Course: Explorations in Modern Mathematics - 15566 - MATH 11008 - 002 - 201980
Semester: Fall 2019
Meeting Times: M W F, 1:10 - 2:00 PM
Meeting Place: MSB 319

Professor

Professor: Dr. Laura Smithies
Office Hours: Mon. and Fri. 10:30 AM - 12:00 PM,
Wed. 10:00 AM - 10:50 AM,
by appointment.
Office: 204 Mathematical Sciences Building
Office Phone: (330) 672-9027 (Email is better)
E-Mail: lsmithie@kent.edu (email me from your kent.edu email)
Website: www.math.kent.edu/~smithies

Prerequisites and Required Material

Students who have not taken a mathematics course at KSU must see an academic advisor in the Student Advising Center for placement. Basic math and algebra skills are needed for this course. You should have a minimum C grade in Core Mathematics I -IV or ACT score of at least 22. Students who do not have the proper prerequisites risk being deregistered from this class.

You are required to buy a “clicker”. This is responseware which allows to do instant polling. You have been accessed a course fee which pays for access to the Pearson website. This site contains an e-book copy of our textbook, Excursions in Modern Mathematics, KSU Ed. or Ed. 9, by Tannenbaum. ISBN 9780134442228. A printed copy of the text can be useful but is not required. You will need a calculator like the TI-30X.

Course Goals

Engagement: Students will develop an appreciation for the beauty and utility of mathematics.
Knowledge: Students will develop an understanding of the nature of mathematical knowledge. Students will connect mathematics to applications in the natural and social sciences.
Insight: Students will learn to comprehend, analyze, interpret, and express mathematical ideas in various written, oral, and technological formats.
Responsibility: Students develop an understanding of ethical issues associated with various mathematical methods.

Course Overview

The goal of this course is to give you opportunities to appreciate the beauty and utility of math. We will begin with a review of algebra and a study of some Counting Methods that we will need. Next we will study Voting Theory and Power Sharing. Finally, we will study a student guided selection of topics from: Probability and Statistics (Chapters 15 and 16); A study of math in nature (selecteded topics in Chap. 9, 11 and 12).

Course Calendar

Labor Day: Mon. Sept. 2nd (Holiday)
Test 1: Wed. Oct. 2nd
Fall Break: Fri. Oct 11th (Holiday)
Test 2: Wed. Oct. 30th
Vets Day: Mon. Nov. 11th (Holiday)
Test 3: Wed. Nov. 20th
ThanksG Break: Wed. Nov. 27th, Fri. Nov. 29th (Holiday)
Final Exam: Fri. Dec. 13th, 10:15 AM - 12:30 PM (MSB 319)
<table>
<thead>
<tr>
<th>In-class exams</th>
<th>300 points (100 points each)</th>
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<tbody>
<tr>
<td>Final exam</td>
<td>200 points (Comprehensive and material after Test 3)</td>
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<tr>
<td>Homework, quizzes, etc.</td>
<td>200 points (scaled)</td>
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<tr>
<td>Total</td>
<td>700 points</td>
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**Grade Scale**

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<tr>
<th>Percent</th>
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<tbody>
<tr>
<td>93 - 100</td>
<td>A</td>
<td>83 - 86</td>
<td>B</td>
<td>73 - 76</td>
<td>C</td>
<td>63 - 66</td>
<td>D</td>
</tr>
<tr>
<td>90 - 92</td>
<td>A-</td>
<td>80 - 82</td>
<td>B-</td>
<td>70 - 72</td>
<td>C-</td>
<td>60 - 62</td>
<td>D-</td>
</tr>
<tr>
<td>87 - 89</td>
<td>B+</td>
<td>77 - 79</td>
<td>C+</td>
<td>67 - 69</td>
<td>D+</td>
<td>0 - 59</td>
<td>F</td>
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Attendance and class participation will be considered in determining borderline grades. The grade scale may be curved up (in students' favor) but will not be curved down.

**Attendance and Make up policy**

All students are expected to attend essentially every class. Unannounced quizzes and/or homework collection may be used to encourage this.

Students are also expected to complete assigned reading and to do the homework exercises and quizzes on MyMathLabPlus. Students are encouraged to ask questions and to participate in class discussions.

In general, full credit make up exams will be given only to those students who provide adequate documentation of a true emergency (e.g., a police report or hospital admittance form, etc or University Excused absense.) If you will miss an exam, contact me as soon as possible at lsmithie@kent.edu.

**You are responsible for all announcements made in class. In particular, this syllabus is a guideline but changes may be announced in class.**

**Schedule of Deadlines**

Every class has its own schedule of deadlines and considerations. To view the add/drop schedule and other important dates for this class, go to the Students Tools and Courses tab in FlashLine and choose either View or Print Student Schedule. To see the deadlines for this course, click on the CRN or choose the Drop or Add a Course link and click on the green clock next to the course under Registration Deadlines.
Additional Information

• This course may be used to satisfy a Kent Core requirement in Math and Critical Reasoning. The Kent Core as a whole is intended to broaden intellectual perspectives, foster ethical and humanitarian values, and prepare students for responsible citizenship and productive careers.

• The official registration deadlines are posted on https://www.kent.edu/registrar/calendars-deadlines. This site also gives the dates for the last day to withdraw from this class without receiving a grade of 'W' and the last day to withdraw from this class and receive a grade of 'W'. University policy requires all students to be officially registered in each class they are attending. Students who are not officially registered for a course by published deadlines should not be attending classes and will not receive credit or a grade for the course. Each student must confirm enrollment by checking his/her class schedule (using Student Tools in FlashLine) prior to the deadline indicated. Registration errors must be corrected prior to the deadline.

• University policy 3342-3-01.8 deals with the problem of academic dishonesty, cheating, and plagiarism. None of these will be tolerated in this class. The sanctions provided in this policy will be used to deal with any violations. If you have any questions, please read the policy at http://www.kent.edu/policyreg/chap3/3-01-8.cfm and/or ask. There is a condensed version of this policy posted on our class website.

• University policy 3342-3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-672-3391 or visit www.kent.edu/sas for more information on registration procedures).

This course section is supported by free Scheduled and/or Drop-In tutoring offered through the Academic Success Center (ASC). Students interested in Scheduled tutoring should stop by the Center for Undergraduate Excellence (CUE) during the first week of classes to sign up. Drop-In tutoring is available during the day in the library, and also in select residence hall locations in the evenings. For more information, please visit www.kent.edu/asc