Astronomy 380- Astrophysics: Stars
Sonoma State University
Department of Physics and Astronomy
Spring 2008

General Information
Instructor: Dr. Scott A. Severson
Class Schedule: 1:00 – 2:15 PM Tuesday and Thursday
Location: Darwin 300C P&A Dept Conference Room
Office Hours: 11:00 - 11:50 AM Monday, Tuesday, Thursday
Office: Darwin 300L
Email: scott.severson@sonoma.edu
Phone: (707) 664-2376
Course Website: http://www.phys-astro.sonoma.edu/people/faculty/severson/a380

Course Description
This is a three-hour lecture course. A quantitative study of the structure and evolution of stars, including stellar interiors and atmospheres, nucleosynthesis and late stages of stellar evolution.

Textbook (Select one of the following)
(1) An Introduction to Modern Astrophysics (2nd Edition)
Full content for two-semester introduction to astrophysics, includes galaxies and cosmology.

Authors:
Carroll and Ostlie
ISBN-10
0805304029

(2) Introduction to Modern Stellar Astrophysics (2nd Edition)
Selected content appropriate for our one-semester course on stellar astrophysics.

Authors:
Carroll and Ostlie
ISBN-10
0805303480
Policies

University Policies
There are important University policies that you should be aware of, such as the add/drop policy; cheating and plagiarism policy, grade appeal procedures; accommodations for students with disabilities and the diversity vision statement. (Go to this URL to find them: http://www.sonoma.edu/uaaffairs/policies/studentinfo.shtml

Grading

Homework 40 %
Homework assignments are due Thursday at the beginning of class. Expect about one problem set per week. I encourage you to work problems through independently before working with classmates to review and collaborate. The sharing of ideas is encouraged, copying of answers is forbidden. I may explicitly designate some problems as group work and then a group solution is allowed. I will drop your lowest homework grade.

Mid-Terms (2) 25 %
There will be two in-class exams, Thursday March 13 and Thursday April 24. You are allowed to bring a single sheet of notes to each exam.

Oral Presentation 10 %
Students will give individual 15-minute scientific journal article review talks near the end of the semester. Students may propose a paper or select from list of suggested readings.

Final Exam 25 %
There will be a cumulative final exam, Thursday, May 22 2:00 p.m-3:50 p.m.. The format will be similar to the midterms and a sheet of notes is allowed.

Instructor Discretion
I reserve the right to raise your grade if exceptional effort and class participation are observed through the semester. Improvement throughout the semester is also noted.

Other Class Policies
• Questions are encouraged.
• Turn off cell phones and other distracting small electronics.
• Arrive to class on time.
• Try your best to attend every class.
• Read subject material before each class.
• Start homework problems early. Do not fall behind!
• Come to my office during my office hours with questions.
### Approximate Course Schedule

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<tr>
<th>Week</th>
<th>Class Date Tuesday</th>
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<th>Carroll &amp; Ostlie Reading</th>
<th>Administrative</th>
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<td>Feb 05</td>
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<td>Ch. 3, Ch. 5</td>
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<td>Feb 14</td>
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<td>4</td>
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<td>Feb 21</td>
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<td>Mar 04</td>
<td>Mar 06</td>
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<td>Mar 11</td>
<td><strong>Mar 13</strong></td>
<td>Ch. 10</td>
<td>Exam 1 (Ch. 3, 5, 8 &amp; 9)</td>
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<td>Mar 18</td>
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<td>Apr 01</td>
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<td><strong>May 22</strong></td>
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