University 103: First Year Chemistry Major Seminar — Chemists Have Solutions?

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Office Hours:
Tuesdays & Thursdays from 1:00 pm to 2:00 pm
Wednesdays from 10:00 am to 12:00 noon
Fridays from 1:15 pm to 3:15 pm

UNIV 103 M05 (CRN 10360): Thursdays 1:00 – 2:50 pm; 212 Caputo Hall with Professor Edward Rajaseelan (8/27 – 10/8)
Thursdays 1:00 – 2:50 pm; 212 Caputo Hall with Professor Lyman H. Rickard (10/15 – 12/7)
Fridays 12:00 – 12:50 pm; 153 Roddy Hall with Dr. Steven Kennedy (8/28 – 12/7)

Course Description
The Friday 12:00 to 12:50 pm portion of University 103 provides both inquiry and practical information regarding ethical and societal impacts of chemistry, global expectations of chemists, how chemists view themselves, what motivates a chemist, the current job market, popular career outcomes, university resources, departmental culture, and community. Active participants develop professional familiarity with the chemistry department staff, faculty, upper-level students, facilities, and resources. Due to the rigorous nature of a chemical science education, time management, scheduling, and goals are underlying themes of this course. Students will create individualized academic plans as a means to learn about and practice scheduling chemistry courses and general education requirements. Requisite metacognitive skills and soft skills necessary for professional success will also be explored.

Required Course Materials
• Grit (http://en.wikipedia.org/wiki/Grit_%28personality_trait%29)
• Personal Planner (to be discussed during first class meeting)
• Chemistry Department Student Handbook (http://www.millersville.edu/chemistry/index.php)
• Daily access to your Millersville email account and your Desire to Learn (D2L) account.

Course Learning Objectives
Upon completion of University 103 you should be able to...

1. Use resources and academic requirements to efficiently plan, utilize, and make the most of your time.
2. Describe how chemistry impacts society.
3. Describe how society views chemistry.
4. Describe and explore potential professional, career, and education options within, and related to, chemistry.
5. Further your goals through professional interactions with your peers, upper-level majors, staff, and faculty.
6. Join the American Chemical Society (ACS) and the MU Student Chapter.
7. Describe common learning strategies, methods, and metacognitive awareness.
8. Describe the common soft skills, values, and personality traits associated with your professional goals.
9. Effectively communicate your professional goals to a general audience.
10. Effectively research, organize, and present chemical information.

Course Organization
This is a blended course in which new topics and assignments are first presented online via the D2L course website, or via handouts and required reading, or during class time via lecture and discussion.

Course Policies
1. Attendance is required. http://www.millersville.edu/registrar/faculty/attendance_policy.php
2. Participation is required in class discussions, interactions with guest speakers, and group assignments.
4. This is a Cooperative Environment. Start to become part of a community and a valued tradition.
Weekly Schedule*

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics // Assignments (Due Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>August 28&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Welcome, Expectations, &amp; Time Management // Weekly Schedule (8/31)</td>
</tr>
<tr>
<td>2</td>
<td>September 4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Ethics, Society, Chemistry, Chemists, &amp; You // Why Chemistry? (9/11)</td>
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<tr>
<td>3</td>
<td>September 11&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Chemical Professions, Careers, &amp; Training Options // Long-Term Goals &amp; Actions (9/18)</td>
</tr>
<tr>
<td>4</td>
<td>September 18&lt;sup&gt;th&lt;/sup&gt;</td>
<td>University, Department, &amp; You // Work-Life Balance, Time Management, Priorities (9/25)</td>
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<tr>
<td>5</td>
<td>September 25&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Academic Plans &amp; Networking // A-Plan, Upper-Level Student, &amp; Advisor (10/2)</td>
</tr>
<tr>
<td>6</td>
<td>October 2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>Like Dissolves Like: Involvement, Commitments, Clubs, &amp; ACS // ACS Meeting (10/16)</td>
</tr>
<tr>
<td>7</td>
<td>October 9&lt;sup&gt;th&lt;/sup&gt;</td>
<td>How Does Learning Work? // Metacognitive Awareness Inventory (10/16)</td>
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<tr>
<td>8</td>
<td>October 16&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Soft Skills, CV, &amp; Resume // Cover Letter, Personal Statement, &amp; Resume (11/20 and 12/7)</td>
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<tr>
<td>9</td>
<td>October 23&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>Interesting Classes, Internships, &amp; Research Opportunities // Spring 2016 Schedule (10/30)</td>
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<tr>
<td>10</td>
<td>October 30&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Work Values // Why do you value what you value? (11/13)</td>
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<tr>
<td>11</td>
<td>November 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>True Colors // What do your true colors tell you? (11/13)</td>
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<tr>
<td>12</td>
<td>November 13&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Chemistry in the News // Fact Checking, Analysis, Report &amp; Presentation (12/4 or 12/7)</td>
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<tr>
<td>13</td>
<td>November 20&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Library Resources, Drawing Structures, &amp; Presenting Science // Seminar Attendance (12/7)</td>
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<td>14</td>
<td>November 27&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Holiday – No Class This Week</td>
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<tr>
<td>15</td>
<td>December 4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Presentations</td>
</tr>
<tr>
<td>16</td>
<td>December 7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Presentations</td>
</tr>
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Curious, have questions about college, chemistry, or need help?
Please stop by my office during office hours for assistance outside of class. Ask me questions during class. Set up an appointment via email if office hours don’t fit your schedule. Email me your question. Start a discussion on D2L.

Course Evaluation (1000 points possible)
- Weekly Schedule (50 points) 5%
- Why Chemistry? (50 points) 5%
- Long-Term Goals & Actions (50 points) 5%
- Work-Life Balance, Time Management, & Priorities (50 points) 5%
- Academic Plan (100 points) 10%
- Upper-Level Student Email, Selfie, & Signature (50 points) 5%
- Advisor Signature Email, Selfie, & Signature (50 points) 5%
- ACS Meeting Selfie & Notes (50 points) 5%
- Metacognitive Awareness Inventory (50 points) 5%
- Cover Letter, Personal Statement, and Resume (100 points) 10%
- Spring 2016 Schedule (50 points) 5%
- Work Values & True Colors (50 points) 5%
- Chemistry Seminar Attendance (50 points) 5%
- Attendance and Participation (150 points) 15%
- Chemistry in the News Report (100 points) 10%

\[ \Sigma = 100\% \]

Grade Distribution (in percentage points)

- A 92.0 – 100
- B 82.0 – 87.9
- C 70.0 – 77.9
- D 62.0 – 66.9
- A- 90.0 – 91.9
- B- 80.0 – 81.9
- C- 69.0 – 69.9
- D- 60.0 – 61.9
- B+ 88.0 – 89.9
- C+ 78.0 – 79.9
- D+ 67.0 – 68.9
- F < 60.0
Out of Class Assistance
Please feel free to stop by my office during office hours for assistance outside of class. Ask me questions during laboratory. Set up an appointment via email if office hours don’t fit your schedule. Email me your question. Start a discussion on D2L. Find a study group. Get a tutor. Free tutoring (individual or group) is also available through Student Services. Call or stop by the tutoring office in Lyle Hall for additional information. http://www.millersville.edu/tutoringcenter/schedules/chemistry.php

Learning Accommodations
Please see the Office of Learning Services in Lyle Hall (http://www.millersville.edu/learningservices/) as soon as possible if you have special learning needs for this class. If you have a condition that may affect your ability to perform laboratory exercises, to exit lab safely from the premises in an emergency, or which may cause an emergency during class, or lab, please discuss this in confidence with your instructor and someone at the Office of Student Support Services. Appropriate accommodations may then be provided.

Academic Honesty & Dishonesty
Plagiarism is the deliberate or even accidental representation of another’s work as your own without proper reference. Although you may work together on some material and experiments, this does not mean that lab reports and assignments should be identical. Each participant uses the collective data and discussion to prepare his or her own individual report. You should be familiar with the University policy on academic honesty and dishonesty as outlined in the Student Handbook and Academic Honesty and Dishonesty brochure; the content applies to this course. If you are caught, you will be removed from the course, assigned an F letter grade for the course, and a report will be filed with the associate Provost for Academic Programs and Services.

University Approved Class Attendance Policy (http://www.millersville.edu/registrar/faculty/attendance_policy.php):
1. Students are expected to attend all classes. It is the student's responsibility to complete all course requirements even if a class is missed. If a student misses class for an officially excused reason, then he/she is entitled to make up the missed work but only at the convenience of the faculty member. Responsibility for materials presented in, assignments made for, and tests/quizzes given in regularly scheduled classes lies solely with the student.
2. The University policy is that faculty will excuse absences for the following reasons:
   a. personal illness
   b. death or critical illness in the family
   c. participation in a university-sponsored activity
   d. jury duty
   e. military duties
   f. religious holidays
3. Faculty judge the validity of student absences from class within the University's approved guidelines and may require documentation for excused absences. Faculty will evaluate any reason, other than those listed above, for a student missing class and determine whether the absence is justified. In these circumstances, a student may make up missed work at the discretion of the instructor.
4. In the case of foreseeable absences, students are encouraged to notify the faculty member in advance. A student who will miss class due to participation in an official University activity must notify the instructor well in advance of the activity to assure that the absence is excused.

Title IX Statement:
Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator. The only exceptions to the faculty member’s reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project.
For more information on Title IX: http://www.millersville.edu/socialeq/title-ix-sexual-misconduct/index.php