Introductory Astronomy and Cosmology, Section 101 Phys 202–101 Fall 2017 Mondays, 06:00 p.m. to 09:05 p.m. Tiernan Hall, Room 106

Instructor

Dr. George E. Georgiou

Microelectronics Research Center, Room 207 (in bridge between FMH and ECE)

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973-596-5690

OFFICE HOURS: M 4-5:30 or after class or by appointment (send email)

Textbook

Primary on which class is based:

"Astronony" by A.Fraknoi, D.Morrison, S.Wolf ...

Downloadable Open Stax text: https://openstax.org/details/books/astronomy

Previous paper textbook: ANY EDITION will work for reading material

Jeffrey Bennett, Megan Donahue, Nicholas Schneider, and Mark Voit. *The Cosmic Perspective Fundamentals*, Second Edition. Pearson Education, Inc., United States of America, 2015.

Additional Reading (optional but may be interesting):

Neil deGrasse Tyson, J. Richard Gott and Michael A. Strauss, Welcome to the Universe, an Astrophysical Tour, Princeton University Press (2016)

Grade

Your final grade will be based upon class participation (15%), four examinations (15% each), and one Final Examination (30%). The examinations will be administered on the following dates.

Monday, September 25, 2017	(15%)
Monday, October 16, 2017	(15%)
Monday, November 13, 2017	(15%)
Monday, December 10, 2017	(15%)
Finals Week (Dec. 15-21)	(25%)
	Monday, October 16, 2017 Monday, November 13, 2017 Monday, December 10, 2017

There are no make-up examinations without a valid reason. The following table will determine your final grade.

80% to 100%	A
75% to 79%	B+
70% to 74%	В
65% to 69%	C+
50% to 64%	C
40% to 49%	D
0% to 39%	F

The examination grades will not be curved. In-class exams (closed book) will cover material including the week before. The Final Examination will cover the entire course's material.

Introductory Astronomy and Cosmology (Phys 202) and Introductory Astronomy and Cosmology Laboratory (Phys 202A) are two separate courses. You can be registered for either one of these courses without being registered for the other course.

Academic Integrity

Any student who is disruptive in the classroom or cheats during an examination, will be in violation of the Academic Honor Code and will be reported to the Dean of Student Services.

Syllabus (Chapters for reading refer to OpenStax Download text)

Monday	11-Sep	, , , ,
		Orbits and Gravity (Chapter Three)
Monday	18-Sep	Earth, Moon, and Sky (Chapter Four)
		Radiation and Spectra (Chapter Five)
Monday	25-Sep	Astronomical Instruments (Chapter Six)
		First Examination
Monday	2-Oct	Introduction to the Solar System (Chapter Seven)
		Earth and Other Cratered Worlds (Chapters 8 and 9)
Monday	9-Oct	Venus and Mars (Chapter Ten)
		Giant Planets, Rings, Moons (Chapters 11 and 12)
Monday	16-Oct	Comets, Asteroids, Samples (Chapters 13 and 14)
		Second Examination
Monday	23-Oct	The Sun (Chapters 15 and 16)
		Starlight and Stars (Chapters 17 and 18)
Monday	30-Oct	Distances. Gas & Dust in Space (Chapters 19 and 20)
		Star & Planet Formation (Chapter Twenty-one)
Monday	6-Nov	Stars' Adolescence to Old Age (Chapter Twenty-two)
		Death of Stars (Chapter Twenty-three)
Monday	13-Nov	Review of Chapters 15-23
•		Third Examination
Monday	20-Nov	Black Holes, Curved Spacetime (Chapter 24)
•		The Milky Way Galaxy (Chapter Twenty-five)
Monday	27-Nov	Galaxies (Chapter Twenty-six)
•		QSOs, Black holes, Galaxy Evolution (Chs. 27 & 28)
Monday	4-Dec	The Big Bang (Chapter Twenty-nine)
•		Review of Chapters 24-29
Monday	11-Dec	·
,		Review of Chapters 1-29
Thursday	14-Dec	Reading Day
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Final date to be announced (week of Dec 15-21)

Fall 2017 Calendar

September 5 Tuesday First Day of Class

September 11 Monday Last Day to Add/Drop a Class

September 18 Monday Last Day for 90% Refund, Full or Partial Withdrawal –

NO refund for partial withdrawal after this date

October 2 Monday Last Day for 50% Refund, Full Withdrawal

October 23 Monday Last Day for 25% Refund, Full Withdrawal

November 6 Monday Last Day to Withdraw

November 21 Tuesday Thursday Classes Meet

November 22 Wed. Friday Classes Meet

November 23-26 Thanksgiving Recess (Thursday – Sunday)

December 13 Wed. Last Day of Classes

December 14 Thursday Reading Day

December 15-21 Final Exam Period (Friday - Thursday)

December 23 Saturday Final Grades Due