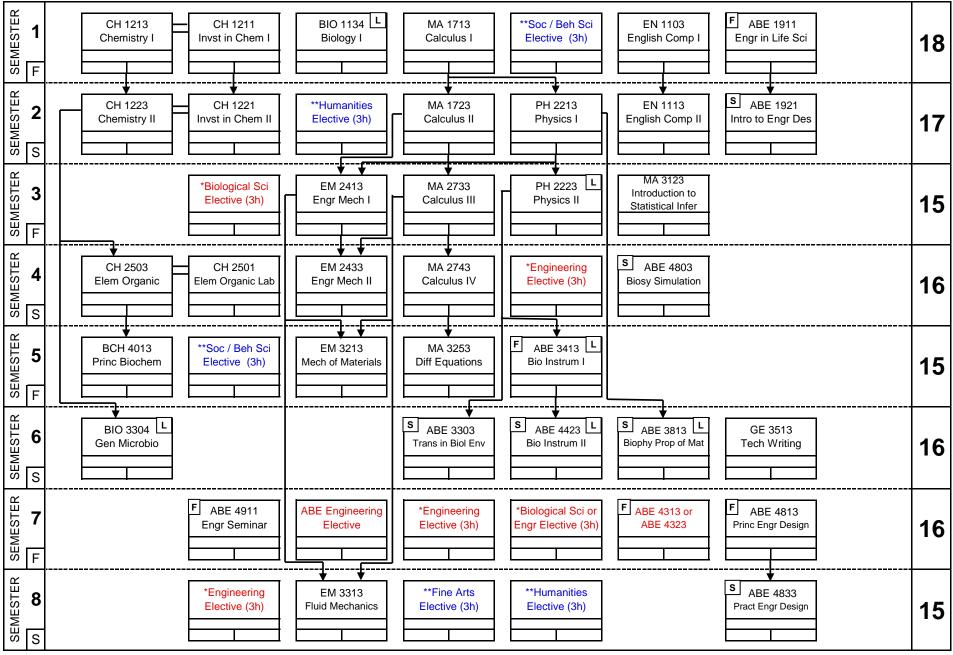
# UNIVERSITY

## MISSISSIPPI STATE BIOLOGICAL ENGINEERING CURRICULUM

Flowchart (Effective 8/17/2015)

Name:	
Student ID#	
Net ID:	
Advisor:	



L - Lab Included

F - Fall

S - Spring

<sup>\*</sup> Restricted elective course options are listed on the back

<sup>\*\*</sup> 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 4504 - Comp Vertebrate Embryology (with Lab)

BIO 4514 - Animal Physiology (with Lab)

BIO 3104 - Ecology (with Lab)

BIO 4204 - Plant Anatomy (with Lab)

BIO 4213 - Plant Ecology (with Lab)

BIO 4324 - Soil Microbiology (with Lab)

BIO 4404 - Environmental Microbiology (with Lab)

BIO 4502 - Toxicology

WF 3133 - Applied Aquatic Ecology (with Lab)

WF 4372 - Water Quality Management

ADS 3213 - Performance Analysis of Meat Animals (with Lab)

ADS 4213 - Livestock Nutrient Analysis

PSS 4103 - Forage and Pasture Crops (with Lab)

FO 4452 - Remote Sensing Applications (with Lab - FO 4451)

#### **Engineering Electives:**

CE 3803 - Environ/Water Resources Engineering I (with Lab CE 3801)

CE 3813 - Environ/Water Resources Engineering II (with Lab CE 3811)

CE 4843 - Advanced Sanitary Analysis

CE 4893 - Hazardous Waste Management

CHE 4613 - Air Pollution Control Design

CHE 4623 - Hazardous 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 4133 - Mechanics of Composite Materials

EM 4213 - Advanced Mechanics of Materials

IE 3913 - Engineering Economy I

IE 4173 - Occupational Safety Engineering

MA 3113 - Intro to Linear Algebra

MA 4373 - Intro to Partial Differential Equations

MA 4543 - Intro to Mathematical Statistics I

ME 4403 - Machine Design

ME 4833 - Intermediate Fluid Mechanics

ME 4483 - Computer-Aided Design

ME 4653 - Fluid Power Control

### **ABE Engineering Electives:**

ABE 2873 - Land Surveying (with Lab)

ABE 3513 - GPS/GIS for Engr & Ag (with Lab)

ABE 4483 - Introduction to Remote Sensing Technologies

ABE 4513 - Dynamics of Aging

ABE 4523 - Biomedical Materials

ABE 4533 - Rehabilitation Engineering

ABE 4613 - Biomechanics

ABE 4723 - Tissue Engineering and Regeneration