



## Course Syllabus

### Course Information

**Course Title:** Stars and Galaxies Lab

**Course Prefix & Number:** PHYS 1103

**Semester & Year:** Summer I & II 2016

### Instructor Information

**Instructors Name:** Delbert Dowdy

**Office Location and #:** Chemistry Bldg., Room 229

**Office Phone:** 903-823-3317

**Email:** [Delbert.Dowdy@texarkanacollege.edu](mailto:Delbert.Dowdy@texarkanacollege.edu)

**Office Hours:** **By Appointment**

**Best way to contact quickly is to send an email to [astronomy1303@gmail.com](mailto:astronomy1303@gmail.com)**

### Course Description

Stars and Galaxies Lab (lecture) (3,1,0). Study of stars, galaxies, and the universe outside our solar system. May or may not include a laboratory. (Cross-listed as ASTR 1104)

Recommended co-requisite is PHYS 1303

### Textbook & Course Materials

**Required Text:** None

**Other Course Materials:** All lab materials will be supplied and can be found online free.

**Microsoft Office:** Texarkana College offers Office 365 to all students. Instructions on how to download this free software can be located at

<https://www.texarkanacollege.edu/helpdesk/install-office-2013>.

### Computer Requirements

**Access:** This is an online course. You will need to have access to a computer. If you do not have access to a computer off campus, there are computers located in the Palmer Memorial

Library that may be used by students. It is best if you have high speed internet access. If you have Dial-up, it may be difficult to download videos and other materials.

**Operating System:**

Windows Operating System		Mac OS X Operating System	
<b>Minimum System Requirements</b>		<b>Minimum System Requirements</b>	
Operating System:	Windows XP	Operating System:	OS X 10.6 (Snow Leopard)
Processor:	1.7 GHz	Processor:	1.83 GHz
RAM:	1 GB	Memory:	1 GB
Browser:	Firefox 4.0 Internet Explorer 8	Browser:	Firefox 4.0 Safari 4.0

**Computer Hardware Requirements:**

- Internet Access: High speed internet connection such as cable modem or DSL
- Processor: 2GHz processor
- Memory: 1GB RAM; 4 GB free hard drive space
- Some courses and/or assignments may require the use of a webcam.
- The learning management system is optimized for desktop displays; tablet and smartphone users should use the Mobile Apps. **Always** use a wired desktop or laptop to take you quizzes and exams on.

**Browser:** Texarkana College’s Learning Management System (Jenzabar’s eLearning) suggests that students use the most current version of the Internet Explorer browser. You can download Internet Explorer by going to:

<https://www.microsoft.com/en-us/download/internet-explorer.aspx>

**Student Learning Outcomes**

- 1) Describe how we detect radiation from space.
- 2) Describe the sun and its basic properties.
- 3) Describe the basic properties of stars
- 4) Describe the birth and death of stars.
- 5) Describe the Milky Way galaxy.
- 6) Describe the basic properties of galaxies.

**Communication between Instructor and Student**

All communication in the course will be conducted through email, telephone, or Remind.com. I will respond to emails within 24-48 hours but usually much quicker. If you have not received a reply within that time limit, please resend.

All email communications should go through the designated email for this class:

[astronomy1303@gmail.com](mailto:astronomy1303@gmail.com)

REMIND.COM – I will send periodic reminders when assignments are due or some important information needs to go to the class. This is one-way communication and you are not able to respond back to Remind.com but you can send an email to the above address. If you do not sign up for Remind.com, you may miss some very important communication that I will not send any other way. Remind.com sends text messages to your phone or can be set to send an email instead.

If you wish to leave a voice message, call my office phone number and it will be recorded and be sent to my computer. Email is the preferred method of communication.

## Grading

**Online Issues: This is not a self-paced class.** An online course covers the same material as traditional “live” sections. You have some flexibility in determining WHEN you work on the class material, but there are regular and specific deadlines for assignments, forums, tests, etc. Be sure to keep up with the timing. In this online course you do not have to be physically present at a particular place and time as in a traditional class, but it may not demand less time or effort. In fact, online classes can take MORE time and discipline than fact-to-face classes. I expect you to check your email and Remind.com once every 48 hours at a minimum, including weekends. This means that you will need to make sure that you have some way to be able to use the internet regularly. Have a backup plan in case your home computer/internet connection goes down.

**Texarkana College is not responsible for issues related to your computer or internet service. Problems with your computer or internet service is not an excuse for completing your assignments by their deadline.**

### Grading Scale:

A = 900-1000

B = 800-899

C = 700-799

D = 600-699

F = Below 60

### Student Assessment

Your final grade for this course will be determined by the following method:

#### LAB Points

Orientation	40
Light and Radiation	80
Sunspots	80
Constellations	80
Parallax	80

Brightness of Stars	80
Star Movement	80
HR Diagram	80
Material Between Stars	80
Variable Stars	80
Spiral Arms of the Galaxy	80
Classifying Galaxies	80
Cosmology	80

## Activities/Assignments

### How the Course is Organized

**Schedule:** The course is not based on a weekly system. You may complete the labs early. Labs are NOT equally spaced as I have responded to requests to not have due dates on Saturdays or Sundays. Be sure to check your calendar and have Remind.com.

**Readings:** All readings are in the lab section for that lab or in the lab itself.

**Labs:** These labs must be submitted in an email to the following address: [Astronomy1303@gmail.com](mailto:Astronomy1303@gmail.com). Please do not send an attachment but write answers directly in the email. When submitting answers be sure to: 1) Put the name of the lab in the subject line so I know what you are sending 2) Give me only the answers and not the questions 3) Number the answers just as they are on the questions. 4) Be sure to include your NAME if you wish to receive credit as your email address that shows up will not let me know who you are. Some labs will require you to take pictures and send those in with the answers.

**Tests:** There are no lab tests and no final.

**Remind.com:** Reminders and other communication will be sent by way of the Remind.com web site in the form of either a text message or email if you do not want to receive text messages. Look online to see how to set up the service.

**Problems:** If you need assistance send an email to [Astronomy1303@gmail.com](mailto:Astronomy1303@gmail.com) with the word "Problem" in the subject line.

**Student Grades:** You can check your grades at any time by going to the GRADEBOOK portion on the left on the Course Page.

**Grade Recording Form:** A form can be downloaded from the Course Page that will show grade details.

### What Should Students Do First?

*Go the page that opens when you enter the course and read all the material on that page.*

*Then proceed to the 1.Orientation section in the blue area on the left.*

*Read the handouts and watch the welcome video.*

*Send in the orientation lab to the email listed.*

## **Class Expectations**

Students are expected to login within the first 3 days of class and begin working on your lab immediately. You are expected to keep up with deadlines through the calendar and Remind.com. You are expected to turn in all your work and take tests on time.

## **Class Schedule**

All labs are due at midnight on the day listed below:

Orientation	14-June
Light and Radiation	17-June
Sunspots	21-June
Constellations	24-June
Parallax	28-June
Brightness of Stars	1-July
Star Movement	8-July
HR Diagram	12-July
Material Between Stars	15-July
Variable Stars	19-July
Spiral Arms of the Galaxy	22-July
Classifying Galaxies	26-July
Cosmology	29-July

## **Absentee Policy**

Because you do not come on campus and sit in a classroom, attendance is determined by your active participation and communication in the course. Make sure that you log in frequently,

participate in your course activities and discussions, and check your TC email regularly. Students who succeed in online classes keep a schedule just as they would if they were attending class on campus, and they communicate with one another and their instructor frequently. Attendance is vital to your success.

Absence in an **online course** is defined as the lack of an active post or submission within the course including discussion board posts, written assignments, and tests. This standard will be used to determine all absentee issues, including but not limited to, 12<sup>th</sup> Day Census Reports, last date of attendance, and involuntary withdrawal from a course due to absences. **All online students must complete an Enrollment Verification activity within the first week of class (any contact with the professor); otherwise the professor may drop the student for not having attended.**

A student should not stop attending a class without formally withdrawing from the course by the institutions published Last Day for Students to Drop. If a student stops attending class after the published Last Day for Students to Drop, the student **may** receive a grade of “F” in the class. The instructor will submit the last date of attendance for students receiving a grade of “F” or “W”.

**Withdrawal from a course(s) may affect a student’s current or future financial aid eligibility. Students should consult the Financial Aid Office to learn both short and long term consequences of a withdrawal.**

### **Make-up Policy / Late Work**

**Make-up Policy:** As a general policy, no makeups are given without a very good excuse. Each will be judged on a case by case basis.

**Late Work:** Due dates for the labs are listed above and all assignments are due by midnight of the date listed. For each day you are late, I will deduct 20% of that grade up to 4 days late in which your grade goes to 20% of the original grade. You then have 2 weeks to get the assignment turned in or the grade will go to 0. Exceptions will be made on a case by case basis. Waiting to the last minute and having a computer crash is not an acceptable excuse.

### **Academic Dishonesty Policy**

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the TC Catalog/Student Handbook at <https://texarkanacollege.edu>.

### **Disability Act Statement**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3349, or go by his office located in the Palmer Memorial Library.

If you have an accommodation letter from his office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

## Financial Aid

**Attention!** Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making the decision to drop a course.

## Complaint Process

The complaint process can be found at <https://www.texarkanacollege.edu/wp-content/uploads/2014/11/online-classes-complaint-procedure.pdf>.

## Netiquette

“Netiquette” is the term used to describe rules of courtesy in using electronic communication. These rules are intended to help use the medium effectively and considerately. The ideas below are intended to help with electronic class discussion.

When communicating in an online course you are addressing a group of people. The following guidelines will help you to communicate effectively.

- Don't say things that you wouldn't say in a face-to-face environment, or in any public place.
- Don't share confidential information.
- Use the subject line to identify the content of the message.
- Stay up-to-date on forum postings by reading them regularly.
- Always comply with copyright by citing your references when posting online content.
- Use individual e-mail for messages to individuals rather than tying up the group list.
- Do not forward emails or discussion forum postings without asking permission to from the original author.
- Electronic communication does not provide visual cues, such as smiles or frowns that face-to-face communication allows. Therefore, humor and/or sarcasm in written text might be misunderstood and interpreted as rude or inflammatory in the online environment. Choose your words carefully to avoid hurting, or angering anyone. Should

emotions become inflamed, do not promote the anger. Take a cooling down period, perhaps overnight, before you engage in the online activity again.

- Avoid using all capital letters in your text. This is considered ‘shouting’ in the online classroom.
- Aim for clarity and readability in your text.
- Use proper English and remember to spell check.
- If you do not understand the assignment’s directions or the posts of your classmates don’t be afraid to ask for clarification.
- The online classroom is a community of learners. Participate actively in the community and reach out to your classmates with a helping hand.

## **Technical Assistance**

Texarkana College offers students several ways to access technical assistance for IT issues as well as their Online classrooms.

### **General IT issues**

Help Desk Link from TC's main webpage: <https://www.texarkanacollege.edu/helpdesk>

Phone: 903-823-3030

Email: [helpdesk@texarkanacollege.edu](mailto:helpdesk@texarkanacollege.edu)

### **Moodle Issues**

TC Online Web Page: <https://www.texarkanacollege.edu/online>

Vernon Wilder:

Email: [vernon.wilder@texarkanacollege.edu](mailto:vernon.wilder@texarkanacollege.edu)

Phone: 903-823-3252

Rusty Hatchett:

Email: [harold.hatchett@texarkanacollege.edu](mailto:harold.hatchett@texarkanacollege.edu)

Phone: 903-823-3053