Food, Agricultural and Biological Engineering – Food Engineering Option 2008-2009

DRAFT of Update (Unofficial until approved)

Name: _____ Student ID: _____ Phone: _____

New to OSU: _____ email: _____@osu.edu

| YEAR | AUTUMN | WINTER | SPRING |
|---|---|---|---|
| 1 | Chemistry 121 (Gen Chem).....5____<br>Engineering 181 (Intro to Engr I).....3____<br>Math 151 (Calc & Analyc Geom)..... 5____<br>Engr 100.08 (Eng Survey) .....1____ | Chemistry 125 (Chem for Engr).....4____<br>Engineering 183 (Intro to Engr I I)...3____<br>Math 152 (Calc & Analyc Geom).....5____<br>Physics 131 (Partcls & Motion).....5____ | EnGraph 167 (Prob Slv Prog Engr)<br>*or* CIS 202 (Prog Algro Engr& Sci)...4____<br>Math 153 (Calc & Analyc Geom).....5____<br>Physics 132 (Electrcty & Magntsm)….5____ |
| 2 | FABE 225 (Intro to FABE)..... 3____<br>Math 254 (Calc & Analyc Geom).....5____<br>MSE 205 (Intro to MSE)..... 3____<br>Physics 133 (Electrdynmc & Quant)...5____ | Biology 113 (EnergyTrans & Devl).....5____<br>Chem 520 (Physical Chemisty).....3____<br>FABE 325 (Trans in FAB Systs).....3____<br>Math 415 (Ord Part Dff Equat).....4____ | ChBE 420 (ChBE Trans Phenmn).....4____<br>Chem 231 (Organic Chemistry).....3____<br>*EnGraph 410A (Computer Graph)....3____<br>Microbiology 509 (Bacs& Prac Micro)5____ |
| 3 | ChBE 508 (Thermodynamics I).....3____<br>ChBE 521 (Transport Phenmn).....3____<br>ISE 504 (Eng Econ Analysis).....3____ | ChBE 509 (Thermodynamics II).....3____<br>ChBE 522 (Transport Phenmn II).....3____<br>FABE 425 (Anlys Elem Bio-Phys Sys)4____ | FABE 525 (Elec Pwr Sys for Agr).....4____<br>FST 636.01 (Food Microbiology).....3____ |
| 4 | FABE 605 (Measure & Instrumnt).....4____<br>FABE 625 (Mdl & Desgn Biol Syst).....4____<br>FABE 695 (Prof Development).....1____<br>FABE 723 (Capstone Dsgn I)..... 2____ | FABE 584 (Food Process Engr).....4____<br>FABE 724 (Capstone Dsgn II).....2____ | ChBE 610 (ChBE Kinetics).....4____<br>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 (15 hrs; min. 6 hrs. must be from engineering)

^FST 636.02 ( 1 ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

_____ ( ) _____

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 .....145

General Education.....35

Technical Electives.....15

TOTAL required hours: 195

* Automatic Substitutions for:
Eng Graph 410 A = En Graph 410

^FST 636.02 = 3 credit hours, credits are split between core and technical electives

^^Pre-Health students must take Chem 251 series

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*) upon 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 of 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.