

Syllabus: Advanced General Physics II
Spring 2020

		Date	Lecture Topic	Recitation Topic	Quiz
1	W	1/22	Classical Fields		
2	F	1/24	Vector Calculus		
3	W	1/29	Electric Field, Gauss's Law		
4	F	1/31		Electric Field, Gauss's Law	
5	W	2/5	Electric Potential, Capacitors		Electric Field, Gauss's Law
6	F	2/7		Electric Potential, Capacitors	
7	W	2/12	Magnetic Field, Lorentz Force		Electric Potential, Capacitors
8	F	2/14		Magnetic Field, Lorentz Force	
9	W	2/19	Vector Potential		Magnetic Field, Lorentz Force
10	F	2/21		Vector Potential	
11	W	2/26	Biot-Savart Law		Vector Potential
12	F	2/28		Biot-Savart Law	
13	W	3/4	Induction, Faraday's Law		Biot-Savart Law
14	F	3/6		Induction, Faraday's Law	
15	W	3/11	Maxwell's Equations		Induction, Faraday's Law
16	F	3/13		Maxwell's Equations	
21	W	3/25	Electromagnetic Waves		Maxwell's Equation
22	F	3/27		Electromagnetic Waves	
17	W	4/1	Lorentz Transformations		Electromagnetic waves
18	F	4/3		Relativity	
19	F	4/7	Four-Vectors		Relativity
20	F	4/9		Four-Vectors	
23	W	4/15	Electric Fields in Matter		Four-vectors
24	F	4/17		Electric Fields in Matter	
25	W	4/22	Field Lagrangian		Electric Fields in Matter
26	F	4/24	Electromagnetic Lagrangian		
27	W	4/29	Gauge Invariance		
28	F	5/1	Summing Up: Fields and Particles		