

## Biosystems Engineering MS Curriculum

Core Coursework	Course	13 Units
Academic & Career Development for Graduate Students	BE 597A	1
Design of Experiments	STAT 571B	3
BE courses	choose from BE courses	9
Theory & Methods	Course	6 Units
Research Methods	BE 501	2
Graduate Seminar - presenting	BE 696A	2
Graduate Seminar - non-presenting	BE 696B	2
Thesis / Report	Course	5 Units
Thesis or Report	BE 910 or BE 909	5
Electives	Course	6 Units
Chosen with approval of Graduate Committee to support your area(s) of research		
TOTAL		30 UNITS

### Elective Suggestions

#### *Water Resources Emphasis*

Electives	Course	Units
Soil Physics	ENVS 570	3
Applications of Geographic Information Systems	RNR 503	3
Geographic Information Systems for Natural and Social Sciences	RNR 517	3
Wastewater Treatment Design Systems	CHEE/CE 576B	3

#### *Controlled Environment Agriculture*

Electives	Course	Units
Aquaculture	ACBS 556	3
Plant Physiology	PLS 575A	3
Greenhouse Pest Management: Methods & Practice	ENTO 597C	3
		3

#### *Remote Sensing Precision Agriculture*

Electives	Course	Units
Globalization, Sustainability, and Innovation	BE 552	3
Applications of Geographic Information Systems	RNR 503	3
Geographic Applications of Remote Sensing	RNR 583	3
Microbial Biogeochemistry and Global Change	PLS 510	3

**SAMPLE PLAN OF STUDY for MS in BIOSYSTEMS ENGINEERING**

<b>Semester 1</b>		<b>Semester 2</b>		<b>Semester 3</b>		<b>Semester 4</b>	
<b>Course prefix and number</b>	<b>Units</b>	<b>Course prefix and number</b>	<b>Units</b>	<b>Course prefix and number</b>	<b>Units</b>	<b>Course prefix and number</b>	<b>Units</b>
BE 597A Academic & Career Develop	1	BE 501 Research Methods	2	BE Elective	3	Elective	3
BE Electives	6	STAT 571B Design of Experiments	3	Elective	3	BE 696A Graduate Seminar I - presenting	1
BE 696B Graduate Seminar II – non- presenting	1	BE 696A Graduate Seminar I - presenting	1	BE 696B Graduate Seminar II – non- presenting	1	BE 910 or BE 909 Thesis or Report	2
BE 910 or BE 909 Thesis or Report	1	BE 910 or BE 909 Thesis or Report	1	BE 910 or BE 909 Thesis or Report	1	Schedule thesis / report defense	
<b>Total</b>	<b>9</b>	<b>Total</b>	<b>7</b>	<b>Total</b>	<b>8</b>	<b>Total</b>	<b>6</b>