Instructor Information

Name: Dr. Justin Bankert  
Email: jbankert@angelo.edu  
Office: Vincent 123  
Office Hours: M 1:00 PM - 3:00 PM; T,R 9:00 AM - 11:00 AM  
Office Phone: (325) 486-6787

Class Times and Locations

Room: ASU Planetarium (VIN P-02)  
Times: Monday, Wednesday, Friday; 9:00 AM - 9:50 AM

Class Overview and Goals

Physics 1303, Fundamentals of Astronomy, is a three credit hour introductory study of the current knowledge and techniques of astronomy and astrophysics. Phenomena spanning a large range of distances and masses (from stellar scale, through galactic scale, to universe scale) will be explored in this class.

After completing the Fundamentals of Astronomy course, you should be able to comprehend the most important scientific models governing modern astrophysics and be familiar with a broad range of phenomena studied by astronomers. Furthermore, you should be able to comprehend the practices and methodologies used in constructing modern astrophysical models.

Textbook

Textbook:

Title: 21st Century Astronomy 5th Edition  
Publisher: W.W. Norton and Company
Homework, Exams, and In Class Work

Homework will be assigned through Blackboard on Monday afternoons and will be due on Friday at midnight. Because you have four days to complete homework, extensions will not be granted. There will be three midterm exams. The lowest midterm exam grade will be dropped. If you need to miss an exam, that will count as your dropped exam. There will be in class activities which will count towards your final grade. Thus while attendance is not mandatory, missing class will cause your grade to suffer.

Grading

<table>
<thead>
<tr>
<th>In-Class:</th>
<th>10 %</th>
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<tbody>
<tr>
<td>Homework:</td>
<td>40 % (Weekly Assignments)</td>
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<tr>
<td>Midterms:</td>
<td>30 % (10 % Each)</td>
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<tr>
<td>Final:</td>
<td>20 %</td>
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Extra credit will be given for attending public planetarium shows. You get a bonus of 1% of your total final grade for attending each of the four different shows this semester once. This amounts to a possible total of 4% of your final grade. Public shows are Thursday nights at 7 & 8 PM.

Schedule

*Some dates may change as the semester progresses.*

<table>
<thead>
<tr>
<th>Week of August 27</th>
<th>Chapter 1</th>
<th>Introduction to the Course</th>
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<tbody>
<tr>
<td>Week of September 3</td>
<td>Chapter 3,4</td>
<td>Gravity and Orbits</td>
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<tr>
<td>Week of September 10</td>
<td>Chapter 5</td>
<td>Properties of Light Midterm 1</td>
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<tr>
<td>Week of September 17</td>
<td>Chapter 14</td>
<td>The Sun</td>
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<td>Week of September 24</td>
<td>Chapter 13</td>
<td>Measuring Stars</td>
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<tr>
<td>Week of October 1</td>
<td>Chapter 15</td>
<td>ISM and Star Formation</td>
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<td>Week of October 8</td>
<td>Chapter 16</td>
<td>Low Mass Stellar Evolution</td>
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<td>Week of October 15</td>
<td>Chapter 17</td>
<td>High Mass Stellar Evolution Midterm 2</td>
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<tr>
<td>Week of October 22</td>
<td>Chapter 18</td>
<td>Relativity and Black Holes</td>
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<td>Week of October 29</td>
<td>Chapter 19,20</td>
<td>Gravitational Wave Astronomy</td>
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<td>Week of November 5</td>
<td>Chapter 19,20</td>
<td>The Milky Way and Galaxies</td>
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<tr>
<td>Week of November 12</td>
<td>Chapter 22,21</td>
<td>Cosmology, Expanding Universe</td>
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<td>Week of November 19</td>
<td>Chapter 23,</td>
<td>Large Scale Structure, Review</td>
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<tr>
<td>Week of December 3</td>
<td>Chapter 23,</td>
<td>Final Exam</td>
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<tr>
<td>December 12</td>
<td>8:00-10:00 AM</td>
<td>Final Exam</td>
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Planetarium Class Etiquette

- No food, drinks, or tobacco products are allowed in the planetarium or the outer lobby area.
- Please do not leave trash in the planetarium or lobby.
- Please do not disturb fellow students during class time.
- Please do not put your feet up on the chair in front of you.
- Silence cell phones and other electronic devices.
- No texting/messaging during class.
- Please let me know if you will be using any electronic device during class.
**Student Disability Services**

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the students responsibility to initiate such a request by contacting Ms. Dallas A. Swafford, Director of Student Disability Services; dallas.swafford@angelo.edu

**Title IX**

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASUs Title IX Coordinator: Michelle Nicole Boone, J.D. Director of Title IX Compliance; michelle.boone@angelo.edu

**Student Absence for Observance of Religious Holy Days**

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day for more information.

**Incomplete Grade Policy**

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.

**Academic Integrity**

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the Statement of Academic Integrity

**Plagiarism**

Plagiarism is a serious topic covered in ASUs Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.
Copyright Policy

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

General Policies

All students are required to follow the policies and procedures presented in these documents: Angelo State University Student Handbook, Angelo State University Catalog