

# Natural Resources and Environmental Sciences, MS

## Master of Science in Natural Resources and Environmental Sciences Degree Program Requirements

The MS in Natural Resources and Environmental Sciences is comprised of 36 SCH with a thesis or non-thesis option.

### Required Courses

NRES 5101	Seminar	1
NRES 5202	Advanced Research Methods in NRES	2
NRES 5303	Research Statistics in NRES	3
NRES 5312	Resources and Environmental Policy	3
NRES 5323	Hydrologic Processes in Soils	3
NRES 5324	Advanced Watershed Management	3
<b>Option (Select one below)</b>		<b>21</b>
<b>Total Hours</b>		<b>36</b>

### Thesis Option

<b>Thesis</b>		<b>6</b>
NRES 6600	Thesis	
<b>Prescribed Electives</b>		<b>15</b>
Select five from below:		
AGEC 5321	Land Use and Resource Management	
AGRO 5366	Principles of Environmental Science and Management	
AGRO 5375	Soils, Ecology, and Land Uses	
AGRO 5379	Problems and Issues in Environmental Science	
NRES 5305	Advanced GIS and RS for Environmental Management	
NRES 5310	Economic Analysis of Natural Resource Management	
NRES 5311	Human Dimensions of Natural Resource Management	
NRES 5322	Environmental Hydrology	
NRES 5325	Advanced Groundwater Hydrology	
<b>Total Hours</b>		<b>21</b>

### Non-Thesis Option

<b>Prescribed Electives</b>		<b>21</b>
Select seven from below:		
AGEC 5321	Land Use and Resource Management	
AGRO 5366	Principles of Environmental Science and Management	
AGRO 5375	Soils, Ecology, and Land Uses	
AGRO 5379	Problems and Issues in Environmental Science	
NRES 5305	Advanced GIS and RS for Environmental Management	
NRES 5310	Economic Analysis of Natural Resource Management	
NRES 5311	Human Dimensions of Natural Resource Management	
NRES 5322	Environmental Hydrology	
NRES 5325	Advanced Groundwater Hydrology	
<b>Total Hours</b>		<b>21</b>

## Master of Science in Natural Resources and Environmental Sciences Degree Sequence

### First Year

Fall - Semester 1	Hours	Spring - Semester 2	Hours
NRES 5101		1 NRES 5324	3
NRES 5202		2 Thesis or Non-Thesis Option	3
NRES 5303		3 Thesis or Non-Thesis Option	3
NRES 5312		3	
<b>Total</b>		<b>9 Total</b>	<b>9</b>

**Total Hours: 18**

### Second Year

Fall - Semester 1	Hours	Spring - Semester 2	Hours
NRES 5323		3 Thesis or Non-Thesis Option	3
Thesis or Non- Thesis Option		3 Thesis or Non-Thesis Option	3
Thesis or Non-Thesis Option		3 Thesis or Non-Thesis Option	3
<b>Total</b>		<b>9 Total</b>	<b>9</b>

**Total Hours: 18**

Name	Unit
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Total Semester Credit Hours: 36

## Marketable Skills

Marketable skills, as defined by the Texas Higher Education Coordinating Board's 60x30TX Plan (<http://www.60x30tx.com/>), include interpersonal, cognitive, and applied skill areas, are valued by employers, and can be either primary or complementary to a major. Marketable skills are acquired by students through education, including curricular, co-curricular, and extracurricular activities.

### Degree Skills

1. Efficient and sustainable use of natural resources and the environment
2. Develop and implement solutions for a changing climate
3. Support low carbon and climate-resilient solutions

### Concentration Skills

1. Quantitative and qualitative skills in managing natural resources and the environment
2. Broad and comprehensive knowledge-base in natural resources and the environment
3. Ability to address the needs of greener living

### Co-curricular and Extracurricular Skills

1. Hands-on experience in dealing with unprecedented challenges
2. Comprehensive understanding of multi-disciplinary challenges
3. Understanding of technical and socio-economic dimensions of natural resource and environmental issues