

## Mathematics 1120B-001 Course Outline (Winter 2018-19)

### *Fundamental Concepts in Mathematics*

**Instructor:** David Riley, Professor

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**Syllabus:** This course is intended for students interested in pursuing a degree in one of the mathematical sciences. Topics include logic, set theory, relations, functions and operations, a careful study of the integers, discussion of the real and complex numbers, polynomials, and infinite sets.

**Class time and location:** MWF 1:30-2:30 in NCB-295.

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

**Prerequisites:** One or more of Ontario Secondary School MCV4U, Mathematics 1600A/B.

**Textbook:** *A Concise Introduction to Pure Mathematics*, 4<sup>th</sup> edition, by Martin Liebeck, Chapman Hall/CRC Press.

**Website:** Any additional information will be posted on OWL (<http://owl.uwo.ca>).

**Evaluation:** Assignments (20%), Midterm Exam I (20%), Midterm Exam II (20%), Final Exam (40%).

**Exam dates:** The midterm exams will be held during normal class time on February 6 and March 13. The date of the final exam will be determined by the Registrar.

**Missed assignments and exams:** If you miss an assignment or exam due to medical or non-medical reasons, you must contact your faculty's Academic Counselling Office, as soon as possible, to apply for accommodation. If accommodation is granted, the corresponding weight of the missed assignment or midterm exam will be added to the weight of your final exam.

### **Accommodation for illness**

**policy:** [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_illness.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf)

**Policies for assignments:** All assignments are to be submitted at the beginning of class on their due date. No late assignments will be accepted.

**Policies for exams:** No electronic devices of any sort are permitted during exams.

**Statement on academic offences:** 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](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf).

**Registrarial Services:** <http://www.registrar.uwo.ca>

**University Students' Council:** <http://westernusc.ca/services/>

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

**Accessibility:** 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 Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.