

Course Outline 201701 Math 122 [A01 - A05]

- Instructors:** A01 (CRN 22073): Gary MacGillivray, DTB A442, gmacgill@uvic.ca, 250-721-7448
A02 (CRN 22074): Josh Manzer, DTB A453, jmanzer@uvic.ca, 250-853-3291
A03 (CRN 22075): Jane Butterfield, DTB A445, jbutter@uvic.ca, 250-721-7444
A04 (CRN 22076): Jing Huang, DTB A549, huangj@uvic.ca, 250-721-7447
A05 (CRN 23980): Josh Manzer, DTB A453, jmanzer@uvic.ca, 250-853-3291
- Office Hours:** Please see the course web page (details below).
- Course Title:** Logic and Foundations
- Textbook:** *Discrete Mathematics for Logic and Foundations*
Custom edition for the University of Victoria
Pearson, ISBN-13: 978-0-558-31046-2
- The custom edition is Chapters 0-8 plus appendices of:
Edgar Goodaire and Michael Parmenter
Discrete Mathematics with Graph Theory, 3rd Ed.
Pearson / Prentice-Hall, 2006
- Prerequisites:** Math 100, or 102, or 151, or permission of the department
- Lectures:** A01 (CRN 22073): MR 8:30 – 9:50, CLE A212
A02 (CRN 22074): TWF 8:30 – 9:20, CLE A212
A03 (CRN 22075): MWR 2:30 – 3:20, CLE A127
A04 (CRN 22076): TWF 1:30 – 2:20, DTB A102
A05 (CRN 23980): MWR 3:30 – 4:20, COR B112
- Course Support:** The Math and Stat Assistance Centre supports learning in our first and second year mathematics and statistics courses. There are three locations, DTB, Residence, and the Library. Opening hours and details are available at www.math.uvic.ca/~msassist/.
- Course Web Page:** Look at www.uvic.ca/science/math-statistics -> Current Students -> Undergraduate -> Courses -> 122 to find lots of information, including office hours, the course schedule, test preparation practice materials, solution ideas for midterms and assignments, and study tips and materials
- Syllabus:** Chapters 0 to 6 -- excluding Secs 2.5, 4.5, 5.3, 5.4, and 6.3 – plus selected material from Secs 7.1, and 7.2, and additional material on divide and conquer recurrences: Logic and quantifiers, proofs, basic set theory, functions, relations, induction and recursive definitions, divisibility, congruences, basic counting, cardinality of sets.
- Grading Scheme:**
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| Five take-home assignments (4% each) | 20% |
| In-class assignments (many) | 10% |
| Six bi-weekly quizzes (5% each) | 30% |
| Final Exam (scheduled by Records) | 40% |
- Schedule:**
- A01, 03, 05:** Quizzes: Jan. 12, 26; Feb. 9; Mar. 2, 16, 30
Asmts Due: Jan. 19; Feb 2, 23; Mar. 9, 23
- A02, 04:** Quizzes: Jan. 13, 27; Feb. 10; Mar. 3, 17, 31
Asmts Due: Jan. 20; Feb 3, 24; Mar. 10, 24

All sections will have the same take-home assignments and the same final exam. The quizzes and in-class assignments will be set to be consistent across all sections in terms of difficulty.

Special arrangements will not be made for students who have plans for travel or employment during the final examination period.

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Grading Notes

For the purposes of GPA calculations, the standard UVic conversion from course percentage to letter grade is used. Details are in the Calendar, and also on the Course Policy sheet referenced below.

Students who achieve less than 40% on the final exam will not pass the course. This requirement is imposed because so much weight is being put on the term work.

Course Policies

Please see the Course Policies common to all Math classes at <http://www.uvic.ca/science/math-statistics/current-students/undergraduate/course-policies/index.php> Some of these are repeated in what follows. In particular, note that the only calculator that may be used on exams is the Sharp EL 510R or the Sharp EL-510RN.

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

Please take note of the UVic policy on attendance: see <http://web.uvic.ca/calendar2017-01/undergrad/info/regulations/attendance.html#> In particular, students are expected to attend all classes in which they are enrolled.

Students are expected to submit their homework, and write tests, as scheduled. Assignments are due in class *before the lecture begins*. Late assignments may be submitted before the start of the next class, with a 20% deduction from the grade earned.

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/calendar2017-01/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 a term work, then the student's rank in her section on the final exam will be used to estimate a grade for each piece of work excused. As emphasized in the next point, academic concessions for term work are limited to work of value totalling at most 20% of the course grade. Retroactive withdrawals are available to students who are able to provide their Associate Dean with documentation showing that accident, illness, or affliction has prevented them from making a serious attempt at the course.

Academic concessions will not be granted to students who have been absent from class for a substantial portion of the term, or who will not have completed course work worth at least 40% of the course grade by the end of the last day of classes. Please note that make-up tests and assignments are not given, and that 'Deferred' status applies only to final exams.

If you have a question or concern about an assigned mark, please bring it to your instructor's attention within seven calendar days of the date when work is returned to the class. After this time has elapsed, your mark will not change except in case of an arithmetic error. If you are sick, an email or a phone call will suffice as notice, provided you see your instructor immediately on your return to classes.

Take-home assignments and all tests will be returned in class, or can be claimed during office hours. Any term work that is uncollected by the end of the final exam period will be put into confidential shredding.

Special Notes

The Course Experience Survey (CES) has moved online. Towards the end of term you will have the opportunity to complete an anonymous survey regarding your learning experience. We take the comments seriously and thank you in advance for them.