MATH 115-2S Topics in Applied Mathematics

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MATH 115 ONLINE SYLLABUS

COURSE PURPOSE: This course introduces some very interesting real life applications of mathematics. For the most part, only basic mathematical skills are used, but the concepts require considerable thought. The concepts will be learned by doing simplified real life problems.

INSTRUCTOR: David D. Berry, Ph.D.
Mathematics and Computer Science
129 Hinkle Hall (Not used for online courses.)
745-3462 (XU) (Not a good number for Summer use.)
513-708-2476 Cell (9:30 am - 11:30 pm)
Email me at: berry@xavier.edu (Don’t use Canvas email!)

EMAIL HOURS: Email is checked often. If you want, text me after you email so I will be alerted to check my email. I will check as soon as possible.

PREREQUISITES: Don’t leave home without them! Arithmetic, a little algebra, a little geometry, and ability to understand concepts

GRADING SCALE:

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100</td>
<td>A</td>
</tr>
<tr>
<td>89.5 – 89.99</td>
<td>A-</td>
</tr>
<tr>
<td>87.5 – 89.49</td>
<td>B+</td>
</tr>
<tr>
<td>80 – 87.499</td>
<td>B</td>
</tr>
<tr>
<td>79.5 – 79.999</td>
<td>B-</td>
</tr>
<tr>
<td>77.5 – 79.49</td>
<td>C+</td>
</tr>
<tr>
<td>70 – 77.499</td>
<td>C</td>
</tr>
<tr>
<td>67.5 – 69.499</td>
<td>C-</td>
</tr>
<tr>
<td>60 – 67.499</td>
<td>D</td>
</tr>
<tr>
<td>Below 59</td>
<td>F</td>
</tr>
</tbody>
</table>

CLASS DAYS: This is a five-day a week online class. Yes, you can vary your time, but you need to keep at it. Email me about problems.

MISSED WORK: Late homework, if accepted, will receive a lower grade. Late work should be rare. Consistent late work may not be accepted.

YOUR WORK: All work should be your own. Copying or in some other way using the work of another will result in a zero for all involved. You are not to copy my answer sheets. Failure of course and remarks on your transcript are also possible. Xavier has an Academic Honesty Policy that you are expected to obey

TEXT: Excursions in Modern Mathematics by Tannenbaum, 8th edition.
Selected parts of Chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, and more, plus supplements. (Older editions will work as I don’t assign from book.)

TECHNOLOGY: A calculator will be helpful. Most of the work will only involve simple arithmetic (add, subtract, multiply, divide, percentages, and square roots). The TI-83 plus or better is required in most mathematics courses, but is not necessary for this course. A simple calculator should be fine.

HOMEWORK: You should do the homework. Look at the Assignment tab. One day before the homework is due, I will make the answers available. You should correct the homework before you submit it. See instructions under Homework. These homework grades will be scaled to give a score that will count 50 points.

(next page)
**PROBLEMS:**

Two types of problems will be available.

If you buy a book, the problems at the end of each chapter may be used for practice. Do problems that are similar to what is available in the online material. Some of the odd problems have answers in the back of the book. None of this is graded.

**Homework sets** I have made out will be available for each module. About one day before they are due, I will supply the answers. You should do these homework’s in black ink and correct errors using a red, purple or green ink. You will scan these, if possible, and email them to me by the due date. I do not take off for corrections. I take off if you don’t do the assignment or if you don’t correct your errors. (If you don’t have a scanner, I will deal with this on an individual basis.)

Many, but not all, of the test problems are similar to homework problems. I also expect you to give an answer on the test using the same format that is on Canvas and in the homework.

**CANVAS:**

Almost all activities will be on Canvas. Some special Canvas, email or other activities will earn you points. The total points will be 50 or less. This includes the quizzes, among other things.

**TESTING:**

Five exams including the final. Each chapter will be covered in about two class meetings (two days). Selected parts of chapters 9 and 11 will be covered.

- Chapters 1, 2* 100 points
- Chapters 3, 4* 100 points
- Chapters 5, 7* 100 points
- Chapters 6, 8* 100 points
- Chapters 9, 11, and extras* 100 points (Final)

* May include supplementary material too.

**GRADING:**

Points for tests or other graded materials will be adjusted if there are reasons for adjustments. Your **final grade** will be a weighted average of your **Tests** (500 points), the **Homework grade** (scaled to 50 points) and points for **Other Activities** (scaled to 50 or less). So there will be a total of about 600 points or a little less if the other activities don’t scale to 50.

(Errors and typos in syllabus subject to correction)