

**Physics 115A - Autumn 2020  
Course Schedule**

Textbook  
*College Physics, Knight, Jones Field*

Week	Day	Posted	Lecture	Content	Textbook	Assignments due date
	Wed	30-Sep	0	Introduction	No reading	
	Fri	2-Oct	1	Transforming energy	11.1 & 11.2 <sup>a</sup>	9-Oct
2	Mon	5-Oct	2	Energy in the Body and Temperature	11.2 - 11.3b	12-Oct
	Tues	6-Oct	3	Heat and First Law of Thermodynamics	11.3 - 11.4	13-Oct
	Wed	7-Oct	4	Entropy	11.7 - 11.8	14-Oct
	<b>Fri</b>	<b>9-Oct</b>		<b>Tutorial 1: Ideal Gas Law</b>		<b>16-Oct</b>
3	Mon	12-Oct	5	Ideal Gases	12.1 - 12.2	19-Oct
	Tues	13-Oct	6	Ideal-Gases Processes	12.3	20-Oct
	<b>Wed</b>	<b>14-Oct</b>		<b>Tutorial 2: First Law of Thermodynamics</b>		<b>21-Oct</b>
	Fri	16-Oct	7	Thermal Expansion / Specific Heats	12.4 - 12.5 <sup>c</sup>	23-Oct
4	Mon	19-Oct	8	Heat of Transformation	12.5	26-Oct
	Tues	20-Oct	9	Calorimetry	12.6 - 12.7	26-Oct
	Wed	21-Oct	10	Heat Transfer / Diffusion	12.8 - 12.9	28-Oct
	Fri	23-Oct	11	Hydrostatic Pressure/Midterm 1 Review	13.1 - 13.2 & 13.7 <sup>d</sup>	30-Oct
5	Mon	26-Oct		Tutorial 3: Pressure		2-Nov
	<b>Tues</b>	<b>27-Oct</b>		<b>Midterm 1</b>		
	Wed	28-Oct	12	Buoyancy	13.3	4-Nov
	Fri	30-Oct	13	Ideal Fluid Flow	13.4 - 13.5 & 13.7 <sup>e</sup>	6-Nov
6	Mon	2-Nov	14	Viscous Fluid Flow	13.6 - 13.7	9-Nov
	Tues	3-Nov	15	Charge and Electric Force	20.1 - 20.3	10-Nov
	<b>Wed</b>	<b>4-Nov</b>		<b>Tutorial 4: Charge</b>		<b>13-Nov</b>
	Fri	6-Nov	16	Electric Field	20.4 - 20.5	16-Nov
7	Mon	9-Nov	17	Applications & Torques in Electric Fields	20.6 - 20.7	16-Nov
	Tues	10-Nov	18	Electric Potential & Potential Energy	21.1 - 21.3	18-Nov
	<b>Fri</b>	<b>13-Nov</b>		<b>Tutorial 5: Electric potential difference</b>		<b>20-Nov</b>
8	Mon	16-Nov	19	Electric Potential & Electric Field	21.4 - 21.5	23-Nov
	<b>Tues</b>	<b>17-Nov</b>		<b>Midterm 2</b>		
	Wed	18-Nov	20	Electrocardiogram	21.6	30-Nov
	<b>Fri</b>	<b>20-Nov</b>		<b>Tutorial 6: Capacitance</b>		<b>1-Dec</b>
9	Mon	23-Nov	21	Capacitance	21.7 - 21.8	1-Dec
10	Mon	30-Nov	22	Current and Resistance	22.1 - 22.5	7-Dec
	Tues	1-Dec	23	Kirchhoff's Laws	23.1 - 23.4	8-Dec
	Wed	2-Dec	24	Complex Circuits	23.5 - 23.6	9-Dec
	Fri	4-Dec	25	RC Circuits & Electricity in the Nervous System	23.7 - 23.8	11-Dec
11	<b>Mon</b>	<b>7-Dec</b>		<b>Tutorial 7: Magnets and magnetic forces</b>		<b>14-Dec</b>
	Tues	8-Dec	26	Magnetic Fields	24.1 - 24.4	14-Dec
	Wed	9-Dec	27	Magnetic Forces	24.5 - 24.6	14-Dec
	<b>Fri</b>	<b>11-Dec</b>		<b>Tutorial 8: Magnetic interactions</b>		<b>14-Dec</b>
12	<b>Wed</b>	<b>16-Dec</b>		<b>Final Exam (2:30pm-4:20pm)</b>	Comprehensive	

a Energy inputs

b up to temperature scales section

c Specific heat section only

d Blood pressure section only

e up to EXAMPLE 13.15