

**Mathematics 67-188 (3 credits)**  
**Modern Mathematics and Its Applications**  
**Spring Semester 2014**

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**Instructor:** Jeremy Parrott  
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**Office:** Swart 234  
**Office Hours:** MWF 10:20 am - 11:20 am,  
and by appointment.

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**Prerequisites:** A minimum grade of C in 67-103 (Intermediate Algebra) or placement in a higher numbered course is required.

**Course Objectives:** This course is designed to introduce the ideas of contemporary mathematics to a general audience in such a way as to encourage the development of problem solving skills and mathematical reasoning. The course covers a large quantity of topics and problems including voting systems, apportionment, efficient routing and networking problems.

**Required Materials:** The text *Excursions in Modern Mathematics*, by Peter Tannenbaum (and Robert Arnold). Any of the editions (3rd, 4th, 5th, 6th or 7th) is fine. I will have the 7th edition myself. The *PBIS 188* packet - Bring this to class every day. You will need a scientific calculator.

**Attendance Policy:** Your attendance in this class is important, not only for personal growth, but also that of your peers. Many of the problems will involve a discussion amongst all of the class and your participation in these discussions are an integral part to your learning. If you must miss class for any reason, it is your responsibility to inform me prior to the absence, when possible, and to understand the material that you missed due to your absence. Your course grade may suffer if you miss too many class periods.

**Grading:** Your grade in this class will be based on the following categories:

**Homework (10 %):** This is scored in class on the date it is due. The homework is graded on a 4 points scale, where 4 points represents full and complete homework assignment, a 3 represents most problems were completed, a 2 represents some problems were completed and a partial effort was put forth, a 1 represents few problems were completed and little effort was put forth, and a 0 represents no problems done or not present when homework was checked. Your 2 lowest scores on homework will be dropped.

**Participation (5 %):** Throughout class, it is expected that you participate and contribute to class discussions. Towards the end of the semester you may be asked to write an essay discussing how you participated in this class and what grade you should receive for that participation. More details on the essay will come when it is assigned.

**Quizzes (15 %):** These will be announced in class.

**Written Work (10 %):** This includes written assignments that will be given throughout the class. The details and requirements for each of these assignments will be given when assigned. One can expect that these assignments must be typed, and written with proper grammar and spelling.

**Three in-class Exams (20 % each):** These exams are tentatively scheduled to occur after we have discussed voting methods (exam 1), apportionment (exam 2), and networking (exam 3).

The grading scale will be no stricter than:

A: 93 - 100 %	A-: 90 - 92 %	B+: 88 - 89 %
B: 83 - 87 %	B-: 80 - 82 %	C+: 78 - 79 %
C: 73 - 77 %	C-: 70 - 72 %	D+: 68 - 69 %
D: 63 - 67 %	D-: 60 - 62 %	F: 0 - 59 %

**Academic Honesty Policy:** Cheating on an exam, plagiarizing or any other form of academic dishonesty will be dealt in accordance with the current UWO Student Discipline Code. The instructor reserves the right to assign a grade of "F" for the course should circumstances warrant.