The University of Western Ontario (Western University)

Mathematics 1120B, Winter 2022 Fundamental Concepts in Mathematics

January–April 2022

[course outline version Jan. 17, 2022; may be updated later]

CLASS MEETINGS: MWF 1:30-2:20 pm (Prof. Barron, tatyana.barron@uwo.ca)

The course meets online on zoom <u>Jan.10-Feb.18</u> and then in person in HSB-9 Feb.28-Apr.8.

Feb.19-27, 2022 is reading week

TEXTBOOK: E. Bloch. Proofs and Fundamentals 2nd ed. Published by Springer. Electronic version available online for free via the library website (with UWO credentials).

PREREQUISITES: Ontario Secondary School MCV4U or Mathematics 1600A/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.

ANTIREQUISITES: Mathematics 2155F/G, or the former Mathematics 2155A/B.

COURSE DESCRIPTION: Primarily for students interested in pursuing a degree in one of the mathematical sciences. Logic, set theory, relations, functions and operations, careful study of the integers, discussion of the real and complex numbers, polynomials, and infinite sets.

WHAT IS EXPECTED OF THE STUDENT: Students are expected to attend all class meetings, review all learning materials in timely fashion, follow class announcements, complete all assignments and write all examinations. Solutions of collected homework problems must be written neatly, and handed in by the deadline.

Students are responsible for checking the course owl site (at 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.

Course material will be posted to the course owl site.

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 students are responsible for reading the owl announcements received by email and other course related email correspondence received at their official university email accounts.

EVALUATION OF STUDENT PERFORMANCE:

homework assignments and class attendance 40% midterm exam (2.5 hours, in person, date and time TBA) 35% final exam (2 hours, to be scheduled by the Registrar's office) 25%

Homework: there are three assignments, each worth 12%, with due dates Wednesdays Feb. 9, Mar. 16, Apr. 6.

Attendance: 4% course grade component will be based on the attendance of the online class meetings (as recorded in the zoom meeting reports), between Friday January 14 and Friday February 18.

ACCOMMODATED EVALUATIONS: late homework will not be accepted. Please submit any time before the deadline. If there is proper documentation for a missed assignment, then the homework component of the grade will be adjusted accordingly. In order to obtain a passing numerical course grade, a student must write a proctored assessment. If a student missed the midterm test, then a make up test will be given, if this accommodation is approved by academic counseling. For a missed final exam, see below, under "Absences from final examination".

TECHNICAL REQUIREMENTS for the course: computer with a microphone and webcam, reliable and stable internet connection, a scanner or an alternative. Your device needs to meet system requirements for Zoom.

The remote learning sessions for this course will not be recorded. All supporting learning materials will be available on the course owl site. Attendance in remote learning sessions will be used towards the "level of engagement" course evaluation component. Some of the class meetings may rely on asynchronous course materials which students are expected to review in timely fashion.

Participants in this course are not permitted to record the sessions, except where recording is an approved accommodation, or the participant has the prior written permission of the instructor.

If the midterm or the final examination are to be conducted remotely, then your device will need to meet system requirements for Proctortrack.

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/

STUDENT ABSENCES: Academic Consideration for Student Absences. 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:

(i) 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

- \bullet 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

(ii) 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.

(iii) 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.

Observe that Self-Reported Absences may <u>not</u> be used to request accommodation for a missed midterm exam (or a missed final exam).

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:

http://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 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).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under Special Examinations).

ACCOMMODATION AND ACCESSIBILITY:

Accommodation 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

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.

No aids will be permitted on tests and exams. Electronic devices, including calculators, will not be permitted on in-person tests 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

SUPPORT SERVICES: Science students: please visit the Science and 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.

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Learning-skills counsellors at the Student Development Centre (http://www.sdc.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.

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