CHE 621 - Chemistry Independent Study - Fall 2017

**Instructor**
Dr. Helen Boylan
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**Office Hours**
M, F 12:50 - 1:50 pm
T 9:20 - 10:20 am
Others by appointment

**Advisor Meeting Time:** T 10:00 AM

**Text/ Resources**
RStudio. Open source software. [https://www.rstudio.com/](https://www.rstudio.com/)

**Course Description**
The purpose of this independent study is to allow students a chance to work one on one with mentors in developing, and carrying out undergraduate chemical research. The purpose of this current study is to continue work on the interdisciplinary topic of chemometrics.

**Objectives**
- To collect analytical data on real-world samples or modeled spectra.
- To perform advanced statistical (chemometric) analysis of analytical data.
- To present research at the Student Symposium on the Environment (or another option, like URAC).

**Course Policies**
- **Attendance to meetings are mandatory, a student MUST meet with their advisor at least once a week for the duration of the study.**
  - If the student is not capable of meeting during the advisor meeting time, it is his/her responsibility to contact his/her advisor and attempt to schedule an agreed upon time to meet during the course of the week.
- Students are responsible for completing the tasks that their advisor sets for them in a timely matter.
- Students are required to set aside three hours a week for each semester hour of credit, outside of meetings, towards their independent study. This can be in the form of research, methodology development, laboratory work, or other agreed upon tasks.

**Academic Integrity**
The College's Academic Integrity Policy (AIP) will be strongly enforced. Violations of the AIP include cheating, misconduct, plagiarism, and providing false information. Academic dishonesty will not be tolerated. The first citation for academic dishonesty will result in a zero grade for the specific assignment. The second citation will result in a failing grade for the course. All citations for academic dishonesty will be reported to the Dean of the College, in accordance with college policy. Details of the AIP can be found in the Westminster College Undergraduate Catalog.

**Grading System**

<table>
<thead>
<tr>
<th>If the student meets this criteria…</th>
<th>He/she will earn an…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Satisfactory completion all objectives above by end of semester</td>
<td>A</td>
</tr>
<tr>
<td>Fails to present research</td>
<td>B</td>
</tr>
<tr>
<td>Fails to collect analytical/chemometric data</td>
<td>C</td>
</tr>
<tr>
<td>Fails to meet any objective</td>
<td>F</td>
</tr>
</tbody>
</table>

*Note: All grading criteria are subjective to change as the semester progresses and research question begins to develop. Students will be made aware of these changes when they are made so they can adapt accordingly.*