

EGN 2213 – COMPUTER APPLICATIONS IN ENGINEERING I  
Common Course Syllabus

Catalog Data: 3 CREDITS. An introduction to programming in MATLAB, this course includes some matrix concepts, input/output statements, for and while loops, if and else if statements, built in functions, self written functions, some built in solvers, and projects illustrating applications to engineering topics.

Corequisite:

1. Calculus for Engineers II – MAC 2282 or equivalent (MAC 2312)

Goals:

1. To teach students the basic building blocks in writing a computer program, which are: the arithmetic statement, input/output statements, matrices, for and while loops, if and if else if statements, the switch statement, built in functions, and user defined functions.
2. To teach students to write computer programs in MATLAB that can be used to solve