I. COURSE DESCRIPTION:
Topics will be chosen from the following: financial mathematics; sequences and series; elementary number theory; history of mathematics; linear and exponential growth; voting theory; chaos and fractals; reflections and translations in geometry; graph theory; game theory; and mathematical use of calculators and computers. These topics will be helpful in developing a broader base of mathematical knowledge. This course may be used to satisfy part of the mathematics general education requirement for the A.A. degree.
Prerequisite: grade of C or better in MAT 1033; or required score on placement test.

II. TEXTBOOK: MyMathLab access code (required) – course id “golden73757”
By Miller, Heeren and Hornsby

The bundle sold in the Plant City bookstore is recommended and contains the following items: text book, student solution manual, CD video lectures, and MyMathLab access code. **An Access code to MyMathLab is necessary to participate in this class.** It is possible to purchase the access code separately ($70) from the publisher with a credit card at their website ([www.coursecompass.com](http://www.coursecompass.com)). With the access code, you will be able to view the text and videos while online and logged in to MyMathLab. If you chose to purchase only the access code (no text), realize that you will be at the mercy of your internet connectivity. **If you are unable to purchase the access code due to a delay with financial aid, contact me via email immediately.**

III. ADDITIONAL MATERIAL:
A scientific or graphing calculator is necessary. You are expected to use a calculator on all homework, quizzes and exams. You should bring your calculator to all proctored tests. You will not be permitted to use a cell phone calculator or symbolic calculator. You will need access to a computer with internet connection in order to complete online homework and quizzes as well as communicate with your instructor and classmates. Videos can be viewed online or with a CD player if you purchased the bundle. The Student Solution Manual is very useful but optional. I recommend that you use a three ring binder notebook to organize course materials.

IV. ORIENTATION:
You must complete the mandatory online orientation by the due date. The orientation will cover the registration and operation of the software (MyMathLab/CourseCompass, not Online@HCC), so you will need your access code in order to complete the orientation. Instructions for orientation can be found under Shared Files in CampusCruiser/Hawknet. After completing the tasks listed on this sheet, you must send me an email informing me of such. Check your email for my confirmation. If you are not able to demonstrate the ability to use the software, you should consider taking this class in a different format.
V. **READING ASSIGNMENTS:**
You should begin each chapter by reading the assigned sections in your textbook and watching the corresponding section videos. Some students find it useful to watch the videos first, and then read the text (and maybe watch the videos again). If you choose to read the text online, you can access the video clips from the multimedia text. While taking notes, you should include definitions, procedures, theorems, and try to work through the examples. Questions should be posted on the message board in MyMathLab and not sent to me via email. You can also access student class notes under Shared Files in CampusCruiser.

VI. **HOMEWORK:**
**Homework should be done daily** – either from the textbook or online. Online homework contributes 10% to your course grade. There is no time limit on homework assignments. You can attempt the same question multiple times and still receive full credit. After three incorrect answers, you will need to attempt a new problem but can still receive full credit. Use your notes from the videos as well as your textbook when needed. You can receive online help by using the Help Me Solve This and Show an Example buttons. You will receive a 100% grade for homework if all of the questions are answered correctly. Additional online practice homework questions can be found under Chapter Contents in the Study Plan. You can also rework the assignment homework and ask for Similar Exercises. Homework from the textbook is for practice purposes and will not be collected or graded. You should attempt to do all of the problems listed on the homework assignment sheet for each section we cover. This is my short list and you should do more exercises in your weak areas. Check your answers and correct any errors that you can. Consult the student solution manual and ask me questions! You should post your questions on the message board located in MyMathLab. You are encouraged to answer your classmates’ questions on the message board. I will monitor the message board and post answers to your questions. Your success in this course will depend upon the amount of time and effort you are willing to spend with the material. You should plan to spend at least six hours per week (9 hours in a short semester) reading your text, reviewing notes, working on homework, completing quizzes, and studying for exams.

VII. **QUIZZES:**
You can expect eight timed online quizzes throughout the term. There are six chapter quizzes (free response) and two mixed quizzes (multiple choice). Quizzes should be completed by you alone and it is dishonest to submit answers that you do not complete yourself. You should consult only your notes and textbook during quizzes. Each quiz has a due date and late quizzes are scored as a zero. There will be no individual make-up quizzes offered. However, you may attempt each quiz twice and only the higher score will be averaged into your quiz grade. Quizzes #1, 2, 3, 5, 6, and 7 have a generous two hour time limit and answers are free response. Second attempts will cover the same objectives but you will notice different questions and numbers. Quizzes #4 and 8 have a two hour time limit and answers are multiple choice. Graded chapter quizzes can be reviewed any time after submission from the grade book area. Ideally you will allow yourself sufficient time to review your first quiz attempt and ask questions before you attempt the quiz a second time. You can petition for partial credit on a chapter quiz (not both attempts) by sending me an email which includes the quiz and question number along with an explanation of your error (see examples on the message board). Quizzes contribute 50% to your course grade.
VIII. TESTS:
There will be a midterm exam covering Chapters 1, 4 and 5 and a comprehensive final. These exams will contribute 40% to your grade, and you must have at least a 60% average on these two exams in order to pass the course. Both of these exams must occur in a proctored environment. You will have the option of taking the exams at the testing facility located on the Brandon, Dale Mabry, Plant City, or Ybor City campuses. Hours of operation vary, so you should verify their hours and your schedule beforehand. It is your responsibility to take your exams during the designated time frame and to notify me which campus testing facility you plan to use (there will be a separate email sent after the semester begins regarding test sites). If you live in a distant location and would like to discuss alternative testing options, discuss them with me immediately and prior to the drop date. I will try to accommodate any student that shows a need, but do not assume your request will be granted until you have received written confirmation from me. A significant portion of your course grade will be determined by your performance on these exams, so it is important that you prepare yourself for them. Completing the homework and practice tests will familiarize you with the material and question format which will alleviate some of your stress. A good night of rest will allow you to think clearly and perform at your best. There will be no make-up tests.

IX. ATTENDANCE:
There are no scheduled class meetings. You must submit homework and quizzes by the due dates, but there is no minimum weekly time mandate. It is strongly recommended that you log in to MyMathLab biweekly to check for reminders and announcements. You should also check your email biweekly.

X. CHEATING AND PLAGIARISM:
Cheating will not be tolerated! You are expected to personally complete any work that is submitted with your name on it. While I encourage students to discuss homework solutions, you should not discuss particular solutions to questions that will be graded. Instead, find a similar question to discuss or use an example from the textbook or notes. It is never acceptable to copy another person’s work or to allow another student to copy your work. If I determine that a student has cheated, I will give a zero for that assignment and issue the only warning. Upon a second offense, the student will receive a grade of F for the course.

XI. REQUEST FOR ACCOMMODATIONS:
If, to participate in this course, you require an accommodation due to a physical or learning impairment, you must contact the Office of Services to Students with Disabilities. The office is located in the Student Services building. You may also reach the office by telephone at (813) 757-2209 {voice line}; (813) 757-2166 {TTD}. To insure that your accommodations can be met, it is important that your request be processed by the HCC Disabilities Office and a copy of your accommodations given to me early in the semester. If you fail to provide me with your accommodations request at least one week prior to a deadline, it may not be possible to accommodate you for that assignment. You should plan to discuss particular accommodations with me either via email or in person.

XII. ADDITIONAL RESOURCES:
ME! I am the best person to offer additional instruction. Please bring your questions to me during office hours and post them on the message board located in MyMathLab. Read the message boards – you will find many worked examples on the message boards. Work with your classmates online by suggesting solutions and sharing new resources (alternate websites or videos). Watch the videos, read your text and the student notes, rework text examples, consult the solution manual, use the online help buttons, and visit campus tutors.
XIII. GRADING SCALE:
Your grade = (.10)(homework) + (.50)(quiz average) + (.20)(midterm) + (.20)(final exam)

90 - 100+ POINTS A
80 - 89 POINTS B
70 - 79 POINTS C
60 - 69 POINTS D
0 - 59 POINTS F

This is a tentative grading scale and may be adjusted at the instructor’s discretion. You must have at least a 60% average between the midterm and final exams in order to pass the course regardless of your overall course average. Additionally, your course grade cannot exceed your test average by more than one letter grade. For example, if your test average is 77%, then you can receive at most a B in the course. A test average of 65% would limit you to a grade of C. You can view your grades inside MyMathlab, but CampusCruiser/Hawknet will be the official grade book.

XIV. WHAT YOU SHOULD ALREADY KNOW:
It is assumed that you are able to use the basic features of your calculator and that you have a working knowledge of all material covered in the prerequisite course. While I understand that some of the material was not mastered by all students in the prerequisite course or that the prerequisite course was taken years ago, it is your responsibility to seek assistance if it is needed. You should start by reading the textbook and its examples. In MyMathLab under Tools for Success there are some algebra topics reviewed. You will find that the material comes back quickly. You are strongly encouraged to visit me during office hours to ask questions. You will also be able to get assistance in the tutoring center. Following is a partial list of the prerequisite material you should already know: arithmetic, properties of exponents, simplifying radical expressions, polynomial operations, factoring, simplifying rational expressions (fractions), solving linear equations, solving quadratic equations, and problem solving techniques.

XV. MYMATHLAB/COURSECOMPASS, CAMPUSCRUISER & ONLINE@HCC:
We will be utilizing MyMathLab/CourseCompass and not Online@HCC for this class. All assignments and communication will take place inside the MyMathLab environment. We will use CampusCruiser/Hawknet to communicate prior to the beginning of the semester, for the email address throughout the semester, and for the grade book at the end of the semester. This is your official HCC email address and you will need to check your email in CampusCruiser periodically. Once you have registered for MyMathLab and completed the orientation, you will be able to access assignments, view course materials, check your grades, communicate with classmates via message boards, and send email messages inside MyMathLab. I expect you to use the message boards and email as your primary means of communicating with me and your classmates. Personal communications should be sent to me via email. Questions regarding course content, policies, or procedures should be posted on the message boards in MyMathLab. Email messages and posts to the message board should contain complete sentences and be relatively free of spelling, punctuation, and grammar errors. You should always include your name and course name with any email message sent. I will read and respond to messages during office hours and periodically during weekends.