



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Mathematics Bachelor of Science

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		
MAT 123	First Year Seminar	1
MAT 136	Calculus I	4
DIV ELECTIVE	Diversity Elective	3
HON 190	Sem Critical Readng & Writng I	3
GE COURSE	General Elective Course	3
HON 100	Introduction To Honors	1

Year 1 - Spring		
MAT 137	Calculus II	4
MAT 226	Discrete Mathematics	3
HON 29X	Honors Topic Seminar 29X	4
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
MAT 238	Calculus III	4
MAT 316	Introduction To Linear Algebra	3
STA 275	Statistical Analysis	3
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
MAT 320W	Foundations Of Mathematics	3
MAJOR ELECTIVE	Major Elective	3
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
Choose one of the options below:		
Option: A		
MAT 411	Intro To Abstract Algebra	3
Option: B		
MAT 431	Introduction To Analysis	3
STA 473	Intro To Math Statistics I	3
HON 39X	Honors Advanced Seminar 39X	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Year 3 - Spring		
Choose one of the options below:		
Option: A		
MAT 412C	Intro To Abstract Algebra II	3
Option: B		
MAT 441C	Intro To Topology	3
Option: C		
STA 474C	Intro To Math Statistics II	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Year 4 - Fall		
Choose one of the options below:		
Option: A		
MAT 411	Intro To Abstract Algebra	3
Option: B		
MAT 431	Introduction To Analysis	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

University Requirements Specified by Major	
Science/Applied Science (SAS/LAB)	CS 122 (2), CS 122L (1)

University Honors Program

1124 S Knoles Dr
PO Box: 5689
Flagstaff AZ 86011-5689
Cowden Hall - (Bldg #38)
Email: Honors@nau.edu
Phone: 928-523-3334
Fax: 928-523-6558
<http://nau.edu/Honors>

College of Engineering, Forestry, and Natural Sciences

2112 S Huffer Ln
PO Box: 5621
Flagstaff AZ 86011
Engineering and Technology - (Bldg #69)
Email: cefnsacademic@nau.edu
Phone: 928-523-2408
Fax: 928-523-2300
<http://nau.edu/CEFNS/Welcome/>

- ① { MAT 220
or
MAT 226 } Introduction to Mathematical Reasoning (3)
Discrete Mathematics (3)
- ② STA 270 Applied Statistics (3)
or
STA 275 Statistical Analysis (3)



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Four Year Progression Plan

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Year 1 - Fall		
MAT 123	First Year Seminar	1
MAT 136	Calculus I	4
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	4
GE COURSE	General Elective Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
MAT 137	Calculus II	4
MAT 226	Discrete Mathematics	3
ENG 105	Critical Read/Writing In Univ	4
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
MAT 238	Calculus III	4
MAT 316	Introduction To Linear Algebra	3
STA 275	Statistical Analysis	3
DIV ELECTIVE	Diversity Elective	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Spring		
MAT 320W	Foundations Of Mathematics	3
MAJOR ELECTIVE	Major Elective	3
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
Choose one of the options below:		
Option: A		
MAT 411	Intro To Abstract Algebra	3
Option: B		
MAT 431	Introduction To Analysis	3
STA 473	Intro To Math Statistics I	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Year 3 - Spring		
Choose one of the options below:		
Option: A		
MAT 412C	Intro To Abstract Algebra II	3
Option: B		
MAT 441C	Intro To Topology	3
Option: C		
STA 474C	Intro To Math Statistics II	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3

Year 4 - Fall		
Choose one of the options below:		
Option: A		
MAT 411	Intro To Abstract Algebra	3
Option: B		
MAT 431	Introduction To Analysis	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	2

University Requirements Specified by Major	
Foundation Requirements: English (FNRQ:ENG)	ENG 105 (4)
Science/Applied Science (SAS/LAB)	CS 122 (2), CS 122L (1)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.
The math foundation requirement for this major is waived.

You must have a grade of C or better in each mathematics or statistics course that is used to fulfill the requirements for this major.

* Major electives include 12 units of Mathematics/Statistics course work from ~~MAT 239~~ ^(MAT 220, 226, or 239) or any MAT or STA course numbered 300 or above (except MAT 302, 401, 402, 405 and 406)

** If you complete a minor in Computer Science, CS 122/L is not required, and another liberal studies course is needed.

CONTACT INFORMATION

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EMAIL: adelmathematics@nau.edu
<http://www.cefns.nau.edu/Academic/Math/>

- ① { MAT 220 Intro to Mathematical Reasoning (3)
 { or
 { MAT 226 Discrete Mathematics (3)

- ② { STA 270 Applied Statistics (3)
 { or
 { STA 275 Statistical Analysis (3)