Instructor: Dr. Kenneth Carrell  
Email: kenneth.carrell@angelo.edu  
Phone: (325) 942-2136  
Office: VIN 119  
Office Hours: MW 2-3pm, TR 11am-noon, (or by appointment)

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.

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
This is a face-to-face course with online components that students are expected to access in Blackboard.¹

Required 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.
Assessing Outcomes & Grade Determination

Method of Assessing Outcomes
Student learning outcomes will be assessed with a combination of online and face-to-face laboratory activities. These will use the Starry Night Software, Blackboard, and in-person activities.

NOTE: Blackboard assignments are due “at the end of the day” which means 11:59PM. However, tests are timed and WILL NOT be available all the way until the end of the day (e.g. tests with 1-hour time limits will not be available starting at 11:00PM). 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 multiple days to complete work, so due dates are firm.

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.

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.

Grade Determination
Your final grade will be determined by your scores on all lab tests/activities. Each lab will be worth a total of 25 points and you will be graded on a scale of 350 possible points. This means your grade will be determined based on 14 labs, HOWEVER, you may attend all in-person labs and/or complete all Starry Night labs. This will be a total of approximately 20 labs throughout the semester and means you have several ‘extra credit’ labs that can be applied to your grade. Below are the thresholds for grades in this class. NOTE: Cutoffs are hard and there will be no rounding or curve applied to any grades.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Points Required</th>
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<tbody>
<tr>
<td>A</td>
<td>315+</td>
</tr>
<tr>
<td>B</td>
<td>280-315</td>
</tr>
<tr>
<td>C</td>
<td>245-280</td>
</tr>
<tr>
<td>D</td>
<td>210-245</td>
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<tr>
<td>F</td>
<td>&lt;210</td>
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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:

Dr. 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.

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. Resources to help you understand this policy better are available at the ASU Writing Center.

**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 10.10 Student Absence for Observance of Religious Holy Day for more information.

**Title IX at Angelo State University**
Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: Incident Reporting Form
Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit the Title IX website.

**Information About COVID-19**
Please refer to ASU’s COVID-19 (Coronavirus) Updates web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

**Modifications to the Syllabus**
This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.
## Course Schedule

<table>
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<tr>
<th>Week</th>
<th>Laboratory</th>
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<tbody>
<tr>
<td>Aug 23 – 27</td>
<td>Lab 1 – Starry Night Tutorial</td>
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<tr>
<td>Aug 30 – Sep 3</td>
<td>Lab 2 – Starry Night Student Exercises E1, E2, E3, &amp; E4</td>
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<tr>
<td>Sep 6 – 10</td>
<td>Lab 3 – Starry Night Student Exercises B3, B4, &amp; B5</td>
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<tr>
<td>Sep 13 – 17</td>
<td>Lab 4 – Starry Night Student Exercises F1, F2, F3, F4, &amp; F5</td>
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<tr>
<td>Sep 20 – 24</td>
<td>Lab 5 – The Magnitude Scale and Distances (p. 67 in workbook)</td>
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<td>Sep 27 – Oct 1</td>
<td>Lab 6 – Stars and the HR Diagram (p. 71 in workbook)</td>
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<tr>
<td>Oct 4 – 8</td>
<td>Lab 7 – Nebulae: The Birth and Death of Stars (p. 75 in workbook)</td>
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<tr>
<td>Oct 11 – 15</td>
<td>Lab 8 – Pulsars and Supernova Remnants (p. 79 in workbook)</td>
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<tr>
<td>Oct 18 – 22</td>
<td>Lab 9 – Starry Night Student Exercises F6, F7, &amp; F8</td>
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<tr>
<td>Oct 25 – 29</td>
<td>Lab 10 – Starry Night Student Exercises G1, G2, G3, &amp; G4</td>
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<tr>
<td>Nov 1 – 5</td>
<td>Lab 11 – Quasars and Active Galaxies (p. 87 in workbook)</td>
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<tr>
<td>Nov 8 – 12</td>
<td>Lab 12 – Views of the Milky Way (p. 91 in workbook)</td>
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<tr>
<td>Nov 15 – 19</td>
<td>Lab 13 – Globular Clusters (p. 95 in workbook)</td>
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<tr>
<td>Nov 29 – Dec 3</td>
<td>Lab 14 – The Neighborhood of the Sun (p. 99 in workbook)</td>
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<td>Lab 15 – Beyond the Milky Way Galaxy (p. 103 in workbook)</td>
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*Face-to-face labs will be announced in Blackboard*