



COLLEGE OF ARTS AND SCIENCES
LAMAR UNIVERSITY

Department of Earth and Space Sciences

The non-thesis Master of Science in geospatial sciences is a 36-credit hour graduate program comprised of 18 credit hours of core courses and 18 credit hours of elective courses.

▪ **Required Courses (12 courses), 36 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 5316	Remote Sensing Data and Applications	3
5	GEOL 5317	Seminar in Geospatial Sciences	3
6	GEOL 5313	Geospatial Research Project	3
7	GEOL 5301	Drone Photogrammetry and Applications	3
8	GEOL 5303	Advanced GPS Methods and Applications	3
9	CVEN 5370	GIS Applications in Engineering	3
10	COSC 5311	Advanced Data Mining	3
11	COSC 5340	Advanced Data Science and Big Data Analysis	3
12	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 5303	3	GEOL 5317	3		
<i>Second Year</i>					
Fall		Spring			
Course Number	Credits				
CVEN 5370	3	GEOL 5313	3		
COSC 5311	3	COSC 5340	3		
GEOL 5301	3				