

Topology – Math 4306/5306

Syllabus for Spring 2022

Course Information

Class Meets: TR 11:00-12:20 in RBN 4034

Instructor: Sheldon Davis
4002 RBN
903-565-5839
sdavis@uttyler.edu

Office Hours: 1:25-2:20 daily or by appointment.

Course Description: Study of metric spaces and topological spaces with emphasis on compactness, connectedness, covering properties, separation, and metrization.

Text: *Topology*, by S. W. Davis, a pdf of the text is on Canvas.

Credit hours: 3 hours

Course Prerequisites: Math 3345

Student Learning Outcomes: Upon completion of this course, students should be able to do the following:

- Write complete, correct and coherent proofs (critical thinking & communication)
- Understand and use abstract mathematical concepts (critical thinking)
- Discuss properties of topological spaces and metric spaces
- Discuss the properties of separation, compactness, and connectedness

Course Timeline

Important Dates:

January 11: First day of class
January 17: Martin Luther King, Jr. Day, no classes on campus
March 7 to 11: Spring Break
March 28: Last day to drop a course with a W
Tuesday, April 26, 11:00 am – 1:00 pm: Final Exam (tentative)

Course Evaluation

Weekly homework will count one-third, the midterm (around the end of March) will count one-third, and the final exam will count one-third.

The scale will be no more harsh than 85%=A, 70%=B, 55%=C, 40%=D.

University Policies

See the following websites: <http://www.uttyler.edu/academicaffairs/syllabuspolicies.pdf>
<http://www.uttyler.edu/wellness/StudentRightsandResponsibilities.html>
<https://www.uttyler.edu/about/campus-carry/files/campus-carry-policy.pdf>

Tobacco:

UT Tyler a Tobacco-Free University:

- All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.
- Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.

There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Guns:

The law of the State of Texas allows students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.

In addition, Section 4, a-1 of SB 11 states "a license holder commits an offense if the license holder carries a partially or wholly visible handgun, regardless of whether the handgun is holstered, on or about the license holder's person"

Entire text of the 2nd Amendment to the U. S. Constitution:

A well regulated Militia being necessary to the security of a free State, the right of the people to keep and bear Arms shall not be infringed.

ADA Compliance:

If you have a disability, including a learning disability, for which you request disability support services/accommodation(s), please contact Ida MacDonald in the Disability Support Services office so that the appropriate arrangements may be made. In accordance with federal law, a student requesting disability support services/accommodation(s) must provide documentation of his/her disability of his/her disability to the Disability Support Services counselor. For more information, call or visit the Student Services Center located in the University Center, Room 282. The telephone number is 566-7079 (TDD 565-5579). Additional information may also be obtained at the following UT Tyler Web address: <http://www.uttyler.edu/disabilityservices>.

Social Security Statement: It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number.

Note Regarding Student Absence Due to Religious Observance:

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor by the second class meeting of the term for such absences.

Grade Replacement:

If you are repeating this course for a grade replacement, you must file an intent to receive grade forgiveness with the registrar by September 11, 2017. Failure to file an intent to use grade forgiveness will result in both the original and repeated grade being used to calculate your overall grade point average. A student will receive grade forgiveness (grade replacement) for only three course repeats during his/her career at UT Tyler.