

Four Year Road Map: Natural Resources and Environmental Engr. Specialization

This Road Map is a tool to assist you and your advisor in planning your academic career. Use it along with the Curriculum Sheet for your major, your DARS report, the appropriate checklist in the back of this document, and the Timetable. Your specific program of study could, and probably will, look different. You need to customize the Road Map to fit your situation, and consult with your advisor about the best path for you.

Year 1 – Fall Semester Course	Credits
Math 221 - Calculus and Analytic Geometry	5
Chemistry 109 - Advanced General Chemistry	5
Social Science (See I.E.4)	3
EPD 155 – Basic Communication (See I.C.)	2
	15

Year 2 – Fall Semester Courses	Credits
Math 234 – Calculus - - Functions of Several Variables	3
Computer Science 310 - Problem Solving Using Computers	3
BSE 201 – Surveying	1
Statistics 224 – Introductory Statistics for Engineers	3
BSE 249 – Engineering Principles for Biological Systems	3
Ethnic Studies/International (See I.E. & I.H.)	3
	16

Year 3– Fall Semester Courses	Credits
BSE 473 – Irrigation and Drainage Systems Design	2
BSE 364 – Engineering Properties of Food and Biological Materials	3
CEE 310 – Fluid Mechanics	3
Technical Elective (See VI.D.)	3
Technical Elective (See VI.D.)	3
Technical Elective (See VI.D.)	3
	17

Year 4– Fall Semester Courses	Credits
BSE 509 – Biological Systems Engineering Senior Design	3
BSE 372 – On-Site Wastewater Treatment and Dispersal	2
ISYE 313 – Engineering Economic Analysis	3
Humanities (See I.E.3)	3
Breadth Requirement (See VI.D.)	3
BSE 409-Career Management for Engineers	1
	15

Year 1 – Spring Semester Courses	Credits
Math 222 - Calculus and Analytic Geometry	5
Biological Science (See I.F.)	3
EMA 201-Statics	3
Economics Course	4
M E 170 – Civil Engineering Graphics	2
	17

Year 2 – Spring Semester Courses	Credits
M E 361 - Thermodynamics	3
BSE 375 Biological Concepts for Engineers	3
EMA 303 – Mechanics of Materials	3
Physics 202 – General Physics	5
Ag & Life Sciences (See VI.C.)	3
	17

Year 3 – Spring Semester Courses	Credits
BSE 472 – Sediment and Bio-Nutrient Engineering and Management	3
BSE 365 – Measurements and Inst. for Biological Systems	3
EPD 397 – Technical Communications (See I.C.)	3
Technical Elective (See VI.D.)	3
Technical Elective (See VI.D.)	3
	15

Year 4 – Spring Semester Courses	Credits
BSE 571 – Small Watershed Engineering	3
Humanities (See I.E. 3)	3
Technical Elective (See VI.D.)	3
Technical Elective (See VI.D.)	3
Technical Elective (See VI.D.)	4
	16

Notes: Need 128 credits to complete degree. If Chemistry 103 & 104 is taken in place of Chemistry 109, it is suggested to take Chemistry 103 in Fall semester and Chemistry 104 in Spring semester of year 1.