Schedule for Math 544a Algebraic Topology

Location/Time: DL 431 Monday/Wednesday 2:30-3:45pm.
Office Hours: Monday/Wednesday 1:30 - 2:30pm. I'm also happy to talk outside of scheduled office hours (just email me!).
Qualifying Exam: Wednesday December 11 9am - 1pm in DL 431 (this needs to be confirmed still).

Monday	Wednesday
Aug 26th **1** Fundamental Group 1 (Meets on Wednesday Aug. 29)	28th **2** Fundamental Group 2 (Meets on Friday Sept. 1)
Sep 2nd **Labor Day**	4th **3** Seifert van Kampen Theorem (Guest Lecture)
9th **4** CW Complexes	11th **5** Covering Spaces 1: Definition and Existence of a Universal Cover
16th **6** Covering Spaces 2: Universal Cover (cont) and $K(\pi,1)$	18th **7** Singular Homology, Chain Homotopy, and Invariance (The Weak Equivalence, Dimension, and Additivity Axioms)
23rd **8** Homology of Pairs and Reduced Homology (The Exactness Axiom) Excision and Applications and the Axioms of Homology	25th **9** Barycentric Subdivision and the Proof of Excision
30th **10** Degree and Applications of Homology	Oct 2nd **11** Mayer-Vietoris and Classical Applications
7th **12** The Lefschetz Fixed Point Theorem and Applications	9th **13** Midterm Review Day
14th **Midterm**	16th **Fall Break**
21st **14** Cohomology and Ext	23rd **15** Cohomology and Universal Coefficients

Monday		Wednesday	
28th	**16**	30th	**17**
Cup Products		Künneth Formula	
Nov 4th	**18**	6th	**19**
Orientation		Orientation (cont.) and Poincaré Duality	
11th	**20**	13th	**21**
Poincaré Duality (cont.)		Examples and Alexander Duality	
18th	**22**	20th	**23**
Applications of Cohomology (Possible guest lecture)		Bockstein Homomorphisms (Possible guest lecture)	
25th		27th	
Thanksgiving Break		**Thanksgiving Break**	
Dec 2nd	**24**	4th	**25**
The cohomology of topological groups - Hopf algebras		Review for the Qual	