

**CURRICULUM LEADING TO THE DEGREE  
OF BACHELOR OF SCIENCE IN  
ELECTRICAL ENGINEERING TECHNOLOGY  
(131 Credits)**

**FRESHMAN**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
E 150 English Composition I (NP).....	3	E 151 English Composition II (PR: E150).....	3
M 152 Pre-calculus (NP).....	3	M 153 Calculus I (PR: M152).....	3
CS 150 Computer Technology (NP).....	3	H 250 or H 251 History World Civil. (NP).....	3
PE 150/MS 101/HED 151 (NP).....	2	C 150 General Chemistry (NP).....	3
ET 170 Intro. To Engineering Technology (NP).....	3	C 151 General Chemistry Lab (CR: C150).....	1
UNIV 101 Intro. Univ. Community (NP).....	2	ET 150 Mechanical Draw/Basic CAD (NP).....	3
	16		16

**SOPHOMORE**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
ARTS 250/MU 250/D 254 (NP).....	3	EET 232 Electrical Network Analysis (PR: EET230, PR: P254, CR: M163/M168).....	3
M 163 Calculus II (PR: M153/M158).....	3	EET 233 Circuit Lab (CR: EET 232).....	1
P 254 General Physics I (PR: M153/M158).....	3	P 255 General Physics II (PR: P254) .....	3
P 251 General Physics I Lab (CR: P254).....	1	P 253 General Physics II Lab (CR: P255) .....	1
EET 230 Circuit Analysis (PR: M153/M158).....	3	EET 275 Engineering Mathematics (PR: M163/M168)	3
ET 212 Statics (PR: M152).....	3	ET 250 Technical Communications (PR: E151).....	3
M 250 Linear Algebra. for Science and Engineering (PR: M153/M158).....	3	E 250 or E 251 World Literature (PR: E151).....	3
	19		17

**JUNIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
EET 330 Electronics I (PR: EET230, PR: P254).....	3	EET 332 Electronics II (PR: EET330).....	3
ETS 250 African American. in Tech. & Sc. (NP).....	3	EET 382 Intro. to Microprocessors (PR: EET381).....	3
EET 381 Digital System Design & Analysis (Consent of Instructor).....	3	EET 383 Digital and Microproc. Lab (CR: EET382)...	1
EET 320 Intro. to Comp. Program. (PR: ET170).....	3	EET 392 Intr. to PLC and Virt. Instr. (PR: EET381)....	3
EET 374 Elect. Machines (PR: EET232, PR: P255).	3	ET 255 Engineering Econ. Analysis (PR: M152) .....	3
EAET 410 Engr. Ethics (Restricted Elect.).....	3	SOC 250/PSY 250 (NP).....	3
	18		16

**SENIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
EET 333 Electronics Lab (CR: EET332).....	1	EET 443 PLC and Virtual Instr. Lab (CR: EET392)....	1
EET 450 Intro. to Elect. Power Syst. (PR: EET374)....	3	EET 460 Senior Project (PR: EET 459).....	3
EET 453 Machine and Power Lab (CR: EET450) .....	1	EET 475 Comp. Aided Des. of Elect. Sys (Consent of Instructor). .....	3
EET 459 Sen.Proj.Prop. (PR: EET230, PR: EET330).	1	EET 480 Introduction to Robotics (PR: EET470).....	3
EET 470 Automatic Control Systems (PR: EET275)...	3	EET 483 Control & Robotics Lab (CR: EET480) .....	1
EET 375 Electronic Communication (PR: EET330)....	3	Elective .....	3
Elective .....	3		
	15		14

**Must pass English Proficiency Exam**

**Abbreviations:** NP- No prerequisite, PR- Pre-requisite and CR- Co-requisite

**Passing grades:** C for all EET courses, C for all ET and EAET courses, D for all math courses, D for CS150, D for all chemistry and all physics courses, C for E150 and E151, D for E250, E 251, D for H 250 and H 251, D for ARTS250, MU250, D254, SOC250, and PSY250

**CURRICULUM LEADING TO THE DEGREE  
OF BACHELOR OF SCIENCE IN  
INDUSTRIAL ENGINEERING TECHNOLOGY  
(128 Credits)**

**FRESHMAN**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
E 150 English Composition I (NP).....	3	E 151 English Composition II (PR: E150).....	3
M 152 Pre-calculus (NP).....	3	M 153 Calculus I (PR: M152).....	3
PE 150/HED 151/MS 101 (NP).....	2	ET 150 Mechanical Draw. & Basic CAD (NP).....	3
CS 150 Computer Technology (NP).....	3	C 150 General Chemistry I (NP).....	3
ET 170 Intro. to Engineering Technology (NP).....	3	C 151 General Chemistry I Lab (CR: C150).....	1
UNIV 101 Intro. Univ. Community (NP).....	2	H 250 or H 251 History World Civil. (NP).....	3
	16		16

**SOPHOMORE**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
M 250 Linear Algeb. for Sc. and Engg. (PR: M153).....	3	ARTS 250/MU 250/D 254 (NP).....	3
P 254/P250 General Physics I (PR: M153 or M158/M152).....	3	P 255/P 252 General Physics II (PR: P254/P250).....	3
P 251 General Physics I Lab (CR: P254/P250).....	1	P 253 General Physics II Lab (CR: P255/P252).....	1
M 163 Calculus II (PR: M153/M158).....	3	SOC 250/PSY 250 (NP).....	3
ET 212 Statics (PR: M152).....	3	E 250 or E 251 World Literature (PR: E151).....	3
MET 221 Machine Tool Lab (NP).....	3	IET 252 Industrial Statistics I (PR: M153).....	3
	16		16

**JUNIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
ETS 250 African Amer. in Tech. & Sc. (NP).....	3	ET 250 Technical Communication (PR: E151).....	3
ET 255 Engg. Econ. Analysis (PR: M152).....	3	IET 350 Industrial Safety Engineering (NP).....	3
ET 310 Engineering Computing (PR: CS150).....	3	IET 354 Motion and Time Study (PR: IET 252).....	3
IET 352 Industrial Statistics II (PR: IET252).....	3	IE 355 Simul. Model. of Ind. Syst. (PR: M163, PR: CS150).....	3
IE 353 Intro. to Mfg. Syst. Engg. (PR: M153/M158)...	3	IE 356 Plant Lay. and Mat. Handl. (PR: IET 252).....	3
IET 357 Ind. Oper. Research I (PR: M163/M168).....	3	ET 421 Thermodynamics (PR: M163/M168).....	3
	18		18

**SENIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
IET 450 Proj. Plan. and Control (PR: IET252).....	3	IE 460 Technical Project (PR: IET459).....	3
MET 427 NC Machinery (PR: MET221).....	3	IE 452 Statistical Quality Control (PR: IET252).....	3
IET 458 Human Factors Tech. (PR: IET252).....	3	IE 456 Product. and Invent. Control (PR: IET252).....	3
IE 459 Technical Project Proposal (Senior Standing).....	1	Elective.....	3
EAET 410 Engr. Ethics (Restricted Elective).....	3		
Elective.....	3		
	16		12

**Must pass English Proficiency Exam**

**Abbreviations:** NP- No prerequisite, PR- Pre-requisite and CR- Co-requisite

**Passing grades:** C for all IET courses, C for all ET and EAET courses, D for all math courses, D for CS150, D for all chemistry and all physics courses, C for E150 and E151, D for E250, E 251, D for H 250 and H 251, D for ARTS250, MU250, D254, SOC250, and PSY250

**CURRICULUM LEADING TO THE DEGREE  
OF BACHELOR OF SCIENCE IN  
CIVIL ENGINEERING TECHNOLOGY  
(131 Credits)**

**FRESHMAN**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
E 150 English Composition I (NP).....	3	E 151 English Composition II (PR: E150).....	3
M 152 Pre-calculus (NP).....	3	M 153 Calculus I (PR: M152).....	3
ET 150 Basic CAD (NP).....	3	CET 205 Computer Aided Design (PR: ET 150).....	3
PE 150 / MS 101 or HED 151 (NP).....	2	C 150 General Chemistry (NP).....	3
ET 170 Intro. To Engineering Technology (NP).....	3	C 151 General Chemistry Lab (CR: C150).....	1
UNIV 101 Intro. Univ. Community (NP).....	2	CS 150 Computer Science (NP).....	3
	16		16

**SOPHOMORE**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
M 250 Linear Algebra (PR: M153 or M158).....	3	P 255 General Physics II (PR: P254).....	3
M 163 Calculus II (PR: M153 or M158).....	3	P 253 General Physics II Lab (CR: P255) .....	1
P 254 General Physics I (PR: M15 or M158).....	3	ET 250 Tech. Communications (PR: E151).....	3
P 251 General Physics I Lab (CR: P254) .....	1	E 250 or E 251 World Literature (PR: E151).....	3
ET 255 Engineering Economics (M152).....	3	ET 213 Strength of Materials (ET 212).....	3
ET 212 Statics (PR: M152).....	3	A 250 / MU 250 or Drama 254 (NP).....	3
	16		16

**JUNIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
SOC 250 or PSY 250 (NP).....	3	EET 230 Circuit Analysis (PR: M153 or M158).....	3
ET 310 Engineering Computing (PR:CS 150) .....	3	ETS African American History (NP) .....	3
H 250 History (NP).....	3	ET 313 Dynamics (PR: ET 212).....	3
CET 319 Theory of Structures (ET213/M153 or M158)	3	CET 320 Hwy. Engineering (CR:CET 312).....	3
CET 311 Plane Surveying (PR: M152) .....	3	CET 315 Construction (PR: Junior Standing).....	3
ET 421 Thermodynamics (PR: M163 or M168/ P251/P254)	3	CET 312 Route Surveying (PR: CET 311) .....	3
	18		18

**SENIOR**

<b>First Semester</b>	<b>Credits</b>	<b>Second Semester</b>	<b>Credits</b>
CET 413 Structural Design I (PR: CET 319).....	3	CET 414 Structural Design II (PR: CET 319).....	3
CET 417 Material Testing Lab. (PR: ET 213).....	3	CET 412 Codes & Regulations (PR: Senior Standing)	3
CET 418 Soil Mechanics (PR: ET 213).....	3	CET 420 Water & Sewage (CR: C150/CET 415).....	3
CET 415 Fluid Mechanics (PR: ET 313).....	3	CET 460 Senior Project (PR: CET 459).....	3
CET 459 Senior Proj. Proposal (PR: Senior Standing)	1	Elective .....	3
<b>Restricted Elective (Select One)</b>	3		
EAET 410 Engineering Ethics or			
EAET 411 Role of Engineers (PR: Senior Standing)	16		15

**University/Departmental Policy requires that all students must pass the English Proficiency Examination.**

**Abbreviations:** NP-No Prerequisites, PR-Prerequisite, CR-Co-requisite

**Acceptable Minimum Passing Grades:** "C" for all CET, ET and EAET courses; "C" for E150 and E151, "D" for Math courses, Computer Science, Chemistry, Physics, English Literature, Art/Drama/Music, Sociology and Psychology courses.

**CURRICULUM LEADING TO THE DEGREE  
OF BACHELOR OF SCIENCE IN  
MECHANICAL ENGINEERING TECHNOLOGY  
(131 Credits)**

**FRESHMAN**

First Semester	Credits	Second Semester	Credits
E 150 English Composition I (NP).....	3	E 151 English Composition II (PR: E150).....	3
M 152 Pre-calculus (NP).....	3	M 153 Calculus I (PR: M152).....	3
ET 150 Basic CAD (NP).....	3	H 250 History (NP).....	3
PE 150 / MS 101 <i>or</i> HED 151 (NP).....	2	C 150 General Chemistry (NP).....	3
ET 170 Intro. To Engineering Technology (NP).....	3	C 151 General Chemistry Lab (CR: C150).....	1
UNIV 101 Intro. Univ. Community (NP).....	2	CS 150 Computer Science (NP).....	3
	16		16

**SOPHOMORE**

First Semester	Credits	Second Semester	Credits
MET 200 Advanced CAD (ET 150).....	3	P 255 General Physics II (PR: P254).....	3
M 163 Calculus II (PR: M153 <i>or</i> M158).....	3	P 253 General Physics II Lab (CR: P255) .....	1
P 254 General Physics I (PR: M153 <i>or</i> M158).....	3	ET 250 Tech. Communications (PR: E151).....	3
P 251 General Physics I Lab (CR: P254) .....	1	E 250 <i>or</i> E 251 World Literature (PR: E151).....	3
ET 212 Statics (PR: M152).....	3	ET 213 Strength of Materials (ET 212).....	3
MET 221 Machine Tool Lab. (NP) .....	3	A 250 / MU 250 <i>or</i> Drama 254 (NP).....	3
M 250 Linear Algebra (PR: M153).....	3		
	19		16

**JUNIOR**

First Semester	Credits	Second Semester	Credits
SOC 250 <i>or</i> PSY 250 (NP).....	3	EET 230 Circuit Analysis (PR: M153 <i>or</i> M158).....	3
ET 310 Engineering Computing (PR: CS 150) .....	3	MET 380 Des. of Mat. Element (PR: ET 213).....	3
MET 325 Kinematics (PR: P254/P251).....	3	ET 313 Dynamics (PR: ET 212).....	3
ET 421 Thermodynamics (PR: M163 <i>or</i> M168/ P251/ P254) .....	3	MET 422 Applied Thermodynamics (PR: ET 421).....	3
ET 255 Engineering Economics (PR: M152)	3	MET 340 Manufacturing Processes (PR: MET 221)...	3
ETS African American History (NP)	3		
	18		15

**SENIOR**

First Semester	Credits	Second Semester	Credits
MET 425 Microcomputer Appl. (PR: ET 310).....	3	MET 435 Heat Transfer (PR: ET 421).....	3
CET 415 Fluid Mechanics (PR: ET 313).....	3	CET 417 Mechanics of Mat. Lab.(PR:ET 213) .....	3
MET 450 Engineering Materials (PR: ET 213).....	3	<b>*Select One</b>	
MET 427 Num. Control Machinery (PR: MET 221)...	3	*MET 428 CNC Machine Tools <i>or</i> MET 490 Special Topics in Mech. Eng. (PR: Senior Standing).....	3
MET 459 Senior Proj. Proposal (PR: Senior Standing)	1	MET 460 Senior Project (PR: MET 459) .....	3
<b>Restricted Elective (Select One)</b>	3	Elective .....	3
EAET 410 Engineering Ethics <i>or</i>			
EAET 411 Role of Engineers (PR: Senior Standing)	16		15

**University/Departmental Policy requires that all students must pass the English Proficiency Examination.**

**Abbreviations:** NP-No Prerequisites, PR-Prerequisite, CR-Co-requisite

**Acceptable Minimum Passing Grades:** "C" for all MET, ET and EAET courses; "C" for E150 and E151, "D" for Math courses, Computer Science, Chemistry, Physics, English Literature, Art/Drama/Music, Sociology and Psychology courses.