

Math 122, Logic and Foundations: Syllabus and Course Information

Syllabus: Logic and quantifiers, proofs, set theory, elementary counting, recursive definitions, and mathematical induction, number theory, congruences, relations, functions, cardinality of sets.

Prerequisites: Math 100, or 102, or 109, or 151, or permission of the department.

Textbook: Free and available on the course web page.

Course Web Page: Located on Brightspace. What's there?

- Course information, including this outline;
- Instructor office hours;
- Study tips;
- Links to old tests and solutions;
- Assignments, worksheets, and eventually solutions;
- Pointers to additional resources like other useful books, videos, and more.

Mathematics and Statistics Assistance Centre: Opening hours, operating information and other information is available at <https://www.uvic.ca/science/math-statistics/> under *Math & Stats Assistance Centre*. This is a free resource, staffed by trained tutors, that supports learning in first and second year mathematics and statistics courses.

Grading Scheme:	Worksheets (8, not of equal value)	48%
	In-class assignments (many)	10%
	Term tests (two @ 6.5% each)	13%
	Final Exam (scheduled by Records)	29%

All in-person sections will have the same worksheets, assignments, and final exam. The term tests and in-class assignments will be set to be consistent across all sections in terms of difficulty.

To pass the course it is necessary, but not sufficient, to achieve at least 33% on the final exam. It is also necessary, but not sufficient, to have attempted course work worth at least 60% of the final grade.

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

Math 122, Logic and Foundations: Syllabus and Course Information

Course Schedule for In-person Sections

In-class Assignments: At random. Started in class and due later.

Weekly Worksheets: One due in almost every Wednesday, starting on Wednesday Sept 22. No worksheet due in same the week of a term test or Reading Break.

Term Test 1: Thursday, October 21 in MR classes, and Friday, October 22 in TWF classes.

Term Test 2: Thursday, November 24 in MR classes, and Friday, November 25 in TWF classes.

Final exam: In the Final Exam Period, as scheduled by Records Services.

Math 122, Logic and Foundations: 202109 In-person Sections

202109 In-person Course Sections

There are five sections of Math 122. The information below is for the in-person sections of the course. Section A02 is online only and is being regarded as its own separate course.

Instructor	Section	Schedule	CRN	Email @uvic.ca
Jon Noel	A01	MR 08:30 - 09:50 MAC D207	12133	noelj
Jon Noel	A03	TWF 8:30 - 9:20 ECS 124	12135	noelj
Kieka Mynhardt	A04	TWF 11:30 - 12:20 COR B135	12136	kieka
Natasha Morrison	A05	TWF 13:30 - 14:20 MAC D207	12137	nmorrison

Times are given on a 24-hour clock for the Pacific Time Zone. Depending on the BC Government's decision, there may be a change that moves the clocks backwards by 1 hour at 02:00 on Sunday, November 7.

Office Hours are posted on the x-listed course web page. Students can attend any instructor's office hours.

Note. Towards the end of term you will have the opportunity to complete an anonymous Course Experience Survey regarding your learning experience in this course. We take the comments seriously and thank you in advance for them.

Math 122, Logic and Foundations: Course Policies and Procedures

Course policies common to all Mathematics and Statistics classes: <https://www.uvic.ca/science/math-statistics/current-students/undergraduate/course-policies/index.php>.

Attendance. Students are expected to attend all classes in which they are enrolled. See the Calendar entry *Attendance* at www.uvic.ca/calendar under *Fees, Policies and Regulations*.

Academic concessions. See the Calendar entry *Academic Concessions* at www.uvic.ca/calendar under *Fees, Policies and Regulations*.

Academic concessions for missed work 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 55% of the final grade by the last day of classes. Late 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.

Standard calculator. The only calculator that may be used on exams is a Sharp calculator where the model begins with "EL 510R". In Math 122, calculators are most useful for drawing straight lines.

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

Term work. Students are expected to submit their homework, and write tests / quizzes, as scheduled. Various concessions may be available to students who, through no fault of their own, are prevented by circumstances from completing an assignment, doing in-class work, or writing a midterm test or quiz. These are considered only in cases of illness, accident or affliction. For information about academic concessions for final exams, see the UVic policy referenced above.

Missed term work. If an academic concession is granted for term work, then the student's rank in their section on the final exam will be used to estimate a grade for each piece of work excused. There are no off-schedule tests. Academic concessions for term work are limited to work worth at most 25% of the course grade. 'Deferred' status applies only to final exams.

Late Assignments. Assignments are due at the date and time scheduled by the instructor, and are to be submitted in the manner and form required. After that, assignments may be submitted before the start of the next class with a 20% deduction from the grade earned. Extensions are considered in exceptional circumstances.

Grade questions. Adding and recording mistakes can be fixed at any time. Please bring questions about marking to your instructor's attention within seven calendar days of the date when work is returned to the class. Your instructor reserves the right to not reconsider the grading of term work after the seven day notice period has expired.