

THE UNIVERSITY OF WESTERN ONTARIO
DEPARTMENT OF MATHEMATICS

Mathematics 1228A
Methods of Finite Mathematics

Main Campus Sections
September - December 2021

INSTRUCTORS:

M. Francis and A. O'Hara. *(See Tutorial Schedule next page and Instructor Contact Information below.)*

TEXTBOOK:

A (required) custom textbook is posted (free) on the course OWL site. Note: it is not an e-book, just pdf files.

PREREQUISITES:

One or more of Ontario Secondary School MCV4U, MHF4U, MDM4U, Mathematics 0110A/B, 1225A/B, 1229A/B.

ANTIREQUISITES:

Mathematics 2124A/B, 2155F/G, Statistical Sciences 2035, 2141A/B, 2857A/B.

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

COURSE OUTLINE:

Topics covered include techniques of counting, probability, discrete and continuous random variables. Students are expected to demonstrate an understanding of these concepts and an ability to apply them in solving a variety of problems.

FORMAT:

This is a blended course. All students are registered in section 200 and also in one of the Tutorial sections. Tutorials, taught by the course Instructors, meet once per week. Students are expected to have made every effort to have learned the material for the week, from the resources provided, before attending the tutorial.

COURSE WEB SITE:

Various useful supplemental materials, such as required extra homework problems, practice tests, and solutions to the homework exercises, are posted on the OWL web site (<http://owl.uwo.ca>). In addition, there are forums on which students may post questions. Important information will be posted on the NEWS forum and/or on the class site. All students are expected to be aware of information, and make use of materials, posted on the course web site and relevant sub-sites. As well, the Online Quizzes (a grade component) are in the OWL site.

WHAT IS EXPECTED OF THE STUDENT?

Students should make a serious effort to understand all course material and do all the assigned homework. The student must assume responsibility for staying up to date with course content and for being aware of posted deadlines. It is up to the student to seek out help when needed. The student is responsible for being aware of all relevant information posted on the OWL web site, especially on the NEWS forum.

Please contact your course instructor if you require material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 x82147 for any specific question regarding an accommodation.

Note: Any email sent to an instructor (and especially to the course coordinator) **MUST say Math 1228A in the subject line**. Any email without this, and/or any email sent from other than a UWO email address, may be deleted unread.

EVALUATION OF STUDENT PERFORMANCE:

Students will be assessed on the basis of Online Quizzes, 2 Term Tests, and a Final Exam.

- The quizzes are completed in OWL. See the Quiz Schedule and Quiz Information documents posted on the Course Information page on the course site in OWL.
- The 2 Term Tests are each 90 minutes in length. Test 1 will cover Chapter 1 of the textbook, while Test 2 will cover (only) Chapter 2 (but Chapter 1 material comes up in the context of Chapter 2). The days and times (EDT) of the tests are as follows:

Test 1: 7:00 - 8:30 p.m. Friday October 15 and Test 2: 7:00 - 8:30 p.m. Friday November 12

- The Final Exam, 3 hours in length and covering all course material, will be scheduled by the Registrar's Office during the December Exam Period.
- Tests and examinations in this course will be in-person and handwritten on paper, if possible. In-person tests/exam will have some multiple choice and some written-answer questions. Total 25 marks for each Term Test and 50 marks for the Final Exam. (See also In The Event that Tests/Exams Cannot be Held In-Person)

Calculation of Final Grade:

Each Term Test will count for 20%, the student's best 5 of the 6 Online Quizzes will each count for 2%, for a total of 10% and the Final Exam will count for 40%. The remaining 10% weight will be assigned to whichever of the 3 tests/exams is the student's best mark.

Notes:

1. **NO calculators or other electronic devices or any other aids are allowed on tests and exams.**
2. See Absence / Missed Work policy on next page.
3. Makeup examinations for the term tests are available to those who gain accommodation and are anticipated to be provided in the week following the assessment.

INSTRUCTOR CONTACT INFORMATION:

A. O'Hara (002, 003, 004 & Course Coordinator): aohara@uwo.ca, MC 113

M. Francis (005, 006 & 007): mfranc65@uwo.ca, MC 133

TUTORIAL SECTION INFORMATION:

002 - Mondays 3:30 - 4:30 p.m. NCB 117 Prof. O'Hara

003 - Wednesdays 3:30 - 4:30 p.m. FNB 1250 Prof. O'Hara

004 - Fridays 3:30 - 4:30 p.m. NCB 117 Prof. O'Hara

005 - Tuesdays 7:00 - 8:00 p.m. NCB 117 Prof. Francis

006 - Tuesdays 8:00 - 9:00 p.m. NCB 117 Prof. Francis

007 - Thursdays 7:00 - 8:00 p.m. NCB 117 Prof. Francis

CLASS POLICIES:

- All students are expected to engage in a professional and respectful manner. This includes all interactions with peers, as well as communication between TAs or your Professor. Failure to do so will result in academic discipline.
- Recording of lectures, tutorials, or office hours without the explicit consent of the Professor or TA is grounds for academic discipline.
- Course content created by a faculty member is considered the faculty member's intellectual property; it should not be distributed, shared in any public domain, or sold by a student or other third party without prior written consent of the faculty member.
- **Any** work submitted by a student for grades must be the **student's own work**.

In The Event that Tests/Exams Cannot be Held In-Person:

If, at some point during the course, it becomes not possible to hold scheduled in-person tests, then any remaining tests and examinations will be conducted online, using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's

Remote Proctoring website at: <https://remoteproctoring.uwo.ca>. Any test or exam which is being conducted online will consist of only multiple choice questions. The date, time, coverage and weight of the test/exam is not expected to be affected by this change.

Contingency plan for all in-person classes pivoting to 100% online learning: In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will not change. Any remaining assessments will also be conducted online as determined by the course coordinator.

ACADEMIC POLICIES:

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy,

https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf,

the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

ACCOMMODATION AND ACCESSIBILITY POLICIES:

Students with disabilities work with Accessible Education (formerly SSD), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Accommodation_disabilities.pdf

ABSENCE / MISSED WORK:

Students who experience an extenuating circumstance (illness, injury or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

1. Submitting a Self-Reported Absence (SRA) form provided that the conditions for submission are met. To be eligible for a Self-Reported Absence:
 - an absence must be no more than 48 hours
 - the assessments must be worth no more than 30% of the student's final grade
 - no more than two SRAs may be submitted during the Fall/Winter term
2. For medical absences, submitting a Student Medical Certificate (SMC) signed by a licensed medical or mental health practitioner to the Academic Counselling office of their Faculty of Registration.
3. Submitting appropriate documentation for non-medical absences to the Academic Counselling office in their Faculty of Registration.

Note that in all cases, students are required to contact their instructors within 24 hours of the end of the period covered, unless otherwise instructed in the course outline.

Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.

For the policy on Academic Consideration for Student Absences – Undergraduate Students in First Entry Programs, see: https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf

and for the Student Medical Certificate (SMC), see:
https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

Religious Accommodation: When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at <https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>.

Absences from Quizzes: A student who needs a makeup for an Online Quiz should email the instructor, stating the reason for missing the quiz, as soon as possible after the quiz window closes. (No other approval required.) Please note that there will be no makeups for Quiz 6.

Absences from Final Examinations: If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

SUPPORT SERVICES

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>.

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Accessible Education at (519) 661-2147 if you have any questions regarding accommodations.

Students who are in emotional/mental distress should refer to Mental Health@Western (<http://www.health.uwo.ca/mentalhealth>) for a complete list of options about how to obtain help.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.