

COLLEGEWIDE COURSE OUTLINE OF RECORD

ENGR 160, ENGINEERING SOFTWARE TOOLS II

COURSE TITLE: Engineering Software Tools II

COURSE NUMBER: ENGR 160

PREREQUISITES: MATH 136 College Algebra and MATH 137 Trigonometry with Analytic Geometry.

SCHOOL: Applied Science and Engineering Technology

PROGRAM: Pre-Engineering

CREDIT HOURS: 3

CONTACT HOURS: Lecture: 2 Lab: 2

DATE OF LAST REVISION: Fall, 2014

EFFECTIVE DATE OF THIS REVISION: Fall, 2015

CATALOG DESCRIPTION: Introducing students to object-oriented programming and design. Emphasis on engineering application.

MAJOR COURSE LEARNING OBJECTIVES: Upon successful completion of this course the student will be expected to:

1. Use MATLAB to solve engineering problems.
2. Write MATLAB programs (scripts) and functions.
3. Create a Simulink model of a simple system.
4. Set parameters and run a Simulink model of a simple system.
5. Create a sub-system.
6. Link Simulink model data to/from MATLAB and files.

COURSE CONTENT: Topical areas of study include –

MATLAB	Simulink
Pointers	Structures
Scripts	Functions

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