8.13 Experimental Physics I

8.13 includes a three-week preliminary period, followed by work on three regular experiments and final presentations. The flow of the course, including key dates and assignments, is detailed in the list of **Modules**. The assignment and activities schedule in the course syllabus is summarized in the 8.13 Course Calendar at the bottom of the page. For 8.13 staff contact information, see 8.13 Teaching Team.

Preliminary Period

Class Session 1	Class Session 2	Class Session 3
Class Session 4	Class Session 5	Class Session 6

Exp005. Photoelectric Effect	Exp009. Michelson Interferometer

Regular Experiments

Exp01. Compton Scattering	Exp07. Franck-Hertz Experiment	Exp09. Relativistic Dynamics
Exp12. Pulsed NMR: Spin Echoes	Exp14. Speed and Mean Life of Cosmic-Ray Muons	Exp.15 Rutherford Scattering
Exp17. Optical Emission Spectra of Hydrogenic Atoms	Exp31. X-Ray Physics	Exp43. Johnson and Shot Noise
Exp46. 21-Centimeter Radio Astrophysics	Exp51. Optical Trapping	Exp56. CosmicWatch
ExpOD01. Gravitational Wave Detection	ExpOD02. Higgs Detection	

courseCalendar.pdf
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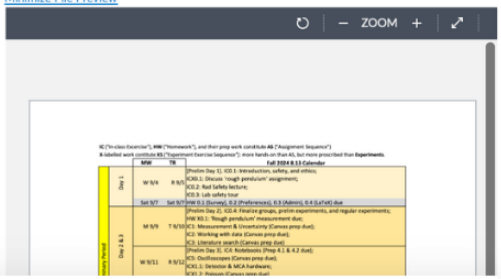


Introduction to American Politics

The course syllabus can be downloaded here .

The lectures for 17.20 are Thursdays 3–5pm in 56-114. Recitations are Tuesdays 4–5pm (56-180) or Thursdays 10–11pm (56-169).

Here is the teaching team's contact information and office hours schedule:

Contact information

Instructor	Email	Office	Office hours
Devin Caughey (professor)	caughey@mit.edu	E53-463	Thu 12:00–12:30
Preston Johnston (TA)	prhj@mit.edu	E53-420	Tues 2:05-3:30pm
Kim Vaeth (writing advisor)	kjvaeth@mit.edu	Zoom	Conference sign-up

The following pages contain information on the assignments and expectations for each week the semester (materials for Week 13 will be posted separately under Debates):

Weekly materials

WEEK 1	WEEK 2	WEEK 3	WEEK 4
WEEK 5	WEEK 6	WEEK 7	WEEK 8
WEEK 9	WEEK 10	WEEK 11	WEEK 12

For an expanded view of all content assigned in the week, make sure to check out modules.

Additionally, you can find below additional resources relating to each of the papers, debates, and general extraneous assignments throughout the semester:

Assignment information

SHORT PAPER #1	SHORT PAPER #2	LONG PAPER	DEBATES	NEWS REPORTS

Concentrating/minoring political science

MIT's undergraduate program in political science combines professional social science trainin with opportunities for a broad liberal arts education. Political Science is concerned with the systematic study of government and the political process. At MIT we have classes in these subfields: Political Theory, Political Economy, American Government, Public Policy, Internatio Relations, Comparative Politics, and Methods.

- **HASS concentration (3 subjects):** To make Course 17 your HASS concentration, you must take three political science subjects, including at least one upper-level subject. The three subjects must be connected based on a theme, subfield, or other basis.
- **Minor (6 subjects):** Course 17 is home to three minor program offerings: Political Science, Public Policy, and Applied International Studies. Each minor program comprises six subject You can use three of these subjects towards a concentration as well.

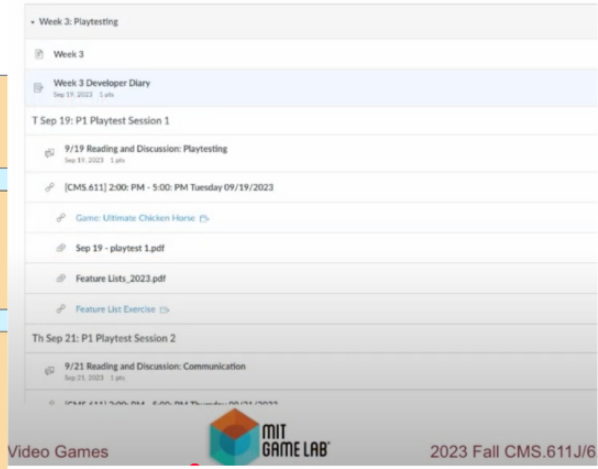
For more information on Course 17, contact the Political Science Undergraduate Administrat Dr. Kate Hoss.

Registering to vote

MIT partners with TurboVote—a non-profit website that seeks to increase voter turnout by helping its users register to vote, find polling places, and research election issues—to help students, faculty, and staff register to vote in local, state, and national elections, by mail or in person, whether they reside in Massachusetts or another state. It takes five minutes or less to

ES.A101: Hack Yourself: Data-driven Wellbeing and Learning

Before First Class	Welcome survey Install Python Favorite meme/gif/funny<whatever>
September 6, 2024 (Week 1)	The mind is a muscle
Between Weeks 1 and 2	VIA Strength assessment Positive introduction Weeks 1-2 reading Create Sigma account
September 13, 2024 (Week 2)	Motivation and strengths
Between Weeks 2 and 4	Sharing your positive introductions Strengths practice Optimism assessment Weeks 2-4 reading Weeks 2-4 optional reading
September 27, 2024 (Week 4)	Stress and resilience
Between Weeks 4 and 5	Best possible future self Apply the ABCs Weeks 4-5 reading
October 4, 2024 (Week 5)	Attention and active learning
Between Weeks 5 and 6	Goal setting exercise Weeks 5-6 reading
October 11, 2024 (Week 6)	Goals, satisficing, and learning differences
Between Weeks 6 and 7	Exchanging letters with your future self Weeks 6-7 reading Optional satisficing plan
October 18, 2024 (Week 7)	Habits, social media, and spaced learning
Between Weeks 7 and 8	Forming a new habit Weeks 7-8 reading
October 25, 2024 (Week 8)	Relationships
Between Weeks 8 and 9	Fostering high-quality connections Weeks 8-9 reading
November 1, 2024 (Week 9)	Teams



Week 1

Module Link

Tuesday: No class, nothing due.

Thursday:

- Syllabus
- We will go over some class logistics and introduce this year's game theme.
- We'd like to know more about you - take this survey!
- Game Analysis assignment - due Monday

Pages like this one will be released every Friday at 10:00 am EST to give a look ahead at next bulleted items under each day are due BEFORE the class on the day they pertain to. All of the found in the Modules tab for the associated week, linked in the Module Link at the beginning