Instructor Information

Name: Dr. Justin Bankert
Email: jbankert@angelo.edu
Office: Vincent 123
Office Hours: Available via Email
Office Phone: (325) 486-6787

Class Overview and Goals

Physics 1103, Stellar Astronomy Laboratory, is a one credit hour introductory study of the current knowledge and techniques of astronomy and astrophysics. Broad topics in the field will be covered, but the emphasis will be on stellar astronomy and cosmology.

There are two general goals for Physics 1103.

1. After completing the Stellar Astronomy Laboratory course, you should be able to apply the scientific method used by scientists as you complete simulated astronomical observations using Starry Night College software.

2. After completing the Stellar Astronomy Laboratory course, you should be able to apply the processes, practices, and methodologies used by modern astronomers in constructing astrophysical models.

Textbook


This workbook comes with a download code for the Starry Night College software. Both the software and workbook are required for this course. Starry Night College is a realistic and user-friendly planetarium simulation program that is designed to allow you to perform observational activities on your computer.
Late Work Policy

- Unexcused late work or missed tests will not be accepted.
- If your assignments are not submitted by the posted deadline you will receive a zero for that assignment.
- You must contact your professor before the assignment is due if you believe it will be late or as soon as possible after the due date in the case of an unexpected emergency.
- Blackboard issues will arise, if you wait until the last minute to complete assignments you run the risk of missing them. I can fix problems such as browser crashes and internet outages, but NOT the hour before it is due. You have an entire week to complete work, so due dates are firm.

Grade Determination

Your final grade will be determined by your scores on all lab tests. There are 14 lab tests and an extra credit lab will also be available to help raise your grade.

Course Schedule

NOTE:
- EOD (end of the day) means 11:59 PM

**Week 1 (July 8 - 14)**

<table>
<thead>
<tr>
<th>Lab 1</th>
<th>Starry Night Tutorial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 2</td>
<td>Starry Night Student Exercises E1, E2, E3, E4</td>
</tr>
<tr>
<td>Lab 3</td>
<td>Starry Night Student Exercises B3, B4, B5</td>
</tr>
</tbody>
</table>

**Due Dates:**
Lab Quizzes EOD July 14

**Week 2 (July 15 - 21)**

<table>
<thead>
<tr>
<th>Lab 4</th>
<th>Starry Night Student Exercises F1, F2, F3, F4, F5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 5</td>
<td>Magnitude Scale and Distances (pg 67 in workbook)</td>
</tr>
<tr>
<td>Lab 6</td>
<td>Stars and the HR Diagram (pg 71 in workbook)</td>
</tr>
<tr>
<td>Lab 7</td>
<td>The Birth and Death of Stars (pg 75 in workbook)</td>
</tr>
</tbody>
</table>

**Due Dates:**
Lab Quizzes EOD July 21
Week 3 (July 22 - 28)

| Lab 8 | Pulsars, Supernova Remnants (pg 79 in workbook) |
| Lab 9 | Starry Night Student Exercises F6, F7, F8 |
| Lab 10 | Starry Night Student Exercises G1, G2, G3, G4 |

Due Dates:
Lab Quizzes  EOD July 28

Week 4 (July 29 - August 4)

| Lab 11 | Quasars and Active Galaxies (pg 87 in workbook) |
| Lab 12 | Views of the Milky Way (pg 91 in workbook) |
| Lab 13 | Globular Clusters (pg 95 in workbook) |
| Lab 14 | The Neighborhood of the Sun (pg 99 in workbook) |

Due Dates:
Lab Quizzes  EOD August 4

Week 5 (August 5 - 7)

| Lab 15 | (EXTRA CREDIT) Beyond the Milky Way Galaxy (pg 103 in workbook) |

Due Dates:
Lab Quiz  EOD August 7

Academic Integrity

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

American Disability Act

Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request and to implement academic accommodations.

Religious Holy Day

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.