

Academic Affairs

Geospatial and Remote Sensing Minor

Director: Dr. John Rodgers

Department of Geosciences

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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

The Career Center

Director: Scott N. Maynard

300 Montgomery Hall

Mississippi State University, MS 39762

Telephone: 662-325-3344

Website: <http://www.career.msstate.edu>

E-mail: smaynard@career.msstate.edu

Graduate students may enhance their studies with relevant experience through programs offered by the Career Center. Cooperative education and internships are available. Cooperative Education requires students to complete two work periods, one of which may be a summer. Internships are one semester in duration and may occur during any academic period (fall, spring, summer). Students are encouraged to seek specific information prior to, or immediately upon, enrollment in the graduate program.

These credit-hour programs will be included on a graduate student's transcript but cannot be used to satisfy course-hour requirements on a graduate student's program of study.

Cooperative Education Program

335 McCain Engineering Building
 Telephone: 662-325-3823
 Website: www.coop.msstate.edu

Associate Director: Angie Chrestman
 Box P
 Mississippi State, MS 39762
achrestman@career.msstate.edu

Seniors Coordinators: Lisa Gooden and Megan Artz

For further information contact Angie Chrestman (<http://catalog.msstate.edu/archives/2016-17/graduate/colleges-degree-programs/academic-affairs/#associate-director>).

Graduate Courses

CP 8013	First Work Semester (Approval of Cooperative Education Office, acceptance by employing organization, and admission to the University and Graduate School.)	3
CP 8023	Second Work Semester (CP 8013)	3
CP 8033	Third Work Semester (CP 8023)	3
CP 8043	Fourth Work Semester (CP 8033)	3
CP 8053	Fifth Work Semester (CP 8043)	3

International Institute**Associate Vice President and Executive Director: Dr. Richard (Rick) Nader**

116 Allen Hall
 PO Box 6144
 Mississippi State, MS 39762
 Telephone: 662-325-8632
 E-mail: international@msstate.edu
 Website: <http://international.msstate.edu/about/index.php>

The International Institute at Mississippi State University fully integrates our land-grant institution's 130-plus years of leadership, teaching, research, and service into the global area. Founded in June 2011, the Institute serves as the guide and champion of the University's international education, global engagement, and development activities. The Institute's mission enriches and expands the academic, research and cultural experiences of faculty, students, staff, and community through global outreach, research, and academic programs. The International Institute houses the English Language Institute, International Communications and Protocol, International Recruitment and Retention, International Services Office, International Research Development, and the Office of Study Abroad. These units within the Institute cover a broad range of international services to support and promote globalization internally on campus and through external outreach.

The English Language Institute serves as home to international students who are working to improve their English proficiency in preparation for matriculation into MSU. The International Services Office provides immigration services for faculty and students, as well as assistance for faculty, staff, and students traveling abroad. The Institute provides international recruitment services with an aim to leverage resources and attract talent to MSU through the International Recruitment and Retention Office. The Office of Study Abroad is responsible for providing support for faculty and students to study, observe, and understand divergent cultures internationally.

The University's strengths in research and capacity-building make it well positioned to address many of the world's more challenging problems. MSU faculty and researchers collaborate with international counterparts to improve academic and research capabilities, to share knowledge, and to address global challenges that require international cooperation on a range of technical, scientific, and policy expertise. The International Research Development unit aids in promoting the skills and expertise of our students and faculty and identifies potential interdisciplinary research and outreach activities. Through the International Communications and Protocol division, MSU facilitates international partnerships that impact on a global scale and welcomes meaningful university-to-university exchanges and collaborations with international counterparts. Lastly, the International Institute develops, promotes, and aids faculty and student engagement in international scholarly and research activities by maintaining relationships with sponsoring agencies such as the Fulbright Foundation.