UROP+ ORS Fall Research Project
ECE 3952/4952 (depending on student academic level): 2-credit of A-F UROP
Unscheduled
Course Websites: Canvas

INSTRUCTOR INFORMATION:
Instructor            Email                  Office Hours & Location
Prof. Gregory D. Durgin durgin at gatech.edu  TBD, Van Leer 507

COURSE INFORMATION
Description
This course (2 credit A-F, ECE3952/4952 with Prof. Durgin) leads students through the Spring term of an ORS research project who chose to participate in the UROP+ option, where Fall term consisted of 1-credit P/F UROP course (ECE3951/4951) and 1-credit A-F Special Problems course (ECE2901/3901/4901). Students learn about the research process by performing a team research project embedded in a Georgia Tech laboratory, shepherded by a PhD mentor.

Prerequisites
Students will have completed at least one academic year in ORS (for pay or credit) before taking this course.

Course Goals and Learning Outcomes
Students will develop technical depth and expertise in electrical engineering, relevant to their laboratory exploration. Additionally, students will gain experience and knowledge in research conduct, laboratory notebook preparation, team collaboration skills, oral and written technical communications, and proposal preparation.

Graded Components (for 2-credit A-F special problems course)

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<tr>
<th>Assignment</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Qualified Laboratory Hours</td>
<td>60%</td>
<td>Research Poster</td>
<td>10%</td>
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<tr>
<td>Competition Presentation</td>
<td>05%</td>
<td>Mentor Evaluation</td>
<td>20%</td>
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<tr>
<td>Workshop/Event Attendance</td>
<td>05%</td>
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Description of Graded Components
Qualified Laboratory Hours (QLHs) are hours spent working on your research project, most of which will likely be in the student’s host laboratory. QLHs are graded for completeness and quality, based on mentor evaluation of the work. To receive a passing grade in the 1-credit P/F UROP component, the student must work at least 3 QLHs per week, averaged over the semester.

Full credit for the QLH component will be given for students that average at least 6 hours. Thus, a student should expect to work at least 6 QLHs per week, averaged over the semester course, to expect to receive full credit and the highest possible grade for the special problems portion of this study. Other assignments, which are graded for completeness, include the research poster, participation in the competition presentations, and attendance in at least 2 workshops. Finally, a mentor/host faculty evaluation of the student efforts and performance on their research team will contribute to the final grade.
For all assignments and projects, late work is not accepted. Special accommodations can be made for medical emergencies, interviewing, and other important events, but only if sufficient advance notice is given to (and permission granted by) the instructor ahead of time.

**Grading Scale**
This course uses a traditional A (>90.0), B (>80.0), C (>70.0), D (>60.0), F (<60.0) grade scale unless special circumstances require a curve to achieve the recommended course GPA as specified by the ECE course catalog, which should be between 3.0 and 3.5, inclusive. Grades can only be curved upward, not downward.

**Classroom Management**
The meetings and laboratory hours for this course are unscheduled. A schedule for mandatory workshops, seminars, and other ORS milestones will be provided at the beginning of each semester.

**COURSE MATERIALS**
**Course Text:**
No formal course text. Notes, readings, and assignments will be disseminated through T-square.

**COURSE EXPECTATIONS & GUIDELINES**

**Academic Integrity**
Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. For information on Georgia Tech’s Academic Honor Code, visit [http://www.catalog.gatech.edu/policies/honor-code/](http://www.catalog.gatech.edu/policies/honor-code/) or [http://www.catalog.gatech.edu/rules/18/](http://www.catalog.gatech.edu/rules/18/). Any student suspected of cheating or plagiarizing on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

**Collaboration & Group Work**
It is expected that each student upholds the Georgia Tech honor code when preparing work for this class. Everyone must turn in their own work (or group’s work where specified) without contribution from another person or source.

**Accommodations for Individuals with Disabilities**
If you are a student with learning needs that requires special accommodation, contact the Office of Disability Services at (404)894-2563 or [http://disabilityservices.gatech.edu/](http://disabilityservices.gatech.edu/), as soon as possible to make an appointment to discuss your special needs and to obtain an accommodation letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

**Student-Faculty Expectations**
At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See [http://www.catalog.gatech.edu/rules/22/](http://www.catalog.gatech.edu/rules/22/) for an articulation of some basic expectation that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.