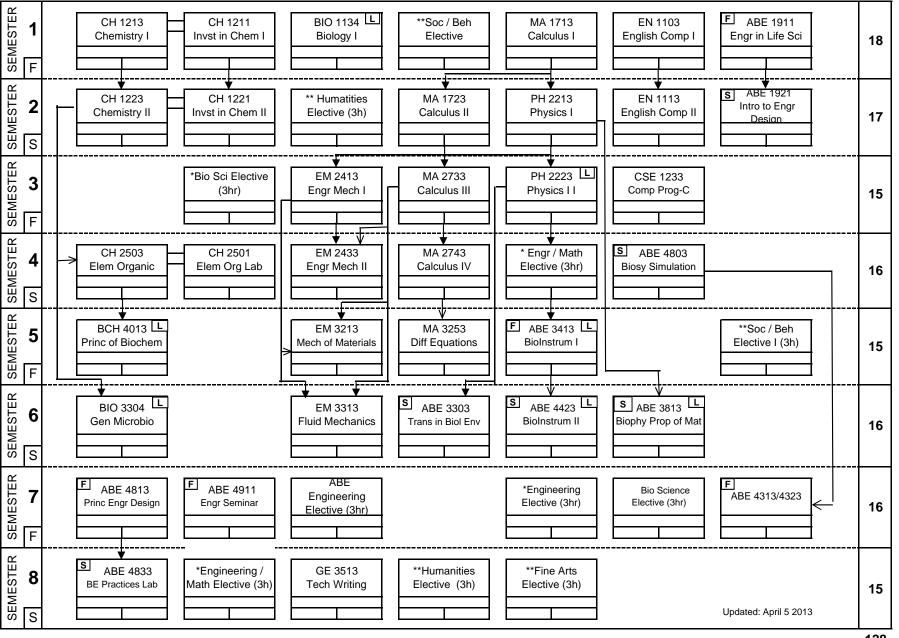
BIOLOGICAL ENGINEERING CURRICULUM

MISSISSIPPI STATE

Base Curriculum Flowchart ('12-'13)

Name: _____ NetID: _____ Advisor: _____



L - Lab Included

F - Fall

S - Spring

* Restricted elective course options are listed on the back

Total 128

^{**} University core cirriculum elective options are listed on a separate page

Biological Science Electives: BIO 2103 - Cell Biology BIO 3103 - Genetics with lab BIO 3504 - Comparative Anatomy (with Lab) BIO 4114 - Cellular Physiology (with Lab) BIO 4413 - Immunology BIO 4503 - Vertebrate Histology (with Lab)	BIO 4324 - Soil Microbiology with lab BIO 4404 - Environmental Microbiology with lab BIO 4504 - Comp Vertebrate Embryology (with Lab) BIO 4433 - Principles of Virology ADS 4613 - Physiology of Reproduction BCH 4113 - Essentials of Molecular Genetics CVM 2443 - Essentials of Biotechnology WF 3133 - Applied Aquatice Ecology with lab
BIO 4504 - Comparative Vertebrate Anatomy BIO 4514 - Animal Physiology (with Lab) BIO 3104 - Ecology BIO 4204 - Plant Anatomy with lab BIO 4213 - Plant Ecology	WF 4372 - Water quality management ADS 4213 - Livestock Nutrient Analysis ADS 3213 - Perfomance Analysis of Meat Animals with lab PSS 4103 - Forage and Pasture Crops with lab FO 4452 - Remote Sensing Applications with lab (FO 4451)

Engineering / Math Electives: CE 3803 - Environmental / Water Resources Engineering with lab (CE 3801) CE 3813 - Wnvironment/Water Resources Engineering with lab (CE 3813) CE 4843 - Advanced Sanitary Analysis CE 4893 - Hazardous Waste Management CHE 4613 - Air Pollution Control Design CHE 4623 - Hasardous Waste Incineration CHE 4990 - Pollution Abatement and Control ECE 3714 - Digital Devices and Logic Design with lab EM 4123 - An Intro to Finite Element Method EM 4123 - Advanced Mechanics of Materials EM 4213 - Advanced Mechanics of Materials EM 4213 - Advanced Mechanics of Materials EM 4213 - Human Factor Engineering IE 4533 - Project Management IE 3913 - Engineering Economy IMA 3113 - Intro to Linear Algebra MA 4373 - Intro to Partial Differential Equation MA 4543 - Intro to Mathematical Statistics ME 4483 - Computer Aided Design ME 3533 - Thermodynamics ME 4483 - Computer Aided Design ME 3533 - Thermodynamics ME 4743 - LabVIEW ME 3133 - Modeling and Manufacturing EG 1143 - Graphic Communication CSE 4613 - Bio-Computing CSE 4623 - Computational Biology PH 2233 - Physics III				
	(CE 3801)	CE 3803 - Environmental / Water Resources Engineer CE 3813 - Wnvironment/Water Resources Engineer CE 4843 - Advanced Sanitary Analysis CE 4893 - Hazardous Waste Management CHE 4613 - Air Pollution Control Design CHE 4623 - Hasardous Waste Incineration CHE 4990 - Pollution Abatement and Control ECE 3714 - Digital Devices and Logic Design with la EM 4123 - An Intro to Finite Element Method EM 4133 - Mechanics of Composite Materials EM 4213 - Advanced Mechanics of Materials	IE 3913 - Engineering Economy IMA 3113 Linear Algebra MA 4373 - Intro to Partial Differential Equat MA 4543 - Intro to Mathematical Statistics ME 4403 - Machine Design ME 4833 - Intermediate Fluid Mechanics ME 4483 - Computer Aided Design ME 3533 - Thermodynamics ME 4653 - Fluid Power Control ME 4743 - LabVIEW ME 3133 - Modeling and Manufacturing EG 1143 - Graphic Communication CSE 4613 - Bio-Computing CSE 4623 - Computational Biology	

ABE Engineering Electives:

ABE 2873 - Land Surveying
ABE 3513 - GPS/GIS for Engr & Ag with lab
ABE 4513 - Dynamics of Aging
ABE 4533 - Rehabilitation Engineering
ABE 4613 - Biomechanics ABE 4723 - Tissue Engineering
ABE 4624 - Exp Methods Material Research
IE 4733 - Linear Programming