Book Adoptions for SP 2019-20
Prepared Friday, March 13, 2020

This document lists the required and optional textbooks for Caltech courses offered during the SP 2019-20 term. Not all courses are listed. Only those courses for which the Registrar has solid information are listed.

This document is updated as more information comes in from instructors.

Please consult the Library Catalog (TIND) to view class course reserves. Course reserves are available in the Sherman Fairchild Library only. Reserve material is available for 3-hour checkout.

Changes in the last 7 days

AM/ACM 127
APh/Ph/Ae 116
Ae 105C
BEM104
Bi 009
ChE151B
En 186
Ge 121C
Ge 261
Ge 264
H 192
Hum/En 024
L 106C
L 106C
Ma 005C
Ma 105C
Ma 120C
Bi 009. Cell Biology.

Instructors: David Chan, David Prober

Required textbooks:

BEM104. Investments.

Instructor: Richard Roll

Required textbooks:
Zvi Bodie, Alex Kane, and Alan J. Marcus; Investments (11th edition), ISBN: 9781259277177

Ch 102. Introduction to Inorganic Chemistry.

Instructors: Ryan Hadt, Kimberly See

Required textbooks:

CS 038. Algorithms.

Instructor: Leonard Schulman

Suggested textbooks:

Instructor: Leonard Schulman

Suggested textbooks:

Notes for students:
Recommended but not required. 1 copy available online:

ECONOMICS

Ec 140. Economic Progress.

Instructor: Philip Hoffman

Required textbooks:

ELECTRICAL ENGINEERING

ENGLISH

En 114. Shakespeare's Career: Tragedies and Tragicomedies.

Instructor: George Pigman

Required textbooks:
En 134. The Career of Herman Melville.

**Instructor:** Cindy Weinstein

**Required textbooks:**
- Herman Melville; *Billy Budd, Bartleby, and Other Stories*, Penguin Classics, 2016. ISBN: 0143107607

En 186. The Novel of Education.

**Instructor:** Dehn Gilmore

**Required textbooks:**
- Dorothy Sayers; *Gaudy Night*,  . ISBN: 9780062196538
- Larkin, Philip; *Jill*,  . ISBN: 0879519614
- Amis, Kingsley; *Lucky Jim*,  . ISBN: 9780141182599
- Lodge, David; *Nice Work*,  . ISBN: 9780140133967
- Smith, Zadie; *On Beauty*,  . ISBN: 0143037749
- Schumacher, Julie; *Dear Committee Members*,  . ISBN: 9780385538138

**GEOLOGY**

Ge 001. Earth and Environment.

**Instructor:** Paul Asimow

**Required textbooks:**

**Notes for students:**
Please ensure that you get a copy of this book that has revisions made between the third and fourth printing of the 2nd edition.

Ge 121C. Advanced Field Geology.
Instructor: Joann Stock

**Suggested textbooks:**

- Compton, Robert; *Geology in the Field (paperback)*, Earthspun books, 2017. ISBN: 9781547118779

**Notes for students:**

Students can use the older version of Compton's book; there are plenty of copies in the GPS library.

---

**Ge 264. Machine Learning in Geophysics.**

Instructor: Zachary Ross

**Suggested textbooks:**


---

**HISTORY**

**H 138. The Way.**

Instructor: Maura Dykstra

**Required textbooks:**


---

**H 192. The Crusades.**

Instructor: Warren Brown

**Required textbooks:**

- Gabrieli, Francesco; *Arab Historians of the Crusades*, University of California Press, 1969. ISBN: 0520052242
HUMANITIES

Hum/En 024. The Scientific Imagination in English Literature.

Instructor: Dehn Gilmore

Required textbooks:
- McEwan, Ian; Enduring Love, ISBN: 9780385494144
- Stoppard, Tom; Arcadia, ISBN: 9780571169344
- Shakespeare, William; Tempest, ISBN: 9780393978193
- Marlowe, Christopher; Doctor Faustus, ISBN: 9780393977547

Hum/H 008B. Civilization, Science, and Archaeology: The Development of Science from Babylon through the Renaissance.

Instructor: Jed Buchwald

Required textbooks:

Hum/H 009B. European Civilization: Early Modern Europe.

Instructor: Philip Hoffman

Required textbooks:
LANGUAGES

L 102C. Elementary French.

Instructor: Christiane Orcel

Required textbooks:


Notes for students:

e-version also acceptable

L 106C (Section 1). Elementary Japanese.

Instructor: Megumi Fujio

Required textbooks:
Ritsuko Hirai; *First Year Japanese (6)*, Pearson, ISBN: 9781323419014

Ritsuko Hirai; *First Year Japanese Workbook (7)*, Pearson, ISBN: 9781323587829

L 106C (Section 2). Elementary Japanese.

Instructor: Megumi Fujio

Required textbooks:
Ritsuko Hirai; *First Year Japanese Workbook (7)*, Pearson, ISBN: 9781323587829

Ritsuko Hirai; *First Year Japanese (6)*, Pearson, ISBN: 9781323419014

L 170C. Introduction to Chinese.

Instructor: Xiangyun Wang

Required textbooks:

L 172C. Intermediate Chinese.

Instructor: Xiangyun Wang

Required textbooks:

MATHEMATICS

Ma 001C (Practical). Calculus of One and Several Variables and Linear Algebra.

Instructor: Matthias Flach

Required textbooks:
Jerrold E. Marsden,Anthony Tromba; Vector Calculus (6), W.H.Freeman, . ISBN: 978-1429215084

Ma 001C (Analytical). Calculus of One and Several Variables and Linear Algebra.

Instructor: Yi Ni

Required textbooks:

Notes for students:
1st edition (1965) ebook -

Ma 104. Introduction to Mathematical Chaos.

Instructor: Sarthak Parikh

Required textbooks:

Suggested textbooks:
Notes for students:
Both course textbooks (Alligood, Sauer, Yorke; Chaos: An Introduction to Dynamical Systems and Pesin, Climenhaga; Lectures on fractal geometry and dynamical systems) are available online via the Caltech library. Some copies will also be available at the Library Course Reserves. "Chaos: an introduction to dynamical systems" is available online: https://clsproxy.library.caltech.edu/login?url=http://dx.doi.org/10.1007/978-3-642-59281-2

MUSIC

Mu 139. History III: Music History from 1850 to the Present.
Instructor: Thomas Neenan

Required textbooks:
Ross, Alex; *The Rest Is Noise*, Picador, ISBN: 978-0312427719

Notes for students:
Frisch is available in various formats including Kindle from Sherman-Fairchild. Ross is an inexpensive paperback. You may be order to borrow used copies from other students who have taken Mu139 in the past. You must have access to both books in order to complete the work.

PHYSICS

Ph 001C (Analytical). Classical Mechanics and Electromagnetism.
Instructor: David Hsieh

Required textbooks:
Purcell, EM, Morin, DJ; *Electricity and Magnetism (3)*, ISBN: 978-1107014022

Ph 001C (Practical). Classical Mechanics and Electromagnetism.
Instructor: Jason Alicea

Required textbooks:
Serway, Raymond A., Jewett, John W.; *Physics for Scientists and Engineers (9th Edition)*, ISBN: 978-1133947271
Ph 002C. Waves, Quantum Mechanics, and Statistical Physics.

Instructor: Bradley Filippone

**Required textbooks:**

Ph 012C. Waves, Quantum Physics, and Statistical Mechanics.

Instructor: David Simmons-Duffin

**Required textbooks:**

Ph 106C. Topics in Classical Physics.

Instructors: Sunil Golwala, Nicholas Hutzler

**Required textbooks:**

**Suggested textbooks:**
Heald, Mark A., Marion, Jerry B.; *Classical Electromagnetic Radiation (3)*, Dover, 2012. ISBN: 978-0486490601

SOCIAL SCIENCE

SS 222C. Econometrics.

Instructor: Robert Sherman

**Required textbooks:**

VISUAL CULTURE

VC 169. The Arts of Dynastic China.

Instructor: Juliann Wolfgram
Required textbooks:


Suggested textbooks:


Notes for students:

These five texts are recommended for purchase. The course is actually a Zero Textbook Cost course.