



COLLEGE OF ARTS AND SCIENCES
LAMAR UNIVERSITY

Department of Earth and Space Sciences

The thesis-based Master of Science in Geospatial Sciences is a 30-credit hour graduate program comprised of 15 credit hours of core courses, 9 credit hours of elective courses and 6 credit hours of thesis.

▪ **Required Courses (4 courses), 15 credits:**

	Course Number	Course Name	Credit Hours
1	GEOL 5311	Principles of GIS	3
2	GEOL 5312	Advanced GIS Analysis and Applications	3
3	GEOL 5314	Principles of Remote Sensing	3
4	GEOL 5398	Thesis	6

▪ **Elective Courses (select only 5 courses), 15 credits:**

	Course Number	Course Name	Credit Hours
1	GEOL 5316	Remote Sensing Data and Applications	3
2	GEOL 5317	Seminar in Geospatial Sciences	3
3	GEOL 5313	Geospatial Research Project	3
4	GEOL 5301	Drone Photogrammetry and Applications	3
5	GEOL 5303	Advanced GPS Methods and Applications	3
6	CVEN 5370	GIS Applications in Engineering	3
7	COSC 5311	Advanced Data Mining	3
8	COSC 5340	Advanced Data Science and Big Data Analysis	3
9	GEOL 5301	Independent Study	3

▪ **Recommended Program of Study for thesis-based**

<i>First Year</i>					
Fall		Spring		Summer	
Course Number	Credits	Course Number	Credits	Course Number	Credits
GEOL 5311	3	GEOL 5312	3	GEOL 5301	3
GEOL 5314	3	GEOL 5316	3	GEOL 5398	3
GEOL 5303	3	GEOL 5317	3		
<i>Second Year</i>					
Fall					
Course Number	Credits				
CVEN 5370	3				
GEOL 5398	3				