

## Chem 340 – Advanced Analytical Chemistry\*

### Tentative Lecture Schedule, Fall 2009

**Instructor:** Dr. Audra Goach Sostarecz  
 302 Haldeman-Thiessen (HT)  
 309-457-2252- office; 309-221-9432- cell  
[asostarecz@monm.edu](mailto:asostarecz@monm.edu)

**Office Hours:** 10:00am-10:50am M  
 10:00am – 10:50am W  
 1:00pm – 1:50pm F  
 others by appointment

**Lecture:** MWF 9:00-9:50 am; HT 306

**\*Concurrent with Chem 325 Integrated Laboratory**

**Required Textbook:** Undergraduate Instrumental Analysis, 6<sup>th</sup> Edition, James W. Robinson, Eileen Skelly Frame and George M. Frame II

**Required Readings and Handouts:** TBA <http://personal.monm.edu/asostarecz/default.htm>

Sunday	Monday	Tues	Wednesday	Thursday	Friday	Sat
<b>AUG</b> <b>23</b>	<b>24</b>	<b>25</b>	<b>26</b> Class Introduction  Chapter 5 UV/Vis	<b>27</b>	<b>28</b>  Chapter 5 UV/Vis	<b>29</b>
<b>30</b>	<b>31</b> Chapter 5 UV/Vis	<b>SEP</b> <b>1</b>	<b>2</b> Chapter 5 UV/Vis	<b>3</b>	<b>4</b> Chapter 5 UV/Vis	<b>5</b>
<b>6</b>	<b>7</b> Chapter 11 Chromatography	<b>8</b>	<b>9</b> Chapter 11 Chromatography	<b>10</b>	<b>11</b> Chapter 11 Chromatography	<b>12</b>
<b>13</b>	<b>14</b> Chapter 13 Chromatography	<b>15</b>	<b>16</b> Chapter 13 HPLC	<b>17</b>	<b>18</b> Chapter 13 HPLC	<b>19</b>
<b>20</b>	<b>21</b> Chapter 13 CZE	<b>22</b>	<b>23</b> student presentation #1 Jeopardy	<b>24</b>	<b>25</b>  EXAM I	<b>26</b>
<b>27</b>	<b>28</b> Go Over EXAM I	<b>29</b>	<b>30</b> Lab #1 Report DUE Chapter 6 Flame AA	<b>OCT</b> <b>1</b>	<b>2</b> Chapter 6 Flame AA	<b>3</b>
<b>4</b>	<b>5</b> Project #1 Proposal DUE Chapter 6 Flame AA	<b>6</b>	<b>7</b> student presentation #2 Furnace AA	<b>8</b>	<b>9</b> Chapter 9 MS	<b>10</b>
<b>11</b>	<b>12</b> Chapter 9 MS	<b>13</b>	<b>14</b> Chapter 10 MS	<b>15</b>	<b>16</b>  No Class	<b>17</b>
<b>18</b>	<b>19</b> Fall Break	<b>20</b> Fall Break	<b>21</b> Chapter 12 GC/MS	<b>22</b>	<b>23</b> Chapter 12 GC/MS	<b>24</b>

Sunday	Monday	Tues	Wednesday	Thursday	Friday	Sat
25	26 Chapter 14 SIMS	27	28 Chapter 14 SIMS	29	30 Chapter 14 MIMS	31
NOV 1	2 <b>student presentation #3 Jeopardy</b>	3	4 <b>EXAM II</b>	5	6 <b>Go Over EXAM II</b>	7
8	9 Project #2 Proposal DUE  Chapter 4 IR/Raman	10	11  Chapter 4 IR/Raman SERS	12	13  Chapter 4 FTIR	14
15	16  Chapter 4 FTIR	17	18  Fluorescence Theory	19	20 <b>student presentation #4 Applications of Fluorescence</b>	21
22	23 <b>Work on finishing CHEM 325 Report</b>	24 Project #1 Report DUE	25  <b>Thanksgiving</b>	26  <b>Thanks giving</b>	27  <b>Thanksgiving</b>	28
29	30  Scanning Tunneling Microscopy	DEC 1	2  Atomic Force Microscopy	3	4  Scanning Electron Microscopy	5
6	7 <b>student presentation #5 Jeopardy</b>	8	9 <b>EXAM III Last Day</b>	10 <b>Reading Day</b>	11	12 <b>Group Pres. Lab 1pm</b>
13	14 <b>Final 8am</b>	15	16	17	18	19