

# Math 317 Calculus IV, 2019S July-August Term 2

**Instructor:** Jongchon Kim, Email: jkim at math.ubc.ca, Office hours: TBD

**Lectures:** MoWe 10:30-12:30, TuTh 12:30-14:00 in Math-100.

## **Text:**

1. CLP-4 Vector Calculus Textbook by Feldman and Rechnitzer.
  2. CLP-4 Vector Calculus problem book by Yeager, Feldman and Rechnitzer.
- Both books are available online at <http://www.math.ubc.ca/~CLP/CLP4/>

Reference: Calculus by Strang, Chapter 12 and 15, available at <https://ocw.mit.edu/resources/res-18-001-calculus-online-textbook-spring-2005/textbook/>

**Topics:** Parametrizations of curves and surfaces, vector fields, line and surface integrals; grad, div, and curl, Green's theorem, divergence theorem, Stokes' theorem.

**Homework:** There will be weekly homework assignments. A pdf file of your homework must be uploaded to Canvas. You can either typeset your homework or scan your handwritten work. Late homework will not be accepted. Messy and illegible homework will not be marked.

## **Grading Scheme:**

Homework: 15%

Midterm: 25% (one midterm, date to be announced)

Final: 60% (date to be determined)

I may choose to increase your final grade up to 2 points based on your attendance and class participation. I reserve the right to lower your final grade up to 5 points if you habitually disrupted the learning of other classmates.

## **Course Policies:**

1. Be respectful to learning of other classmates. Using cell-phone and laptop are prohibited during lectures.
2. Academic integrity: copying of another student's work is a serious breach of academic integrity and may result in an academic sanction.
3. There will be no make-up exams. Missing the midterm for a valid excuse may result in the weight of that midterm being transferred to the final exam.
4. No unauthorized devices will be allowed during any quiz or examination. This includes cell phones, smart phones, music players, and all other devices.
5. Lecture notes will not be posted online.