

# MAT 322/523: Analysis in Several Dimensions

## Syllabus

**Time and Location:** MW 2:30pm- 3:50pm, Chemistry Room 128

**Course Website:** <https://sites.google.com/view/ksackel/teaching/mat-322-spring-2020>

**Instructor:** Kevin Sackel, [kevin.sackel@stonybrook.edu](mailto:kevin.sackel@stonybrook.edu), Room 3-118 (Math building)

**Office Hours:**

- Monday, 4-5 PM (in Math 3-118)
- Tuesday, 2-3 PM (in Math 3-118)

**Grader:** Miao Song

**Textbook:**

- *Required:* James R Munkres' *Analysis on Manifolds*
- *Recommended:* Michael Spivak's *Calculus on Manifolds*

**Course Description (from bulletin):** Continuity, differentiation, and integration in Euclidean  $n$ -space. Differentiable maps. Implicit and inverse function theorems. Differential forms and the general Stokes's theorem.

**Overview:** We will aim to get through nearly all of Munkres' book. You are expected to read the textbook as we progress through the class. See the separate overview document on the course webpage for an impressionistic perspective on the goals of the course.

**Assignments and Grades:**

- Weekly homework assignments, worth 30% of the final grade.
- Two in-class midterms, each worth 20% of the final grade.
- One final exam, worth 30% of the total grade, during finals period.

**Late homework assignments will not be accepted.**

**Student Accessibility Support Center Statement:**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Student Accessibility Support Center, ECC (Educational Communications Center) Building, Room 128, (631)632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Student Accessibility Support Center. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>.

**Academic Integrity Statement:**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at [http://www.stonybrook.edu/commcms/academic\\_integrity/index.html](http://www.stonybrook.edu/commcms/academic_integrity/index.html)

**Critical Incident Management:**

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.