We will use the book: Topology, 2nd edition, by James Munkres
Class meets MWF 10:10–11AM in room CH 458 (not the original assigned room!).

**Organization**
I will assume you have read the first 30 pages of the book. This is basic material but proper language is extremely important in mathematics so read it carefully. I will be happy to answer any questions on this during the first class.

Students will do presentations starting on p. 44. I have paired students up; they are expected to work together and be ready to present the material when needed. If you have questions and do not understand something, feel free to come to my office any time. I am in most days and you should have no problem finding me. The first chapter has some hard and confusing material so come and see me often!!!

I will start lecturing on the material in Chapter I, section 4–6, page 30 on Monday, January 8.

Mathematics is learned by actively being engaged in it. Hence you should often ask questions during presentations. Also, if you are presenting, you should anticipate questions and prepare answers for them (if you initially don’t understand why a statement is true others will most likely have the same problem; hence supply more argument).

Similarly, working problems is crucial for improving your understanding of the material. Topology is very abstract and you have to learn to accept that you are given a set of rules and you must work within them. Why these rules are this way may only be clear much later.

Finally you must memorize basic definitions and facts; you cannot function without knowing what a topological space is, what it means for a set to be open, what it means to be the basis for a topology etc.

**Schedule**
Generally Monday and Wednesdays will be used for student presentation while Fridays will be used for presentations of homework problems.
Grading
Working home work problems will count for 20%.
Presentations count for 20%
Midterm 20%
Final exam 40%

Presentations

Benton, Scott T. Bhardwaj, Varun: Section I-7.  
(Possibly start on Wednesday, 1-10-2018)
Brannon, William D. Burdette, Brittany E.: Section I-9
Burk, Kaitlyn M.: Carty, Adam P. Section I–10
Cribbs, Nigel E. Harris, Simon D.: Section II-12 and 13
Higginbotham, Garrett W. Liddle, Elizabeth N.: Section II-14 and 15
Nguyen, Minh T. (He) Scoggins, Matt: Section II 16 and 17

Homework Problems

p51; 1, 3, 5, 6
p61; 1, 6, 7
p66; 1, 2, 3, 6
p91; 1, 3, 4, 6, 9
p100; 1, 2, 5, 6, 7, 10, 13, 14, 19
p111; 1, 2, 6, 8, 9, 12, 13