This document lists the required and optional textbooks for Caltech courses offered during the SP 2015-16 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

ESE001
Ph 129C
SS 205C
ANTHROPOLOGY

An 022. Introduction to Sociocultural Anthropology.
Instructor: Jean Ensminger

Required textbooks:

APPLIED COMPUTATIONAL MATH
APPLIED PHYSICS

APh/MS 105C. States of Matter.
Instructor: Brent Fultz

Required textbooks:
Fultz, Brent; Phase Transitions in Materials (first), Cambridge University Press, 2014. ISBN: 978-1-107-06724-0

ART HISTORY

Art055. Art of the 19th Century.
Instructor: Shelley Bennett

Required textbooks:
ten-Doesschate Chu, Petra; Nineteenth-Century European Art (3rd), Prentice Hall, Jan. ISBN: 0205707998

ASTROPHYSICS

Ay 031. Writing in Astronomy.
Instructor: Lynne Hillenbrand

Required textbooks:
Hofmann, Angelika; Scientific Writing and Communication: Papers, Proposals, and Presentations, Oxford University Press. ISBN: 0199947562

Suggested textbooks:
Bioengineering


Instructor: David Baltimore

Required textbooks:

Bi 252. Responsible Conduct of Research.

Instructors: Elliot Meyerowitz, Paul Sternberg

Required textbooks:

Business, Economics, and Management

BEM/Ec 150. Business Analytics.

Instructor: Colin Camerer

Required textbooks:
Shmueli, Galit, Patel, Nitin R., Bruce, Peter C.; Data mining for business intelligence (2nd), Wiley and Sons, 2010. ISBN: 978-0470526828

BEM107. Applied Corporate Finance and Investment Banking.

Instructor: Bradford Cornell

Required textbooks:

Instructor: Jaksa Cvitanic

Required textbooks:

CHEMICAL ENGINEERING

ChE103C. Transport Phenomena.

Instructor: Mark Davis

Required textbooks:

ChE105. Dynamics and Control of Chemical Systems.

Instructor: John Seinfeld

Required textbooks:

CHEMISTRY

Ch 025. Introduction to Biophysical Chemistry: Thermodynamics.

Instructor: Douglas Rees

Required textbooks:

COMPUTER SCIENCE

CS 038. Introduction to Algorithms.

Instructor: Leonard Schulman
**Required textbooks:**
Cormen; *Introduction to Algorithms (3rd)*, 2010. ISBN: 9780262033848

**CS 101C. Special Topics in Computer Science: Introduction to Theoretical Cryptography.**

*Instructor:* Thomas Vidick

*Required textbooks:*

**CONTROL DYNAMICAL SYSTEMS**

**CDS270. Advanced Topics in Systems and Control: System Identification and Adaptive Control.**

*Instructor:* Eugene Lavretsky

*Required textbooks:*

**ECONOMICS**

**Ec/SS 130. Economic History of Europe from the Middle Ages to the Twentieth Centur.**

*Instructor:* Philip Hoffman

*Required textbooks:*

**ELECTRICAL ENGINEERING**

**EE 151. Electromagnetic Engineering.**

*Instructor:* Changhuei Yang
ENGLISH

En 085. Writing Poetry.

Instructor: Judith Hall

Required textbooks:

En 104. Imagining the Medieval in the Nineteenth Century.

Instructor: Benjamin Saltzman

Required textbooks:
Adams, Henry; Mont Saint Michel and Chartres, Penguin, ISBN: 0140390545
Twain, Mark; A Connecticut Yankee in King Arthur's Court, Dover, ISBN: 0486415910
Tennyson, Alfred Lord; Idylls of the King, Penguin, ISBN: 0140422536

Suggested textbooks:
Malory, Sir Thomas; Le Morte Darthur, Oxford World's Classics, ISBN: 9780199537341

En 118. Classical Mythology.

Instructor: Kristine Haugen

Required textbooks:
Aeschylus; Aeschylus II: The Oresteia (The Complete Greek Tragedies), tr. David Grene et al. (3rd), University of Chicago Press, 2013. ISBN: 978-0226311470
En 128. Modern and Contemporary Irish Literature.

**Instructor:** Kevin Gilmartin

**Required textbooks:**
- James Joyce; *Dubliners*, Penguin, . ISBN: 978-0140186475
- Elizabeth Bowen; *A World of Love*, Anchor, . ISBN: 978-1400031054
- Brian Friel; *Translations*, Faber and Faber, . ISBN: 978-0571117420
- Seamus Deane; *Reading in the Dark*, Vintage, . ISBN: 978-0375700231
- Roddy Doyle; *Paddy Clarke Ha Ha Ha*, Penguin, . ISBN: 978-0140233902

**Suggested textbooks:**

En 186. The Novel of Education.

**Instructor:** Dehn Gilmore

**Required textbooks:**
- Sayers, Dorothy; *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
- Ishiguro, Kazuo; *Never Let Me Go*, . ISBN: 9781400078776
- Schumacher, Julie; *Dear Committee members*, . ISBN: 0345807332
- Snow, C.P; *The Masters*, . ISBN: 9781842323233
ESE001. Introduction to Environmental Science and Engineering.

**Instructor:** Jared Leadbetter

**Required textbooks:**


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GEOLOGY

Ge 001. Earth and Environment.

**Instructor:** Paul Asimow

**Required textbooks:**


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**Instructors:** Konstantin Batygin, Heather Knutson

**Required textbooks:**


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HISTORY

H 108B. The High Middle Ages.

**Instructor:** Warren Brown

**Required textbooks:**


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HISTORY AND PHILOSOPHY OF SCIENCE

HPS/H 152. Renaissance Anatomy and Botany.

**Instructor:** Gideon Manning

**Required textbooks:**

HPS/H 160A. Einstein and His Generation: The History of Modern Physical Sciences.

Instructor: Diana Kormos-Buchwald

Required textbooks:


HPS/Pl 125. Philosophical Issues in Quantum Physics.

Instructor: Charles Sebens

Required textbooks:


HUMANITIES

Hum/En 006 (Section 2). American Literature and Culture.

Instructor: Catherine Jurca

Required textbooks:

West, Nathanael; *Miss Lonelyhearts and the Day of the Locust*, New Directions, paperback, ISBN: 9780811218221


Frederick Douglass; *Narrative of the Life of Frederick Douglass*, Dover, 1995. ISBN: 978-0486284996
Hum/En 007 (Section 1). Modern European Literature.

Instructor:

Required textbooks:

- Kafka, Franz; The Transformation (Metamorphosis) and Other Stories, Penguin, 1995. ISBN: 0140283366

Hum/En 007 (Section 2). Modern European Literature.

Instructor: Dehn Gilmore

Required textbooks:

- Mann, Thomas; Death in Venice and Other Tales, . ISBN: 9780141181738
- Lawrence, D.H.; The Prussian Officer and Other Tales, . ISBN: 9780140187809
- Woolf, Virginia; To The Lighthouse, . ISBN: 9780156907392
- Kafka, Franz; The Metamorphosis, . ISBN: 9780805210576
- James, Henry; The Turn of the Screw, . ISBN: 9781593080433

Hum/H 003A. European Civilization: The Classical and Medieval Worlds.

Instructor: Warren Brown

Required textbooks:

Hum/H 003B (Section 1). European Civilization: Early Modern Europe.

Instructor: Philip Hoffman

Required textbooks:

Hum/H 003C. European Civilization: Modern Europe.

Instructor: Diana Kormos-Buchwald

Required textbooks:

Hum/H 004B. The Development of Science from Babylon through the Renaissance.

Instructor: Jed Buchwald

Required textbooks:

Hum/PI 008 (Section 1). Right and Wrong.

Instructor: Aaron Mead

Required textbooks:
Hum/Pl 009. Knowledge and Reality.

Instructor: Charles Sebens

**Required textbooks:**


**LANGUAGES**

L 102C. Elementary French.

Instructor: Christiane Orcel

**Required textbooks:**


L 103C. Intermediate French.

Instructor: Christiane Orcel

**Required textbooks:**

Merimee, Prosper; *Carmen*, Larousse (Petits Classiques), 2008. ISBN: 978-2-03-583908-4

Merimee, Prosper; *La Venus d'Ille*, Larousse (Petits Classiques), 2010. ISBN: 978-8853605528

Camus, Albert; *L’Exil et le Royaume*, Gallimard (Collection Folio), 2000. ISBN: 2-07-036078-4

L 110C (Section 1). Elementary Spanish.

Instructor: Daniel Garcia

**Required textbooks:**

L 112C. Intermediate Spanish.
Instructor: Daniel Garcia

**Required textbooks:**

L 132C. Intermediate German.
Instructor: Andreas Aebi

**Required textbooks:**

L 167B. Latin Literature.
Instructor: George Pigman

**Required textbooks:**

L 170C. Introduction to Chinese.
Instructor: Xiangyun Wang

**Required textbooks:**

L 172C. Intermediate Chinese.
Instructor: Xiangyun Wang

**Required textbooks:**

Instructor: Trevor Merrill

**Required textbooks:**

- Denon, Vivant, trans. Lydia Davis; *No Tomorrow*, NYRB Classics, . ISBN: 1590173260

**MATHEMATICS**

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

Instructor: Matthias Flach

**Required textbooks:**


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

Instructor: Yi Ni

**Required textbooks:**

- Marsden Tromba; *Vector Calculus (6th)*, . . ISBN: 1429215089

**MATERIALS SCIENCE**

MS/ME 166. Fracture of Brittle Solids.

Instructor: Katherine Faber

**Required textbooks:**

Ma 005C. Introduction to Abstract Algebra.

**Instructor:** Christopher Ormerod

**Required textbooks:**


Ma 007. Number Theory for Beginners.

**Instructor:** Dinakar Ramakrishnan

**Required textbooks:**


Ma 107. Number Theory for Beginners.

**Instructor:** Dinakar Ramakrishnan

**Required textbooks:**


Ma 108C. Classical Analysis.

**Instructor:** Rupert Frank

**Required textbooks:**


Ma 109C. Introduction to Geometry and Topology.

**Instructor:** Vladimir Markovic

**Required textbooks:**

Ma 110C. Analysis, I.

Instructor: Vladimir Markovic

**Suggested textbooks:**
- Murphy, Gerald; *C*^*^*^*^*^* Algebras and Operator Theory*, 1990. ISBN: 0125113609

Ma 120C. Abstract Algebra.

Instructor: Pei-Yu Tsai

**Required textbooks:**
- Lang, Serge; *Algebra (Graduate Text in Mathematics) (3rd)*, 2002. ISBN: 038795385X

Ma 151C. Algebraic and Differential Topology.

Instructor: Yi Ni

**Required textbooks:**

Ma 157A. Riemannian Geometry.

Instructor: Tengren Zhang

**Required textbooks:**

Ma 160C. Number Theory.

Instructor: Matthias Flach

**Suggested textbooks:**
MUSIC

**Mu 029. Harmony II.**

**Instructor:** Thomas Neenan

**Required textbooks:**


**Mu 139. History III: Music History from 1850 to the Present.**

**Instructor:** Thomas Neenan

**Required textbooks:**

- Ross, Alex; *The Rest Is Noise (1)*, Picador, 2008. ISBN: 978-0312427719

PHILOSOPHY

**Pl/HPS 183. Bioethics.**

**Instructor:** Gideon Manning

**Required textbooks:**

- Kuhse, Helga, Schüklenk, Udo, Singer, Peter; *Bioethics: An Anthology (Third)*, , ISBN: 978-1118941508
- Glover, Jonathan; *Choosing Children: Genes, Disability, and Design (Uehiro Series in Practical Ethics)*, , ISBN: 978-0199238491

PHYSICS

**Ph 001C (Analytical). Classical Mechanics and Electromagnetism.**

**Instructors:** Yanbei Chen, David Hsieh

**Required textbooks:**

- Purcell, Edward, Morin, David; *Electricity and Magnetism*, , ISBN: 978-1107014022
Ph 001C (Practical). Classical Mechanics and Electromagnetism.

Instructor: Jason Alicea

Required textbooks:

Ph 002C. Waves, Quantum Mechanics, and Statistical Physics.

Instructor: Bradley Filippone

Required textbooks:

Ph 106C. Topics in Classical Physics.

Instructor: Sunil Golwala

Required textbooks:

Suggested textbooks:

PSYCHOLOGY

Psy015. Social Psychology.

Instructor: Damian Stanley

Required textbooks:
SS 201C. Analytical Foundations of Social Science.

Instructor: Federico Echenique

**Required textbooks:**

**Suggested textbooks:**

SS 222C. Econometrics.

Instructor: Robert Sherman

**Required textbooks:**