



## Stars and Galaxies Lab – PHYS 1103.089

### Course Syllabus: Summer 2018

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

#### Mr. Mark Ellermann

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	By Appointment	By Appointment	By Appointment	By Appointment	By Appointment	Every Day

*The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.*

#### Catalog Course Description (include prerequisites):

3 credit hours

Lecture/Lab/Clinical: Three hours of lecture each week.

Prerequisite: None

This course focuses on the history, development, and modern use of astronomy. It covers solar, galactic, and universal aspects of astronomy including stellar evolution, black holes, and current cosmological concepts.

**Required Textbook(s):** Kay, Palen, Smith, Blumenthal, Starry Night Workbook, 5th Edition

**ISBN Number:** 978-0-393-60256-7

#### Suggested Reading(s):

\**A Briefer History of Time*, by Stephen Hawking

\**The Black Hole War: My Battle with Stephen Hawking to Make the World Safe for Quantum*

\**Mechanics*, by Leonard Susskind

\**How It Began: A Time-Traveler's Guide to the Universe*, by Chris Impey

\*These texts will not be covered in class, but can give a deeper understanding of topics covered.

## **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** Translate, interpret, and extrapolate scientific theory governing the formation and evolution of stars.
- 1103.5** Translate, interpret, and extrapolate scientific theory governing the formation and evolution of galaxies and the universe.

**SCANS Skills: N/A**

## **Evaluation/Grading Policy:**

Homework Assignments: 100%

<b>A</b>	(90% - 100%)
<b>B</b>	(80% - 89%)
<b>C</b>	(70% - 79%)
<b>D</b>	(60% - 69%)
<b>F</b>	(< 60%)

## Tests / Exams

There will be quizzes that review each chapter's labs. These quizzes will be counted as homework grades with equal weight to the labs. There will not be any major test.

## Labs

Each lab will require the use of Starry Night software.

## **Student Responsibilities/Expectations:**

This course requires a concerted effort by the student to manage their time wisely. The student should set up a weekly schedule of 2-3 hours of study to be successful in this course. Two to three hours per week is minimal time necessary for reading and doing homework assignments.

**NTCC Academic Honesty Statement:**

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

**Academic Ethics**

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

**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 Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website – Special Populations](#).

**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.

**6 Drop Rule:** "Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade of "W") from more than six courses. This six-course limit includes courses that a transfer student has previously dropped at other Texas public institutions of higher education if they fall under the law. Students should be sure they fully understand this drop limit before they drop a course. Please visit the admissions office or counseling/advising center for additional information and assistance."

**Campus Safety:** Northeast Texas Community College (NTCC) is committed to maintaining the safety of the students, faculty, staff, and guests while visiting any of our campuses. See NTCC's website for details and to receive emergency notifications automatically by phone. In the event of an emergency contact NTCC Police at 903-434-8127.