

The Stuff You Will Actually Read

3 Keys to Success in Studying Engineering:

- 1) Effort = Work Hard
- 2) Approach = Work Smart (Study Groups, 50% to 100% of the time you study)
- 3) Attitude = Think Positively

Auto-Forward your SBCC PipeLine E-mail (to be kept up-to-date on important Engineering info)
Sign up for AlertU.org (to be alerted via text messaging to your cell phone if SBCC is closed due to fire, power outage, etc. – easy to sign up on your PipeLine login page).

Santa Barbara City College

1/26/2011

SYLLABUS:

Engineering 102, Engineering Calculations with MATLAB

1 Unit, Spring 2011, Section CRN # 59302

Bring this syllabus to class **every day!!!**

If you lose your syllabus, check the Engineering web site (listed below).

INSTRUCTOR:

Dr. Nick Arnold

Office:

PS 118

Phone:

965-0581 x4253

E-mail:

arnold@sbcc.edu

Web Site:

<http://science.sbcc.edu/physics/engineering/>

Office Hours:

Tuesday: 10:40-11:05 PM and 12:20-12:45PM

Wednesday: 2:05-2:55 PM

Thursday: 10:40-11:05 PM and 12:20-12:45PM

Friday: 10:40-11:05 PM and 2:05-2:30 PM

CLASS MEETINGS:

Time:

Wednesdays, 4:30-5:50 PM

Room:

PS 116

TEXT(S):

(Recommended – not required)

MATLAB for Engineers, 2nd Ed., Holly Moore, Prentice Hall, 2008.

An Engineer's Guide to MATLAB, 2nd Ed., Edward B. Magrab, Prentice Hall, 2007.

COURSE PHILOSOPHY:

This class is a supplementary problem-solving workshop, exploring Engineering Calculations using MATLAB, designed primarily for students enrolled in MATH 137, 138, 150, or 160. To receive the most out of this class, it is recommended that you attempt all of your assigned problems before coming to class – that way you can get help with the more challenging problems and concepts. Math is the backbone to all the physics, engineering and science classes. Make your math class your #1 priority, in order to get high/passing grades in Math 137, 138, 150 & 160.

GRADING:

- Graded Pass/No Pass.
- Your grade will be based on class attendance and participation: You must attend at least 9 of the 15 class meetings to receive a “Pass” grade.
- The instructor may drop you after 3 consecutive absences. If you decide to drop this class, it is your responsibility to withdraw prior to the deadlines published in the schedule of classes.

Final, Wednesday, 5/18/2011, 4:30-6:30 PM

Deadlines:

Last day to add class	02/5/2011
Last day to drop with a refund	02/5/2011
Last day to drop without a “W”	02/6/2011
Last day to drop with a “W” (no grade)	03/25/2011

SKILLS ADVISORY: Eligibility for English 100, 103; Math 107, 111.

REPEATABILITY: 1

COURSE DESCRIPTION:

Introduction to engineering calculations using the MATLAB interactive environment software package for performing technical computations. Topics include matrix computation, numerical analysis, graphics, and m-files (source code). Designed for people who may not have any previous MATLAB, computer or programming experience. Foundational in the coverage and usages of the many MATLAB features.

Note: This syllabus is a guideline for how the course will be conducted. Changes to the syllabus will be kept to a minimum. However, the instructor may make changes as necessary.