

Math 1120B Course Outline

1 Course Information

1.1 Course Information

Math 1120B	Fundamental Concepts in Mathematics
Location	WSC 240
Time	MWF 1:30-2:30pm
Office hours	Friday 2:30-3:30pm in PAB 48/49; further times to be announced

1.2 List of Prerequisites

One or more of Ontario Secondary School MCV4U or Mathematics 1600A/B

1.3 List of Antirequisites

You may not take this course for credit if you have credit for Mathematics 2155F/G.

2 Instructor Information

Instructor	Email	Office
Prof. Graham Denham	gdenham@uwo.ca	MC 118

Please use your Western email address when writing to me.

3 Course Syllabus, Schedule, Delivery Mode

Math 1120b is an introduction to the methods and ways of thinking in modern mathematics. Math 1120b is a first course in math beyond calculus and linear algebra. This is the recommended first step for anyone interested in a Mathematics module! Topics include:

- set theory
- proof techniques and logic;
- functions and relations (equivalence relations, orders) elementary abstract algebra and analysis

Quiz dates:

1	January 16
2	January 30
3	February 6
4	February 27
5	March 6
6	March 20
7	March 27
8	April 3

Important session dates:

Classes begin:	January 9, 2023
Reading Week:	February 18 – 26, 2023
Classes end:	April 10, 2023
Exam period:	April 13 – 30, 2023

4 Course Materials

Textbook: *Proofs and Fundamentals: A first Course in Abstract Mathematics*, second edition, Ethan Bloch. Available in digital format from the Western Libraries.

Students are responsible for checking the course OWL site (<http://owl.uwo.ca>) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class.

All course material will be posted to OWL: <http://owl.uwo.ca>.

If students need assistance with the course OWL site, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

The course URL is <https://gdenham.math.uwo.ca/class/1120/>.

5 Methods of Evaluation

In-class Quizzes (8)	10%
Midterms (2)	50%
Final Exam	40%

The midterms will take place in class on February 13th and March 13th (1:30-2:30pm).

6 Student Absences

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

In-class quizzes No documentation required. The lowest two quiz scores will be dropped.

Midterm exams Following Western policy academic considerations for work totalling 10% or more of the final course grade can be granted only by the student's Faculty of Registration (typically by their academic counsellors). In such cases, students should be directed as follows. For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible. For further information, please consult the University's medical illness policy at

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

The Student Medical Certificate is available at

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

Students who are excused from writing either midterm exam will have their grade reweighted to the final exam.

Absences from Final Examination

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).

7 Accommodation and Accessibility

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>

Accommodation Policies Students with disabilities are encouraged to contact Accessible Education, 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/AcademicAccommodation_disabilities.pdf

8 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 their official university address is attended to in a timely manner.

Note: electronic devices will not be permitted on quizzes and exams.

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 Tests and examinations in this course will be conducted 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>.

9 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/>.

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

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at https://www.uwo.ca/health/student_support/survivor_support/get-help.html. To connect with a case manager or set up an appointment, please contact support@uwo.ca.

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 http://academic-support.uwo.ca/accessible_education/index.html if you have any questions regarding accommodations.

Learning-skills counsellors at the Student Development Centre (<https://learning.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.

[optional] Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital/>. Additional student-run support services are offered by the USC, <https://westernusc.ca/services/>.