

• **ENGINEERING** •

Associate in Science Degree

LENGTH: Four Semester (Two-Year) Program

PURPOSE: This program is designed for students who plan to transfer to a four-year college or university to complete a baccalaureate degree in engineering. Requirements vary among colleges and universities and among the different engineering fields. The following program is a composite of the requirements of the first two years of the baccalaureate degree at most four-year colleges and universities. Students should have successfully completed a minimum of four units of high school mathematics, including trigonometry, and three units of science in biology, physics and chemistry.

AREA I WRITTEN COMPOSITION

ENG 101 & 102 English Composition I & II 6

AREA II HUMANITIES AND FINE ARTS

ART 100 or MUS 101 Art Appreciation or Music Appreciation 3
 ENG 271 or 272 World Literature I or II 3
 SPH 107 Fundamentals of Public Speaking 3

AREA III NATURAL SCIENCES AND MATHEMATICS

MTH 125 Calculus I 4
 PHY 213 & 214 General Physics with Calculus I & II 8

AREA IV HISTORY, SOCIAL, AND BEHAVIORAL SCIENCES

HIS 121 & 122 or HIS 201 & HIS 202 ..World History I & II or American History I & II 6
 CHOOSE ONE OF THE FOLLOWING SOCIAL SCIENCE ELECTIVES..... 3
 ANT 200 Introduction to Anthropology
 ECO 231 Principles of Macroeconomics
 ECO 232 Principles of Microeconomics
 GEO 100 World Regional Geography
 POL 200 Introduction to Political Science
 POL 211 American National Government
 PSY 200 General Psychology
 PHL 106 Introduction to Philosophy
 PHL 206 Ethics and Society

AREA V PRE-PROFESSIONAL, MAJOR, AND ELECTIVE COURSES

ORI 101 Orientation to College 1
 CHM 111* College Chemistry I 4
 MTH 126 & 227 Calculus II and III 8
 MTH 238 Applied Differential Equations I 3
 CHOOSE FROM THE FOLLOWING APPROVED ENGINEERING ELECTIVES** 9+
 EGR 101 Engineering Foundations**(A,CH,CI,E,M) 3
 CHM 112* College Chemistry II **(CH,CI,) 4
 CIS 251 "C" Programming **(E) 3
 MTH 237 Linear Algebra **(A, E, M) 3
 EGR 125 Computer Graphics for Engineers **(A,M,CI) 3
 EGR 157 Computer Methods for Engineers using MATLAB 3
 EGR 220 Statics **(A,CI,M) 3

****A:Aerospace CH:Chemical CI:Civil E:Electrical M:Materials, Mechanical or Industrial**
Total Hours 61+

Students should consult their institution or the Statewide Articulation Committee's INTERNET based transfer system STARS for approved electives. For more information about STARS go to www.faulknerstate.edu and click on STARS icon. See your academic engineering advisor for assistance.

*Students who choose to take CHM111 or CHM112 must take co-requisites CHM121 or CHM122 simultaneously

ASSOCIATE IN SCIENCE