

2015

# Science 108-001 & 002 Essentials of Forensic Science Course and Assignment Schedule Spring 2015

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## Sci 108 Course & Assignment Schedule for (Sections 001 & 002) SPRING 2015

For my section, “Due for Lab” means: \_\_\_\_\_ and “Due for Lecture” means: \_\_\_\_\_

WEEK	<u>Lab Experiments</u> Lab is in M229 unless otherwise noted. Each “☼” symbol indicates a separate prelab to do.	<u>Lecture Topic</u>	<u>Assignments due each week</u> Prelab, Reading Guides (RG) for Saferstein’s text (RG are on Cobra) And/OR Webquests are due each week. Each “thing” due is represented by a ☼. “OR” is used because there are 2 versions of the textbook. Read carefully.
<b>Week 1</b> 1/12-1/16	Introduction to course Dissecting Microscope (Stereoscope) Introduction <b>(in M229 then X104)</b>	Intro to Forensic Science Lecture	<u>Due for Lab:</u> Nothing. Welcome to the course! <u>Due for Lecture:</u> ☼RG: Introduction [Ch 1: in 10 <sup>th</sup> & 11 <sup>th</sup> ed.] <b>AND</b> ☼Intro email thru Cobra to instructor <b>AND</b> ☼ syllabus quiz on Cobra. (And turn in signed syllabus sheet & letter to instructor if not already turned in).
<b>Week 2</b> 1/19-1/23	<b>No classes Monday for MLK</b> <b>No lab this week for all sections.</b>	The nature of science & critical thinking Lecture	<u>No Lab</u> (or pre-lab) this week for all sections of Sci 108. Attend field trip instead later in semester. <u>Due for Lecture:</u> ☼Webquest 1 (found on Cobra)
<b>Week 3</b> 1/26-1/30	☼Sci 108 Intro Lab	Physical evidence intro Lecture	<u>Due for Lab:</u> ☼Pre-lab Summary <u>Due for Lecture:</u> ☼RG: The Crime Scene [Ch 2 in 10 <sup>th</sup> & 11 <sup>th</sup> ed.] <b>AND</b> ☼RG: Physical Evidence [Ch 3 in 10 <sup>th</sup> & 11 <sup>th</sup> ed.]
<b>Week 4</b> 2/2-2/6	Crime scene analysis <b>(in M229)</b> (Bring required blank notebook to lab) [Sign-up for time slot]	Fingerprinting Lecture	<u>Due for Lab:</u> Sign up for a timeslot. Nothing due (no pre-lab) but bring required blank notebook and wear proper lab attire and <b>goggles</b> . <u>Due for Lecture:</u> ☼RG: Fingerprinting [Ch. 16 in 10 <sup>th</sup> ed. OR Ch. 6 in 11 <sup>th</sup> ed.]
<b>Week 5</b> 2/9-2/13	<b>☼ WRITTEN EXAM 1</b> <b>during lab in X104 then lab</b> ☼Fingerprinting Techniques (yes, prelab summary due)	Microscopes intro Trace Evidence: Hairs, Fibers, & Paint Lecture	<u>Due for Lab:</u> ☼Pre-lab Summary. Exam 1 first in X104 then lab in M229. <b><u>During Lab:</u> ☼ WRITTEN EXAM 1</b> (you can bring a note sheet – see Cobra) <u>Due for Lecture:</u> ☼RG: The Microscope [Ch 7 in 10 <sup>th</sup> & 11 <sup>th</sup> ed.] <b>AND</b> ☼RG: Hairs, Fibers, (& Paint) [Ch. 13 in 10 <sup>th</sup> ed. OR Ch. 10 in 11 <sup>th</sup> ed.]
<b>Week 6</b> 2/16-2/20	☼Compound Microscope Intro Lab (in X104)	Glass & Soil Lecture Metric System Lecture	<u>Due for Lab:</u> ☼Pre-lab Summary. Lab is in X104. No goggles needed. <u>Due for Lecture:</u> ☼RG: Physical Properties: Glass & Soil [Ch 4 in 10 <sup>th</sup> ed. OR Ch. 9A in 11 <sup>th</sup> ed.]
<b>Week 7</b> 2/23-2/27	☼Measurement Intro ☼Soil Analysis ☼Glass Analysis	<b>No Lecture.</b> Attend Field Trip instead. (No classes Thurs. at Parkland at all)	<u>Due for Lab:</u> ☼☼☼3 Pre-lab Summaries due. Lab is back in M229. Bring goggles <u>Due for Lecture:</u> Nothing. Attend field trip or complete the Alternate Assignment.

<b>WEEK</b>	<b>Lab Experiments</b> Lab is in M229 unless otherwise noted. Each “☼” symbol indicates a separate prelab to do.	<b>Lecture Topic</b>	<b>Assignments due each week</b> Prelab, Reading Guides (RG) for Saferstein’s text (RG are on Cobra) And/Or Webquests are due each week. Each “thing” due is represented by a ☼. “OR” is used because there are 2 versions of the textbook. Read carefully.
<b>Week 8</b> 3/2-3/6	☼ <b>WRITTEN EXAM 2</b> <b>Presentations</b> Lab Midterm Prep	Chemistry intro; Presumptive and Confirmatory Tests; Inorganic Analysis (Metals) Lecture	Due for Lab: ☼ <b>WRITTEN EXAM 2</b> (can bring a note sheet – see Cobra) <b>AND</b> presentation (if it’s your turn) <b>AND</b> ☼ alternate assignment for field trip if you didn’t attend. Bring notebook with crime scene notes Due for Lecture: ☼ RG: Chemistry Intro [Ch 5A in 10 <sup>th</sup> ed. OR Ch. 9B in the 11 <sup>th</sup> ed.] <b>AND</b> ☼ RG: Inorganic Analysis (Metals) [Ch 6 in 10 <sup>th</sup> ed. OR Ch. 13 in 11 <sup>th</sup> ed.]
<b>Week 9</b> 3/9-3/13	<b>Lab Midterm</b> - You will use course material to analyze evidence in a criminal case study. (No prelab due)	Organic Chemistry Analysis Lecture	Due for Lab: ☼ Bring your blank notebook to lab with midterm prep done. No prelab due. <i>Remember proper lab attire: goggles, no sandals and wear pants.</i> Due for Lecture: ☼ RG: Organic/Drug Analysis [Ch 5B in 10 <sup>th</sup> ed. OR Ch. 11A in 11 <sup>th</sup> ed.]
<b>Week 10</b> 3/16-3/20	☼ Identification of ink & drugs dyes by TLC. ☼ IR Spectroscopy to Identify an Unknown White Powder	Toxicology (drugs & alcohol) Lecture	Due for Lab: ☼☼ 2 Pre-lab Summaries Due for Lecture: ☼ RG: Drugs [Ch. 8 in 10th ed. OR Ch. 11B in 11 <sup>th</sup> ed.] <b>AND</b> ☼ RG: Forensic Toxicology [Ch. 9 in 10th ed. Or Ch. 12 in 11 <sup>th</sup> ed.]
3/23-3/27	<b>SPRING BREAK</b>		
<b>Week 11</b> 3/30-4/3	☼ Analysis of Over-the-Counter Drugs ☼ Paper Chromatography	Fire Investigation & Arson (guest lecturer or field trip?)	<b>Due MONDAY, 3/30/15 at 12:00pm: ☼ Midterm Report – See Cobra</b> Due for Lab: ☼☼ 2 Pre-lab Summaries Due for Lecture: ☼ RG: Forensic Aspects of Fire Investigation [Ch. 14 in 10th ed. OR Ch. 16 in 11 <sup>th</sup> ed.] but if we have a field trip, this will be due later (week 12).
<b>Week 12</b> 4/6-4/10	☼ Mixed Reception computer lab ☼ Flame tests ☼ Using UV and visible light	☼ <b>WRITTEN EXAM 3</b> <b>Presentations</b> Fire Teamwork	Due for Lab: : ☼☼☼ 3 Pre-lab Summaries <b>During Lecture: ☼ WRITTEN EXAM 3</b> (you can bring a note sheet – see Cobra) Due for Lecture: ☼ RG: Forensic Aspects of Fire Investigation [Ch. 14 in 10th ed. OR Ch. 16 in 11 <sup>th</sup> ed.] <i>if it wasn’t already due last week.</i> Also bring exam notesheet <b>AND</b> presentation (if it’s your turn)
<b>Week 13</b> 4/13-4/17	☼ Methods for the GC (Gas chromatography) ☼ Bloodstain and spatter analysis	Biochemistry Lecture Blood Typing Lecture	Due for Lab: ☼☼ 2 Pre-lab Summaries Due for Lecture: ☼ Webquest 3 (Biochem) <b>AND</b> ☼ RG: Forensic Serology [Ch. 10 in 10 <sup>th</sup> ed. OR Ch. 14 in 11 <sup>th</sup> ed.]

WEEK	<b>Lab Experiments</b> Lab is in M229 unless otherwise noted. Each “☼” symbol indicates a separate prelab to do.	<b>Lecture Topic</b>	<b>Assignments due each week</b> Prelab, Reading Guides (RG) for Saferstein’s text (RG are on Cobra) And/Or Webquests are due each week. Each “thing” due is represented by a ☼. “OR” is used because there are 2 versions of the textbook. Read carefully.
<b>Week 14</b> 4/20-4/24	☼ Biochemistry ☼ Blood typing ☼ Blood Detection with Luminol	Blood spatter Lecture <b>Presentations</b> Lab Final Prep	<u>Due for Lab:</u> ☼☼☼ 3 Pre-lab Summaries <u>Due for Lecture:</u> ☼ RG: Bloodstain Pattern Analysis [Ch. 12 in 10 <sup>th</sup> ed. OR Ch.4 in 11 <sup>th</sup> ed.] <b>AND</b> presentation (if it’s your turn). Bring lab midterm notebook.
<b>Week 15</b> 4/27-5/1	<b>Lab Final</b> - You will finish analyzing evidence to write up a Final Report due during Week 17	DNA Lecture	<u>Due for Lab:</u> Lab Final notebook prep only. (No prelab due) <u>Due for Lecture:</u> ☼ RG: DNA [Ch. 11 in 10 <sup>th</sup> ed. OR Ch. 15 in 11 <sup>th</sup> ed.]
<b>Week 16</b> 5/4-5/8	☼ DNA Extraction & Typing	Hot Topics in Forensics Presentations	<u>Due for Lab:</u> ☼ Pre-lab Summary <u>Due for Lecture:</u> ☼ <i>Extra credit webquest (optional)</i>
<b>Finals Week</b> 5/11-5/15	You’ll take Exam 4 this week and your final report will be due this week. (Wed. @ noon) See Cobra for details. Section 001: Thurs. 5/14 11am-1pm Section 002: Mon. 5/11 2-4pm		☼ <b>Final Report due WEDNESDAY, 5/13/15 at 12:00pm – See Cobra</b> <i>Extra credit for turning it in more than 48 hours early.</i> ☼ <b>Written EXAM 4 during final exam period</b> (You can bring a notesheet). It is not cumulative.