

Introductory Astronomy and Cosmology, Section 101

Phys 202–101

Fall 2018

Tuesdays, 6-9 p.m. Tiernan Hall, Room 113

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: T 4-5:30 or after class or by appointment (send email)

Textbook

Primary on which class is based:

“Astronomy” 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 (10%), four examinations (15% each), and one Final Examination (30%). The examinations will be administered on the following dates.

First Examination	Tuesday, September 18, 2018	(15%)
Second Examination	Tuesday, October 9, 2018	(15%)
Third Examination	Tuesday, November 6, 2018	(15%)
Fourth Examination	Tuesday, December 4, 2018	(15%)
Final Examination	Finals Week (Dec. 15-21)	(30%)

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%	B
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)

Tuesday	4-Sep	Observing the Sky (Chapters 1 & 2) Orbits and Gravity (Chapter 3)
Tuesday	11-Sep	Earth, Moon, and Sky (Chapter 4) Radiation and Spectra (Chapter 5)
Tuesday	18-Sep	Astronomical Instruments (Chapter 6) First Examination
Tuesday	25-Sep	Introduction to the Solar System (Chapter 7) Earth and Other Cratered Worlds (Chapters 8 and 9)
Tuesday	2-Oct	Venus and Mars (Chapter 10) Giant Planets, Rings, Moons (Chapters 11 and 12)
Tuesday	9-Oct	Comets, Asteroids, Samples (Chapters 13 and 14) Second Examination
Tuesday	16-Oct	The Sun (Chapters 15 and 16) Starlight and Stars (Chapters 17 and 18)
Tuesday	23-Oct	Distances. Gas & Dust in Space (Chapters 19 and 20) Star & Planet Formation (Chapter 21)
Tuesday	30-Oct	Stars' Adolescence to Old Age (Chapter 22) Death of Stars (Chapter 23)
Tuesday	6-Nov	Review of Chapters 15-23 Third Examination
Tuesday	13-Nov	Black Holes, Curved Spacetime (Chapter 24) The Milky Way Galaxy (Chapter 25)
Tuesday	20-Nov	NO CLASS (Thursday Schedule)
Tuesday	27-Nov	Galaxies (Chapter Twenty-six) QSOs, Black holes, Galaxy Evolution (Chs. 27 & 28)
Tuesday	4-Dec	The Big Bang (Chapter Twenty-nine) Fourth Examination
Tuesday	11-Dec	Review Chapters 1-29

Last Day of Classes Dec 12, Reading Days Dec 13-14
Final date to be announced (week of Dec 15-21)

Fall 2018 Academic Calendar

September	4	Tuesday	First Day of Classes
September	10	Monday	Last Day to Add/Drop a Class
			Last Day for 100% Refund, Full or Partial Withdrawal
September	17	Monday	Last Day for 90% Refund, Full or Partial Withdrawal - No Refund for Part
October	1	Monday	Last Day for 50% Refund, Full Withdrawal
October	22	Monday	Last Day for 25% Refund, Full Withdrawal
November	12	Monday	Last Day to Withdraw
November	20	Tuesday	Thursday Classes Meet
November	21	Wednesday	Friday Classes Meet
November	22-25	Thurs-Sun	Thanksgiving Recess
December	12	Wednesday	Last Day of Classes
December	13-14	Thurs-Fri	Reading Days
December	15-21	Sat-Fri	Final Exams Week