



MNAS Program Overview

- For the graduate student who is looking for the professional edge. Many of our students plan to advance their education after the graduate level in post-graduate studies.
- 32 hour interdisciplinary program with a primary emphasis area of 16 credits and secondary emphasis of at least 9 credits.
- Work directly with an advisory committee dedicated to helping you meet your academic and professional goals.
- Increase your marketability by developing an advanced set of skills.
- Access state-of-the-art facilities for research and other academic endeavors.
- Enjoy multiple career opportunities in the sciences.

Why Pursue the MNAS Degree at Missouri State?

The MNAS program is the only one of its kind in the southwest Missouri region. This unique program offers a wide spectrum of choices for selecting two areas of study in multiple departments or schools. This option typically requires that you complete a minimum of 32 credit hours and takes approximately two years to complete. You will select a primary emphasis to study, and you will be required to complete a minimum of 16 credit hours from one of the following areas:

- Agriculture
- Biology
- Chemistry
- Computer science
- Geography, Geology and Planning
- Mathematics
- Physics, Astronomy and Materials Science

- You will also select a secondary emphasis to study, which requires at least nine credit hours. You may select from the list above, or an advisor may assist you in tailoring a program that fits your career goals. Two common secondary emphasis areas include business and education.

MNAS Two-Year Tracks for Online/Summer/Evening

Three customized programs are presented that can be completed by taking courses online, in evening hours, and during the summer, without coming to campus during typical daytime class hours.

Note that these are just examples of three possible options. You will work directly with your advisory committee to develop your individualized program of study and complete a thesis, research paper, or internship project.

Primary Emphasis Geography, Geology and Planning Biology Secondary Emphasis

YEAR 1

	Fall		Credit hours
	GEO 700	Intro to Grad Study in Geospatial Science	3
	BIO 798	Research <i>(arranged with advisor)</i>	3
	Spring		
	GEO 675	GPS Surveying and Mapping	3
	GEO 701	Research Methods in Geospatial Science	3
	Summer		
	BIO 627	Field Biology (locations vary; e.g. Ecuador, Brazil or Jamaica) - <i>short-term study away</i>	3
	BIO 697	Topics in Biology (topics vary; e.g. Riparian Ecology, Plants in Ozarks Culture, Botany for Educators) - <i>at Bull Shoals Field Station</i>	3

Year One Total 15

YEAR 2

	Fall		Credit hours
	BIO 728	Recent Advances in Biology (topics vary; e.g., Turtle Biology, Mussel Biology)	1
	BIO 794	Scientific Writing	2
	BIO 661	Environmental Interpretation and Education	3
	GRY 799	Thesis <i>(arranged with advisor)</i>	3
	GLG 680	Geochemistry	3
	Spring		
	GRY 731	Environmental Assessment	3
	GRY 751	Topics in Advance Physical Geography (topics vary; e.g. Impacts on Ozark Watersheds)	3
	GRY 799	Thesis <i>(arranged with advisor)</i>	2
	Summer		
	GRY 779	Research <i>(arranged with advisor)</i>	3
	GEO 770	Advanced Field and Laboratory Methods (topics vary; e.g. Ozarks Watershed Monitoring)	3

Year Two Total 17
Degree Total 32

Primary Emphasis Biology Chemistry Secondary Emphasis

YEAR 1

	Fall		Credit hours
	BIO 794	Scientific Writing	2
	CHM 760	Chemistry of Environmental Systems I	3
	BIO 798	Research <i>(arranged with advisor)</i>	3
	Spring		
	BIO 616	Evolution	3
	BIO 670	Water Resources	3
	CHM 762	Chemistry of Environmental Systems Lab	2
	BIO 798	Research <i>(arranged with advisor)</i>	2
	Summer		
	BIO 627	Field Biology (locations vary e.g., Ecuador, Jamaica)	3

Year One Total 18

YEAR 2

	Fall		Credit hours
	BIO 728	Recent Advances in Biology (topics vary; e.g., Turtle Biology, Mussel Biology)	1
	BIO 799	Thesis	4
	BIO 790	Degree Paper <i>(arranged with advisor)</i>	3
	Spring		
	CHM 735	Investigations in Chemistry for Teachers	3
	CHM 761	Chemistry of Environmental Systems II	3
	Summer		
	BIO 697	Topics in Biology (topics vary; e.g., Ozark Lichens, Sustaining Life) - <i>at Bull Shoals Field Station</i>	3
	BIO 685	Marine Conservation	3

Year Two Total 14
Degree Total 32