

Math 423/523 Course Outline, Fall 2018; CRN 12237

Web Page: www.math.uvic.ca. Look under course pages, then Math 423.

Days: Monday, Thursday **Time:** 11:30 – 12:50 **Room:** CLE A316

Instructor: Dr. Kieka Mynhardt

Office: DTB A-541

Office Hours:

Tuesdays, Wednesdays	10:00 – 11:30
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or by appointment (or take your chances with a drop-in), except on Fridays

Text: G. Chartrand, L. Lesniak, P. Zhang, *Graphs and Digraphs* (Sixth Edition), Chapman & Hall, 2015. ISBN 9781498735766 - CAT# K26446.

Topics: (From) Graphs and Subgraphs, Degree Sequences, Connected Graphs and Distances, Digraphs (Brief Introduction), Trees, Spanning Trees, Connectivity and Edge Connectivity, Menger's and Whitney's Theorems, Eulerian and Hamiltonian Graphs, Strong Digraphs and Tournaments, Planar Graphs, Euler's identity, Crossing Numbers, Hamiltonian Planar Graphs (Grinberg's Theorem), Chromatic Numbers, Perfect Graphs, Colourings of Planar Graphs, Matchings and Independence (Hall's Theorem, Tutte's Theorem, Petersen's Theorem, Errera's Theorem), Edge Colourings, Class One and Class two Graphs.

Calculators: There will be no need for calculators in Math 423.

Assignments: Assignments must be **submitted in class before the lecture starts** on the days they are due. There will be six assignments. No late submissions will be accepted. Once marked, they will be returned in class. All assignments will be taken into account for your final grade.

Collaboration: For homework, collaboration with classmates is allowed and encouraged, but you must submit your own solutions written in your own words – copying your friend's work is not acceptable. Also see

<http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/academic-integrity.html>.

Midterms: There will be three midterms and no final exam. Midterm 1 will be a take-home test. It will be made available on the day before the scheduled date, and will be due before the start of class on the scheduled date. No collaboration is allowed. Depending on my impression of the integrity of the work submitted for Midterm 1, Midterm 2 will either be a take-home or a normal in-class test. Midterm 3 will be an in-class test.

Midterm exam dates:

Midterm 1	Midterm 2	Midterm 3
Thursday, October 4	Thursday, November 1	Thursday, November 29

Approximate assignment dates:

A1	A2	A3	A4	A5	A6
Sept 17	Oct 1	Oct 15	Oct 29	Nov 15	Nov 26

Composition of final mark:

Homework	Midterm 1	Midterm 2	Midterm 3
55	15	15	15

Mark for missed or late assignment: 0 (with the exceptions below).

Missed work: Academic concessions are available to students who, through no fault of their own, are prevented by circumstances from completing an assignment, writing a midterm, or writing the final exam. In accordance with UVic policy, academic concessions are considered only in cases of illness, accident or affliction: see <http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/concessions.html>.

- Supporting documentation from a doctor or counsellor or varsity coach is required for any concession.
- For students who miss one midterm for legitimate reasons (illness, accident, family affliction or academic reasons), a make-up (closed-book, in-class) test will be scheduled during the final exam period.
- For students who miss an assignment, an adjusted mark from the midterm or make-up test on the material covered by the assignment will be substituted.
- If you miss a test or assignment due to illness, accident or family affliction, you should notify me as soon as possible, and provide a written request to be excused accompanied by supporting documentation.
- If you have a question or concern about your mark on a test or assignment, you must bring it to my attention **within seven calendar days** of the date when it was returned in class.

Course Experience Survey (CES): I value your feedback on this course. When it is time for you to complete the survey you will receive an email inviting you to do so. You will need to use your UVic netlink ID to access the survey, which can be done on your laptop, tablet, or mobile device. Please think about your experience during the course.

Important dates

- Last day for withdrawing with 100% fee reduction: **Tuesday September 19**
- Last day for adding courses: **Friday September 22**
- Last day for withdrawing with 50% fee reduction: **Tuesday October 10**
- Last day for withdrawing without penalty of failure: **Tuesday October 31**

Conversion from course percentage to letter grade: For the purpose of GPA calculations, percentage scores will be converted to letter grades according to the university-wide standard table – see

<http://web.uvic.ca/calendar2018-09/undergrad/info/regulations/grading.html>.

Important course policy information:

<http://www.uvic.ca/science/math-statistics/current-students/undergraduate/course-policies/index.php>

<http://www.uvic.ca/science/math-statistics/current-students/graduate/course-policies/index.php>

Math Club:

See <http://www.uvic.ca/science/math-statistics/current-students/undergraduate/sums/index.php>.