Math 362 Course Outline, Fall 2018; CRN 12235

Web Page: www.math.uvic.ca. Look under course pages, then Math 362.

Days: Monday, Wednesday, Thursday **Time:** 2:30 – 3:20 **Room:** Elliott 061
Instructor: Dr. Kieka Mynhardt

Office: (David Turpin Building) DTP-A541

Office Hours:

Tuesday	10:30 – 11:30
	01:00 – 01:30
Wednesday	10:30 – 12:00

or by appointment (or take your chances with a drop-in), except on Fridays

Text: U. Dudley, *Elementary Number Theory* (Second Edition). Dover Publications, Inc., Mineola, NY, 2008.

Topics: Sections 1 – 13, 15 – 18, plus extra material on cryptography (with Section 9) and continued fractions. Topics include: Division and Euclidean algorithms (revision), Unique Factorization Theorem, Linear Diophantine Equations, Linear Congruences and the Chinese Remainder Theorem, Fermat's and Wilson's Theorems, Divisors of an Integer, Perfect Numbers, Euler's Theorem and Function, the RSA algorithm, Primitive Roots, Quadratic Congruences, Quadratic Reciprocity, Numbers in Other Bases, Decimals, Pythagorean Triangles, Infinite Descent and Fermat's Conjecture, Sums of Squares, The Prime Number Theorem (without proof), Continued Fractions.

Calculators: The Sharp EL-510-R/RNB, is the standard, *and only*, calculator permitted for classroom use in MATH 362.

Assignments: Assignments must be **submitted in class before the lecture starts** on the days they are due, which will be approximately once every two weeks (6 assignments of roughly equal weight). No late submissions will be accepted. Once marked, they will be returned in class.

Discussing work with classmates, including homework to be submitted for marks, is a useful and mathematically healthy practice. The work you submit must be written independently in your own words and reflect your understanding.

Academic Integrity: See http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/academic-integrity.html

Midterm exam dates:

Midterm 1	Midterm 2	Midterm 3
Thursday, October 11	**Thursday, November 8**	**Monday December 3**

Only Sharp EL-510-R calculators may be used during exams – see above.

Approximate assignment dates:

A1	A2	A3	A4	A5	A6
Sept 19	Oct 3	Oct 17	Oct 31	Nov 15	Nov 29

Composition of final mark: The final mark will be computed as tabled below; however, an average of at least 50% (i.e. 40/80) on Midterms 1 and 2 and the final exam is required to pass the course.

Homework	Midterm 1	Midterm 2	Midterm 3	Final
14	**16**	**16**	**6**	**48**

Mark for missed or late assignment: 0 (with the exceptions below).

Missed work: Academic concessions are available to students who, through no fault of their own, are prevented by circumstances from completing an assignment, writing a midterm, or writing the final exam. In accordance with UVic policy, academic concessions are considered only in cases of illness, accident or affliction: see http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/concessions.html.

- Supporting documentation from a doctor or counsellor or varsity coach is required for any concession.

- If an academic concession is granted for term work, the student's rank on the final exam will be used to estimate a mark for the missed work.

- If you miss a test or assignment due to illness, accident or family affliction, you should notify me as soon as possible, and provide a written request to be excused accompanied by supporting documentation.

- If you have a question or concern about your mark on a test or assignment, you must bring it to my attention **within seven calendar days** of the date when it was returned in class.

Course Experience Survey (CES): I value your feedback on this course. When it is time for you to complete the survey you will receive an email inviting you to do so. You will need to use your UVic netlink ID to access the survey, which can be done on your laptop, tablet, or mobile device. Please think about your experience during the course.

Students are strongly advised not to make final plans for travel or employment during the final examination period since special arrangements will not be made for examinations that may conflict with such plans.

Important dates

- Last day for withdrawing with 100% fee reduction: **Tuesday September 18**
- Last day for adding courses: **Friday September 21**
- Last day for withdrawing with 50% fee reduction: **Tuesday October 9**
- Last day for withdrawing without penalty of failure: **Wednesday October 31**
- Examination period – **December 8 − 22**

Conversion from course percentage to letter grade: For the purpose of GPA calculations, percentage scores will be converted to letter grades according to the university-wide standard table – see
http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/grading.html.

Please also see the following web page for important course policy information:

http://www.uvic.ca/science/math-statistics/current-students/undergraduate/
course-policies/index.php

Math Club: See http://www.uvic.ca/science/math-statistics/current-students/
undergraduate/sums/index.php.