

# Academic Affairs

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## Geospatial and Remote Sensing Minor

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The Geospatial and Remote Sensing (GRS) minor is a cross-disciplinary program that allows students from any major to develop and enhance their geospatial skills. Students will learn important theoretical concepts associated with geographic information systems and remote sensing sciences, and they will acquire the ability to use these methods to solve spatial problems. Graduate students must complete a minimum of 12 hours of GRS coursework at Mississippi State University with a grade of C or higher from a list of approved courses. A 3.00 GPA is required. An MSU Graduate Faculty member with geospatial expertise must serve as minor professor on the student's graduate committee.

A student who chooses this minor must have the approval of his or her graduate committee and graduate coordinator in the major field. The minor coursework is then included on the student's program of study and is approved by the minor graduate coordinator.

GIS requirement: Choose one of the following. 3

FO 6471	GIS for Natural Resource Management Lab
and	
FO 6472	GIS for Natural Resource Management
GR 6303	Principles of GIS
WFA 6253	Application of Spatial Technologies to Wildlife and Fisheries Management

Remote Sensing: Choose one of the following. 3

FO 6453	Remote Sensing Applications
GR 6333	Remote Sensing of the Physical Environment
ECE 6423	Introduction to Remote Sensing Technologies
or ABE /PSS 6483	Introduction to Remote Sensing Technologies

Advanced Geospatial Coursework: Choose one of the following. 3

FO 6313	Spatial Technologies in Natural Resources Management
FO 8313	Spatial Statistics for Natural Resources
FO 8353	Ecological Modeling in Natural Resources
FO 8173	Advanced Spatial Technologies
GR 6313	Advanced GIS
GR 6343	Advanced Remote Sensing in Geosciences
GR 8303	Advanced Geodatabase Systems

Geospatial Applications : Choose one of the following. Courses must be different from the ones taken from the above categories. A course may not be used to satisfy more than one requirement. 3

ECE 6413	Digital Signal Processing
ECE 8401	Current Topics in Remote Sensing
ECE 8473	Digital Image Processing
GR 6323	Cartographic Sciences
GR 6353	Geodatabase Design
GR 6363	Geographic Information Systems Programming
GR 6411	Remote Sensing Seminar
or PSS /ECE /FO 6411	Remote Sensing Seminar
PSS 6373	Geospatial Agronomic Management

The following courses listed in the categories above can also meet this requirement if not used in another category.

FO 8173	Advanced Spatial Technologies
FO 8313	Spatial Statistics for Natural Resources
FO 8353	Ecological Modeling in Natural Resources
GR 6313	Advanced GIS
GR 6343	Advanced Remote Sensing
ST 4313	Spatial Statistics

Total Hours 12