Integrated Quantitative Science  
**Syllabus for Fall 2014 and Spring 2015**

Meeting times:

<table>
<thead>
<tr>
<th></th>
<th>Times</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Lectures</strong></td>
<td>MWF 9:30-10:20 and 10:30-11:20</td>
<td>Jepson G28 or Gottwald D115</td>
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<tr>
<td><strong>Workshop/Flex Time</strong></td>
<td>T 1:30-4:30 (at the latest)</td>
<td>Gottwald B200 or C201</td>
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<tr>
<td><strong>Lab</strong></td>
<td>R 1:30-4:30</td>
<td>Gottwald B200, C100, or D115</td>
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Instructors:

<table>
<thead>
<tr>
<th>Name</th>
<th>Office</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Dr. Lewis Barnett</td>
<td>Jepson 217</td>
<td>289-8091</td>
<td><a href="mailto:lbarnett@richmond.edu">lbarnett@richmond.edu</a></td>
</tr>
<tr>
<td>Dr. Lester Caudill</td>
<td>Jepson 205</td>
<td>289-8083</td>
<td><a href="mailto:lcaudill@richmond.edu">lcaudill@richmond.edu</a></td>
</tr>
<tr>
<td>Dr. Jerry Gilfoyle</td>
<td>Gottwald D104</td>
<td>289-8255</td>
<td><a href="mailto:ggilfoyl@richmond.edu">ggilfoyl@richmond.edu</a></td>
</tr>
<tr>
<td>Dr. Laura Runyen-Janecky</td>
<td>Gottwald B213</td>
<td>287-6390</td>
<td><a href="mailto:lrunyenj@richmond.edu">lrunyenj@richmond.edu</a></td>
</tr>
<tr>
<td>Dr. Chris Stevenson</td>
<td>Gottwald C209</td>
<td>289-8635</td>
<td><a href="mailto:cstevens@richmond.edu">cstevens@richmond.edu</a></td>
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Office Hours: By appointment – please contact instructor in advance to arrange a time and place

Required Texts:

- *Investigative Physics Activity Units for IQS Physics-1*, Bunn, Fetea, Gilfoyle, Nebel, Serej, Rubin, and Vineyard (This is a lab manual that will be available in the UR Bookstore later in the Fall semester.)
- Multiple readings for biology. These will be posted on Blackboard as the year progresses.

Expected/Estimated Time Commitment: You will be spending 10-12 (usually 10) hours/week in lecture, lab and workshop; in addition, we will assign homework with the expectation that the average student will spend an additional 14 hours/week doing independent work for a total time commitment of about 20-28 hours/week.

Grading/ Evaluation: Please remember that college is about learning, not getting a certain grade. That being said, we still have to assign you a grade at the end of each semester that reflects what you have earned in the class. In this class 90% = A; 80% = B; 70% = C; 60% = D; 50% = F. Pluses and minuses may be used for students on borderline grades. Also, note that an “A” grade is reserved for truly excellent (not just above average/good or average) performance in the course. The final grade for the Fall semester and for the Spring semester will each be computed from the following recipe:

- Exams\(^1\): 50% of grade
- Other activities and assignments (homework, labs, projects, etc): 50% of grade

Course Policies:

\(^1\) Three scheduled exams; see exam details elsewhere in this document
• Attendance at lectures/labs/workshops is required. This course moves rather quickly and missing a lecture puts you at a significant disadvantage.
• Religious holidays, university-related activities, and genuine unexpected emergencies (e.g. death in family, illness that requires hospitalization) are considered excused absences. Please inform the instructors of such expected absences during the first week of the semester.
• If an exam is missed because of an excused absence, a makeup will be administered. An unexcused absence will result in a grade of zero. An excused absence is one given by the instructors for what is deemed sufficient reason, provided there is adequate advanced warning, when possible. The student is responsible for all missed work.
• Laptop-smart phone policy: Please keep cell phones silenced and put away (not on the desk, or in your notebook, or in your lap (we can see you texting), or on the lab bench). In the rare event that you need to be available for phone calls, please talk to the instructor about it before class. If you take notes on your computer, please stick to course related work. Before class begins, please close all programs not related to the class including Facebook, on-line shopping, ESPN, etc. You may think you are able to multitask, but the scientific evidence suggests otherwise. Also, multitasking on your computer is likely distracting to others behind you (there is scientific evidence to support this too). Ask the instructors if you want the references!

Honor Code Policy: University Academic Honor Code Statute

The School of Arts and Sciences, the Jepson School of Leadership Studies, and the Robins School of Business each operate under the University Honor Code Statute. Breaches of the code are cheating, plagiarism, lying, academic theft, disclosing honor council information, registration irregularity and failure to report an Honor Code Statute violation. Any person who violates these standards shall be subject to disciplinary action ranging from reprimand up to and including expulsion from the University. Determination of guilt or innocence and imposition of sanctions, when necessary, will be effected according to established procedures, with procedural fairness observed, and with appropriate appeal procedures available. The University Honor Code Statute is available from any dean’s office. (University of Richmond Undergraduate Catalog)

Course Schedule:

This two-semester course will be organized into six *modules*, designed to highlight ways in which the five different disciplines can team up to address important problems associated with “Challenges of a Changing Planet”:

- **Fall Semester:**
  - *Module F1*: Biology, Computer Science, and Mathematics
  - *Module F2*: Biology, Computer Science, and Physics
  - *Module F3*: Chemistry, Computer Science, and Mathematics
- **Spring Semester:**
  - *Module S1*: Mathematics and Physics
  - *Module S2*: Chemistry and Physics
  - *Module S3*: Chemistry and Biology

Exam Details:

There will be three in-class exams during the Fall semester (and three more during the Spring semester) – one at the end of each Module. The dates of the exams will be announced in-class, well in advance, so stay tuned.