Food, Agricultural and Biological Engineering – Biological Engineering Option
2008-2009 (including: Ecological, Bio-environmental, Biological, Pre-Vet and Pre-Med options)

Name: _____ Student ID: _____ Phone: _____

New to OSU: _____ E-mail: _____@osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Chem 121 (Gen Chem)……..5____ Engr 181 (Intro to Engr I)……..3____ Math 151 (Calc & Analyc Geom……5____ Engr 100.08 (Engr Survey)…….1____	Chem 125 (Chem. for Engr)……..4____ Engr 183 (Intro to Engr II)……..3____ Math 152 (Calc & Analyc Geom)…… 5____ Physics 131 (Partcls & Motion)…… 5____	Biology 113 (Energy Trans & Devl)……5____ EnGraph 167 (Prob Slv Prog Engr) ***or*** CIS 202 (Prog Algro Engr &Sci)……4____ Math 153 (Calc & Analyc Geom)……..5____ Physics 132 (Electrcty &Magntsm)……5____
2	Biology 114(Form,Fnct, Divst Ecol).5___ FABE 225 (Intro to FABE)……..3____ Math 254 (Calc & Analyc Geom)……5____ ME 410 (Statics)……..4____	FABE 325 (Trans in FAB Systs)…… 3____ Math 415 (Ord Part Dff Equat)…… 4____ ME 430 (Dynamics)…….. 4____	^Chem 231 ***or*** 251 (Organic Chem)…3____ **EnGraph 410A (Comp Graph)……3____ FABE 373 (Soil & Water Engr)……..3____ Physics 133 (for Bio Engs)……..5____ ***or*** (Ecol Engs take*)EEOB 503.01…..4____
3	^^Biochem 511 (Intro to BioChem.)5____ CE 413 (Fluid Mechanics)……..4____ FABE 545 (Agr Structures)…… 4____	FABE 425 (Anlys Elem Bio-Phys Sys)…4____ ISE 504 (Engr Econ Analysis)……..3____ ME 501 (Thermodynamics)……..4____	FABE 525 (Elec Pwr Sys for Agr)……4____ FABE 650 (Dsgn Wast Mngmt Sys)……4____ ME 510 (Heat Transfer)……..3____
4	+FABE 773(Engr Soil-Wtr Mgt) …..4____ FABE 605 (Measure & Instrumnt)…4____ FABE 625 (Mdl & Dsgn Biol Sys)….4____ FABE 695 (Prof Develp)……..1____ FABE 723 (Capstne Design I)……..2____	OR……FABE 645 (See Spring)…….. FABE 724 (Capstone Dsgn II)……..2____	+FABE 645 (Env Cntr for Agr Struct)…….4____ FABE 725 (Capstone Dsgn III)……..2____

Courses printed in BOLD are taught one quarter per year.

Please check On-line Course Offerings for availability of other courses.

GENERAL EDUCATION (35 hrs)

English & Communication Skills (10)
English 110.xx (5) _____
(367.) (5) _____

A total of 25 hours (or 5 courses) must be taken between History, Arts & Humanities, and Social Sciences

History Survey (5-10)
_____ ( ) _____
_____ ( ) _____

Arts and Humanities (5-10)
_____ ( ) _____
_____ ( ) _____

Social Sciences (5-10)
_____ ( ) _____
_____ ( ) _____

TECHNICAL ELECTIVES: Biol: 14 hrs. Ecol: 15 hrs.

_____ ( ) _____
_____ ( ) _____
_____ ( ) _____
_____ ( ) _____
_____ ( ) _____
_____ ( ) _____
Total _____

Ethics (5) (May overlap with A&H or Soc Science)
_____ ( ) _____

Social Diversity (May overlap another GEC)
_____ ( ) _____

Admissions Condition(s) (if applicable)
_____ ( ) _____

HOURS REQUIRED

Sub-total Core ……Biol….146
……Ecol…145
Technical Elective……Biol…..14
……Ecol…..15

General Education…… 35

TOTAL required hours: 195

^ Chem 251 recommended only for students in pre-Health options
^^Substitutes available – see advisor
+ Students may choose either FABE 645 or FABE 773t
* Ecological Engineering students must take EEOB 503.01(Intro to Ecology)
** Preferred, but EnGraph 410 accepted

Acceptance into the Food, Agricultural and Biological Engineering major will depend upon the cumulative point-hour ratio (CPHR) and the secondary point-hour ratio (*SPHR*) at completion of the following pre-major courses: *Math 151, 152; Physics 131; Chemistry 121, and Engineering 181 & 183.* A minimum *SPHR* of 2.0 is required. Students with a CPHR of 3.0 are assured acceptance. Currently there is no limit to the number of students accepted annually. See the departmental Academic Program Coordinator in 213 AE for application details.