

Biosystems Engineering PhD Curriculum

Core Coursework	Course	22 Units
Academic & Career Development for Graduate Students	BE 597A	1
Design of Experiments	STAT 571B	3
Mathematics / Modeling courses		6
BE courses	choose from BE courses	12
Theory & Methods	Course	8 Units
Research Methods	BE 501	2
Graduate Seminar - presenting	BE 696A	4
Graduate Seminar - non-presenting	BE 696B	1
Teaching Internship	BE 693	1
Dissertation/Research	Course	18 Units
Dissertation	BE 920	18
Minor		9-12
Follow Minor department's requirements		
Electives	Course	3-6 Units
Chosen with approval of Graduate Committee to support your area(s) of research		
TOTAL		63 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 PhD in BIOSYSTEMS ENGINEERING

Semester 1		Semester 2		Semester 3		Semester 4	
Course prefix and number	Units	Course prefix and number	Units	Course prefix and number	Units	Course prefix and number	Units
BE 597A Academic & Career Develop	1	BE 501 Research Methods	2	BE Elective	3	Minor course	3
BE Elective	3	STAT 571B Design of Experiments	3	Elective	3	Mathematics / Modeling Course	3
Mathematics / Modeling Course	3			BE 696B Graduate Seminar II – non- presenting		BE 696A Graduate Seminar I - presenting	1
BE 696B Graduate Seminar II – non- presenting	1	BE 696A Graduate Seminar I - presenting	1	BE 920 Dissertation	2	BE 920 Dissertation	2
BE 920 Dissertation	1	BE 920 Dissertation	2				
Total	9	Total	8	Total	8	Total	9

Semester 5		Semester 6		Semester 7		Semester 8	
Course prefix and number	Units	Course prefix and number	Units	Course prefix and number	Units	Course prefix and number	Units
BE Elective	3	Minor course	3	BE Elective	3	Minor course	3
Elective	3	BE 693 Teaching Internship	1				
BE 696B Graduate Seminar II – non- presenting		BE 696A Graduate Seminar I - presenting	1	BE 696B Graduate Seminar II – non- presenting		BE 696A Graduate Seminar I - presenting	1
BE 920 Dissertation	2	BE 920 Dissertation	3	BE 920 Dissertation	3	BE 920 Dissertation	3
		Schedule Comprehensive Examination				Schedule dissertation defense	
Total	8	Total	8	Total	6	Total	7