

	A	B	C	D	E	F
1	Four Lab Reports					
2						
3	Sine Wave Response	LRC Circuit	Sound Tube			
4	Noise Reduction	Signal Averaging	Lock-In Amplifier			
5	Impulse Response	LRC Circuit	Sound Tube			
6						
7	Project					
8						
9						
10	Introduction	Experiments	Experimental Results	Theory	What you learned	What you loved/hated
11						
12						
13						
14						
15	Nov 10	Nov 12	Project			
16	Nov 17	Nov 19	Project			
17	Nov 24	Holiday	Project			
18	Dec 1	Dec 3	Project			
19	Dec 8	Dec 10	Project			
20	Dec 15	Dec 17	Exam Week			

## How Far Can You Go? The Lock-In versus the Signal Averager

## Draft Physics 547 Timetable

	A	B	C	D	E
<b>1</b>	<b>Topics</b>	<b>days</b>	<b>weeks</b>	<b>lab reports</b>	
<b>2</b>	sine waves	4	2	1	
<b>3</b>	pulses	4	2	1	
<b>4</b>	noise	4	2	1	
<b>5</b>	feedback	2	1	1	
<b>6</b>	project	7	3.5	1	
<b>7</b>					
<b>8</b>					
<b>9</b>		Oct 1	Introduction		
<b>10</b>	Oct 6	Oct 8	Sine wave 1	sine wave response	heterodyne and homodyne
<b>11</b>	Oct 13	Oct 15	Sine wave 2	lock-in amplifiers	superheterodyne
<b>12</b>	Oct 20	Oct 22	Pulse 1	impulse response	square wave response
<b>13</b>	Oct 27	Oct 29	Pulse 2	signal averagers	boxcars
<b>14</b>	Nov 3	Nov 5	Noise 1	noise response	noise sources
<b>15</b>	Nov 10	Nov 12	Noise 2	spectrum analyzers	auto-correlators
<b>16</b>	Nov 17	Nov 19	Feedback	control	amplifiers, oscillators, PIDs
<b>17</b>	Nov 24	Holiday	Project		
<b>18</b>	Dec 1	Dec 3	Project		
<b>19</b>	Dec 8	Dec 10	Project		
<b>20</b>	Dec 15	Dec 17	Project		