

# MAT 562 - Elementary Topology

**Instructor:** Stephan Wehrli, 304B Carnegie, smwehrli@syr.edu

This course will provide an introduction to topology, a fundamental branch of mathematics which deals with topological spaces and their deformations. The course will cover the following topics:

- Topological spaces and metric spaces
- Continuous maps and homeomorphisms
- Convergence of sequences
- Compactness and connectedness
- Countability and separation axioms

If time permits, we will also cover additional topics.

More information can be found below:

- **Text:** *Elementary Topology*, by Gemignani, Second Edition, Dover Publications, 1990.
- **Classes:** MW 3:45 - 5:05 PM, 110 Carnegie
- **Office Hours:** MW 2:15 - 3:15 PM or by appointment
- **Exams:** There will be a final exam and possibly a midterm exam. The final exam will tentatively be given on Tuesday, May 7, from 5:15 PM to 7:15 PM in Carnegie 110.
- **Homework:** Homework will be assigned regularly and will count toward the course grade. You may collaborate with fellow students, but if so, each student should contribute equally, and the work you turn in should be your own, in your own words. While some of the assigned problems may be challenging, it is important that you try to solve all of them since working on these problems will help you understand the course material and its relevance within mathematics. As a part of the homework, I may also ask you to read about selected topics in topology. It is important that you stay caught up throughout the semester and ask questions whenever you don't understand something.
- **Students with disabilities:** If you believe that you need academic adjustments (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 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

- **Academic Integrity:** Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and holds students accountable for the integrity of all work they submit. Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during pre-term check-in on MySlice. The Violation and Sanction Classification Rubric establishes recommended guidelines for the determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation in this course may result in course failure regardless of violation level. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>
- **Religious observances policy:** Syracuse University's 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 holy days 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 a religious observance provided they notify their instructors no later than 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.