Math 621: Algebraic Topology Spring 2021 Lecture Schedule

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Below is a list of the topics we intend to cover, along with a rough schedule. Actual schedule is subject to change without notice. Last updated April 3, 2021.

	Topic
1/20 - 1/22	Overview of Syllabus and Technology
	Introduction and Roadmap
	Topology
1/25 1/20	Topology Topological Spaces
1/25 - 1/29	Topological Spaces
2/1 - 2/5	Continuity and Compactness Simplicial Complexes
2/1 - 2/3	Cell Complexes
2/8 - 2/12	
2/0 2/12 2/12	
2/12 2/15 - 2/19	
2/10 2/10	Homotopy Equivalence (Week 2)
	The Fundamental Group
2/22 - 2/26	The Fundamental Group
3/1 - 3/5	
	The Van-Kampen Theorem
3/8 - 3/12	
2.12	The Lifting Lemma
3/8	
3/15 - 3/19	The Fundamental Theorem of Covering Spaces
	Homology
3/22 - 3/26	Homological Algebra
, ,	Chain Complexes
3/29 - 4/2	Catch-up Day
3/30	Rest and Relaxation Day: No Classes
3/31	Cesar Chavez Day: No Classes
4/5-4/9	Simplicial Homology
	Singular Homology
4/12 - 4/16	Catch-up Week
4/15	Rest and Relaxation Day: No Classes
4/19 - 4/23	Long Exact Sequences
	The Snake Lemma
4/26 - 4/30	Equivalence of Singular and Simplicial Homology
	Cellular Homology
5/3 - 5/6	Excision
	Mayer-Vietorus
5/7 - 5/13	May 13: Final Project Presentations