Instructor: Dr. A. Stancu, Office: LB 921-27 (SGW), Phone: 848-2424, Ext. 5345
Email: alina.stancu@concordia.ca

Office hours: Tuesdays, 9:00-10:30 a.m.


The textbook is available online as electronic resource at Concordia’s library.

In addition, graduate students have: Differential Geometry: Curves – Surfaces – Manifolds by Wolfgang Kühnel (Second edition).

Other material:
- Differential geometry of curves and surfaces by M. P. do Carmo
- Differential geometry of curves and surfaces by Kristopher Tapp
- Differential geometry by Theodore Shifrin (e-resource)
- Riemannian geometry by M.P. doCarmo (for MSc/PhD students)
- Riemannian manifolds by John M. Lee (for MSc/PhD students)

Topics: The topics below outline the content of MATH 480:

- Surfaces in three dimensions
- The first and second fundamental forms of surfaces
- Curvatures of surfaces (Principal, Gaussian and Mean)
- Geodesics
- Gauss’ Theorema Egregium
- The Gauss-Bonnet theorem.

Graduate students will complement this content by independent reading at the instructor’s recommendation.

Departmental website: http://www.mathstat.concordia.ca
Final Grade: Homework (20%), Midterm (30%), and Final Exam (50%).

Undergraduate and graduate evaluations will differ in content. Exams are scheduled to be in person.

The homework will be assigned approximately every two weeks, during class, and posted on Moodle. In case of a student’s absence or late arrival, it is the student’s responsibility to find the assignment and submit it on time. No late assignments will be accepted.

A midterm exam will be scheduled in class during the 7th week of classes. The exact date will be announced before the end of January. Please be aware that a missed test cannot be made up.

Other Notes: As the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Academic Integrity and the Academic Code of Conduct
This course is governed by Concordia University’s policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. “Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia’s website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: concordia.ca/students/academic-integrity.” [Undergraduate Calendar, Sec 17.10.2]

Use of Zoom
Note: Zoom is included as an institutionally-approved technology. This means we have been assured of the privacy protections needed to use freely within the classroom)

Zoom will be used in this course to facilitate learning at a distance. It may be used to record some or all of the lectures and/or other activities in this course. If you wish to ensure that your image is not recorded, speak to your instructor as soon as possible.

Also, please note that you may not share recordings of your classes and that the instructor will only share class recordings for the purpose of course delivery and development. Any other sharing may be in violation of the law and applicable University policies, and may be subject to penalties.

Behaviour
All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications.

Concordia students are subject to the Code of Rights and Responsibilities which applies both when students are physically and virtually engaged in any University activity, including classes, seminars, meetings, etc. Students engaged in University activities must respect this Code when engaging with any members of the Concordia community, including faculty, staff, and students, whether such interactions are verbal or in writing, face to face or online/virtual. Failing to comply with the Code may result in charges and sanctions, as outlined in the Code.

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Students are also forbidden to use their own means of recording any elements of an online class or lecture without express permission of the instructor. Any unauthorized sharing of course content may constitute a breach of the Academic Code of Conduct and/or the Code of Rights and Responsibilities. As specified in the Policy on Intellectual Property, the University does not claim any ownership of or interest in any student IP. All university members retain copyright over their work.

Extraordinary circumstances
In the event of extraordinary circumstances and pursuant to the Academic Regulations the University may modify the delivery, content, structure, forum, location and/or evaluation scheme. In the event of such extraordinary circumstances, students will be informed of the change.