Course Description
MATH 160 is an introductory study of differential and integral calculus with an emphasis on techniques and applications. The course is designed for students in the biological, management, social and behavioral sciences. The main topics to be studied during the semester are: a review of basic functions, including the exponential and logarithmic functions; the derivative and its use as a rate of change; the algebra of derivatives; applications of derivatives; and definite integrals and their applications.

Prerequisites
High school Algebra I and II and Plane Geometry. It is assumed that the skills you learned in these classes are current. In particular, you should be familiar with notions such as variables, formulas, equations, functions, solving equations, factoring, the quadratic formula, exponentials and logarithms, graphs of functions, areas of plane regions, and volumes of certain solids.

If you've been away from mathematics for any length of time, or should your algebra skills be weak, you should seriously consider dropping back to MATH 135 College Algebra now, while you have the chance to do so. I cannot emphasize enough how much poor algebra skills virtually guarantee poor Calculus grades.

Textbook and Exercise Solutions

The course covers the following content: Chapter 1 (Sections 3 and 4 only); Chapter 2 (all); Chapter 3 (Sections 3.4 and 3.7 will be covered only as time permits); Chapter 4 (all); Chapter 5 (all, hopefully); and Chapter 6 (Sections 6.2 and 6.7 will be covered only as time permits).

A Student Solutions Manual (ISBN 978-0-495-38898-2) is available for the text at the bookstore and is optional. Many students find it useful as a resource to help work through assignments and study for exams. Additionally, I will be supplying fully worked-out solutions to many of the exercises in the text via the class website.

Graphing Calculator
A graphing calculator comparable to the TI-83 or TI-84 is required for the course. You'll use it for exams and assignments, and you should have it with you in class every day.

When and Where We Meet
Our class meets every Monday, Wednesday, and Friday between August 30 and December 10, with the only exceptions being September 6 (Labor Day) and November 24, and November 26 (Thanksgiving recess). We meet in Henson Hall room 111, with Section 008 gathering from 1:00 to 1:50 PM, and section 009 from 2:00 to 2:50 PM.

Your attendance is expected at these classes. If you miss a class, it is your responsibility to get notes from class from a fellow student, and copies of any handouts either from the class website or from me at my office.

Class Website
We will use Blackboard/WebCT as our official means of communication. Log in to myclasses.salisbury.edu (Campus Edition) using your usual username and password. You'll find a calendar of class coverage and assignments, info on your grades, the extended version of this syllabus (important to read, since it includes a lengthy list of policies and procedures by which I conduct the class), and whatever else I can provide. In particular, all class assignments will appear on the website, and you are expected to learn of them through the website.

The complete syllabus is available on the class website. Please be sure to review it, especially the sections which address whether MATH 160 is the correct course for you or not, and which list class Policies and Procedures.
Examinations and Quizzes

Exams. The following are the dates for four in-class exams and the comprehensive, final exam.

- Exam #1 (in-class): **Wednesday, September 22**
- Exam #2 (in-class): **Wednesday, October 13**
- Exam #3 (in-class): **Wednesday, November 3**
- Exam #4 (in-class): **Wednesday, December 1**
- Final Exam (a 2 hour, comprehensive exam)
  - for Section 008 (1 PM class): **Thursday, December 16**, beginning at 1:30 PM
  - for Section 009 (2 PM class): **Friday, December 17**, beginning at 1:30

Quizzes. Beginning Monday, September 13, we will have a 10- to 15-minute quiz, usually at the end of class, every week on Monday when there is no examination scheduled on that week's Wednesday. The material for each quiz will be (unless announced otherwise) drawn from the content of the classes immediately preceding the quiz. There will be a total of nine quizzes this semester, planned for the following dates:

  **Mondays**: Sep 13, Sep 27, Oct 4, Oct 18, Oct 25, Oct 8, Nov 15, Nov 22, Dec 6

Students are expected to take exams and quizzes on the assigned dates and with the section of the class in which they are registered.

Makeups. There are no makeup exams or makeup quizzes, except for University approved absences. Please be sure to read the complete language of my policies regarding missed exams and quizzes in the Policies and Procedures section of the online syllabus.

Ongoing Assignments

Lists of suggested problems to be working on will be posted at almost every class. The material for quizzes and exams will be drawn from the material covered in these assignments. It is not required that you write up or hand in any solutions, nor will any part of your grade computation be based on these ongoing assignments. However, writing down what you do will help, since

- the best method of study is to work through most (if not all) of the exercises and write up solutions, perhaps keeping them in a notebook for reference.
- when you come to my office for help on a problem or ask a question about a problem in class, please bring what you have written and we can work from there.

Feel free to form a study group of two of three students to work on the problems collectively and compare notes with others and with solutions available either in the Student Solutions Manual or posted on the website.

Semester Grading

The four, in-class exams will count **16%** each. The cumulative, two-hour final exam will count **20%**. The best seven of your nine quiz results will collectively count **16%**. Your final, letter grade will be determined primarily from this scale, with minor adjustments for whatever else I know about your situation, including the quality of your attendance record.

Office Hours/Getting Help

Professor G. E. Keough
Henson Science Building Room 130, 410.543.6467 (recommendation: use email)
Email: gekeough@salisbury.edu

**Monday**: 9:00 – 9:45; 12:30 – 12:45; 3:00 – 3:45
**Tuesday**: I am only occasionally on campus on Tuesdays; availability will be posted as we go.
**Wednesday**: 9:00 – 9:45; 12:30 – 12:45; 3:00 – 3:45
**Thursday**: I am not on campus on Thursday.
**Friday**: 9:00 – 9:45; 12:30 – 12:45; 3:00 and later if requested

Free tutoring is available for this course from (approximately) Tuesday, September 7, until Friday, December 10. Consult the schedule posted at the Math Tutoring room (Henson 117) for hours of operation.

The complete syllabus is available on the class website. Please be sure to review it, especially the sections which address whether MATH 160 is the correct course for you or not, and which list class Policies and Procedures.