UNIV 103.M05   Fall 2015
First Year Inquiry: Chemistry
Module 3 (August 27 – October 8, 2015)

Dr. Edward Rajaseelan
Caputo 213, ext. 7395
Office Hours: M, W : 8 – 9:50 am; F: 8 – 8:50 am

LECTURES
   Thursdays 1:00 – 2:50 pm Roddy 154

COURSE TEXTBOOKS: No text Required

SUPPLEMENTAL MATERIAL
   Photocopied handouts may be provided when appropriate.

COURSE CONTENT:
   UNIV 103 Module 3 will reinforce the importance of training in general chemistry concepts as the mechanism for making an impact in areas that are relevant to everyday life. Students will be introduced to disciplinary and interdisciplinary critical inquiry through current interests/advances in chemistry and their importance to society.

COURSE OBJECTIVES
   By the end of the course, the student will meet the following goals:
   • Develop an appreciation for the role and application of chemistry in other fields and recognize the importance of fundamental chemistry for impacting society in general and an understanding of the historical development of chemical science.
   • Be able to understand and report scientific findings through literature searches.

COURSE ATTENDANCE
   General chemistry concepts require a mathematical framework for their presentation. Concepts are cumulative in the sense that the student must master introductory concepts and derivations in order to fully understand more advanced topics in general chemistry. We will continue to build upon material mastered earlier, hence poor attendance will affect your class grade. Attendance is necessary in all course meetings. If you cannot attend, due to illness or other emergency, you must contact me before the class period, or as soon thereafter as possible.

SEMINAR ATTENDANCE
   Chemistry Department seminars are held Mondays at 4:00 pm in Roddy 149. Each student will attend at least three of these seminars. One seminar can be fulfilled by attending another scientific seminar or lecture on campus and writing a brief summary (Typed, one half page, 12 font size, single space). Students with classes that conflict with the Chemistry seminars must contact me immediately to identify appropriate alternatives.
GRADING
Module 3 will account for 30% of the students overall course grade for UNIV 103. We will use a 100-point scale with the highest possible score being 100. Grading for module 3 will be as follows:

The total possible points are as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance/participation</td>
<td>50</td>
</tr>
<tr>
<td>3 seminar attendance</td>
<td>10</td>
</tr>
<tr>
<td>Brief summary of a seminar</td>
<td>10</td>
</tr>
<tr>
<td>Exam</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100 points</strong></td>
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ACADEMIC DISHONESTY
Academic dishonesty includes unfairly advancing one’s own academic performance or the performance of another, as well as intentionally limiting the academic performance of another student. Penalties for academic dishonesty will depend on the situation, ranging from a zero grade for the exam or assignment, to course failure. Your university’s accreditation is based, in part, on academic standards of excellence. Academic dishonesty will devalue your degree.

SCHEDULE
August 27 – call roll, discuss syllabus and course, discuss chemistry as a career
September 3 – Metals in Medicine
September 10 – Metals in Medicine
September 17 – Alternate sources of Energy
September 28 – Faculty presentations (nanotechnology & polymers)
October 2 – The chemical basis of everyday phenomena (shatter proof glass, blue in blue jeans)
October 9 – The chemical basis of everyday phenomena (Light sticks, time released medicine)

Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment, comply with Title IX of the Education Amendments of 1972, 20 U.S.C. §1681, et seq., and act in accordance with guidance from the Office for Civil Rights, the University requires faculty members to report to the University’s Title IX Coordinator incidents of sexual violence shared by students. 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. Faculty members are obligated to report to the person designated in the University Protection of Minors policy incidents of sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred.

Information regarding the reporting of sexual violence, and the resources that are available to victims of sexual violence, is available at [http://www.millersville.edu/social eq/title-ix-sexual-misconduct/index.php](http://www.millersville.edu/social eq/title-ix-sexual-misconduct/index.php)