Instructor: Dr. Kenneth Carrell
Email: kenneth.carrell@angelo.edu
Phone: (325) 942-2136
Office: VIN 119
Office Hours: MW 10am-noon (in office) & 2-3pm (in Collaborate), R 2-3pm (in office)

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
To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

How Does It Work?
Most of your labs (assignments) will be completed using the required software and submitted online through the Blackboard webpage. There will be optional face-to-face labs that may be completed as well but are not required.

When you are not in the physical class, you will be responsible for completing assigned coursework in Blackboard. This work can be completed any time before the posted deadline.

Please refer to this Health and Safety web page for updated information about campus guidelines as they relate to the COVID-19 pandemic.
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.
- Face masks MUST be worn inside the planetarium.
**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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</thead>
<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>
</tr>
<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 Handbook³
- Angelo State University Catalog⁴

**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 university's [Statement of Academic Integrity]⁵.

**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]⁶. 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.

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 10.19 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 Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

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 about Title IX in general you may visit www.angelo.edu/title-ix.

**Required Use of Masks/Facial Coverings by Students**
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom experience. Current research on the
COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

**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.

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1. [https://blackboard.angelo.edu/](https://blackboard.angelo.edu/)
3. [https://www.angelo.edu/student-handbook/](https://www.angelo.edu/student-handbook/)
4. [https://www.angelo.edu/catalogs/](https://www.angelo.edu/catalogs/)
6. [https://www.angelo.edu/services/disability-services/](https://www.angelo.edu/services/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/dept/writing_center/academic_honesty.php](https://www.angelo.edu/dept/writing_center/academic_honesty.php)
10. [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)
11. [https://www.angelo.edu/services/title-ix/](https://www.angelo.edu/services/title-ix/)
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 on the day of our class meeting each week (Thursday at 3 PM).
2. Go to the site that you choose to complete this lab (either the MCS 111 computer lab or use your personal computer).
3. Follow the instructions (LAB INSTRUCTIONS tab in *Blackboard*) for each lab carefully and fully.
4. 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).
5. I recommend that you do the labs on the day they are assigned, since you will already have a two-hour block of time built into your schedule for this class.
6. After you complete the lab, take the *Blackboard* lab quiz (look in the LAB TESTS tab).
7. Make sure you **submit the test** when you complete it and that you meet the deadline for submission for the test.
8. You can use your completed workbook answer sheet pages or work sheets to help you while taking the test.
9. You **do not** have to turn in the answer sheet from the *Starry Night Workbook* or the work sheets.
10. Grades will be reported in *Blackboard* (Tools/My Grades).
# Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Laboratory</th>
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<tbody>
<tr>
<td>August 17 – 21</td>
<td>Lab 1 – Starry Night Tutorial</td>
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<tr>
<td>August 24 – 28</td>
<td>Lab 2 – Starry Night Student Exercises E1, E2, E3, &amp; E4</td>
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<tr>
<td>August 31 – September 4</td>
<td>Lab 3 – Starry Night Student Exercises B3, B4, &amp; B5</td>
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<tr>
<td>September 8 – 11</td>
<td>Lab 4 – Starry Night Student Exercises F1, F2, F3, F4, &amp; F5</td>
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<tr>
<td>September 14 – 18</td>
<td>Lab 5 – The Magnitude Scale and Distances (p. 67 in workbook)</td>
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<tr>
<td>September 21 – 25</td>
<td>Lab 6 – Stars and the HR Diagram (p. 71 in workbook)</td>
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<tr>
<td>September 28 – October 2</td>
<td>Lab 7 – Nebulae: The Birth and Death of Stars (p. 75 in workbook)</td>
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<tr>
<td>October 5 – 9</td>
<td>Lab 8 – Pulsars and Supernova Remnants (p. 79 in workbook)</td>
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<tr>
<td>October 12 – 16</td>
<td>Lab 9 – Starry Night Student Exercises F6, F7, &amp; F8</td>
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<tr>
<td>October 19 – 23</td>
<td>Lab 10 – Starry Night Student Exercises G1, G2, G3, &amp; G4</td>
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<tr>
<td>October 26 – 30</td>
<td>Lab 11 – Quasars and Active Galaxies (p. 87 in workbook)</td>
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<tr>
<td>November 2 – 6</td>
<td>Lab 12 – Views of the Milky Way (p. 91 in workbook)</td>
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<tr>
<td>November 9 – 13</td>
<td>Lab 13 – Globular Clusters (p. 95 in workbook)</td>
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<tr>
<td>November 16 – 20</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*