CHEMISTRY 4232
ENGINEERING PHYSICS 4232
Laboratory Glassblowing Syllabus

Instructor: James Cornell
Scientific Glassblower/Adjunct Instructor

Room and Time: SLSRC, Room 3300
Tuesday-Thursday 1:30-4:20 pm

Office Hours: SLSRC, Room 3300
By appointment: 325-4535; jcornell@ou.edu

Grading: Your course grade will be based on:
Final Project: 50%
Attendance: 20%
In Class Assignments: 20%
Time Management and bench organization: 10%

Comments: The primary purpose of this course is to develop excellent skills in the art of Scientific Glassblowing. Thus, a considerable amount of class time will be devoted to developing Scientific Glassblowing skills. Developing the necessary glassblowing skills to complete the components for the final project and assembly of the components into the final project will be the main emphasis of the course. There will also be considerable coverage of the properties of different kinds of glass and their uses.

Due to the nature of the course, class attendance is crucial for students to be able to develop the skills necessary to satisfactorily complete the course. A minimal amount of homework is assigned for this course due to the necessity of classroom attendance. The instructor’s time outside of the scheduled class time is very limited to provide additional instruction for students that miss a scheduled class period. Students who are absent from a scheduled class may request an appointment with the instructor if the student deems it necessary to obtain additional instruction. The instructor reserves the right to allow/disallow requested additional out of class instruction and is contingent on the nature of a student’s absence.

The instructor reserves the right to change any items contained in this syllabus. This includes, but is not limited to: course content, scheduled dates and fraction(s) of final grade assigned to individual components of the course.
Presentation: A demonstration will be given at the beginning of each class and after the mid-class break covering the current assignment. Additional demonstrations will be given during the class period if the instructor deems it necessary. Each student must complete in-class assignments by a given date. All assignments will be graded.

Glassblowing Assignments: Seven assignments, which include the final project, will be given during the semester. The instructor will distribute worksheets for each assignment and demonstrate each assignment several times to ensure that each student understands the skills expected and required to satisfactorily complete the assignment. If requested by the student, the instructor will elaborate what is expected for receiving a better grade on the assignments. The students will have ample time to redo components prior to the assembly of the components for the final project. Each student is responsible for requesting additional instruction and practice time if the student feels that it is necessary to obtain the results that they are expecting.

Students with Disabilities: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

Codes and Policies of Behavior Policy: Each student should acquaint her or his self with the University’s codes, policies, and procedures involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on physical handicap.

Students engaging in academic misconduct (including cheating, plagiarism, and any other action that may improperly affect evaluation) will be subject to sanctions in accordance with the Norman Campus Academic Misconduct Code. The instructor routinely recommends "F" for the course and expulsion from the University for all such violations.
Schedule:

There is not a set schedule for the completion of in-class assignments. This will be determined by the pace of the development of the skills of the class as a whole during the beginning part of the semester. I have attached a tentative schedule. It is subject to change. You are responsible for coming to class and being aware if changes are made. This could include a change of assignment due dates.

Tentative Schedule

<table>
<thead>
<tr>
<th>Week Number</th>
<th>Assignment Number</th>
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<tbody>
<tr>
<td>Week 1 and 2: Test Tube/Reducing Seal (6 of each)</td>
<td>Introduction and Assignment #1</td>
</tr>
<tr>
<td>Week 3 and 4: Side Seal (12 each)</td>
<td>Assignment #2</td>
</tr>
<tr>
<td>Week 5 and 6: Condenser, 1st Part (6)</td>
<td>Assignment #3</td>
</tr>
<tr>
<td>Week 7 and 8: Condenser, 2nd Part (6)</td>
<td>Assignment #4</td>
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<td>Week 9 and 10: Flask (6)</td>
<td>Assignment #5</td>
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<tr>
<td>Week 11 and 12: Bubble Trap (3)</td>
<td>Assignment # 6</td>
</tr>
<tr>
<td>Week 13 and 14: Final Construction (2 each of the final project required!)</td>
<td>Assignment #7 Final Project and clean-up</td>
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</tbody>
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FINAL EXAMINATION/PROJECT: There is no final examination for this class. The final project is considered the final examination for the course. The final project is due by 5:00 p.m. on Tuesday during Exam Week. Failure to turn in the final project by the due date will result in a grade of “F”. No time extensions will be granted for completing the final project after the due date unless the student has been subjected to unusual hardships during the semester. Requests for an extension must be submitted in writing and contain all pertinent information as to why the request is being made.