



PHYS 1103 881 – Stars & Galaxies Lab (ONLINE)

Course Syllabus: Spring 2022

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

Instructor: Mr. Mark Ellermann

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours	N/A	N/A	N/A	N/A	N/A	1-3 pm Mon-Fri

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description: 1 credit hour. Three hours of lab each week. This laboratory-based course accompanies PHYS 1304, The Solar System. Laboratory activities will reinforce the study of the Sun and other bodies in our solar system, including the origin of our solar system. This course will not satisfy a core curriculum requirement, but may satisfy a degree requirement.

Prerequisite(s): None.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to demonstrate understanding of qualitative concepts relating to the following learning outcomes:

- 1103.1) Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry used in modern astrophysics..
- 1103.2) Communicate observations and interpretations clearly through written communication
- 1103.3) Use basic laws of astronomy to solve assigned tasks.
- 1103.4) The ability to translate, interpret, and extrapolate scientific theory governing the formation and motion of stars.
- 1103.5) The ability to translate, interpret, and extrapolate scientific theory governing the formation and evolution of galaxies and the universe.

Evaluation/Grading Policy: All lab assignments have equal weight. Final grade will be assigned by the average of all lab assignments according to the following letter scale. There will not be any major test.

- A 90% - 100%
- B 80% - 89%
- C 70% - 79%
- D 60% - 69%
- F < 60%

Required Instructional Materials:

This title is not included in the Inclusive Access program

P. Braganca. *Starry Night College Textbook Edition*. Simulation Curriculum.

Publisher: Simulation Curriculum

ISBN Number: 978-1-7330225-6-9

Optional Instructional Materials: None.

Minimum Technology Requirements: Given the online nature of this course, it is assumed the student has access to a computer with the ability to install software to that computer, as well as access to the Internet.

Required Computer Literacy Skills: All students are expected to have sufficient computer literacy skills to install software, navigate simulation software, and navigate the Internet.

Course Structure and Overview: Students are expected to complete the assigned tasks by the due dates listed in Blackboard. Late assignments will not be considered for grading. All assignments and due dates are available from the beginning of the semester.

Communications: Emails will have responses within 24 hours during the week (Monday – Friday). All official correspondence will be handled through your NTCC email.

Institutional/Course Policy: Students are expected to complete the syllabus quiz by Wednesday of the first week as evidence of attendance. All correspondence is expected to be respectful and courteous to everyone involved. Late submissions will not be accepted without prior acceptance by the instructor. If something comes up that will delay your work, please contact the instructor IMMEDIATELY. Sudden loss of power or Internet connection on the night of the due date will *not* be counted as a suitable reason to extend due dates.

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Tentative Course Timeline (*note* instructor reserves the right to make adjustments to this timeline at any point in the term):

Week	Assignments
Week 1	<ul style="list-style-type: none">• Tutorial: Astronomy Simulator Basics• Pre-Lab: Measuring Size and Scale• Pre-Lab: Measuring Size and Scale
Week 2	<ul style="list-style-type: none">• Chapter 15 Lab
Week 3	<ul style="list-style-type: none">• Chapter 17 Lab
Week 4	<ul style="list-style-type: none">• Chapter 18 Lab
Week 5	<ul style="list-style-type: none">• Chapter 19 Lab
Week 6	<ul style="list-style-type: none">• Chapter 20 Lab
Week 7	<ul style="list-style-type: none">• Chapter 21 Lab
Week 8	<ul style="list-style-type: none">• Chapter 22 Lab
Week 9	<ul style="list-style-type: none">• Chapter 23 Lab
Week 10	<ul style="list-style-type: none">• Chapter 24 Lab
Week 11	<ul style="list-style-type: none">• Chapter 25 Lab
Week 12	<ul style="list-style-type: none">• Chapter 26 Lab
Week 13	<ul style="list-style-type: none">• Chapter 28 Lab
Week 14	<ul style="list-style-type: none">• Chapter 29 Lab
Week 15	<ul style="list-style-type: none">• Chapter 30 Lab
Week 16	<ul style="list-style-type: none">• No assignment