Spring 2005 411L/511L “Instrumental Analysis Lab” Schedule
(Ref: 411L-2005 Schedule)

Instructor: Dr. Wujian Miao (See this letterhead for contact information)
Teaching Assistant:

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Office</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Gloria Viner</td>
<td><a href="mailto:Gloria.Viner@usm.edu">Gloria.Viner@usm.edu</a></td>
<td>TEC 404</td>
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<td>Dale Rosado, Jr.</td>
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<td>6-5768</td>
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Lab Manuals: Will be provided separately.
Also see: http://www.usm.edu/electrochem/Lab%20manual.htm “Operating Manuals”

Lab Notebook Guidelines:
Visit: http://www.usm.edu/electrochem/Lab%20Notebooks.pdf

Grading Guidelines:
Visit: http://www.usm.edu/electrochem/411L-05%20Grading%20guidelines.pdf

Meetings: Lab section Thursday, 2:25 - 5:05 pm, TEC 438, TEC 425 etc.

Office Hours: MWF 10:50-11:50 am, Thursday 3:30-5:30pm or by appointment.

Website: The relevant teaching information including Lecture Notes will be posted in the website at www.usm.edu/electrochem/teaching.

Laboratory Projects:
Due to equipment limitations, a rotation schedule will be followed in conducting the core project work. Depending upon class size, either individuals or small teams of students (no more than three students per team) will work simultaneously on each of the six core laboratory projects (subject to change). Each team will spend one or two consecutive class periods performing a given core project before rotating to the next project according to the sequence given below (The experimental details will be given separately):
Start date / project/Location | X-Ray | CV* | FTIR | UV-VIS | ECL* | GC/MS
---|---|---|---|---|---|---
Jan 20, 27 | TEC 420 | TEC 425 | TEC 438 | TEC 438 | TEC 425 | TEC 418
Feb 3, 10 | Team 2 | Team 3 | Team 4 | Team 5 | TBA
Feb 17, 24 | Team 3 | Team 4 | Team 5 | Team 1 | TBA
March 3, 10 | Team 4 | Team 5 | Team 1 | Team 2 | Team 3 | TBA
March 24 | Adjustment week | TBA
March 31, April 4 | Team 5 | Team 1 | Team 2 | Team 3 | Team 4 | TBA
April 7, 14, 21, 28 | Adjustment Weeks, May be used for GC/MS | TBA

* Since CV and ECL groups use the same potentiostat, some self-adjustment is certainly needed when doing the experiments. Both groups need to learn how to operate the potentiostat for general electrochemical tests.

Team Roster:

<table>
<thead>
<tr>
<th>Team No.</th>
<th>Members</th>
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<tbody>
<tr>
<td>Team 1</td>
<td>Tsega Alem, Contessa L. Avery, Joshua D. Barousse</td>
</tr>
<tr>
<td>Team 2</td>
<td>Maxwell S. Bonner, Traveon T. Ferguson, Christopher E. George</td>
</tr>
<tr>
<td>Team 3</td>
<td>Adam J. Heidingsfelder, Jami S. Holloway, Leslie J. Myrick</td>
</tr>
<tr>
<td>Team 4</td>
<td>Nick Gresham, Sammy J. Popwell, Michael A. Proia</td>
</tr>
<tr>
<td>Team 5</td>
<td>Alford Perryman, Jr., Mai T.A. Tran</td>
</tr>
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Note:
1. It is the students’ responsibility to read the relevant lab procedure and prepare their lab notebook for each project before beginning any experimental work on that project. Students will be permitted to begin experimental work only after appropriately preparing their notebooks.

2. Laboratory reports are required for each project and, unless otherwise noted, are due by 5:00 pm two weeks following completion of the project’s experimental work. Late submissions will be penalized by a 10% grade reduction for each day past due.

3. 411L/511L project will be given a separate grade.

Honor Code: Cheating will be handled in accordance with current undergraduate bulletin statement on Academic Honesty, as stated in the 2004-2005 bulletin (p88):
“When cheating is discovered, the faculty member may give the student an F on the work involved or in the course. If further disciplinary action is deemed appropriate, the student should be reported to the dean of students. In addition to being a violation of academic honesty, cheating violates the Code of Student Conduct and may be grounds for probation, suspension, or expulsion. Students on disciplinary suspension may not enroll in any courses offered by The University of Southern Mississippi.”

In addition to the more familiar examples of honor code violations, students should be aware that laboratory activities present another context in which issues of academic honesty are perhaps less familiar to students. In particular, students should take care to be honest and vigilant in recording their lab observation and measurement results in order to avoid data fabrication (making up a result) and/or falsification (changing a result). Also, it is policy in this course that students may work together to gather and analyze their experimental data, but must write the text of their laboratory reports independently. In this regard, students are strongly advised against the practice of sharing their report drafts in order to get an idea of format, content, phrasing, etc., as this often leads to either blatant or subliminal plagiarism.

The best way to develop scientific writing skills is through the writing and instructor/TA-review process that is employed in this course. Additional benefit may be gained by reading primary scientific literature, an activity also included in the conduct of this course.

**Pregnancy and Laboratory Safety:** The safety of all experiments is carefully considered, but all effects of all reagents used are not currently known. Therefore, if you are pregnant or considering becoming pregnant during this semester, we suggest you consider consulting your physician regarding remaining in this lab. If your doctor recommends in writing that you not be enrolled in this lab, you will be allowed to complete the lab requirement at a later semester.

**Students with Disabilities:** If a student has a disability that qualifies under the Americans with Disabilities Act and requires accommodations, he/she should contact the Office for Disability Accommodations for information on appropriate policies and procedures at: Southern Station Box 8586; Tel: 266-5024; Fax: 266-6035; TTY: 266-6837.