NS 206 - What is There in the Universe: Inside the Milky Way?

COURSE CONTENT:

The structures of the Milky Way starting from the solar system: Birth of the modern science Galileo - Copernican revolution. Earth and the planets. Stars and star clusters. How does a star shine - electromagnetic spectrum, blackbody radiation, spectral lines, Doppler shift. Stellar structure and evolution - HR diagram. End points of stellar evolution: stellar explosions- supernova -white dwarfs, neutron stars and black holes. Satellite observatories and space research.

TEXT BOOK:

E. Chaisson & S. McMillan, ASTRONOMY TODAY, 9th Edition (e-book)

Access code: From HOMER Bookstore, through the link below:

https://www.homerbooks.com/urun/astronomy-today-standalone-ebook

GRADING:

- Midterm Exam I
- Midterm Exam II
- Final Exam

You should take at least any two of these exams with 50 % weight for each. There is no make-up exam. For those who took all three exams, we will count the exams with the highest two grades to calculate the letter grade.

Questionnaires: 10 % (There will be 8-12 (or more) questionnaires which are given at random times in some of the lectures. In these questionnaires, you are asked simple questions and/or the points that you did not understand in the current subject, which provide a feedback for the instructor to clarify these points in the following lectures. This additional 10% could be considered as a bonus in your total grade. There won't be make up for the questionnaires that you fail to attend, even if you have reasonable excuses. To compensate for this, we do not count 3 of the questionnaires. (For instance, if 12 questionnaires are given in a particular semester, those who attend 9 (or more) get full 10 %). The questionnaires will be given in SUCourse. You should bring your own device to the classroom (mobile phone, ipad..) for you to submit your answers on-line. Only those who are

currently present in the class or in the on-line connection can attend the given questionnaire. **During the lectures you are allowed using electronic devices only for questionnaires.**

Your total grade is converted into letter grade as follows:

85 <u>- 100</u> : A	55 – 59: C
80 – 84: A-	50 – 54: C-
75 – 79: B+	45 – 49: D+
_70 − 74: B	40 – 44: D
65 – 69: B-	< 40 : F
60 – 64: C+	

Academic Integrity

In the exams each student will be evaluated only for her/his own work. Students are encouraged to work and study together. But what you put down on exam papers should be your own work in your own words. If your friends want to use of your paper in exams, assignments or quizzes, to allow this is not helping them. Such behavior, as all forms of cheating, is unfair and disrespectful, to yourself, to all the students in the class, to your teachers and teaching assistants, and to the university. A student involved in cheating has misused the trust extended to him or her. Violations of academic integrity will result in zero grades, both for those who cheat and those who allow and help them. These students may also face disciplinary action. In all such situations we will ask you to have a face-to-face meeting with your faculty member. We have mutual trust and respect for each other as individuals sharing in a collaborative learning experience. This is very valuable for all of us, and having to lose this trust and respect would be very regrettable.