PHYSICS 115 SYLLABUS

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Week	Date		Text Chpt.	Topic
1	M	11		Labor Day
	W	Sep 6	*	Introduction
. :	F	8	Appendix A,B	Sci. Cale and Kinematics
_2	M	11.	1	Forces and Kinetic energy
:	W	. 13	I	Potential Energy
	F	15	· · 1	Gravitational Potential Energy
3	M	18	1	Chemical Energy
	W	20	1	Conservation of Energy
	F	22	1,8	Circular motion - flywheel
4	M	25		Problem Session
	W	27		Quiz
	F	29	10	Energy and biology
5	<u>M</u> _	Oct 2	2*	Fossile Fuels
	W_	4	1,3	Heat Energy, Temperature
	F	6	3	Entropy and efficiency
6	M	9	3	Heat engines – Heat pumps
	W	119	6	Transportation of Heat energy
	F	13	.1	Electricity
7	М	16	1	Magnetism
	W	18		Quiz
	F	20	1	Electrical machines
8	M	23	. 1	Circuits
	W	25	8	Transportation and Storage
	F	27	6	Direct Conversion techniques
9	M	30	1	Electromagnetic radiation
	W	Nov 1	6	Solar energy
	F	3	6	Techniques for solar energy

⁻ handout in class

Week	Date		Text Chpt.	Topie
10	M·	Nov 6	4	Nuclear reactions
	W	8	5,11	Radiation and man
	F	10	5,11	Radiation and man
11	M	13	4	Reactors
	W	15	4,16	Reactors and Weapons
	F	17	5	Nuclear waste
12	M	20		Fusion hot and cold
	W	22		Future of Nuclear Energy
	F	. 24		THANKSGIVING Recess
13	M	27		Accidents and Risk assessment
	W	29		Accidents and Risk assessment
	F	Dec 1	12	Transportation
14	M	4	7	Sustainable alternatives
	W	6	7	Sustainable alternatives
	F .	. 8	9	Conservation
15	M	11		Energy Policy
	W	13		Summary and Outlook
	F	15		Review for for Final Examination

Research Paper

- This should be about 10-15 pages (double spaced)
 with bibliography and correct attribution. Try to
 be as quantitative as possibe (include calculations
 and/or data)
 - Outline due by November 1
- Final draft due at or before the Final Examination Final Examination Wednesday 20 December (2:45 p.m.)