

Mathematics 4101
Winter, 2019/20

Instructor:	James Preen (email: james_preen@cbu.ca)
Office:	A-129A (ground floor, A-wing, at the bottom of the ramp)
Office Hours:	Mondays and Thursdays 1pm - 4pm, or by appointment
Class meetings:	Monday at 14:30 and Friday at 13:00 (room B260-C)
Textbook (optional):	Online versions of Bondy & Murty, and Diestel are available. Skeleton notes are distributed to the class.
Grading:	Assignments/Tests 100% (equally weighted)

The outcome from this course should be an understanding of modern graph theory. Following completion of each chapter an assignment or test will be given concerning the material covered and extensions thereof. Past exams, questions and handouts are available on the web at <http://faculty.capebretonu.ca/jpreen/math4101.html> and extra questions may be assigned or requested at any point in the course.

The use of electronic devices in class is allowed, boards can be photographed, explanations can be recorded and Maple will be regularly used and worksheets will be available for copying or download. Students are encouraged to ask for clarification on the material both during and after classes. Class will only be cancelled if campus is closed.

Academic regulations concerning penalties for plagiarism and cheating (page 38 of the university calendar) will be rigidly enforced in this course. Differently-abled students will be accommodated using the JKAC. A supplemental exam for the course will not be made available.

Major Topics:

Isomorphism, Structure and Reconstruction

Bipartite graphs, Distance and Matrices

Planarity, Colouring and Topology

Hamiltonicity, Independence and Domination.