

Introductory Astronomy and Cosmology
Phys 202–102
Spring 2018
Wednesdays, 06:00 - 09:05 p.m. FMH 213

Instructor

Dr. George E. Georgiou
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OFFICE HOURS: W 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:

Jeffrey Bennett, Megan Donahue, Nicholas Schneider, and Mark Voit. *The Cosmic Perspective Fundamentals*, 2nd Ed. Pearson Education, Inc., United States of America, 2015. – but ANY EDITION will work for reading material

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	Wednesday, January 31, 2018	(15%)
Second Examination	Wednesday, February 21, 2018	(15%)
Third Examination	Wednesday, March 28, 2018	(15%)
Fourth Examination	Wednesday, April 25, 2018	(15%)
Final Examination	Finals Week (May 4-10)	(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

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)

Wed.	17-Jan	Observing the Sky (Chapters One & Two) Orbits and Gravity (Chapter Three)
Wed.	24-Jan	Earth, Moon, and Sky (Chapter Four) Radiation and Spectra (Chapter Five)
Wed.	30-Jan	Astronomical Instruments (Chapter Six) First Examination
Wed.	7-Feb	Introduction to the Solar System (Chapter Seven) Earth and Other Cratered Worlds (Chapters 8 and 9)
Wed.	14-Feb	Venus and Mars (Chapter Ten) Giant Planets, Rings, Moons (Chapters 11 and 12)
Wed.	21-Feb	Comets, Asteroids, Samples (Chapters 13 and 14) Second Examination
Wed.	28-Feb	The Sun (Chapters 15 and 16) Starlight and Stars (Chapters 17 and 18)
Wed.	7-Mar	Distances. Gas & Dust in Space (Chapters 19 and 20) Star & Planet Formation (Chapter Twenty-one)

SPRING RECESS March 11-18

Wed.	21-Mar	Stars' Adolescence to Old Age (Chapter Twenty-two) Death of Stars (Chapter Twenty-three)
Wed.	28-Mar	Review of Chapters 15-23 Third Examination
Wed.	4-Apr	Black Holes, Curved Spacetime (Chapter 24) The Milky Way Galaxy (Chapter Twenty-five)
Wed.	11-Apr	Galaxies (Chapter Twenty-six) QSOs, Black holes, Galaxy Evolution (Chs. 27 & 28)
Wed.	18-Apr	The Big Bang (Chapter Twenty-nine) Review of Chapters 24-29
Wed.	25-Apr	Fourth Examination Review of Chapters 1-29
Wed./Th.	2-3 May	Reading Day

Final date to be announced (week of Dec 15-21)

Spring 2018 Calendar

January 16	Tuesday	First Day of Classes
January 22	Monday	Last day to Add / Drop Class. Last day to Withdraw with 100% Refund
March 11-18	Sun-Sun	SPRING RECESS – NO CLASSES (University Open)
March 30	Friday	Good Friday – NO CLASSES (University Closed)
April 2	Monday	Last day for Withdrawal
May 1	Tuesday	Last Day of Class, Friday Classes Meet
May 2-3	Wed. – Thurs.	Reading Days
May 4-10	Fri. – Thurs.	FINAL EXAM Period
May 12	Saturday	Final Grades Due.