ASTRONOMY 2120
Introduction to Astrophysics II

Monday, Wednesday, Friday – 11:00 - 11:50 A.M – Astronomy 265
Schedule Numbers 10452 and 10453
Craig Sarazin

Prerequisites: ASTR 2110 or permission of instructor

Instructor: Craig Sarazin; office: 238 Astronomy Building; phone: 924-4903; office hours: MWF 1:30-2:30 or by appointment or any other time you can catch me; E-mail: sarazin@virginia.edu. Please feel free to E-mail me with any course questions. There is a WWW homepage for this class, which is http://www.astro.virginia.edu/class/sarazin/astr2120/

Teaching Assistant: Sandy Liss, office: 267 Astronomy Building; phone: 924-0686; office hours: Friday 2–3 p.m. or by appointment; E-mail: sel7pa@virginia.edu

Discussion Session: Friday, 3–4 p.m., 265 Astronomy Building. Discussion of lectures and homework, led by Teaching Assistant

Text: Ryden and Peterson, Foundations of Astrophysics, ISBN-13: 978-0321595584, Addison-Wesley. This text will be supplemented with material on recent developments in astronomy. This material will appear on homework problems and tests, so class attendance is highly recommended.

Homeworks: Passed out on each Monday, due the following Monday. Late homeworks will have grades reduced by 50% and must be turned in by Monday, April 28. The homeworks are an important part of the class, as they reinforce the ideas discussed in class and help to develop problem solving skills.

Tests: There will be two in-class tests during semester, and a final exam. The format of the exams will be a combination of problems (similar to those on the homework), short answers, and multiple choice. All tests must be taken at the scheduled time.
  
  First In-Class Test: Monday, February 24, in class (tentative date)
  Second In-Class Test: Monday, April 7, in class (tentative date)
  Final Exam: Saturday, May 3, 9:00 A.M. – noon, Astronomy 265

Grading:

<table>
<thead>
<tr>
<th>Percent of Grade</th>
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<tbody>
<tr>
<td>Homework</td>
<td>25% total</td>
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<tr>
<td>Two In-Class Tests</td>
<td>20% each</td>
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<tr>
<td>Final Exam</td>
<td>35%</td>
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Course Outline

I. Basic Stellar Properties [Chapt. 13, pp. 307-321; Sect. 19.4, pp. 444-448]
II. Binary Stars [Chapt. 13, pp. 322-335]
III. The Sun [Review Chapt. 7]
IV. Stellar Spectra [Chapt. 14, review Chapt. 5]
V. Stellar Structure [Chapt. 15]
VI. Stellar Evolution [Chapt. 17, pp. 398-408]
VII. The Death of Stars [Chapt. 18]
VIII. The Interstellar Medium and Star Formation [Review Chapt. 16, Sect. 17.1]
IX. Our Galaxy, the Milky Way [Chapt. 19]
X. Normal Galaxies [Chapt. 20]
XI. Clusters of Galaxies and the Extragalactic Distance Scale [Chapt. 22]
XII. Active Galaxies and Quasars [Chapt. 21]
XIII. Cosmology – Expansion and Standard Models [Chapt. 23]
XIV. Cosmology – History and Origin of the Universe [Chapt. 24]