



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Applied 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		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
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
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		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
GLG 102	Historical Geology	3
GLG 104	Historical Geology Lab	1
ENG 105	Critical Read/Writing In Univ	4
MAT 136	Calculus I	4

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
GLG 240	Intro Field Mthds & Rprt Wrting	3
MAT 137	Calculus II	4
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
Choose one of the options below:		
Option: A		
PHY 111	General Physics I	4
Option: B		
PHY 161	University Physics I	4
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
Meet with your advisor to discuss Internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
GLG 309	Mineralogy: Intro Earth Matls	4
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
POS 359	Environmental Policy	3
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
GLG 324	Sedimentology And Stratigraphy	4
GLG 360	Applied Geology	4
MAJOR ELECTIVE	Major Elective	3

Year 4 - Fall		
GLG 430	Geomorphology	4
GLG 435	Structural Geology	4
GLG 451	Hydrogeology	4
DIV ELECTIVE	Diversity Elective	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
LIBST COURSE	Liberal Studies Course	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)
Social and Political Worlds (SPW)	POS 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	GLG 102 (3)

① ENV 115 Climate Change (3)

② LS/DIV Course Liberal Studies/Diversity Course (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

* 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 elective includes one additional upper-division ENV course (3 units).

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or 275.

An average overall GPA of 2.0 or better is required for all ~~math and science courses~~ *emphasis courses*.

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

CONTACT INFORMATION

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Applied Mathematics - 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		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
MAT 136	Calculus I	4
Choose one of the options below:		
Option: A		
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
Option: B		
CS 123	Programming In Fortran	3
NAU 100	Transition To College	1
GE COURSE	General Elective Course	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 137	Calculus II	4
ENG 105	Critical Read/Writing In Univ	4
DIV ELECTIVE	Diversity Elective	3

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
MAT 238	Calculus III	4
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
GSP 239	Intro To Geographic Info Sys	4
MAT 239	Differential Equations	3
MAJOR ELECTIVE	Major Elective	3
Meet with your advisor to discuss internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
ENV 440	Conservation Biology	3
ENV 440L	Conservation Biology Lab	1
MAT 316	Introduction To Linear Algebra	3
POS 359	Environmental Policy	3
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 4 - Fall		
STA 471	Regression Analysis	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity Elective	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)
Social and Political Worlds (SPW)	POS 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), MAT 136 (4)

① ENV 115 Climate Change (3)

② LIBST COURSE Liberal Studies Course (3)

③ GE Course General Elective Course (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or STA 275.

An average overall GPA of 2.0 or better is required for all ~~computer science, math and science~~ courses. *emphasis courses*

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

*Major electives include ~~15~~ ¹² units of the following:

- Select ~~4~~ ⁹ or more additional upper-division mathematics, statistics, and science courses chosen with your advisor approval, excluding BIO 326, 326L or recitations (~~12 units~~) *6 units*
- One upper-division ENV course (3 units)

CONTACT INFORMATION

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Biology - Emphasis

2014-2015 ← 2013-2014 Undergraduate Catalog

Four Year Honors Plan

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

Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: A		
MAT 114	Quantitative Reasoning	3
Option: B		
MAT 136	Calculus I	4
HON 190	Sem Critical Reading & Writing I	3
GE COURSE	General Elective Course	3
HON 100	Introduction To Honors	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
HON 29X	Honors Topic Seminar 29X	4
DIV ELECTIVE	Diversity Elective	3

Year 2 - Fall		
ENV 230	Fndtas Env Sci: Humans & Env	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
GSP 239	Intro To Geographic Info Sys	4
Choose one of the options below:		
Option: A		
MAT 119	Finite Mathematics	3
Option: B		
GE COURSE	General Elective Course	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
Choose one of the options below:		
Option: A		
MAT 131	Topics In Calculus	3
Option: B		
GE COURSE	General Elective Course	3
CHM 230	Fundamental Organic Chemistry	3
Meet with your advisor to discuss internship or research options.		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
ENV 440	Conservation Biology	3
ENV 440L	Conservation Biology Lab	1
CHM 360	Fundamental Biochemistry	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
POS 359	Environmental Policy	3
HON 39X	Honors Advanced Seminar 39X	3

Year 4 - Fall		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	2
LIBST COURSE	Liberal Studies Course	3
LANGUAGE 101	Language 101-level Course	4
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity Elective	3
LANGUAGE 102	Language 102-level Course	4
GE COURSE	General Elective Course	2

University Requirements Specified by Major	
Foundation Requirements: Math (FNRQ:MAT)	MAT 136 (4)
Social and Political Worlds (SPW)	POS 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

① ENV 115 Climate Change (3)

② GE Course General Elective Course (3)

University Honors Program

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NORTHERN ARIZONA UNIVERSITY

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Environmental Sciences Bachelor of Science

Biology - Emphasis

2014-2015

2013-2014 Undergraduate Catalog

Four Year Progression Plan

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Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: A		
MAT 114	Quantitative Reasoning	3
Option: B		
MAT 136	Calculus I	4
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
ENG 105	Critical Read/Writing In Univ	4
DIV ELECTIVE	Diversity Elective	3

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
GSP 239	Intro To Geographic Info Sys	4
Choose one of the options below:		
Option: A		
MAT 119	Finite Mathematics	3
Option: B		
GE COURSE	General Elective Course	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
Choose one of the options below:		
Option: A		
MAT 131	Topics In Calculus	3
Option: B		
GE COURSE	General Elective Course	3
CHM 230	Fundamental Organic Chemistry	3
Meet with your advisor to discuss internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
ENV 440	Conservation Biology	3
ENV 440L	Conservation Biology Lab	1
CHM 360	Fundamental Biochemistry	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
POS 359	Environmental Policy	3
LIBST COURSE	Liberal Studies Course	3

Year 4 - Fall		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	2
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	2

University Requirements Specified by Major	
Foundation Requirements: English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements: Math (FNRQ:MAT)	MAT 136 (4)
Social and Political Worlds (SPW)	POS 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

① ENV 115 Climate Change (3)

② GE COURSE General Elective Course (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or STA 275.

An average overall GPA of 2.0 or better is required for all ~~math, science and geography~~ *emphasis courses*.

Recitations are available and strongly encouraged for CHM 151, CHM 152, BIO 181 and BIO 182; however, they are not required.

*Math requirement is satisfied by taking either: MAT 136 OR MAT 114, 119 and 131.

**Major electives include four or more non-repeating ENV, BIO, CHM, FOR, or GLG courses; excluding ENV 101, 101L, 182, BIO 100, 100L, 171, 326, 326L, ~~GLG 100, 100L, CHM 130~~ or recitations (14 units; including 7 units at the 300 level or above)

CONTACT INFORMATION

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Chemistry - Emphasis

2014-2015 2013-2014 Undergraduate Catalog

Four Year Honors Plan

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

Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
HON 190	Sem Critical Reading & Writing I	3
Choose one of the options below:		
Option: A		
MAT 125	Precalculus Mathematics	4
Option: B		
GE COURSE	General Elective Course	4
HON 100	Introduction To Honors	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
MAT 136	Calculus I	4
HON 29X	Honors Topic Seminar 29X	4
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
CHM 235	General Organic Chemistry I	4
CHM 235L	Gen Organic Chemistry I Lab	1
MAT 137	Calculus II	4
PHY 161	University Physics I	4

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
CHM 238	General Organic Chemistry II	3
CHM 238L	Gen Organic Chemistry II Lab	1
PHY 262	University Physics II	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	1
Meet with your advisor to discuss internship or research options.		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3
CHM 341	Physical Chemistry I	3
POS 359	Environmental Policy	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
CHM 320	Analytical Chemistry	3
CHM 320L	Analytical Chemistry Lab	1
HON 39X	Honors Advanced Seminar 39X	3

Year 4 - Fall		
CHM 425C	Instrumental Analysis	3
CHM 425L	Instrumental Analysis Lab	2
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	4
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 430	Environmental Chemistry	3
ENV 490C	Senior Sem In Enviro Sciences	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	3
LIBST COURSE	Liberal Studies Course	3

University Requirements Specified by Major	
Foundation Requirements: Math (FNRQ:MAT)	MAT 137 (4)
Social and Political Worlds (SPW)	POS 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)

- | | | |
|------------------|-------------------------------|-----|
| ① ENV 115 | Climate Change | (3) |
| ② LIBST COURSE | Liberal Studies Course | (3) |
| ③ CHM 230 | Fundamental Organic Chemistry | (3) |
| CHM 230L | Fundamental Organic Chem Lab | (1) |
| ④ GE COURSE | General Elective Course | (3) |
| ⑤ GE COURSE | General Elective Course | (2) |
| ⑥ MAJOR ELECTIVE | Major Elective | (3) |

University Honors Program

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Chemistry - 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		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
LIBST COURSE	Liberal Studies Course	3
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		
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
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
CHM 235	General Organic Chemistry I	4
CHM 235L	Gen Organic Chemistry I Lab	1
MAT 137	Calculus II	4
PHY 161	University Physics I	4

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
CHM 238	General Organic Chemistry II	3
CHM 238L	Gen Organic Chemistry II Lab	1
PHY 262	University Physics II	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	1
Meet with your advisor to discuss internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3
CHM 341	Physical Chemistry I	3
POS 359	Environmental Policy	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
CHM 320	Analytical Chemistry	3
CHM 320L	Analytical Chemistry Lab	1
LIBST COURSE	Liberal Studies Course	3

Year 4 - Fall		
CHM 425C	Instrumental Analysis	3
CHM 425L	Instrumental Analysis Lab	2
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	4
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 430	Environmental Chemistry	3
ENV 490C	Senior Sem In Enviro Sciences	3
DIV ELECTIVE	Diversity 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)
Social and Political Worlds (SPW)	POS 359 (3)

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

① ENV 115 Climate Change (3)

② LIBST COURSE Liberal Studies Course (3)

③ CHM 230 Fundamental Organic Chemistry (3)
 CHM 230L Fundamental Organic Chemistry Lab (1)

④ GE COURSE General Elective Course (3)

⑤ GE COURSE General Elective Course (2)

⑥ MAJOR ELECTIVE Major Elective (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

* 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 ~~one additional~~ ^{Two} upper-division ENV course (3 units).

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or STA 275.

An average overall GPA of 2.0 or better is required for all ~~math and science courses.~~

Recitations are available and strongly encouraged for CHM 151, CHM 152, CHM 235, CHM 238, PHY 161 and PHY 262; however they are not required. *emphasis courses*

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Administration and Policy - Emphasis

2014-2015

2013-2014 Undergraduate Catalog

Four Year Progression Plan

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Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
POS 250	Intro To Public Policy Making	3
COM 150	Environmental Communication	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
NAU 100	Transition To College	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
ENG 105	Critical Read/Writing In Univ	4
GE COURSE	General Elective Course	3

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
MAJOR ELECTIVE	Major Elective	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
POS 224	Public Administration	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3
Meet with your advisor to discuss Internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
POS 359	Environmental Policy	3
POS 325	Human Resource Mgmt	3
PHI 331	Environmental Ethics	3
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
POS 455	Political Ecology	3
GE COURSE	General Elective Course	3

Year 4 - Fall		
POS 344	Environmental Movements	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective 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)	STA 270 (3), STA 275 (3)
Aesthetic and Humanistic Inquiry (AHI)	PHI 331 (3)
Social and Political Worlds (SPW)	POS 250 (3), POS 224 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

A grade of C or better is required for all ENV courses, POS 359, and STA 270 and STA 275.

An average overall GPA of 2.0 or better is required for all ^{emphasis} major courses (see catalog)

Recitations are available and strongly encouraged for CHM 151, CHM 152, BIO 181 and BIO 182; however, they are not required.

*Major electives include 15 units from the following:

- One additional upper-division ENV course (3 units).
- ~~One 200-level or higher course in BIO (excluding BIO 326/L and any recitations), CHM, GLG, or PHY course (3 units).~~
- One budgeting and/or economics course, chosen from a departmental list (may include POS, STA, ECO, and FOR) (3 units).
- Related course work chosen with your advisor approval (6 units).

The following courses are recommended and liberal studies and diversity are indicated in ().

POLITICS: POS 314, 315, 316, 317, 326, 335, ~~345~~, 421C, and 428

INTERNATIONAL AND COMPARATIVE POLITICS: POS 360 (SPW), POS 361 (SPW & Global), POS 362 (SPW), POS 364 (SPW), POS 366 (CU & Global), POS 370 (CU & Global), POS 374 (CU & Global), ~~POS 376 (SPW)~~, POS

380 (SPW), ~~POS 472 (Global)~~, and POS 480 . **POS 372**

PLANNING: ~~GSP 302, PL 201 (SPW), PL 301, 306, 308W, 401, 402W, and 499~~

ENVIRONMENTAL SCIENCES: ENV 440 and FOR 445

SOCIAL SCIENCES: ANT 370 (SPW), CCJ 312, ECO ~~325~~, ³²⁴ GGR 370W, and SOC 414

HUMANITIES: REL 380 (CU & Ethnic) and REL 391 (CU)

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GSP 201, 206, 401, 499

① ENV 115

Climate Change

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② GE COURSE

General Elective Course

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Environmental Communication - Emphasis

2014-2015 ~~2013-2014~~ Undergraduate Catalog

Four Year Honors Plan

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

Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
COM 150	Environmental Communication	3
CST 111	Fdmtns Of Public Speaking	3
HON 190	Sem Critical Reading & Writing I	3
HON 100	Introduction To Honors	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
HON 29X	Honors Topic Seminar 29X	4
GE COURSE	General Elective Course	4

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
COM 131	Writing For Comm Channels	3
JLS 104	Grammar & Style	1
MAJOR ELECTIVE	Major Elective	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
COM 200	Basic Communication Theory	3
JLS 131	Basic Reporting	3

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
JLS 231	Field Reporting Topics	3
POS 359	Environmental Policy	3
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Meet with your advisor to discuss internship or research options.		

Year 3 - Spring		
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
HON 39X	Honors Advanced Seminar 39X	3
GE COURSE	General Elective Course	4

Year 4 - Fall		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LANGUAGE 101	Language 101-level Course	4
DIV ELECTIVE	Diversity Elective	3
MAT 125	Precalculus Mathematics	4
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	2
LANGUAGE 102	Language 102-level Course	4
DIV ELECTIVE	Diversity Elective	3

University Requirements Specified by Major	
Foundation Requirements:Math (FNRQ:MAT)	MAT 125 (4)
Social and Political Worlds (SPW)	COM 150 (3), CST 111 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

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① ENV 115

Climate Change

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Environmental Communication - 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		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
COM 150	Environmental Communication	3
CST 111	Fdmtns Of Public Speaking	3
LIBST COURSE	Liberal Studies Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
ENG 105	Critical Read/Writing In Univ	4
GE COURSE	General Elective Course	4

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
COM 131	Writing For Comm Channels	3
JLS 104	Grammar & Style	1
MAJOR ELECTIVE	Major Elective	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
COM 200	Basic Communication Theory	3
JLS 131	Basic Reporting	3

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
JLS 231	Field Reporting Topics	3
POS 359	Environmental Policy	3
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
Meet with your advisor to discuss Internship or research options		

Year 3 - Spring		
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3
ENV 385W	Energy, Resources And Policy	4
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	4

Year 4 - Fall		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	4
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	2
LIBST COURSE	Liberal Studies Course	3
DIV ELECTIVE	Diversity Elective	3

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	STA 270 (3), STA 275 (3)
Social and Political Worlds (SPW)	COM 150 (3), CST 111 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or STA 275.

An average overall GPA of 2.0 or better is required for all ~~major courses listed in the catalog.~~ *emphasis courses*

Recitations are available and strongly encouraged for BIO 181, BIO 182, CHM 151 and CHM 152; however, they are not required.

*Major electives include ~~17~~²⁰ units of the following. Many of these courses have pre-requisites. Check with the course catalog or your advisor.

- ~~One additional upper-division ENV course (3 units)~~ *6 units*
- One 200-level or higher BIO (excluding BIO 326/ 326L ~~34~~), CHM, GLG, or PHY course (3 units)
- Related course work chosen with your advisor approval, from COM 250 and 400; ~~EMF 223 and 229~~ *EMF 129*; GSP 239; ~~JLS 382, 431C and 482~~ *284, 335W*; PHO 281; PR 332; and ~~SC 323, 361, 472, and 477~~ *CST* (11 units)

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① ENV 115

Climate Change

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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Environmental Sciences Bachelor of Science

Environmental Management - Emphasis

2014-2015

2013-2014 Undergraduate Catalog

Four Year Honors Plan

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

Year 1 - Fall		
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		
MAT 136	Calculus I	4
HON 190	Sem Critical Reading & Writing I	3
LIBST COURSE	Liberal Studies Course	3
HON 100	Introduction To Honors	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
FOR 230	Multicultl Prspcts Nat Res Mgt	3
HON 29X	Honors Topic Seminar 29X	4

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
STA 275	Statistical Analysis	3
DIV ELECTIVE	Diversity Elective	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
GSP 302	Environmental Planning	3
GSP 239	Intro To Geographic Info Sys	4
ECO 284	Principles Of Economics: Micro	3
Meet with your advisor to discuss internship or research options.		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
Choose one of the options below:		
Option: A		
ENV 408	Field Work Experience	3
Option: B		
ENV 485	Undergraduate Research	3
FOR 430	Leadership And The Environment	3
POS 359	Environmental Policy	3
MAJOR ELECTIVE	Major Elective	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
FOR 381	Forest Ecosystem Management	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3

Year 4 - Fall		
ENV 440	Conservation Biology	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
HON 39X	Honors Advanced Seminar 39X	3
LANGUAGE 101	Language 101-level Course	4
Submit graduation application this term.		

Year 4 - Spring		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LANGUAGE 102	Language 102-level Course	4

University Requirements Specified by Major	
Foundation Requirements: Math (FNRQ:MAT)	MAT 125 (4), MAT 136 (4)
Social and Political Worlds (SPW)	FOR 230 (3), ECO 284 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)
Diversity: U.S. Ethnic (DIV:ETHN)	FOR 230 (3)

University Honors Program

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Fax: 928-523-2300
<http://nau.edu/CEFNS/Welcome/>

① ENV 115

Climate Change

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② GE COURSE

General Elective Course

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Year 1 - Fall		
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: A		
<i>MAT 125</i>	<i>Precalculus Mathematics</i>	4
Option: B		
<i>MAT 136</i>	<i>Calculus I</i>	4
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
FOR 230	Multicultl Prspcts Nat Res Mgt	3
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
ENV 230	Fndtns Env Sci: Humans & Env	4
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
Choose one of the options below:		
Option: A		
<i>STA 270</i>	<i>Applied Statistics</i>	3
Option: B		
<i>STA 275</i>	<i>Statistical Analysis</i>	3
DIV ELECTIVE	Diversity Elective	3

Year 2 - Spring		
ENV 326	Ecology	3
ENV 326L	Environmental Ecology Lab	1
GSP 302	Environmental Planning	3
GSP 239	Intro To Geographic Info Sys	4
ECO 284	Principles Of Economics: Micro	3
Meet with your advisor to discuss internship or research options		

Year 3 - Fall		
ENV 360	Atmosphere & Hydrosphere	4
Choose one of the options below:		
Option: A		
<i>ENV 408</i>	<i>Field Work Experience</i>	3
Option: B		
<i>ENV 485</i>	<i>Undergraduate Research</i>	3
FOR 430	Leadership And The Environment	3
POS 359	Environmental Policy	3
MAJOR ELECTIVE	Major Elective	3

Year 3 - Spring		
ENV 385W	Energy, Resources And Policy	4
FOR 381	Forest Ecosystem Management	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3

Year 4 - Fall		
ENV 440	Conservation Biology	3
MAJOR ELECTIVE	Major Elective	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		
ENV 490C	Senior Sem In Enviro Sciences	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
GE COURSE	General Elective Course	2

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	MAT 125 (4), MAT 136 (4)
Social and Political Worlds (SPW)	FOR 230 (3), ECO 284 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	BIO 181 (3)

① ENV 115

Climate Change

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② GE COURSE

General Elective Course

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PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

A grade of C or better is required for all ENV courses, POS 359, and STA 270 or STA 275. *emphasis courses*
An average overall GPA of 2.0 or better is required for all ~~math and science courses.~~

Recitations are available and strongly encouraged for CHM 151, CHM 152, BIO 181 and BIO 182; however, they are not required.

* Major electives include at least ~~28~~ ¹⁸ units of the following:

Two ~~One~~ additional upper-division ENV course (~~3 units~~) - C or better required *(6 units)*

One ~~Two~~ courses from the following group:

- FOR 360, ~~370 (SCI:SAS), 382 (SCI:SAS), or 445, PRM 346W, or POS 344 (SPW)~~ (6 units) *(3 units)*

~~One~~ course from each of the following groups. Some courses satisfy liberal studies or diversity and are noted in (). *No More Than One from each group (9 units)*

- PHI 105 (AHI) or PHI 331 (AHI), or REL 380 (CU & Ethnic) or REL 391 (CU) (~~3 units~~)
- ECO 285 (SPW), ECO 324 (formerly ECO 325), or 486 (~~3 units~~)
- POS 250 (SPW) ~~or POS 345 (3 units)~~
- ANT 370 (SPW), MGT 303, ~~POS 455, or SOC 319 (3 units)~~
- GSP 320, GSP 331 (~~4 units~~)
- COM 150 (SPW) or CST 271, CST 323 (~~3 units~~)

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