

MAT 705, Calculus on Manifolds, Fall 2012

Tuesdays and Thursdays, 12:30-1:50, Carnegie 208

Instructor: Professor Tadeusz Iwaniec, 304F Carnegie, phone 443-1495, e-mail: tiwaniec@syr.edu
Office hours: Tuesdays and Thursdays, 11:30-12:30.

Textbook: *Foundations of Differentiable Manifolds and Lie Groups*, by Frank W. Warner, Springer 1983.

Topics: Differentiable manifolds, differential forms, exterior calculus, integration over manifolds, Stokes' Theorem, de Rham cohomology, Hodge theory, other selected topics.

Prerequisites: MAT 602, MAT 632, MAT 661.

Grading: Students are expected to attend all class meetings and be active in the discussions of the topics.

Religious Observances Policy: SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services → Enrollment → My Religious Observances) from the first day of class until the end of the second week of class.

Students with Disabilities: If you believe that you need accommodations for a disability, please contact the Office of Disability Services(ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, or call (315) 443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Academic Integrity: Syracuse University sets high standards for academic integrity. Those standards are supported and enforced by students, including those who serve as academic integrity hearing panel members and hearing officers. The presumptive sanction for a first offense is course failure, accompanied by the transcript notation Violation of the Academic Integrity Policy. The standard sanction for a first offense by graduate students is suspension or expulsion. Students should review the Office of Academic Integrity online resource “Twenty Questions and Answers About the Syracuse University Academic Integrity Policy” and confer with instructors about course-specific citation methods, permitted collaboration (if any), and rules for examinations. The Policy also governs the veracity of signatures on attendance sheets and other verification of participation in class activities. Additional guidance for students can be found in the Office of Academic Integrity resource: “What does academic integrity mean?”