# CHEN3600 – Computer-Aided Chemical Engineering Spring 2012

# Chemical Engineering Department EXAM 1

# T.D. Placek Auburn University\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LAST NAME, FIRST NAME (Print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Instructions:**

1. **Open book, open class notes, open personal notes, open personally written program code and code provided by the instructor.**
2. **Computer is not to be used to search for information or solution help on the web. (Automatic “zero” on exam).**
3. **Exam solutions from previous terms may not be consulted or used.**
4. **All announced course policies regarding MATLAB code are to be observed.**
5. **All announced course polcies regarding the emailing and format of files and email messages are to be observed.**
6. **Only general code will be considered acceptable. Situation specific code that makes it “appear” the program fulfills the problem requirements will NOT BE considered acceptable.**

*Departmental Honesty Statement: By affixing my signature below, I acknowledge I am aware of the Auburn University policy concerning academic honesty, plagiarism, and cheating. This policy is defined in the current Tiger Cub Student Handbook, Code of Laws, Title XII, Student Academic Honesty Code, Chapters 1200-1203. I further attest that the work I am submitting with this exam is solely my own and was developed during the exam. I have used no notes, materials, or other aids except those permitted by the instructor.*

**SIGNATURE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Instructions:

1. Use the provided “script template” to contain ALL the work you are submitting. Include necessary external functions as a comment block at the end in the script in a cell named “Referenced Functions”.

2. At the end of the exam:

a. Make sure you have saved your work. Publish your work in “pdf format”.

b. Email your published pdf to ***placetd@auburn.edu*** as an attachment.

* Your email must be postmarked at or before the official end of class.
* Include yourself as a CC: to verify what you sent.
* Late submissions will be penalized.
* Submissions without the correct filename or subject line will be not be accepted.

c. Double checks:

* Open the copy you emailed to yourself
* Did you attach the correct file (name)?
* Does it contain the correct information?

3. Turn in this signed sheet and all exam pages.

**1: (15%) Explain Question (CLOSED BOOK)**

Provide an answer that is both concise and clear. Your answer should be provided in the exam template as a commented block of text. For example:

\*{

blaa

blaa

blaa

\*}

**2: (20-25%) Producing a Graph (Partial Credit Provided)**
Produce the following graph EXACTLY as shown below subject to the following limitations, parameters and hints. The purpose of this problem is to demonstrate your ability to analyze the behavior of the function as well as to develop a graph meeting specifications. *(Failure to adhere to the problem specifics will result in significant deductions)*

**3: (15%) (No Partial Credit)**

**4: (30%) Programming (Partial Credit Allowed)**

**5: (15%) (No Partial Credit)**