Integrative Engineering – Environment & Energy Focus Typical Four-year Schedule

First Year:

<u>Fall</u> <u>Spring</u>

ES 101 Intro to Eng ES 103 Systems I MATH 161 Calculus I MATH 162 Calculus II

CHEM 107 General Chemistry I (L) PHYS 131/151 Physics I / Acc. Physics (L) First Year Seminar CHEM 108 General Chemistry II/Elective

Second Year:

Fall Spring/Study Abroad**
ES 201 Systems II (L) CS 104, 105, or 106/Elective

MATH 263 Calculus III MATH 264 DEQs with Linear Algebra

ES 231 Materials/Elective ES 231 Materials/Elective

CS 104 or 105 Elective CHEM 108 General Chemistry II /Elective* Elective

Third Year:

<u>Fall</u> <u>Spring</u>

CE 321 Env Eng & Sci (L) ES 303 Environment & Energy Systems

CE 251 Fluids/ChE 311 Transport ME 362 Fluids***/M, S, Eng Elective (see list)

or M, S, Eng Elective (see list)

ES 254 Thermodynamics EGRS 352 Energy, Techn & Modern World Engineering or Related Elective (see list) Engineering or Related Elective (see list)

EGRS 251 Intro to Eng Public Policy Elective

Fourth Year:

<u>Fall</u> <u>Spring</u>

Capstone I**** Capstone II****

Engineering Elective (see list)

Related Elective (see list)

M ,S, Eng Elective (see list) Elective Elective

Electives are used to fill the Common course of study (CCS) requirements: https://ccs.lafayette.edu/chart/

Note 1: Your 26 total courses for the IntE major must include 8 math/sci courses, EGRS 251, 13 engineering/cs courses + 2 M,S, Eng electives + 2 Environment & Energy related electives from any Division of the College.

Note 2: If you enter Lafayette with AP credit (e.g. for Calculus), talk to your advisor about how this schedule could be modified for your particular situation.

Note 3: If you switch to IntE in your second year, move ES 103 to spring second year, and ES 201 to fall third year.

st If you are especially interested in ecological applications in engineering, you may want to take BIOL 111

^{**}If study abroad, a Lafayette faculty-led program for engineering students or the DIS-Stockholm program is recommended – discuss the options with your advisor

^{***}take ME 362 this semester if you did not previously take CE 251 or ChE 311

^{****}two-semester capstone course offered by CE or ME related to Environment & Energy – under certain circumstances, Honors Thesis (ES 495 & ES 496) can be substituted for capstone