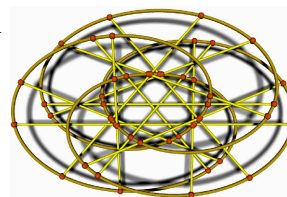


Mathematics 369 Section A01 COURSE OUTLINE
Department of Mathematics and Statistics, University of Victoria
CRN 12236 - Fall Term, 2018

INSTRUCTOR

Ryan Budney. I am a *topologist* who uses differential geometry to describe the shape of spaces of things.
rybu@uvic.ca, office: DTB A516, ph: 853-3292
I prefer e-mail to voice messages.



LECTURE

11:30am – 12:50pm Mondays and Thursdays in DSB C108

OFFICE HOURS

Mondays and Thursdays 1:00pm – 2:00pm. See the Course Spaces course page for up-to-date office hours.

PREREQUISITES

Math 204 and Math 211.

TEXT

Millman and Parker, *Elements of Differential Geometry*. Prentice-Hall.

SYLLABUS

Curves in the plane and in 3-space, curvature and torsion, Frenet-Serret apparatus, surfaces in 3-space, Gaussian and mean curvature, Theorema Egregium, Gauss-Bonnet theorem, elements of non-euclidean geometry.

TOPICS

The goal of the course is to introduce some of the basic notions of differential geometry in 3-space. We will study chapters 1,2,4 and 6 of the text. We will make several excursions to explore additional topics, provided time permits.

FINAL GRADE

The chart on the right describes how your final grade will be computed.

There are five homework assignments. Your homework score will weigh all five homework assignments equally. We do not permit (or encourage) the usage of any calculators for Math 369.

Homework	60 %
Final exam	40 %
Total	100 %

POLICIES

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

IMPORTANT DATES

Assignment 1	Thur. Sept. 20th
Assignment 2	Thur. Oct. 4th
Assignment 3	Thur. Oct. 25th
Reading Break	November 12th–14th
Assignment 4	Thur. Nov. 8th
Assignment 5	Thur. Nov. 29th
Final Exam Period	Dec 8th–22nd, exact time TBA

All assignments due at the beginning of class, and are equally-weighted.

MISSED ASSESSMENT

There will be no makeup homework or tests offered in this course. In cases where assessment is missed due to *documented illness*, *documented accident* or *documented family affliction*, we will modify the assessment scheme, equally weighing the other four assignment.