

<u>COURSE (NUMBER OF CREDIT HRS)</u>	<u>TITLE</u>
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General Education Courses (43-46)

Southeastern 101 (0-3)	Freshmen Academic Success
English 101 (3)	Freshman Composition
English 102 (3)	Critical Reading and Writing
English 230, 231 or 232 (3)	Literature
Communication 211 (3)	Public Speaking
History 101, 102, 201, or 202 (3)	History
Music, Dance, Art or Theater (3)	Arts Elective
Econ, Psych, Anth, Soci, or Poli (3)	Social Science Elective
Econ, Psych, Anth, Soci, or Poli (3)	Social Science Elective
Physics 191 (3)	General Physics I
Physics Lab 193 (1)	General Physics I Lab
Physics 192 (3)	General Physics II
Physics Lab 194 (1)	General Physics II Lab
Biology 151 (3)	General Biology
Mathematics 165 (3)	Pre-calculus with Trigonometry
Mathematics 200 (5)	Calculus I

Technical Core Courses (43)

English 322 (3)	Technical Writing
Chemistry 121 (3)	General Chemistry I
Chemistry Lab 123 (1)	Gen Chemistry Lab
Industrial Technology 111 (3)	Engineering Drafting
Industrial Technology 407 (3)	Statistical Quality Assurance
Occupational Safety 111 (3)	Intro to Occu Safety & Health
Engineering Technology 100 (3)	Intro to Engineering Technology
Engineering Technology 202 (3)	Computer Applications
Engineering Technology 213 (3)	Electrical Circuits
Engineering Technology 241 (3)	Intro to Engineering Materials
Engineering Technology 305 (3)	Human Factors Engineering
Engineering Technology 390 (3)	Engineering Economics
Engineering Technology 490 (1)	Seminar
Engineering Technology 492 (3)	Project Management
Engineering Technology 493 (2)	Senior Design I
Engineering Technology 494 (2)	Senior Design II

**Required Courses in the Industrial
Concentration (33)**

Math 241 (3)	Elementary Statistics
Engineering Technology 150 (3)	Software for Data Management
Engineering Technology 283(3)	Manufacturing Process
Engineering Technology 353 (3)	Total Quality Management

Engineering Technology 357 (3)
Engineering Technology 463 (3)
Engineering Technology 465 (3)
Industrial Technology 308 (3)
Industrial Technology 402 (3)
Industrial Technology 405 (3)
Industrial Technology 406 (3)

Auto ID & Data Capture
Cost Estimating
Industrial Simulation & Modeling
Production Planning & Control
Industrial Supervision
Work Methods & Measurement
Facility Planning & Design

Elective Courses in the Industrial Concentration (Select 6 hrs)

Engineering Technology 355 (3)
Engineering Technology 386 (3)
Engineering Technology 467 (3)
Industrial Technology 391 (3)

Management of Technical Organizations
Machines and Control
IET Case Problems
Industrial Internship

Required Courses in the Mechanical Concentration (33)

Engineering Technology 205 (3)
Engineering Technology 212 (3)
Engineering Technology 271 (3)
Engineering Technology 283 (3)
Engineering Technology 371 (3)
Engineering Technology 375 (3)
Engineering Technology 376 (3)
Engineering Technology 381 (3)
Engineering Technology 385 (3)
Engineering Technology 386 (3)
Engineering Technology 478 (3)

Mathematical Methods for Engineering
Intro to Programming
Engineering Statics
Manufacturing Processes
Engineering Dynamics
Applied Thermodynamics
Applied Fluid Mechanics
Engineering Materials
Mechanical Design
Machines & Controls
HVAC

Elective Courses in the Mechanical Concentration (Select 6 hrs)

Engineering Technology 480 (3)
Engineering Technology 484 (3)
Engineering Technology 488 (3)

Strength of Materials
Adv Manufacturing Technology
Robotics and Automations

Required Courses in the Computer Concentration (30)

Computer Science 290 (3)
Computer Science 297 (3)
Engineering Technology 205 (3)
Engineering Technology 212 (3)
Engineering Technology 221 (3)
Engineering Technology 225 (3)
Engineering Technology 226 (3)

Computer Organization
Digital Logic
Mathematical Methods for Engineering
Intro to Programming
Programming for Technologists
Electronics I
Electronics II

Engineering Technology 320 (3)
Engineering Technology 410 (3)
Engineering Technology 425 (3)

Microprocessors and Interfacing
Signals and Systems
Control and Automation

**Elective Courses in the Computer
Concentration (Select 9 hrs)**

Computer Science 309 (3)
Computer Science 355 (3)
Computer Science 375 (3)
Computer Science 431 (3)
Engineering Technology 488 (3)

Computer Networks
Object Oriented Programming
Computer Architecture
Operating Systems
Robotics and Automations

**Required Courses in the
Construction Concentration (30)**

Engineering Technology 132 (3)
Engineering Technology 231 (3)
Engineering Technology 232 (3)
Engineering Technology 234 (3)
Engineering Technology 331 (3)
Engineering Technology 332 (3)
Engineering Technology 336 (3)
Engineering Technology 441 (3)
Engineering Technology 443 (3)
Engineering Technology 444 (3)

Construction Materials
Surveying I
Surveying II
Concrete & Masonry Design
Construction Estimating I
Construction Estimating II
Steel Design
Construction Planning and Scheduling
Foundations and Soil Mechanics
Construction Regulations, Contracts &
Specifications

**Elective Courses in the
Construction Concentration
(Select 9 hrs)**

Engineering Technology 442 (3)
Engineering Technology 445 (3)
Engineering Technology 446 (3)
Engineering Technology 448 (3)

Construction Inspection
Commercial Architecture
Construction Systems
Construction Hydraulics

**Required Courses in the Energy
Concentration (33)**

Engineering Technology 410 (3)
Engineering Technology 361 (3)
Engineering Technology 205 (3)
Engineering Technology 212 (3)
Engineering Technology 221 (3)
Engineering Technology 225 (3)
Engineering Technology 226 (3)

Signals and Systems
Solar thermal systems
Mathematical Methods for Engineering
Intro to Programming
Programming for Technologists
Electronics I
Electronics II

Engineering Technology 363 (3)
Engineering Technology 365 (3)
Engineering Technology 431 (3)
Engineering Technology 375 (3)

Photovoltaics
Power electronics
Power transmission lines
Applied Thermodynamics

**Elective Courses in the Energy
Concentration (Select 9 hrs)**

Engineering Technology 433 (3)
Engineering Technology 434 (3)
Engineering Technology 425 (3)
Engineering Technology 435 (3)
Engineering Technology 436 (3)

Engineering Technology 437 (3)

Wind turbines
Geothermal systems
Control and Automation
Electric machines
Fluid dynamics & hydrodynamic
machinery
Bio-climatic systems design