Astronomical Instrumentation Design

Course Outline

Instructors: Lecture: Part I. - Caton (CAP 321)
Part II. - Hawkins (CAP 320)
Part III. - Gray (CAP 313)

Textbook: Handouts

Lecture: CAP 332, 1:00 - 2:15 Tuesday & Thursday

Content: This course is a introduction to the design of telescopes and their instrumentation. Topic lists will be provided for each of the three sections of the course.

Attendance: Lecture attendance is expected since there is no textbook and the exam is based on lecture material. Attendance may also be checked with randomly given pop quizzes.

Exams: An exam will be given after each of the three sections of the course. A comprehensive Final Exam is scheduled for 9:00 am - 11:00 am on Wednesday, May 15th, in our classroom.

Problems: Homework problems will be assigned and graded.

Grading: The course grade will be determined from the grades received on the exams, problem sets, and quizzes.

Schedule: This course is team-taught and is divided into the following three sections:

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<tr>
<th>Section</th>
<th>Topics [instructor]</th>
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<tbody>
<tr>
<td>I. 5 weeks</td>
<td>Telescopes, domes, detector systems [Caton]</td>
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<tr>
<td>II. 5 weeks</td>
<td>Instrumentation Details [Hawkins]</td>
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<tr>
<td>III. 5 weeks</td>
<td>Spectrograph Design [Gray]</td>
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