

MATH 0005B – Precalculus: Functions and Graphs – Winter 2020
School of Mathematics and Statistics, Carleton University

Instructor: Dr. Lucy Campbell

Office: 4269 Herzberg Building; **Office hours:** To be decided.

Phone: 613-520-2600 Ext. 1208; **E-mail:** campbell@math.carleton.ca

Web-page: <http://www.math.carleton.ca/~campbell>

Course web-site: <http://www.math.carleton.ca/~campbell/MATH0005>

cuLearn: <https://www.carleton.ca/culearn>

Please only contact me through your Carleton email account or through cuLearn. Email from any other account runs the risk of being summarily deleted as spam.

Lectures: Mon/Wed, 10:00 - 11:30 AM, starting Jan 6.

Tutorials: Wed, 11:30 AM - 12:30 PM.

Prerequisites:

Grade 11 Functions (University/College Preparation) or Grade 11 Functions and Relations (University Preparation), or equivalent.

Note that this course is not available for degree credit for students who have successfully completed Grade 12 Mathematics - Advanced Functions, or an equivalent High School functions course.

Topics:

Review of algebraic manipulations. Polynomials: the remainder theorem, and the factor theorem; graphing. Real and Complex roots. Absolute values. Inequalities. Functions, including composition of functions, and Inverse functions. Logarithmic and exponential functions.

Textbook (required): Basic Technical Mathematics, 11th Edition, by Allyn J. Washington.

Grading scheme:

10 % — Tutorial quizzes.

40 % — Three 50-minute tests during the tutorials.

50 % — A 3-hour final examination scheduled during the Winter Term exam period.

Students who wish to review their final examination paper must do so by May 15, 2020. This privilege is for educational purposes and not an opportunity to argue about the marking.

There will be no make-up, early or delayed tests. Only absences due to serious and unforeseen illness, jury duty or extreme personal misfortune may be excused. Otherwise, any missed evaluation will be counted as zero.

Homework: Selected exercises from the text are listed on cuLearn. These must be done for practice, not to be handed in. In order to succeed in the course you **must** do the homework on a regular basis and attend tutorials regularly.

Winter Break: There will be no classes from Feb 17 - 21.

Calculator: You may use a non-programming, non-graphing calculator for the tests and the final examination. I reserve the right to prohibit the use of any calculator.

Academic Accommodation: The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodation in this course, please contact the PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodation for the formally-scheduled exam (if applicable). For pregnancy or religious obligations, write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist.