Engineering Technology

Overview

TTC's Division of Industrial and Engineering Technology offers a wide array of associate degrees and certificates designed to provide excellent career opportunities in the highly technical and rapidly expanding area of engineering technology.

Courses offered within the department of Engineering Technology are designed to develop critical thinking and broad technical knowledge. The engineering technology principles learned are applied to practical engineering problems. Classroom study is related to shop, laboratory and field experience.

The associate degree programs require two years of study. The certificate programs require two to four semesters of study and are offered when sufficient interest is generated to support classsize groups. All have requirements for admission. Students interested in any of these programs should call the Department of Engineering Technology at 843.574.6156 for additional information on programs, scheduling and admission requirements. Any of the programs may be completed on a part-time basis, though it will require a longer period of time to do so.

General Information

As with all TTC programs, students interested in Engineering Technology programs should consult with a faculty advisor to discuss program requirements, class times and frequency of offerings. For more information, call 843.574.6156.

Cancellation Policy

TTC reserves the right to cancel courses due to inadequate enrollment.

Programs of Study

Associate Degree Programs

Civil Engineering Technology Electronics Engineering Technology General Technology

Engineering Design Graphics Mechanical Engineering Technology

Certificate Programs

Architectural Drafting Basic Electronic Journeyman I Chemical Engineering Transfer (USC) Civil Drafting Civil Engineering Transfer (The Citadel) Civil/Mechanical Engineering Transfer (USC) Computer Aided Design I Computer Aided Design II Construction Management Electrical Drafting Electrical Engineering Transfer (The Citadel) Electrical Engineering Transfer (USC) **Engineering Design Graphics** Mechanical Drafting Mechanical Engineering Transfer (The Citadel) Surveying

Transfer Programs

Transfer Engineering Programs The Citadel University of South Carolina Clemson University

Civil Engineering Technology

Associate in Applied Science Credit Requirements: 63-67 Semester Credit Hours

Day

The Civil Engineering Technology program prepares students to perform at the technician level in engineering design, drafting, surveying and construction. Employers of Civil Engineering Technology graduates include engineering consultants, surveying firms, state and federal governments, public works, construction companies, highway departments and soil- and materials-testing firms. Graduates typically obtain jobs as building inspectors, construction superintendent trainees and soil- and concrete-testing technicians, and under the supervision of engineers. They aid engineers in the design of steel and concrete structures, highways, storm drainage, land development, sewage and water supply systems. They also obtain jobs as members of survey teams or in computer-aided drafting and design.

Recommended Sequence of Courses First Semester – Fall

		Total 16
	Trigonometry I	3
MAT 170	Algebra, Geometry and	
ENG 101	English Composition I	3
EGT 151	Introduction to CAD	3
CET 204	Fundamentals of Surveying	4
CET 120	Construction Materials	3

Second Semester – Spring

		Total 15
SPC 205	Public Speaking	3
PSY 201	General Psychology	3
EGT 152	Fundamentals of CAD	3
	Engineering Technology	3
EGR 290	Numerical Applications in	
	Environment	3
EGR 110	Introduction to Computer	

Third Semester – Summer

EGR 194	Statics and Strength of Materials	4
CWE	Cooperative Work Experience	4
	Tot	al 8

Fourth Semester – Fall

	Total 1	0-12
	Engineering Technology Electives	5
ELE CET	Select one course from the Civil	2-4
EGT 257	Advanced Civil CAD	3
CET 218	Hydraulics	3
CET 215	Soil Mechanics Fundamentals	2

Fifth Semester – Spring

	Total 14-1	6
	listing on page B-3	3
REQ HUM	Select one course from Humanities	
	Engineering Technology Electives	
ELE CET	Select one course from the Civil 2-	4
CET 251	Highway Design	3
CET 246	Environmental Systems Technology	3
CET 247	Introduction to Structural Design	3

Civil Engineering Technology Electives

CET 127	Building Construction and Print
	Reading
CET 135	Construction Contracts
CET 205	Surveying II
CET 230	Construction Management
CET 238	Construction Planning and
	Scheduling
CET 245	Cost Estimating
CWE	Cooperative Work Experience

Electronics Engineering Technology

Associate in Applied Science Credit Requirements: 68 Semester Credit Hours Dav

The Electronics Engineering Technology program prepares students for a broad range of jobs in the electrical and electronic fields. Graduates of the program may become employed as broadcast technicians, business machine technicians, customer service representatives, computer service technicians, engineering technicians, laboratory technicians, field engineering technicians, engineering aides, electrical sales technicians, technical writers and electrical instrument technicians.

Recommended Sequence of Courses First Semester – Fall

		Total 12
	Trigonometry I	3
MAT 170	Algebra, Geometry and	
ENG 101	English Composition I	3
	Environment	3
EGR 110	Introduction to Computer	
	Foundations	3
EGR 104	Engineering Technology	

Second Semester – Spring

EGR 290	Numerical Applications in	
	Engineering Technology	3
EET 113	Electrical Circuits I	4
EET 145	Digital Circuits	4
EGT 151	Introduction to CAD	3
		Total 14

Third Semester – Summer

EET 131	Active Devices	4
EGR 234	Control Principles	3
EET 274	Selected Topics	3
REQ HUM	Select one course from Humanities	
	listing on page B-3	3
	Total	13

Fourth Semester – Fall

MET 237	Fluids: Principles and Applica	tions 4
EEM 251	Programmable Controllers	3
EEM 252	Programmable Controller	
	Applications	3
MET 233	Applied Thermal Principles	4
		Total 14

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