

ASTR 1346
Introductory Astronomy II: Stars, Galaxies & The Universe
Summer 2018

M Tu W 10:30 a.m. - 12:10 p.m. Science Hall 330

INSTRUCTOR: Dr. M. Cuntz, Professor
OFFICE: Chemistry and Physics Bldg. (New Planetarium), Rm 330
PHONE and E-MAIL: (817) 272-2467 and cuntz@uta.edu
OFFICE HOURS: “after class” OR by appointment, please send Email

TEXTBOOK: **Discovering the Universe, 10th Edition**
by N. F. Comins and W. F. Kaufmann

COURSE CONTENT: Nature of Light (Chapter 3, Sections 3-1 thru 3-4, 3.17)
Atomic Physics and Spectra (Chapter 4, Sections 4-1 and 4-8)
The Sun (Chapter 10, Sections 10-1 thru 10-11)
Understanding the Stars (Chapter 11, Sections 11-1 thru 11-13)
The Lives of Stars (Chapter 12, Sect. 12-1 thru 12-7, segments from sections beyond 12-7)
The Deaths of Stars (Chapter 13, segments from selected sections)
Black Holes (Chapter 14, segments from selected sections)
Milky Way (Chapter 15, Sections 15-1 thru 15-8)
Galaxies (Chapter 16, Sections 16-1 thru 16-14)
Quasars and Other Active Galaxies (Chap. 17, Sect. 17-1, 17-4 thru 17-7)
Cosmology (Chapter 18, Sections 18-1 thru 18-5, segments of sections beyond 18-11)

OBJECTIVES: Learn about light. Obtain essential knowledge about our sun, other stars, and galaxies. Explore the structure, formation, evolution, and distant future of our Universe. Contemplate our place in the Universe (from a science point-of-view).

EXAMINATIONS: **Test 1** will be held on July 24 (Tu), 2018
Test 2 will be held on August 08 (We), 2018
Final Exam will be held on August 13 (Mo), 2018

GRADING POLICY: **Each test** will be worth 20% of the final grade.
The **final exam** will be worth 30% of the final grade.
The **laboratory grade** will be worth 30% toward your grade.
You will be excused from the Final if the grades of Test 1 **and** Test 2 are 90% or higher. **NO EXCEPTIONS !!!**

LABORATORY GRADE: Must be **60 points** or more to pass the course!

There will be a detailed review prior to each test.

No make-up tests, unless arranged in advance and depending on circumstances*.

Even if agreed on, make-up tests will always have a **lesser number of extra-credit questions**.

You have to pass **both the class and the lab** in order to pass the course (See Memo).

*Accommodations will be provided for students with special needs (See additional information).

Additional Information

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD)**. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Title IX: *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos. For information regarding Title IX, visit www.uta.edu/titleIX.*

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

You must acknowledge adhering to the honor code by signing on the class roster, which will be circulated next week in the class. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

Violations to the academic integrity policy will result in ZERO on the work for which the Honor Code was NOT upheld.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at <http://www.uta.edu/universitycollege/resources/index.php>.

ASTR 1345 and 1346

Astronomy I / II

Instructor: Dr. M. Cuntz

Course Grade Policy: A student has to pass both the class and the lab in order to attain a passing grade for the course. This means that both the class grade and the lab grade must be 60 or higher, regardless of the grade average.

What happens when ...

... a student passes the class, but fails the lab.

Action: The student will receive an “I”.

... a student fails the class, but passes the lab.

Action: The student will receive an “F”.

... a student fails the class and fails the lab.

Action: The student will receive an “F”.

... a student passes the class and passes the lab.

Action: The student will receive an “A”, “B”, “C”, or “D”, as earned, depending on the overall average.