

## SCI 103 Science I

Fall Semester, 2006, Lectures: T & Th 1400-1515, MR-2 (Class codes 1525 to 1528)

Labs: T 1000-1140 & 1600-1740, Th 1000-1140 & 1600-1740, MR-042

Week	Date	Lecture	Topic	Chap	Laboratory
1	Th 31 Aug	1	Scientific method	1	1-Scientific method
2	<b>T 05</b> Sep	2	Astronomy	2	1-Scientific method
	Th 07	3	Laws of motion	2	2-Acceleration
3	<b>T 12</b>	4	Energy	3	2-Acceleration
	Th 14	5	1st Law Thermo	3	3-Work and Energy
4	<b>T 19</b>	6	Heat	4	3-Work and Energy
	Th 21	7	2nd Law Thermo	4	4-Heat
5	<b>T 26</b>	8	Electricity	5	4-Heat
	Th 28	9	Magnetism	5	5-Analysis of light
6	T 03 Oct	<b>Monday schedule</b>			
	<b>Th 05</b>	10	Waves	6	6-Electricity I
7	T 10	11	EM Radiation	6	5-Analysis of light
	<b>Th 12</b>	12	Frames of reference	7	7-Electricity II
8	T 17	13	Relativity	7	6-Electricity I
	Th 19	<b>Test 1</b> (Chap. 1-7)			
9	T 24	14	The atom	8	8-Periodic table
	<b>Th 26</b>	15	Periodic table	8	7-Electricity II
10	T 31	16	Quantum mechanics	9	10-Probability
	<b>Th 02</b> Nov	17	Waves and particles	9	8-Periodic table
11	T 07	18	Chemical bonds	10	11-Oleic acid films
	<b>Th 09</b>	19	Chemical reactions	10	10-Probability
12	T 14	20	Materials: strength	11	9-Materials
	<b>Th 16</b>	21	Materials: properties	11	11-Oleic acid films
13	T 21	22	Nucleus of the atom	12	12-Soln. properties
	Th 23	<b>Thanksgiving</b>			
14	<b>T 28</b>	23	Radioactivity	12	9-Materials
	Th 30	24	Elementary particles	13	12-Soln. properties
15	<b>T 05</b> Dec	25	Fundamental forces	13	13-Radioactivity
	Th 07	<b>Test 2</b> (Chap. 8-13)			
16	T 12	Student-led review			
	T 19	<b>Test 3 Final test</b> (optional)			

**Instructor:** Prof. Ward Hindman (Edward)

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Th, 1000-1140, 1600-1740, Sami Segni, e-mail: samsegn@yahoo.com, T, 1000-1140, Prof. Hindman

**Text:** Trefil, J. and R. M. Hazen, 2004: *The Sciences: An integrated approach*, 4th edition, Wiley, New York, 640 pp. (ISBN 0-471-21963-0)

**Grades:** A+ 100-98%, A 97-94%, A- 93-90%; B+ 89-87%, B 86-84%, B- 83-80%; C+ 79-77%, C 76-74%, C- 73-70%, D 69-60%, F<60% (I do not curve). Your grades and grade-to-date will be posted on the web at mid- and end-term. You are

responsible for checking their accuracy against the grades on returned papers, thus, **KEEP YOUR RETURNED PAPERS!**

**Tests:** 70%, No makeup tests will be given. The best two of three tests will be recorded. If you miss a test you must take Test 3. If you arrive after the first student leaves, you cannot take the test.

**Quizzes:** 10%, Once a week, **boldfaced** dates, on material from lectures and the textbook since the last quiz or test. There will be no makeup quizzes; extra credit points on tests will make up for missed quizzes.

**Laboratory:** 20%, Labs are due at end of the lab period. Late labs will not be accepted. If you miss a lab, the makeup laboratory is Lab 14. Also, Lab 14 can be used for extra credit. Lab 14 is due at Lab Final. Lab grade: 60% final, 40% labs.

**General:** Lectures and answers to quizzes and tests will be posted on the web. Grade disputes must be resolved before Test 3. Cheating on quizzes and tests will cause failure of the course. No food or drink is allowed in the classroom or laboratory. Please disable your cell phone and pager when in the classroom or laboratory.