4
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3

Year 2 - Spring		
GLG 360	Applied Geology	4
Choose one of the options below:		
Option A		
PHY 112	General Physics II	4
Option B		
PHY 262	University Physics II	3
GE COURSE	General Elective Course	1
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3

Year 3 - Fall		
GLG 309	Mineralogy: Intro Earth Mats	4
GLG 430	Geomorphology	4
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3

Year 3 - Spring		
GLG 315	Petrology	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 350W	Geologic Communicatn & Topics	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	2

Year 4 - Fall		
GLG 435	Structural Geology	4
GLG 451	Hydrogeology	4
GLG 470	Physics And Chemistry Of Earth	3
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		

Year 4 - Spring		
GLG 440C	Adv Geologic Field Methods	6
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

University Requirements Specified by Major

Foundation Requirements:English (FNRO:ENG)

ENG 105 (4)

Foundation Requirements:Math (FNRO:MAT)

MAT 137 (4)

Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	MAT 136 (4)

↳ GLG 259
GLG 259L

Principles of Geomorphology
Principles of Geomorphology Lab

(3)
(1)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

Recitations are available and strongly encouraged for CHM 151, CHM 152, PHY 111, PHY 112, PHY 161, & PHY 262; however they are not required.

* If you are not prepared to take MAT 136 in term 2, MAT 125 will take the place of the general elective in term 1

**Complete two of the following courses with your advisor's approval from CENE 150 and 280, CHM 230 and 440, ENV 230, MAT 238, STA 270, FOR 563, GGR 331 and 443, and GLG 575 (6 units)

GLG 441 & GLG 490 are recommended courses.

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<http://www.cefn.nau.edu/Academic/Geology/>

2014-2015

Year 1 - Fall		
Choose one of the options below:		
Option: A		
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Option: B		
GLG 100	Introductory Geology	3
GLG 100L	Introductory Geology Lab	1
Option: C		
GLG 112	Geologic Disasters	3
GLG 112L	Geologic Disasters Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: D		
MAT 125	Precalculus Mathematics	4
Option: E		
GE COURSE	General Elective Course	4
NAU 100	Transition To College	1

Year 1 - Spring		
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
GLG 240	Intro Field Mthds & Rprt Wrting	3
Choose one of the options below:		
Option: A		
PHY 161	University Physics I	4
Option: B		
PHY 111	General Physics I	4
MAT 137	Calculus II	4
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
Choose one of the options below:		
Option: A		
PHY 262	University Physics II	3
Option: B		
PHY 112	General Physics II	4
MAT 238	Calculus III	4
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	1

Year 3 - Fall		
GLG 309	Mineralogy: Intro Earth Matls	4
MAT 239	Differential Equations	3
MAJOR ELECTIVE	Major Elective	4
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3

Year 3 - Spring		
GLG 315	Petrology	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 350W	Geologic Communicatn & Topics	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3

Year 4 - Fall		
GLG 435	Structural Geology	4
GLG 470	Physics And Chemistry Of Earth	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3

Submit graduation application this term.

Year 4 - Spring		
GLG 440C	Adv Geologic Field Methods	6
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	MAT 137 (4)

Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	MAT 136 (4)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

Recitations are available and strongly encouraged for CHM 151, CHM 152, PHY 111, PHY 112, PHY 161, & PHY 262; however they are not required.

* If you are not prepared to take MAT 136 in term 2, MAT 125 will take the place of the general elective in term 1

**PHY 161 and 262 are recommended.

*** Major electives include at least 13 units from:

- Select one course from ~~GLG 360, GLG 430 or GLG 451~~ (4 units).
- Select three non-repeating courses (two must be PHY courses) from PHY 263, 264, 301, 321, 322, 331, 332, and 441; GLG 451, 560, and 565 (9 units).

**** PHY 301 is a major elective option. However, MAT 239 is a pre- or co-requisite for PHY 301.

GLG 441 & GLG 490 are recommended courses.

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Year 1 - Fall		
Choose one of the options below:		
Option A		
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Option B		
GLG 100	Introductory Geology	3
GLG 100L	Introductory Geology Lab	1
Option C		
GLG 112	Geologic Disasters	3
GLG 112L	Geologic Disasters Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option A		
MAT 125	Precalculus Mathematics	4
Option B		
GE COURSE	General Elective Course	4
NAU 100	Transition To College	1

Year 1 - Spring		
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
GLG 240	Intro Field Mthds & Rprt Wrtg	3
PHY 161	University Physics I	4
MAT 137	Calculus II	4
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
PHY 262	University Physics II	3
MAT 238	Calculus III	4
CENE 251	Applied Mechanics Statics	3
LIBST COURSE	Liberal Studies Course	3

Year 3 - Fall		
GLG 309	Mineralogy: Intro Earth Mats	4
Choose one of the options below:		
Option A		
GLG 360	Applied Geology	4
Option B		
GLG 430	Geomorphology	4
ME 291	Thermodynamics I	3
ME 252	Applied Mechanics Dynamics	3
MAT 239	Differential Equations	3

Year 3 - Spring		
GLG 315	Petrology	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 350W	Geologic Communicatn & Topics	3
ME 395	Fluid Mechanics	3

Year 4 - Fall		
GLG 435	Structural Geology	4
GLG 451	Hydrogeology	4
GLG 470	Physics And Chemistry Of Earth	3
CENE 333	Water Resources I	3

Year 4 - Spring		
GLG 440C	Adv Geologic Field Methods	6
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	MAT 137 (4)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)

- ① GLG 259 Principles of Geomorphology (3)
GLG 259L Principles of Geomorphology Lab (1)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. This plan as written has 121 units.

Recitations are available and strongly encouraged for CHM 151, CHM 152, PHY 161, & PHY 262; however, they are not required.

* If you are not prepared to take MAT 136 in term 2, MAT 125 will take the place of the general elective in term 1

** ME 291, ME 395 & MAT 239 are not required for this degree, but are pre-requisites for other courses.

GLG 441 & GLG 490 are recommended courses.

All prerequisite courses for your engineering classes must be completed with grades of C- or better. See catalog for the list of pre-requisites.

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Geology Bachelor of Science

Paleontology - Emphasis

2014-2015

2013-2014 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only; see the catalog for official details

Year 1 - Fall		
Choose one of the options below:		
Option: A		
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Option: B		
GLG 100	Introductory Geology	3
GLG 100L	Introductory Geology Lab	1
Option: C		
GLG 112	Geologic Disasters	3
GLG 112L	Geologic Disasters Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: A		
MAT 125	Precalculus Mathematics	4
Option: B		
GE COURSE	General Elective Course	4
NAU 100	Transition To College	1

Year 1 - Spring		
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
GLG 240	Intro Field Mthds & Rprt Wrtg	3
Choose one of the options below:		
Option: A		
PHY 161	University Physics I	4
Option: B		
PHY 111	General Physics I	4
MAT 137	Calculus II	4
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
GE COURSE	General Elective Course	1

Year 2 - Spring		
Choose one of the options below:		
Option: A		
PHY 262	University Physics II	3
Option: B		
PHY 112	General Physics II	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
GLG 225	Paleontology	4
GLG 309	Mineralogy: Intro Earth Matls	4
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	1

Year 3 - Spring		
GLG 315	Petrology	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 350W	Geologic Communicatn & Topics	3
LIBST COURSE	Liberal Studies Course	3

Year 4 - Fall		
GLG 435	Structural Geology	4
GLG 470	Physics And Chemistry Of Earth	3
MAJOR ELECTIVE	Major Elective	4
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		

Year 4 - Spring		
GLG 440C	Adv Geologic Field Methods	6
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3

University Requirements Specified by Major	
Foundation Requirements: English (FNRO:ENG)	ENG 105 (4)

Foundation Requirements:Math (FNRQ:MAT)	MAT 137 (4)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	MAT 136 (4)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

Recitations are available and strongly encouraged for CHM 151, CHM 152, PHY 111, PHY 112, PHY 161, PHY 262, BIO 181 & BIO 182; however they are not required.

* If you are not prepared to take MAT 136 in term 2, MAT 125 will take the place of the general elective in term 1.

**PHY 161 and 262 are recommended.

*** Major electives include at least 7 units from: *GLG 254/259L, GLG 360, or GLG 451*

- Select one course from ~~GLG 360, GLG 430 or GLG 451~~ (4 units).
- Select one course, with your advisor approval, from BIO 221, 223, 373, and 415 and GLG 530 and 535 (3 units).

GLG 441 & GLG 490 are recommended courses.

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