Instructor: Dr. Kenneth Carrell  
Email: kenneth.carrell@angelo.edu  
Phone: (325) 942-2136  
Office: VIN 119  
Office Hours: BY APPOINTMENT

Course Description
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.

Course Delivery

Statement for Online Courses
This is an online course that will be delivered via Blackboard. If you choose, you can complete this course without visiting the ASU campus.

Please refer to this Health and Safety web page for updated information about campus guidelines as they relate to the COVID-19 pandemic.

Required Texts and Materials

The Norton Starry Night Workbook by Desch & Marks  

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.
**Communication**

Faculty will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

**Written communication via email:** All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

**Virtual communication:** Office hours and/or advising may be done with the assistance of the telephone, Collaborate, Skype, etc.

**Grading**

**Evaluation and Grades**

Your final grade will be determined by your scores on all lab tests. There are 14 tests worth 25 points each, giving a total of 350 possible points. An extra credit lab will also be available to help raise your grade.

**Grading System**

The following grading scale is in use for this course:

- A = 90.00-100 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points (Grades are not rounded up)

**Late Work**

- **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.
General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook
- Angelo State University Catalog

**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 to disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

**Accommodations for Students with Disabilities**

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.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112
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.

Plagiarism
Plagiarism is a serious topic covered in ASU’s 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.

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.

Title IX at Angelo State University
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance. Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:
Michelle Miller, J.D.
Special Assistant to the President and Title IX Coordinator
Mayer Administration Building, Room 210
325-486-6357
michelle.boone@angelo.edu

You may also file a report online 24/7.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information, visit the Title IX website.
Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

Course Outline

Getting Started

- Download *Starry Night College* software on to your computer. The software download instructions are given on the inside cover of your *Starry Night Workbook*.

- Alternatively, you can also access *Starry Night College* in the MCS 111 computer lab (computers 10-44), but you will still need to purchase the *Starry Night Workbook* to have access to the Student Exercise instructions and answer sheets.

- Make sure you read the Preface (p. vii) and Quick Tips (p. ix) in the workbook.

Action Plan

Follow this plan as you work your way through each lab assignment:

1. Labs will be assigned as described in this syllabus.
2. Follow the instructions (LAB INSTRUCTIONS tab in *Blackboard*) for each lab carefully and fully.
3. Do each lab as assigned (see lab assignment schedule below), answering all the questions and/or recording data on the Starry Night Workbook answer sheet or on the *Starry Night Work Sheets* (available on our *Blackboard* site).
4. I recommend that you do the labs early to avoid having to rush though them at the last minute.
5. After you complete the lab, take the *Blackboard* lab quiz (look in the LAB TESTS tab).
6. Make sure you **submit the test** when you complete it and that you meet the deadline for submission for the test.
7. You can use your completed workbook answer sheet pages or work sheets to help you while taking the test.
8. You **do not** have to turn in the answer sheet from the Starry Night Workbook or the work sheets.
9. Grades will be reported in *Blackboard* (Tools/My Grades).
## Course Schedule

**NOTE:** “End of the day” means 11:59 PM and tests are unavailable after 11:30 PM because they are timed.

<table>
<thead>
<tr>
<th>Number</th>
<th>Lab Name</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>Lab 1</td>
<td>Starry Night Tutorial</td>
<td>Monday June 14</td>
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<tr>
<td>Lab 2</td>
<td>Starry Night Student Exercises E1, E2, E3, &amp; E4</td>
<td>Monday June 14</td>
</tr>
<tr>
<td>Lab 3</td>
<td>Starry Night Student Exercises B3, B4, &amp; B5</td>
<td>Monday June 14</td>
</tr>
<tr>
<td>Lab 4</td>
<td>Starry Night Student Exercises F1, F2, F3, F4, &amp; F5</td>
<td>Monday June 14</td>
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<tr>
<td>Lab 5</td>
<td>The Magnitude Scale and Distances (p. 67)</td>
<td>Wednesday June 16</td>
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<tr>
<td>Lab 6</td>
<td>Stars and the HR Diagram (p. 71)</td>
<td>Friday June 18</td>
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<tr>
<td>Lab 7</td>
<td>Nebulae: The Birth and Death of Stars (p. 75)</td>
<td>Monday June 21</td>
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<td>Lab 8</td>
<td>Pulsars and Supernova Remnants (p. 79)</td>
<td>Wednesday June 23</td>
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<tr>
<td>Lab 9</td>
<td>Starry Night Student Exercises F6, F7, &amp; F8</td>
<td>Friday June 25</td>
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<tr>
<td>Lab 10</td>
<td>Starry Night Student Exercises G1, G2, G3, &amp; G4</td>
<td>Monday June 28</td>
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<td>Lab 11</td>
<td>Quasars and Active Galaxies (p. 87)</td>
<td>Wednesday June 30</td>
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<td>Lab 12</td>
<td>Views of the Milky Way (p. 91)</td>
<td>Friday July 2</td>
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<tr>
<td>Lab 13</td>
<td>Globular Clusters (p. 95)</td>
<td>Wednesday July 7</td>
</tr>
<tr>
<td>Lab 14</td>
<td>The Neighborhood of the Sun (p. 99)</td>
<td>Wednesday July 7</td>
</tr>
<tr>
<td>Lab 15</td>
<td>Beyond the Milky Way Galaxy (p. 103) EXTRA CREDIT</td>
<td>Wednesday July 7</td>
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</tbody>
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1. [https://blackboard.angelo.edu/](https://blackboard.angelo.edu/)
2. [https://www.angelo.edu/covid-19/](https://www.angelo.edu/covid-19/)
3. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
4. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
6. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
7. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
9. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
10. [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
11. [https://www.angelo.edu/title-ix](https://www.angelo.edu/title-ix)