Construction Technology College of Agricultural

Technology



Sciences and Natural Resources (CASNR)



Construction

concentration is designed

prepare you for entry into the very

The

One of four Engineering Technology concentrations within the Environmental & Soil Sciences (ESS) Degree:

- Agricultural Systems Technology
- Construction Technology
- Land Surveying Technology
- Off Road Vehicle Technology

These concentrations are applied technology programs which are highly focused on specific technical areas. These tracks are designed to provide skills required to manage the sophisticated technological systems that are increasingly essential in today's world. The various tracks all provide a strong basic science foundation, and add coursework designed to create programs of study which emphasize the application of technology in today's world. Coursework in economics and the management of a small business are also included, along with oral and written communication.

broad and diverse range of careers related to construction. This could lead to construction opportunities management areas such residential. agricultural, commercial, paving and excavation construction. Students in a program of this type typically enjoy the outdoors, and enjoy the sense of accomplishment that can quickly realized seeing a project grow from an idea to finished product. This field relies on knowledge from engineering, construction, and business; skills related to teamwork leadership are important as well. The program is designed to provide you a strong background science and math, in exposure to relevant technology such as CAD, GPS/GIS, sensors electronic information and transfer. In addition, the added emphasis on business related



While these programs provide a rigorous background in math and science, and include courses in engineering, they differ from those leading to B.S. in Engineering. The Engineering degrees have unique entrance requirements and are accredited programs which focus on design and lead to registration as a Professional Engineer.





Knoxville, TN 37996-4531 Eric C. Drumm, Ph.D., P.E. Contact: Professor and Head

865-974-7266



coursework in the Construction

Technology track leads to a Minor

in Business Administration.



University of Tennessee

B.S. Environmental and Soil Sciences Construction Technology Concentration

(includes Minor in Business Administration)

Freshman Freshman	
Geology 101 4 ¹ Gen Ed Elective (Social Sciences)*	3
CHEM120 General Chemistry I* 4 Geology 102	4
ENGL101 English Composition I* 3 CHEM130 General Chemistry II*	4
MA151 Math for the Life Sciences I* <u>3</u> ENGL102 English Composition II*	3
14 MA152 Math for the Life Sciences II*	3
	17
Sophomore Sophomore	
SPEECH210 or 240 Public Speaking (OC)* 3 Gen Ed Elect.(Cultures & Civilizations)*	3
ACCT200 Accounting ² 3 ¹ Gen Ed Elective (Arts & Humanities)*	3
ANR290 Computer Applications 3 ENGL360 Tech & Prof Writing (WC)* or	
ECON201 Intro. Econ. (Social Sciences)* ² 4 ENGL 295 Bus & Tech Writing (WC)*	3
PHYSICS221 Elements of Physics* <u>4</u> ESS210 <u>Introduction to Soil Science</u>	4
- '	<u>3</u>
	16
Junior Junior	
Business Administration 201 ² 4 Gen Ed Elect.(Cultures & Civilizations)*	3
BsET412 <u>Surveying</u> 3 BsET326 <u>GIS/GPS Applications in Agriculture and</u>	
Business Law 301 (3) Legal Environment of Business 3 Environmental Science	3
BsET414 CAD Applications to Biosystems CE 442 Construction Methods and Equipment	3
Engineering Technology 3 Management 300 ²	3
	3
16	15
Senior Senior	
Technical Elective 3 ¹ Gen Ed Elective (Arts & Humanities)*	3
Finance 301 ² 3 Marketing 300 ²	3
CE 543 Construction Estimating 3 BsE 404 Engineering Project Management	3
BsET434 Production Monitoring & Automation 3 BsET432 Agricultural Machinery and Tractors	3
Technical Elective <u>3</u> <u>BsET 411 Construction Issues Seminar</u>	_1
15	13

123 Hours Total

Suggested Technical Electives: BsET 202, BsET474, Safety 443, Safety 452, Safety 460, ESS 334, ESS 444



^{*}Meets University General Education Requirement

¹Select from the corresponding University General Education list after consultation with advisor. This track specifically recommends Spanish 211 & 212 Intermediate Spanish (3 + 3).

²Requirement for Minor in Business Administration