

Astronomy 51/151: Astrophysics Laboratory

TENTATIVE COURSE AND READING SCHEDULE

Fridays, 9:00 - 11:30 am (CLIC 402)

Lecture 1	Friday	Jan. 21	Presentation of the course + questionnaire
-----------	--------	---------	--

Lecture 2	Friday	Jan. 28	Python tutorial
-----------	--------	---------	-----------------

Lecture 3	Friday	Feb. 4	Numerical Methods I: root finding
-----------	--------	--------	-----------------------------------

ASSIGNMENT 1A DUE FRIDAY, FEB. 11TH BEFORE CLASS BEGINS

Lecture 4	Friday	Feb. 11	Numerical Methods II: interpolation & extrapolation
-----------	--------	---------	---

ASSIGNMENT 1B DUE FRIDAY, FEB. 18TH BEFORE CLASS BEGINS

Lecture 5	Friday	Feb. 18	Numerical Methods III: integration
-----------	--------	---------	------------------------------------

ASSIGNMENT 2 DUE FRIDAY, FEB. 25TH BEFORE CLASS BEGINS

Lecture 6	Friday	Feb. 25	SNOW DAY - no lecture
-----------	--------	---------	-----------------------

Lecture 7	Friday	Mar. 4	Statistics I: probability, Bayes' theorem, probability distributions
-----------	--------	--------	--

ASSIGNMENT 3 DUE FRIDAY, MAR. 11TH BEFORE CLASS BEGINS

Lecture 8	Friday	Mar. 11	Numerical Methods IV: Bayesian inference, Monte Carlo generators, statistics and error analysis, random numbers
-----------	--------	---------	---

ASSIGNMENT 4 DUE FRIDAY, MAR. 18TH BEFORE CLASS BEGINS

Lecture 9	Friday	Mar. 18	Project 1: magnitudes/colors of stars
-----------	--------	---------	---------------------------------------

	Friday	Mar. 25	NO CLASS: Spring Break
--	--------	---------	------------------------

ASSIGNMENT 5 DUE FRIDAY, APR. 1ST BEFORE CLASS BEGINS

Lecture 10	Friday	Apr. 1	Project 1: magnitudes/colors of stars
------------	--------	--------	---------------------------------------

Lecture 11	Friday	Apr. 8	Project 2 / part A: measure the rotation curve of galaxy
------------	--------	--------	--

ASSIGNMENT 6 DUE FRIDAY, APR. 15TH BEFORE CLASS BEGINS

Lecture 12	Friday	Apr. 15	Project 2 / part B: measure the rotation curve of galaxy
------------	--------	---------	--

ASSIGNMENT 7 DUE FRIDAY, APR. 22ND BEFORE CLASS BEGINS

Lecture 13	Friday	Apr. 22	NO CLASS - Monday schedule (and Earth Day)
------------	--------	---------	--

ASSIGNMENT 8 DUE FRIDAY, APR. 29TH BEFORE CLASS BEGINS

Lecture 14	Friday	Apr. 29	Project 2 / part C: measure the rotation curve of galaxy
------------	--------	---------	--

ASSIGNMENT 9 DUE FRIDAY, MAY. 13TH BEFORE 11:59PM