## Contents

- Introduction .................................................................................................................. 3
- Why access e-textbooks on Higher Education? ......................................................... 4
- Access options .............................................................................................................. 5
- Classical Studies ........................................................................................................... 6
- Computer Science ........................................................................................................ 7
- Earth & Environmental Science .................................................................................. 8
- Economics ..................................................................................................................... 9
- Engineering ................................................................................................................... 10
- History .......................................................................................................................... 11
- Language and Linguistics ............................................................................................ 12
- Law ............................................................................................................................... 13
- Life Sciences ................................................................................................................. 14
- Management ................................................................................................................ 15
- Mathematics and Statistics ......................................................................................... 16
- Medicine ....................................................................................................................... 17
- Philosophy .................................................................................................................... 18
- Physics & Astronomy .................................................................................................. 19
- Politics and International Relations ............................................................................ 20
- Psychology .................................................................................................................... 21
- Religion ........................................................................................................................ 22
- Sociology ....................................................................................................................... 23
- Contact Us ..................................................................................................................... 24
Introduction to Higher Education

Higher Education from Cambridge University Press is the home for our textbooks, shaped by extensive feedback from librarians, students and instructors. An innovative, fully integrated digital website, it provides users with easy, affordable access to textbooks, together with all available supplementary teaching and learning materials. It is built on the same technology as Cambridge Core with the aim of making searching across the full breadth of our publications easier than ever before.

Users can bookmark, annotate and highlight text, and navigate through personalized copies in a way that makes sense to them. There is also cut and paste (15% by word count) and print (15% by page count) functionality per e-textbook for each user. Content will automatically resize to display on mobile devices and can be read both on and offline using our e-reader app. Instructors also have access to a streamlined process for requesting examination copies.

Access is provided through an annual lease, either to individual titles or collections that will grow as new books are published. Leases allow for an unlimited number of concurrent users.

During the site’s first year, the number of textbooks grew from a few hundred to nearly 1,000. New, born-digital textbooks were and continue to be added as they’re published. In addition, some flat-HTML textbooks, and other full-functionality textbooks formerly withdrawn from sale, were moved onto the site.
Why access e-textbooks on Higher Education?

Cambridge University Press has introduced a new set of strategies to support the changing teaching and learning needs as higher education institutions prepare for a more digitally driven future.

The structure and function of the Higher Education website prioritises easy and continuous accessibility for all users, especially people with disabilities. Using the Web Content Accessibility Guidelines (WCAG) 2.1, which explain how to make web content more accessible for people with disabilities; an annual accessibility audit; and accreditation from the Digital Accessibility Centre, the site ensures all members of the higher education community share the same experience in reading and accessing academic content, so that libraries are better equipped to support all patrons.

Digitalisation of education has sharpened all our senses by offering a variety of content formats to choose from, including video and audio lessons, interactive texts and infographics, and many more.

Recent events have highlighted how important it is for students to access learning materials remotely, without always having to go through their institutional websites. A key development of this site is that students are now able to access books offline while they are travelling or at home by logging on with a laptop, mobile phone or tablet.

Valuable usage data, including COUNTER5 reporting, is available to librarians via their administrator accounts on Cambridge Core.

The Higher Education website collates our premium e-textbooks to benefit students, instructors, and librarians.

Benefits of Higher Education:

- Same user experience as Cambridge Core
- Search within the entire textbook
- Ideal for remote learning
- Annotate, bookmark pages and export citations
- Available online or offline on our Cambridge Spiral e-reader for Windows, iOS and Android
- Optional dual login to protect each user’s account and ensure personal annotations are kept on each e-textbook
- Users can download up to 20 e-textbooks to their own bookshelf to read offline
- Flexible access options
- Institutional access is available to the full collection, the HSS and STM collections, subject collections, or individual title-by-title selections
Access options

► Full collection

Access all available Cambridge textbooks, including new titles published during the lease period, with unlimited concurrent users.

► 19 subject collections

Access our subject collections including Humanities & Social Sciences; Science, Technology & Medicine; and 17 subject-specific groupings. These vary in quantity; all offer reduced prices per title. In addition, during the lease period, textbooks published in the subject will automatically be added to the subject collection.

► Title by title

This option offers the maximum flexibility and tiered pricing enables institutions of all sizes to be able to provide affordable textbooks.

► Special pricing for customized collections

We can match titles against your institution’s reading list, if applicable, and offer reduced pricing for bundles of more than 5 textbooks.
Within the Classical Studies collection textbooks explore art and archaeology, Greek philosophy, reading Latin and Greek, the origins of Christianity and classical literature including the works of Homer and Virgil.

Topics include:

- Ancient History
- Ancient Philosophy
- Classical Art and Architecture
- Classical Languages

Featured Titles:

- Reading Ovid
- Greek Lyric
- Learn Latin from the Romans

Proportion of textbooks

- 80% Advanced undergraduate level
- 20% introductory textbooks
Understanding. Programming tutorials are offered on the book’s website.

Concepts. Every chapter includes worked examples and exercises to test mathematical background, these derivations provide a starting point to machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning models.

Prerequisites. This self-contained textbook bridges the gap between mathematical and machine science students, or professionals, to efficiently learn the mathematics. This book teaches the mathematics that underpin machine learning.

Applications. Machine learning is taught in disparate courses, making it hard for data science or computer science students to acquire a deep understanding of machine learning foundations.

"The field of machine learning has grown dramatically in recent years, and there is a need for a comprehensive text that covers the key mathematical concepts that underpin many of the most successful machine learning applications. This book is an excellent choice for such a text as it covers both the key mathematical foundations and provides a comprehensive overview of the most advanced topics. I strongly encourage students, colleagues, and researchers in the field of machine learning to read it and utilize it.

Christopher Bishop, Microsoft Research Cambridge, UK

This book provides great coverage of all the basic mathematical concepts for a whole host of machine learning algorithms I normally teach in my course. I also like the style of presentation which is clear and to the point.

Pieter Abbeel, University of California, Berkeley

This book covers the key topics for understanding machine learning. After reading this book, students will be able to understand the basic underlying mathematics to make cutting-edge research in machine learning.

Duncan Coutts, University of Edinburgh, UK

It is a difficult task to create a textbook that has the breadth of content to cover all the necessary topics while remaining self-contained in a single volume. I think this book does an excellent job of covering all the key topics from the needed background up to the latest developments in machine learning in a clear and concise way. I think this book is a valuable resource for students and researchers.

Ralf Herbrich, Amazon, UK

I've used this book as a solid background for many of my students. Although the book covers the basic mathematical concepts, it also provides a comprehensive overview of the most advanced topics. The book is very well written, and I highly recommend it to anyone who has been thinking about learning the mathematics behind machine learning.

Tony Jebara, Columbia University, USA

The book is a comprehensive introduction to machine learning, covering both the basic concepts and advanced topics. It is a valuable resource for students, researchers, and professionals who want to learn the mathematics behind machine learning.

Mark Hansen, University of California, Berkeley, USA

I would highly recommend this book to anyone looking to learn the mathematics behind machine learning. It is a well-written, well-organized, and comprehensive introduction to the field.

Richard Socher, Stanford University, USA

This book is a great resource for anyone looking to learn about machine learning. It covers all the necessary mathematical concepts in a clear and concise way. I highly recommend it to students, researchers, and professionals.

Yoshua Bengio, University of Montreal, Canada

The book is very well written, and I highly recommend it to anyone looking to learn the mathematics behind machine learning.
In the Earth and Environmental Sciences collection, our textbooks examine applied geoscience, petroleum and mining, geophysics, hydrology, planetary science and astrobiology, palaeontology, geomorphology and physical geography, sedimentology, stratigraphy and structural geology.

Topics include:

- Climate
- Environmental Policy, Economics and Law
- Geochemistry and Environmental Chemistry
- Oceanography and Marine Science

Featured Titles:
- 100% Clean, Renewable Energy and Storage for Everything
- Weather: A Concise Introduction
- Planetary Geoscience

Proportion of textbooks
- 40% undergraduate level
- 30% undergrad/graduate level
- 30% graduate level
Economics

Titles in the Economics collection explore econometrics and mathematical methods, finance and accountancy, natural resource and environmental economics.

Topics include:

- Economic Theory
- Macroeconomics and Microeconomics
- International Economics
- Industrial Economics

Featured Titles:

- Game Theory (2nd Edition)
- Cost-Benefit Analysis (5th Edition)

Proportion of textbooks

Most of the Economic textbooks are higher-level: upper-level undergrads and graduate students.
Engineering

Our cutting-edge Engineering collection spans aerospace engineering, biomedical engineering, chemical engineering, electrical engineering, mechanical engineering, and materials science.

Topics include:

- Communications, information theory, and signal processing
- Energy technology
- Solid mechanics and materials
- Control theory and optimization

Featured Titles:
- Biodesign
- Machine Learning Refined
- Thermodynamics

Proportion of textbooks
Focused on senior and senior/graduate crossover, with a growing number of junior-level titles.
History

In the History subject collection, our textbooks explore a wide range of time periods, countries and cultures including African, British, Australian, East Asian, European, Russian and Latin American History. The collection also includes texts on regional and world history, the history of science and technology, colonialism, global economy, monarchies, gender and politics.

Topics include:

- Economic History
- Global History
- History of Ideas and Intellectual History
- War & Military History

Featured Titles:

- The Cambridge History of Warfare (2nd Edition)
- Reversing Sail (2nd Edition)
- A History of East Asia

Proportion of textbooks

Most of our History textbooks are for undergraduate, with some titles suited to more in-depth for graduates.
Language and Linguistics

Textbooks in Language and Linguistics collection explore languages and syntax from across the globe including Asian, English and European language and linguistics. The textbooks also cover computational linguistics, historical language changes, psycholinguistics and neurolinguistics, semantics and pragmatics, sociolinguistics and language in society.

Topics include:

- Discourse Analysis
- Grammar and Syntax
- Morphology
- Phonetics and Phonology

Featured Titles:

- The Study of Language (7th Edition)
- An Introduction to Communication
- Languages of the World

Proportion of textbooks
Grad-level series: CTL (20%)
Grad-level stand-alones: (20%)
Undergrad series: CILL, CIEL, CIAL (40%)
Undergrad stand-alones: (20%)
Law

Textbooks in the Law collection examine numerous types of practice including corporate and criminal law, environmental law, family law, humanitarian law, trade law, medical law, public and property law. In addition, several titles discuss intellectual property, jurisprudence, technology, science and communication, legal skills and practice.

Topics include:

- Equity and Trusts
- Human Rights
- Legal history
- UN and International Law

Featured Titles:
- European Union Law
- International Law
- Principles of Property Law

Proportion of textbooks
- 80% upper level
- 20% introductory undergraduate
Life Sciences

Titles in the Life Sciences collection explore bioengineering, cell and developmental biology, evolutionary biology, genomics, systems biology, molecular biology, biochemistry, agriculture, horticulture, neuroscience, physiology and biological physics, plant sciences, quantitative biology, biostatistics and mathematical modelling and zoology.

Topics include:

- Animal Behaviour
- Biotechnology
- Ecology and Conservation
- Microbiology and Immunology

Featured Titles:
- Phycology
- The Fundamentals of Horticulture
- Dinosaurs

Proportion of textbooks
- 80% upper level
- 20% introductory
Management

Our extensive list of Business and Management textbooks covers topics in business ethics, entrepreneurship and innovation, international business, marketing, data science, strategy, organization studies and research methods, among many others. Our textbooks are used across a range of advanced undergraduate, graduate, and MBA courses, and are rigorously designed to meet the needs of instructors and students.

Topics include:

- International Business
- Strategy
- Finance
- Organisational Studies

Featured Titles:
- Management Across Cultures
- Transnational Management
- Entrepreneurial Finance

Proportion of textbooks
90% MBA or master’s level
10% undergrad or practitioner
Mathematics and Statistics

Our textbooks list in mathematics covers pure and applied mathematics, ranging from first year math for liberal arts courses to graduate level textbooks. We also publish textbooks in statistics, with applications to a broad range of disciplines.

Topics include:

- Real and Complex Analysis
- Discrete Mathematics
- Optimization
- Actuarial Mathematics

Featured Titles:

- Introduction to Probability
- Linear Algebra
- A First Course in Analysis

Proportion of textbooks

10% Introductory
90% advanced/graduate
Our Medicine textbooks cover a wide range of disciplines.

Topics include:

- Epidemiology, Public Health and Medical Statistics
- Medical Law, Ethics and Forensic Medicine
- Nursing and Midwifery

Featured Titles:

- Public Health
- Essential Epidemiology
- An Introduction to Community and Primary Health Care

Proportion of textbooks

Applicable for both undergraduate and postgraduate: 71%

Undergraduate: 17%

Higher-level: 12%
In the Philosophy collection our textbooks explore non-western philosophy, politics, cognitive science, model theory, metaphysics, decision theory, economics, public policy, feminism, healthcare ethics and business ethics.

Topics include:

- Epistemology and Metaphysics
- Classical Philosophy
- Ethics & Logic
- History of Philosophy

Featured Titles:

- Descartes: Meditations on First Philosophy
- Introduction to the Philosophy of Logic
- Introduction to Feminism

Proportion of textbooks
90% Upper undergraduate and graduate texts
10% introductory for beginner undergraduates
In the Physics and Astronomy collection, our textbooks explore biological physics, computational physics, condensed matter physics, mathematical physics, photonics, particle physics, plasma physics, quantum physics, general relativity, planetary geoscience and stars and stellar process.

Topics include:

- Cosmology and General Relativity
- Quantum Physics
- History, Philosophy and Foundations of Physics
- Particle Physics and Quantum Field Theory

Featured Titles:

- A First Course in Network Science
- Introduction to Quantum Mechanics
- Foundations of Astrophysics

Proportion of textbooks

10% Introductory
90% Higher-Level
The third edition of the best-selling *The Fundamentals of Political Science Research* by Sean Gailmard, University of California–Berkeley, provides an introduction to the scientific study of politics. It offers the basic tools necessary for readers to become both critical consumers and beginning producers of modern research methods in political science in an integrated manner, and those foundations lie in research methods. In *The Fundamentals of Political Science Research*, Kellstedt and Whitten do a masterful job of capturing the full complexity of modern research methods and the field of Black Studies, and other social science and humanities disciplines, this textbook offers enhanced by end-of-chapter questions and author biographies. Written for the interdisciplinary working in the field, and a list of further readings is provided. Individual chapters are then together the writings and discourses central to black political thought and African American politics, compiling a unique anthology of speeches and articles from over 150 years of thinking. Each of the six thematic parts is framed by an introduction written by black scholars as slavery, reconstruction, race and racism, Black Nationalism, and Black Feminism – from a count of how these issues have fundamentally shaped, and continue to shape, black political range of perspectives – students are equipped with a comprehensive and informative ac-

**Featured Titles:**

- The Fundamentals of Political Science Research
- Black Political Thought
- Decision-Making in American Foreign Policy

**Proportion of textbooks**

Most of our Politics textbooks are intermediate and upper-level undergraduate texts, so undergraduate level and above.
Psychology

In the Psychology collection, our textbooks explore biological psychology, cognition, history, educational psychology, LGBTQ+, substance use disorder, multimedia learning, addiction, prejudice and mental health.

Topics include:

- Developmental Psychology
- Health and Clinical Psychology
- Research Methods
- Social and Behavioural Sciences

Featured Titles:

- Cognitive Science
- An Introduction to Clinical Psychology
- Statistics for the Social Sciences: A General Linear Model Approach

Proportion of textbooks

Most of our textbooks are used for undergraduate courses, but there are many titles that can be used in both undergraduate and graduate courses.
Religion

Titles in our Religion collection explore theology, the origins of Christianity, syntax, medieval heresies and sacred religious texts.

Topics include:

- Buddhism
- Judaism
- Islam
- The Old and New Testament

Featured Titles:

- An Introduction to the New Testament and the Origins of Religion
- An Introduction to Indian Philosophy
- An Introduction to Chinese Philosophy
In the Sociology collection, our textbooks explore democracy, social theory, gender, science, medicine, social work, case study research, criminal law, community development, psychology of the internet and human rights.

Topics include:

- Criminology
- Sociology of Gender
- Politics of the European Union
- Race and Ethnicity

Featured Titles:

- Fundamentals of Criminological and Criminal Justice Inquiry
- Crime Prevention
- Community Development in an Uncertain World

Proportion of textbooks

- 80% undergraduate
- 20% graduate
Contact us

For further information please read our Frequently Asked Questions here: cambridge.org/highereducation/services/librarians/faq/

Contact your sales representative today at:

Americas: online@cambridge.org

Rest of world: library.sales@cambridge.org

cambridge.org/highereducation