Welcome to MAT 107. I am your instructor, Courtney Sykes. Math is everywhere. We use it every day without even realizing it. And if we can learn some of the branches of mathematics in this course, then we can apply math skills and higher level thinking to solve some of our everyday problems. Foundations of Mathematics is a survey course requiring us to use arithmetic, variables, mathematical skills, theorems, statistics, probability, and logic to solve complex problems. By learning the logical and analytical processes to solve the problems we will encounter in this class, you will learn how to be a better problem solver. By learning several ways to answer a question and recognizing which method works best in specific cases, you can apply the same skills to determine the most effective way to solve a problem in your everyday life.

Keep in mind that this course is a part of your journey to your ultimate goal: a certificate, a job, eligibility for promotion, enrichment, transferring to another institution, or graduation at this college. So approach this course with enthusiasm. It will take hard work, time, and effort. So allow for time to study, time to meet with me, time to work with a tutor, time to work on assignments, and time to read and review the course materials. But remember all that hard work, time, and effort will help you achieve your goal(s).

INSTRUCTOR: Courtney A. Sykes  
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csykes@chesapeake.edu  
phone: 410-822-5400 ext. 2333  
fax: 410-827-5814 Attn: Courtney Sykes

CANVAS: All relevant course information (course policies, due dates, etc.) will be available in Canvas

OFFICE HOURS: Posted on Canvas homepage via the “Office Hours” link & on my faculty webpage at: http://info.chesapeake.edu/faculty/faculty_pg_drupal.php?colid=0050237  
Other meeting times available by appointment online, on the phone, or in person.

COURSE DESCRIPTION: A survey course in mathematics for non-mathematics majors. Course covers an introduction to many topics including exponential and logarithmic functions, personal finance, logical thinking, probability, statistical reasoning, and geometry. [Fall/Spring] 3 hours per week. 3 credits

COURSE PREREQUISITE: Appropriate score on placement test or completion of MAT 031 or CMJ MAT Prep.

STUDENT LEARNING OUTCOMES: Upon completion of this course, the student will be able to:

1. Apply the mathematical skills required in performing operations and/or problem-solving related to the foundations of mathematics.
2. Analyze mathematical models such as equations, formulas, graphs, tables, functions, and/or figures, and draw inferences from them related to the foundations of mathematics.
3. Communicate mathematical information conceptually, symbolically, visually, and/or numerically using appropriate terminology related to the foundations of mathematics.
4. Evaluate and/or interpret mathematical information, relationships, facts, concepts, and/or theories related to the foundations of mathematics.
GENERAL EDUCATION COMPETENCIES: Upon completion of this course, the student will be able to:

- Solve problems using critical analysis and reasoning
- Apply scientific and/or quantitative reasoning skills effectively

TIMING: The TARGET dates on the Canvas homepage list one week each for modules 1-5 and one week for each exam. However, some of the modules contain more complex material and/or have more assignments. The typical student will find they will need more time to complete modules 4 and 5.

I've built several catch up days into the course at the end of the semester to help those students who might have fallen behind. I highly suggest students push themselves to work ahead on the earlier modules (1-3) in order to give themselves more time to work on the later, more complex modules (4-5).

All assignment target dates are on Thursday nights. Plan accordingly. Don’t wait until Thursday night to open up the module for the week. Also you will notice I have online office hours Wednesday afternoons. This is so you can get real time responses to questions as you work through the material.

All assignments must be completed by the designated DUE date – there are no extensions. There are only 3 formal DUE dates throughout the semester:

- Thursday, September 6th (9/6) Syllabus Quiz & Using MyOpenMath Hwk
- Thursday, September 27th (9/27) All assignments for Modules 1-3 & midterm exam
- Wednesday, October 17th at NOON (10/17) All assignments for Modules 4-5 & final exam

DUE dates are listed on the Canvas homepage literally as "DUE:" followed by the relevant modules.

TEXT/SUPPLIES:

- **Scientific Calculator.** The Ti-30XS is the required model [Note: Graphing calculators are not permitted in this course]. You are responsible for understanding how to use your Ti-30XS calculator and for making sure that it works during exams. [Required]
- **Webcam with microphone.** For use when taking proctored exams. [Required]
- **Internet Access.** This course will require spending a significant amount of time online as the course page is housed in Canvas – accessible via the MyCampus portal. You will need reliable internet access. Chesapeake College does not provide internet access. [Required]
- **MyOpenMath** is a **FREE**, on-line homework program that students access within Canvas. [Required]
  
  This is an Open Source textbook. For more information, please take a look at the Math in Society website is at http://www.opentextbookstore.com/mathinsociety/.

RESOURCES: Chesapeake College has many resources to help you succeed while taking classes online and balancing a full-time work schedule. These resources are available fully online and during hours that fit your schedule. Two important resources are the LRC and the ASC.

- **The Learning Resource Center (Library or LRC):** The mission of the LRC is to provide the information resources and instruction necessary to support the educational program of each student and to promote information literacy competencies so vital to life-long learning. More LRC information HERE.
- **Academic Support Center (ASC):** The ASC’s goal is student success & offers tutoring to all Chesapeake College students. The staff of peer and professional tutors serve as resources for students in math, science, technology, business, written & oral communication & critical thinking. More ASC info HERE.
ANNE MILLER (TUTOR): As a Chesapeake alumna, I started in developmental math and worked my way through Calculus 2. So I understand the difficulties and frustrations some students have with math courses and I now tutor in the Academic Support Center. Please feel free to contact me at 410-822-5400 ex 2273 or through the Canvas Inbox to set up an appointment with me or another math tutor at the ASC.

GRADING POLICY: This course consists of modules 1 – 5. All materials are posted in Canvas. Some of the material is considered review in nature. All grades will be posted in Canvas. MyOpenMath grades are automatically imported into the Canvas gradebook as you complete your assignments. The course and letter grades will be computed in Canvas as follows:

<table>
<thead>
<tr>
<th>Components of Final Grade</th>
<th>Letter Grade</th>
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</thead>
<tbody>
<tr>
<td>Just in Times</td>
<td>A 90% – 100%</td>
</tr>
<tr>
<td>Homeworks</td>
<td>B 80% – &lt; 90%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>C 70% – &lt; 80%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>D 60% – &lt; 70%</td>
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<tr>
<td>Final Exam</td>
<td>F 0% – &lt; 60%</td>
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NOTES REGARDING GRADING:

1. **MyOpenMath Assignments:** Due dates and times are listed on the Canvas homepage. Students can access any MyOpenMath assignment after the target date until the associated formal DUE date. Then the assignment will close permanently and any grade for that assignment will stand. There will be no extensions. Be aware! You will not succeed in this class if you procrastinate or do not complete the course assignments.

**PROCRASTINATE AT YOUR OWN RISK!!!** Computer down time is not a valid reason for tardiness on assignments. Computers and internet sites do sometimes experience down time, so plan ahead. Don’t wait until the last day to work on an assignment!

2. **Just-in-Times:** Just-in-Times are equally weighted and are worth a total of 4% of the final course grade. There are five just-in-time assignments. At the end of the semester, the one lowest just-in-time grade will be dropped. Each of the highest just-in-times will count as 1% of the final course grade. These are review assignments given “just-in-time” to prepare students for the material in the upcoming module.

3. **Homeworks:** Homeworks are equally weighted and are worth a total of 15% of the final course grade. There are twenty-two homeworks. At the end of the semester, the two lowest homework grades will be dropped. Each of the 20 highest homeworks will count as 0.75% of the final course grade.

Homeworks are given for the purpose of testing students’ comprehension and are assigned through a free, online program called MyOpenMath which is housed within Canvas. This program provides students with immediate feedback upon completing a problem.

Each homework consists of about 15 – 30 problems. A homework will be given for every section of every module as well as several review homeworks.

4. **Quizzes:** Quizzes are equally weighted and are worth a total of 21% of the final course grade.

There are eight quizzes. At the end of the semester, the one lowest quiz grade will be dropped. Each of the 7 highest quizzes will count as 3% of the final course grade.

**Syllabus Quiz:** The Syllabus Quiz is given to assess whether students can demonstrate understanding of the important policies and practices for this course. It is in Canvas and can be accessed either on the Canvas homepage or via the Syllabus Quiz announcement.
**Module Quizzes:** Module quizzes will be given (one per module) in MyOpenMath to test students’ understanding of recent course concepts and are assigned within Canvas. Quizzes consist of questions drawn from content covered by the corresponding module homeworks.

5. **Midterm Exam:** The midterm exam is worth 30% of the final course grade.

The midterm exam is in Canvas and can be accessed either on the Canvas homepage or via the Midterm Exam module. It may consist of either or both a Canvas portion and/or a MyOpenMath portion.

6. **Final Exam:** The final exam is worth 30% of the final course grade.

The final exam is in Canvas and can be accessed either on the Canvas homepage or via the Final Exam module. It may consist of either or both a canvas portion and/or a MyOpenMath portion.

7. **Make-up Exams:** There are NO make-up exams! Both the midterm exam and the final exam are required exams. As such, you must complete each exam by the associated formal DUE date.

8. **Extra Credit:** There will be NO opportunities for extra credit.

**COLLEGE POLICIES:** Located under the Support/Policies tab in Canvas.

**POLICY REGARDING PARENTS OR SIGNIFICANT OTHERS:** While having the support of family members is extremely helpful to students, you are my student. As such, you are responsible for completing the coursework and communicating with me if you are having difficulties doing so. As you are my student, I will only communicate with you regarding specifics about how you are doing in my class – not your parent(s) or your significant other. If they want to know how you are doing, they will need to get that information from you as I respect your privacy as a student and will keep your grades confidential.

<table>
<thead>
<tr>
<th>What you can expect of me:</th>
<th>What I expect of you:</th>
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<tbody>
<tr>
<td>• Provide complete and well-organized course materials.</td>
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<td>• Encourage questions and other communications.</td>
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<tr>
<td>• Maintain online student hours each week and be available for questions during that time for real time answers.</td>
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<td>• Respond to messages within 48 hours, Monday-Friday unless otherwise announced.</td>
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<td>• Be professional and respectful in all communication with you.</td>
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<td>• Read all course material and complete assignments by the DUE dates without exception.</td>
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<tr>
<td>• Log into CANVAS at least 3-4 times a week.</td>
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<td>• Regularly communicate with me and other students as appropriate.</td>
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<tr>
<td>• Be active in the course site regularly.</td>
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<tr>
<td>• Be professional and respectful in ALL communications with me and your classmates.</td>
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<tr>
<td>• Be honest and responsible.</td>
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<tr>
<td>• If you are having issues with an assignment or a deadline, PLEASE COMMUNICATE WITH ME.</td>
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**Time Commitment:**

An online course demands that students access the course site at least 3-4 times a week. For a regular, 15wk course, students are expected to spend about 9 hours a week for a 3 credit course (3*credits). As this is an accelerated 7½ week course, you will need to plan on spending double that or about 18 hours a week working on course material. Online courses require self-motivation and can be very challenging but are very rewarding. Following the course schedule and regular communication with me is essential.