

# OER Index

This OER index provides a selection of recent, high quality OER of varying content types (including articles, podcasts, presentations and textbooks), which are potentially relevant to TUS staff and students.

OER, Open Educational Resources, are teaching, learning and research materials which are licensed to permit no-cost access, re-use, re-purpose, adaptation, and redistribution by others. OER are therefore sustainable and accessible anywhere, to anyone, for free.

This index is organised thematically using an A-Z listing and then by content type. We welcome your feedback on this index via [email](#).

This document provides an accessible and searchable version of the index which can be used with assistive technology.

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## Academic Writing

**See also:** [Professional Development](#), [Communication](#), [Research Methods](#)

### Writing spaces: readings on writing

Each book series contains peer-reviewed collections of essays, composed by teachers for students. Writing Spaces also offers an Activities and Assignments Archive. Editorial information is provided on the website.

Date published: various | Content Type: Book series | License: [CC-BY-NC-ND 4.0](#)

### Choosing and using sources: a guide to academic research, 1st Canadian edition

This book features engaging graphics, compelling examples, and easy-to-understand explanations to support students in completing research-based writing assignments and projects. Published by staff from the Ohio State University.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Good ideas about writing

This textbook, created by college students for college students, provides advice and guidance for writing successfully, both in school and in life. Sections dedicated to writing, writers, style, assessment, and teaching cover a range of timely topics and helpful strategies for re-thinking your relationship to writing and your identity as a writer.

Published by Kean University, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Research and writing skills for academic and graduate researchers

This text supports students and academics who wish to develop skills to assist them on their research journey, from the beginning stages of searching the literature and developing a research proposal, to writing and presentation skills, and on to managing their researcher profile and finding evidence of their research impact. Published by RMIT University Library.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Read, think, write : writing in university

Read, Think, Write provides instruction in writing, reading, critical thinking, research, and study skills. Through an easy-to-follow, step-by-step approach, it leads students from a wide range of levels and abilities to success in writing the essays required in most university disciplines. With an emphasis on process, this textbook encourages students to develop their own individual methods that will allow them to tackle writing tasks with confidence. Published Athabasca University, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### The media and communications study skills student guide

All the tips, ideas and advice given to, and requested by, MA students in Media and Communications, are brought together in an easy-to-use accessible guide to help students study most effectively. Published by the University of Westminster Press, UK.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Academic writing guide

The Academic Writing Guide (AWG) is designed to familiarise you with the process of writing a discursive essay. A discursive essay is a genre of writing that requires you to investigate a topic; collect, generate, and evaluate evidence; and establish a position on the topic in a concise manner. Once you have decided on your position your writing will be an attempt to persuade your reader that it is a reasonable one to take. The pages in this guide will present information and activities designed to help you develop the skill of argumentation, which as well as being the main feature of discursive writing, underpins every aspect of university study. Shared by the University of Sussex, UK.

Date published: no information available | Content Type: Variety of materials | License: [CC-BY-NC-ND](#)

### Academic integrity repository

“Academic Integrity Repository” OER provides a learning experience involving different aspects of plagiarism and shares best practices in academic writing along with sample exercises drawn from life-science based courses and cutting edge laboratory techniques offered in a Canadian University. Created by University of Windsor, Canada.

Date published: 2023 | Content Type: Website | License: [CC-BY-SA](#)

## Accounting (Auditing, Taxation)

See also: [Finance and Financial Markets](#)

### Challenges in advanced management accounting

Learning outcomes: understand and describe strategic management accounting; make decisions based on customer profitability using activity costing; and incorporate risk and uncertainty in project appraisal. Course duration is 15 hours. Shared by the Open University.

Date published: 2018 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Introduction to bookkeeping and accounting

Learn about the essential numerical skills required for accounting and bookkeeping. This free course, Introduction to bookkeeping and accounting, explains the fundamental rules of double-entry bookkeeping and how they are used to produce the balance sheet and the profit and loss account. Course duration is 8 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Liquidity management

Learning outcomes: understand the nature of liquidity risk; understand methods that can be used to measure exposure to liquidity; review how organisations manage their exposure to liquidity risk; appreciate how liquidity risk can be managed through the effective structuring of assets (particularly liquid assets) and liabilities (particularly debt liabilities); understand methods employed by banks and other financial institutions to manage their liquidity. Course duration is 7 hours. Shared by the Open University.

Date published: 2016 | Content Type: Course | License: [CC-BY-NC-SA](#)

### The accounting finance & governance review

The Accounting Finance & Governance Review, formerly the Irish Accounting Review, is the official journal of the Irish Accounting and Finance Association, has been published since 1994. In addition to its unique Irish emphasis, it has always had a significant international focus, in both its editorial board and in the source of papers it has published.

Date published: 1994-current | Content Type: Journal | License: [CC-BY-NC 4.0](#)

### Intermediate financial accounting – volume 1

This undergraduate textbook provides a review of introductory accounting concepts covering all topics essential to a first level Intermediate Accounting course. It reflect current International Financial Reporting Standards (IFRS). It was developed by Athabasca University, Canada and Lyryx.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Intermediate financial accounting – volume 2

This undergraduate textbook is intended for the second of two in Intermediate Financial Accounting courses. It reflects both current International Financial Reporting Standards (IFRS) and ASPE. It was developed by Athabasca University, Canada and Lyryx.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Principles of accounting volume 1 financial accounting

This textbook covers the fundamentals of financial and managerial accounting. Due to the comprehensive nature of the material, we are offering the book in two volumes. This book is specifically designed to appeal to both accounting and non-accounting majors. Each chapter opens with a relatable real-life scenario for today's college student. Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Principles of accounting volume 2 managerial accounting

This textbook covers the fundamentals of financial and managerial accounting. Due to the comprehensive nature of the material, we are offering the book in two volumes. This book is specifically designed to appeal to both accounting and non-accounting majors. Each chapter opens with a relatable real-life scenario for today's college student. Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Principles of strategic management accounting

This textbook explains the economic and sociological principles that underpin the use of strategic management accounting practices in organisations. Each chapter of the first part starts with a gentle, conversational introduction to the insights of one strand of academic literature and applies the insights to modern performance measurement and evaluation practices. Published by University of Western Australia.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC](#)

### Financial and managerial accounting

is book is described by the author as being uniquely constructed to integrate reading, video tutorials, links and practice to make learning... dare I write it... FUN! OK, maybe that's overstating a bit, but this is not your typical accounting text. Published by Lolita Paff, Pennsylvania State University, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Principles of accounting volume 1 financial accounting

Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting.

Due to the comprehensive nature of the material, we are offering the book in two volumes.  
Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Principles of accounting volume 2 managerial accounting

Principles of Accounting is designed to meet the scope and sequence requirements of a two-semester accounting course that covers the fundamentals of financial and managerial accounting. Due to the comprehensive nature of the material, we are offering the book in two volumes.  
Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Addiction Studies

See also: [Community Development](#), [Mental Health Nursing](#), [Social Care](#), [Psychology](#)

### What causes addiction, and why is it so hard to treat?

Ted Ed Animation. Why are some people more susceptible to addiction, and why can it be so difficult to treat? Judy Grisel takes a look at how addictive drugs affect the body. This video was created by Judy Grisel, Professor of Psychology, Researcher in Neuroscience and Addiction, Bucknell University, US.

Date published: 2024 | Content Type: Animation | License: [CC-BY-NC-ND](#)

### Associations and mediating factors between adverse childhood experiences and substance use behaviours in early adulthood: a population-based longitudinal study.

This article found that children who have experienced adverse childhood experiences are at higher risk of future substance use and problematic drug use. In supporting these children, identified mediators such as interpersonal relationships and school engagement may help guide selection of prevention interventions. Published in Addictive Behaviors, by researchers from Irish institutions.

Date published: 2025 | Content Type: Article | License: [CC-BY 4.0](#)

### Community-based outreach treatment for addictions and concomitant disorders: time for a change of paradigm

This eBook is a collection of articles from a Frontiers Research Topic. Content includes: Specific factors of treatment influencing efficacy; Evaluation of different treatment models; Challenges involved implementing treatment programs; Community health service organization; Recovery oriented community treatment; Treatment offers for non-SUD addiction; Evaluation of needs; and Reduction social consequences of severe mental disorders.

Date published: 2020 | Content Type: Article Collection | License: [CC-BY 4.0](#)

### **Psychology of addiction: discussion and essay questions**

This concise resource listing of essay questions and discussion prompts has been shared by CUNY City College, US.

Date published: 2022 | Content Type: Essay Questions | License: [CC-BY 4.0](#)

### **Addictions counselling essentials**

This book is a collaboration between a group of educators with extensive experience in the addictions field. Our aim is to provide a meaningful resource for those who are training to become certified professionals in the field of addictions counseling and recovery. The book includes HSP activities. Published by the College of DuPage Digital Press.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Drug use and misuse: a community health perspective**

This book provides students with an introduction to the biological, psychological, and legal aspects of drug use and misuse through the lens of community health and discusses the impact of drug use and misuse on community health. Published by University of Illinois at Urbana-Champaign, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### **Foundations of addiction studies**

This book introduces key terminology and research to help you define, discuss, diagnose, and deal with this the issue of addiction. College of DuPage, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Pathways to recovery and desistance**

Putting forward a new recovery roadmap and new reform models for prisoners reintegration, Best provides an accessible guide for the implementation of community partnerships for people in recovery from substance abuse or rehabilitating from offending. Using case studies and a strengths-based approach the book emphasizes the importance of long-term recovery and the role that communities and peers play in the process. Published by University of Bristol, UK.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC](#)

### **Everything you think you know about addiction is wrong**



This TED Talk by the author Johann Hari is deeply personal of how he has watched loved ones struggle to manage addictions which led him to question addiction treatments and unearth some surprising and hopeful ways of thinking about an age-old problem. Duration is 14 minutes.

Date published: 2015 | Content Type: Video | License: [CC-BY-NC-ND](#)

### Addiction is a disease. We should treat it like one

A former Director of National Drug Control Policy, Michael Botticelli is working to end this epidemic and treat people with addictions with kindness, compassion and fairness. In a personal, thoughtful talk, he encourages the millions of Americans in recovery today to make their voices heard and confront the stigma associated with substance use disorders.

Date published: 2014 | Content Type: Video | License: [CC-BY-NC-ND](#)

## Agricultural Science (Farming)

See also: [Environmental Science](#), [Sustainability](#), [Biovertebrary Science](#), [Mathematics for Engineering and Science](#)

### Geographic information system (GIS) tutorial

Learn how to read and interpret maps and data and use basic cartography principles to create maps that can be used in reports and presentations and work through an exercise using ArcGIS Pro or QGIS. Features presentations, workshop materials and data. Created by MIT.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC 4.0](#)

### Our world in data

This website provides a rich source of international data relating to food and agriculture. Use the browse option to access this content. Our World in Data is a project of Global Change Data Lab, a nonprofit based in the UK.

Date published: 2025 | Content Type: Data | License: [CC-BY 4.0](#)

### Irish journal of agricultural and food research

This peer reviewed open access scientific journal is published by Compuscript on behalf of Teagasc (Agriculture and Food Development Authority, Ireland). Manuscripts on any aspect of research of direct relevance to Irish agriculture and food production, including plant and animal sciences, food science, agri-environmental science, soils, engineering, buildings, economics and sociology, will be considered for publication.

Date published: No information available | Content Type: Journal | License: [CC-BY-NC-SA](#)

### Agriculture and land use

This is the second edition of the Green Technology book by the World Intellectual Property Organization (WIPO). It illustrates how innovation, technology and intellectual property are at the forefront of climate change mitigation. Chapter three of this report focuses on agriculture and land use highlighting a broad range of technologies and solutions aiming to mitigate climate change.

Date published: 2023 | Content Type: Report | License: [CC-BY](#)

### The art and science of teaching agriculture: four keys to dynamic learning

The Art and Science of Teaching Agriculture: Four Keys to Dynamic Learning is a 240-page methods of teaching book. Specifically, it is a collection of thoughts, best practices, strategies, and techniques for planning, delivering, and assessing teaching and learning. This resource is assembled from among the best teaching professors in agricultural communication, education, and leadership in America. The authors offer the opportunity to build confidence in planning, delivering, and assessing the depths of the variables inherent in learning for secondary and postsecondary educators in both formal and nonformal educational environments.

Date published: 2023 | Content Type: Report | License: [CC-BY](#)

### Soil textbooks and manuals

Texts include: Building Soils for Better Crops, Introduction to Soil Science Laboratory Manual and Principles of Soil Science Exercise Manual. Shared by LibreTexts.

Date published: Various | Content Type: Textbooks | License: Various

### Getting organized: business organization and succession planning for Oregon family farms and ranches

This guide provides foundational education for farm and ranch families on how to create a basic business succession and estate plan. In working with farm families, we have identified four fundamental goals for the farm succession planning process: (1) preserving family relationships, (2) strengthening the farm business, (3) protecting the owners and operators from business disruptions, and (4) minimizing the complexity and expense of succession and estate plans. Published by Oregon State University.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

## Anatomy (Physiology)

### Anatomy quizbook

The Anatomy Quizbook is an interactive learning book that will help students and tutors – indeed anyone interested in anatomy – learn, test and improve their knowledge of the human body. Readers are presented with carefully selected questions and diagrams addressing core learning in clinically-relevant anatomy. This selective rather than exhaustive approach will especially suit time-poor scholars. Regular self-testing will also ensure a robust and strategic understanding of the subject matter. Published by the University of Technology, Sydney.

Date published: 2019 | Content Type: Quizbook | License: [CC-BY-NC-ND 4.0](#)

### Human anatomy self-assessment review questions

Human anatomy is one of the foundational disciplines in the training of health care professionals. Knowledge of human structure at both the macroscopic and microscopic levels serves as a framework for the study of normal function and dysfunction. This workbook presents a series of questions related to a particular area of anatomy. Answers to those questions are included at the end of the book. This approach to self-assessment in basic human anatomy will be helpful to students in preparing for clinical-based learning activities as well as for other types of knowledge assessment and evaluation. Shared by Virginia Tech, US.

Date published: 2022 | Content Type: Self-Assessment Questions | License: [CC-BY 4.0](#)

### Anatomy and physiology I: an interactive histology atlas

The purpose of this book is to help students learn the complex field of tissue histology. It includes: Introduction to Microscopy and the Cell; Types of Tissues; and Organ Systems and Their Unique Histology. Published by University System of Georgia.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### A mixed course-based research approach to human physiology

The Biology 256 Laboratory course was designed to provide students with hands-on access to modern techniques in human physiological analyses using the course-based research pedagogical approach. In this course, students will learn how to perform literature searches; generate research questions and hypotheses; design experiments; collect, analyze, visualize and interpret data; and present scientific findings to others. Created by staff from Iowa State University, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-SA](#)

### Fundamentals of anatomy and physiology

This textbook was created for first year anatomy and physiology students. The coverage and scope of the current text includes: Levels of organisation, homeostasis and nomenclature–Cells: structure and reproduction–Tissues, organs, and Systems–Integumentary System–Blood–Cardiovascular system–Lymphatic system and immunity–Respiratory systems–Muscle system–Skeletal system–Musculoskeletal system–Digestive system–Nervous system–Endocrine system–Reproductive System–

Pregnancy and human development–Urinary system. Published by University of Southern Queensland.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### Hands-on anatomy

Hands-on Anatomy targets undergraduate or graduate students who have completed an introductory anatomy course and are beginning to apply their anatomical knowledge to the human body, as well as healthcare professionals engaged in patient assessment and treatment. Published by Temple University Press, Philadelphia.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### Medical terminology for healthcare professions

Medical Terminology for Healthcare Professions is an Open Educational Resource (OER) that focuses on breaking down, pronouncing, and learning the meaning of medical terms within the context of anatomy and physiology.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Anatomy and physiology

Anatomy and Physiology 2e is developed to meet the scope and sequence for a two-semester human anatomy and physiology course for life science and allied health majors. The book is organized by body systems. The revision focuses on inclusive and equitable instruction and includes new student support. Illustrations have been extensively revised to be clearer and more inclusive. Published by OpenStax.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Anatomy tool

AnatomyTOOL is a platform for learning and teaching of Anatomy that offers open, quality reviewed, anatomical learning materials and tools. It is an initiative of the departments of Anatomy of Leiden University Medical Centre and University Maastricht, Netherlands, in collaboration with departments of Anatomy in the Netherlands and Flanders..

Date published: Varied | Content Type: 3D models and videos | License: [CC Licensed, consult individual resources](#)

### Human anatomy and physiology video lab series

A comprehensive series of short videos. Published by University System of Georgia.

Date published: 2022 | Content Type: Videos | License: [CC-BY-NC-ND 4.0](#)

## Animation (Motion, Illustration, Game Development, Visual Effects, Graphic Design)

See also: [Digital Media](#)

### [The remixer machine](#)

The Remixer Machine is a web app that aims to provide people with a visual voice, especially to those who might not consider themselves “arty” – or who don’t have the graphical tools to create. Remixer was created by Bryan Mathers, Visual Thinkery and winner of the Open Education Global Award in the Open Assets category for Open Reuse / Remix / Adaptation 2024.

Date published: 2024 | Content Type: Activity | License: [CC-BY-SA 4.0](#)

### [exGDD: extended game design document template for mobile game design and development](#)

The objective of this paper is to conduct an analysis of existing Game Design Document (GDD) in practice in game development industry and propose a template-tool to extend Game Design Document, named as exGDD. Published in the International Journal of Applied Engineering Research.

Date published: 2021 | Content Type: Article | License: [CC-BY 4.0](#)

### [MIT game design courses](#)

A selection of game design undergraduate courses and resources, including assignments. Shared by MIT.

Date published: Varied | Content Type: Courses | License: [CC-BY-NC-SA 4.0](#)

### [Developing the graphical elements of an ideal video game character](#)

A study that determines the factors to create an ideal video game character in terms of the 2022 Video Game Industry’s criteria. Completed by a student in the

University of the Philippines Open University as part of the Bachelor of Arts in Multimedia Studies Capstone/Special Project. 64 page document.

Date published: 2022 | Content Type: Dissertation | License: [CC-BY 4.0](#)

### [Making daddy proud: presentations of femininity in video games with female protagonists](#)

Despite the male dominated landscape of the video game industry, several games featuring female protagonists have garnered wide-spread recognition and acclaim among players of all genders. Existing video game literature suggests that women are underrepresented and hypersexualized

across the medium. However, research on this topic faces the challenge of fast-paced, changing trends in the video game industry. Utilizing qualitative content analysis, this research analyzes the construction of femininity in video games with female protagonists from the most recent gaming console generation. By analyzing game narrative and character development, this study offers a critical look at how gender norms are reproduced through video games. Coding analysis revealed the centering of male protectors, lack of sexual agency, character development through suffering, and gendered expectations of morality. Overall, while many of the findings in this study mark a departure from the hypersexualized female characters from previous studies, the male gaze still manifests in these games through the paternal need to protect female characters. Completed as part of a Master of Arts, Sociology programme in California State University, Fullerton, US. 73 pages.

Date published: 2021 | Content Type: Dissertation | License: [CC-BY 4.0](#)

### [Open peeps: a hand-drawn illustration library](#)

Open Peeps is a hand-drawn illustration library to create scenes of people. The library works like building blocks made of vector arms, legs, and emotions. You can mix these elements to create different Peeps. Zip files include source library for Sketch, Figma, Studio, XD and Flat SVG and PNG assets.

Date published: 2020 | Content Type: Illustration Library | License: [CC0](#)

### [Analysis of the global video games market](#)

This project explores the growth of the global gaming industry, specifically most popular video games by genre, region and consoles. Compiled by a student from the George Washington University, US.

Date published: 2019 | Content Type: Student project | License: [CC-BY 4.0](#)

### [2D animation principles](#)

Syllabus for 2D Animation Principles Class. Shared by CUNY City College, US.

Date published: 2020 | Content Type: Syllabus | License: [CC-BY 4.0](#)

### [Topics in animation](#)

Topics in Animation syllabus. In this class we learn about and create different types of Non-fiction animation. Shared by CUNY City College, US.

Date published: 2020 | Content Type: Syllabus | License: [CC-BY 4.0](#)

### [Game design and development 2021: a textbook created by students for students](#)

Created by a group of 2nd-year TU Dublin Creative Digital Media students. The content was created by students and covers: introduction to games; game genres, players and publishing; game worlds;

storytelling, narrative and character development; designing for game play; and core game mechanics and balancing.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### [Computer graphics and computer animation: a retrospective overview](#)

This book was developed in an attempt to maintain in one location the information and references that point to the many important historical developments of the short life of the computer graphics world as we know it. Published by Ohio State, US.

Date published: 2017 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### [2D Design studio handbook](#)

This book includes an introduction to 2D Art Making, Art Elements and Art Principles. This text was adapted from another OER by staff from two US universities.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### [Game development with circuitpython](#)

Making games on small devices is great fun and also a great way to learn. You don't have to worry about breaking anything, and the games tend to be much simpler than on the big computers. And with CircuitPython you don't need to install anything on your computer, all you need is a text editor. But it's not easy to decide what you need exactly: what hardware to get, which libraries to use and how to actually put it all together to spend the minimum time on all that, and maximum time on the game itself? This video reviews the available options, their pros and cons, and shows some examples to get you started. Published by EuroPython.

Date published: 2022 | Content Type: Video | License: [CC-BY-NC-SA 4.0](#)

## Art (Creative Arts, Fine Arts, Sculpture, Ceramics, Art Therapy)

See also: [Design](#)

### [Virtual art galleries as learning spaces and agents of praxis](#)

Virtual art spaces offer a new medium through which the concept and form of art and learning spaces may be extended in the 21st century. Article in AI, Computer Science and Robotics Technology.

Date published: 2023 | Content Type: Article | License: [CC-BY 4.0](#)

### [Art history OER review: what's out there and what's going on?](#)

This short book chapter shares useful Open Education Resources for teaching art and art history. Shared by City University of New York.

Date published: 2023 | Content Type: Book Chapter | License: [CC-BY 4.0](#)

### [Europeana](#)

Discover Europe's digital cultural heritage. Search, save and share art, books, films and music from thousands of cultural institutions.

Date published: Varied | Content Type: Collections of images, text, sound, video and 3D files | License: Varied

### [Art appreciation course](#)

This course helps you to explore visual art forms and their cultural connections by learning about the history of art and its principles. Study the elements, media, and methods used in creative thought and the creative process. Created by Sayor.Org Academy. Includes quizzes and exam. Free registration required. Published by Smarthistory.org

Date published: No information available | Content Type: Course | License: [CC-BY 3.0](#)

### [Gothic past: visual archive of gothic architecture and sculpture in Ireland](#)

Gothic Past is an open-access resource for the study of Ireland's medieval buildings. Images within the site are drawn from collections of visual material, in some cases, almost eighty years old that are held in the archives of TRIARC, the Irish Art Research Centre at Trinity College Dublin. Consult the access rights information for each image. This website works best with Microsoft Edge.

Date published: Varied | Content Type: Image Archive | License: Varied

### [Airea: Arts and Interdisciplinary Research](#)

Airea seeks to explore interdisciplinary art practices and their impact in contemporary artistic contexts. Their objective is to provide a platform of communication among researchers, artists, practices, theory and technology for extending the debate of interdisciplinary artistic practices and their appropriate methods as well as their potential. A call for papers was also published on September 2024, so a new issue is anticipated. Published by the University of Edinburgh.

Date published: 2018-2021 | Content Type: Journal | License: [CC-BY 4.0](#)

### [FORUM: University of Edinburgh postgraduate journal of culture and arts](#)

FORUM is a peer-reviewed journal for postgraduate students working in culture and the arts. The journal's interdisciplinary approach encourages contributions from across the spectrum of the arts



and humanities. Published annually, each edition focuses on a selected theme, provoking discussion and debate whilst maintaining an overall thematic coherency.

Date published: 2005-Current | Content Type: Journal | License: [CC-BY 4.0](#)

### **Modern humanities: arts and ideas 1900-present day**

Through the exploration of modern literature, drama, art, film, poetry, and music, this course places developments in the Humanities into historical and philosophical contexts and illustrates the continuity of culture. This book introduces students to literature, philosophy, art, film, and music from the beginning of the 20th century to the present. Published by CUNY University, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Look at this!: an introduction to art appreciation**

An introductory Art Appreciation text that focuses on tools of visual analysis, followed by an exploration of themes: religion, nature, power, garden realms, and copying. The book does not include an overview of art historical periods or movements. “Instead,” as Dr. Mittman writes, “by using examples chosen from throughout the globe, and from prehistory to the present day, the book should help you learn how to apply the basic tools of visual analysis to any object.”

Date published: 2023 | Content Type: Website | License: [CC-BY-NC-SA 4.0](#)

### **Smarthistory: the centre for public art history**

Smarthistory’s free, award-winning digital content unlocks the expertise of hundreds of leading scholars, making the history of art accessible and engaging. It features tools for teaching and learning.

Date published: 2024 | Content Type: YouTube, Books, Images | License: [CC-BY-NC-SA 4.0](#)

## **Artificial Intelligence**

Access OER relating to AI for teaching and learning using our [Pressbook](#)

## **Biology**

See also: [Biotechnology](#), [STEM Teaching Resources](#)

### **iBiology**

iBiology has created a variety of undergraduate and graduate videos and PDF-downloadable supplementary materials (including question banks) for select videos that can be accessed by educators via login. Published by iBiology is part of the Science Communication Lab.

Date published: Varied | Content Type: Multimedia | License: [CC-BY-NC-ND 3.0](#)

### **Janelia open science**

Janelia shares innovation, ideas, tools and techniques. Their [tools and innovations section](#) includes: Imaging Instrumentation; Laboratory Tools; Reagents; Software; and Model Organisms. Janelia data is shared under CC BY 4.0, consult individual resource types for licensing.

Date published: Varied | Content Type: Science Tools and Innovations | License: [CC-BY 4.0](#)

### **An interactive introduction to organismal and molecular biology**

This interactive textbook includes quizzes, simulations, interactive videos, and images with clickable hotspots. The first unit introduces students to the nature of science, including scientific controversies and information literacy, including how to analyze literature and identify stakeholders. Unit 2 is organismal biology, including carbon cycling and population growth, and Unit 3 is molecular biology with a focus on gene expression.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Basic cell and molecular biology: what we know & how we found out – 3e**

This textbook focuses on the understanding of evolution that informs all of the life sciences and provides experimental support for what we know about cell and molecular biology. Published by University of Wisconsin, Milwaukee, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### **Fundamentals of cell biology**

This textbook is focused specifically on the principles and concepts of a foundational Cell Biology course. The book takes a more conceptual approach that highlights how scientists study cells, and how to analyse and interpret experimental results. Published by Oregon State University.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC](#)

### **Concepts of biology**

The book is designed to demonstrate introductory biology concepts and to promote scientific literacy. Published by OpenStax.

Date published: 2023 | Content Type: Textbook | License: [CC-BY](#)

### **Cell and molecular biology: what we know & how we found out – 5e**

This book is available in three formats, which provide a variety of resources including learning objectives and context-embedded links to short explanatory voice-over PowerPoint recordings (VOPs), interactive context-embedded Challenge boxes and essay questions. Published by University of Wisconsin, Milwaukee, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

#### **Cardiovascular pathophysiology for pre-clinical students**

This textbook is designed for a course pre-clinical undergraduate medical curriculum and it is aligned to USMLE(r) (United States Medical Licensing Examination) content guidelines. Published by Virginia Tech Carilion School of Medicine in association with Virginia Tech Publishing, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

#### **Pulmonary pathophysiology for pre-clinical students**

This undergraduate medical-level resource for foundational knowledge is designed for a pre-clinical undergraduate medical curriculum and is aligned to USMLE(r) (United States Medical Licensing Examination) content guidelines. The text is meant to provide the essential information in a concise format that would allow learner preparation to engage in an active classroom. Published by Virginia Tech Publishing, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## **Biotechnology (Clinical Engineering, Biomedical science, Bioanalysis)**

See also: [Biology](#), [STEM Teaching Resources](#)

#### **Waste biomass and biomaterials adsorbents for wastewater treatment**

This paper highlights some of the commonly used bio-based materials studied for their applicability as adsorbents in wastewater treatment. Article in Green Energy and Environmental Technology Journal.

Date published: 2022 | Content Type: Article | License: [CC-BY](#)

#### **Recent advances in the application of mathematical and computational models in biomedical science and engineering**

This volume highlights novel findings of state-of-the-art computational models based on multiscale, multiphysics, data-driven, artificial intelligence, and machine learning approaches in the field of bioengineering. This book is a reprint of the Special Issue Recent Advances in the Application of Mathematical and Computational Models in Biomedical Science and Engineering that was published in Bioengineering. Published by MDPI.

Date published: 2024 | Content Type: Book | License: [CC BY-NC-ND](#)

### **Food biotechnology**

The iMoox-course Food Biotechnology is a mandatory preparative course for the correspondent lecture of the master study program Biotechnology at Graz University of Technology. This course gives an overview of the most common processes that are used for food manufacturing. Created by staff from Graz University of Technology, Austria.

Date published: 2019 | Content Type: Course | License: [CC-BY 4.0](#)

### **Biomedical engineering design**

This course presents a design philosophy and a design approach, dedicated to rehabilitation technology. This field was selected because of human-machine interaction is inherent and vital. Illustrative examples will be discussed by their entire design proces. Created by TU Delft, Netherlands.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### **Technology for biobased products**

Learn the basics of process design for biobased products. From feedstock to biomaterials, chemicals and biofuels. Lectures and readings are included. Created by TU Delft, Netherlands.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### **Creating a virtual bioinformatics lab module OER to augment protein structure function capstone courses (version 1.1 – 2023)**

A set of 5 bioinformatics interactive H5P lab videos with accompanying lesson plans, quizzes, assignment with rubrics, and discussion components with rubrics. The videos focus on showing how to find, identify, manipulate, compare, and understand the sequence and 3D structure of model urease enzyme and an unknown protein. Created by University of Windsor, Canada.

Date published: 2023 | Content Type: Interactive Resource Suite | License: [CC-BY-NC-SA](#)

### **BIO integration**

This journal will specifically focus on original, cutting-edge, interdisciplinary contents in the field of biosciences, including medicine, biochemistry, biophysics, bioengineering, biotechnology, etc., which generate hypotheses and questions relevant to the patient and disease and guide the investigations of cellular and molecular medicine.

Date published: 2020-current | Content Type: Journal | License: [CC-BY 4.0](#)

### Applied bioinformatics

This book is designed to introduce students of the life sciences with little to no programming experience to the concepts and methodologies of bioinformatics, and contemporary software applications. The majority of this course will deal with the analysis of nucleic acid sequence data. Published by Oregon State University.

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

## Bioveterinary Science and Nursing

### Atlas of plant and animal histology

This project provides text and images to support students of cell biology, histology and organs, both in plant and animals. Created by University of Vigo, Spain.

Date published: 2020 | Content Type: Image Collection | License: [CC-BY-NC-SA](#)

### A guide to the principles of animal nutrition

This introductory text include six fundamental nutrients and bioenergetics, feed additives, nutrient analysis, digestive organs and processes in monogastric and ruminant animals, and methods for assessing nutrient utilization. Created for undergraduate students and published by Oregon State University.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC](#)

### Veterinary preventive medicine

Goals of preventive medicine are to protect, promote, and maintain health and well-being and to prevent disease, disability, and death. Published by the University of Minnesota, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Evolution of animals

This is a 10-part series of documentary-style videos on the Evolution of Animals. Published by the University of Ottawa, Canada.

Date published: 2020 | Content Type: Video playlist | License: [CC-BY-SA](#)

## Built Environment

See also: [Engineering](#), [Civil Engineering](#), [Design](#), [Sustainability](#)

### Comfort and health in buildings

In this course you will learn how to ensure good indoor thermal comfort and air quality, and how these factors relate to building design and to buildings' energy systems. Created by TU Delft, Netherlands.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Zero-energy design: an approach to make your building

This course introduces you to zero energy design. It will teach you a stepped approach to design a zero energy climate concept for existing buildings: homes, schools, offices, shops etc. It will demonstrate how an integrated approach, which takes into account both passive measures (such as thermal insulation and sun shading) and active measures (such as heat pumps and photovoltaic panels), can deliver the best results. Lectures and readings are included. Created by TU Delft.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Building energy analysis

This course equips students and upskills professionals with the skill set in analyzing, diagnosing, and quantifying the energy use in buildings and its impacts. Topics are presented using a multidisciplinary perspective. Methods explored include energy analysis, auditing, benchmarking, and simulation. Building components and systems including building envelope, lighting, and HVAC systems are investigated, and their interactive effects studied. A "lightboard" studio is utilized to simulate "live" teaching. AI videos have been created to reflect the diversity of both students and instructors. Built with an online authoring tool, seven modules containing interactive content and the videos are also supplemented by workbooks, presenting course content as a textbook-like material. All are packaged for easy integration into learning management systems.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Edinburgh architecture research

Edinburgh Architecture Research (EAR) is a non-profit, peer-reviewed open-access academic journal exploring the built environment and its overlap with numerous fields of arts, humanities and social sciences from but not limited to an architectural standpoint. Published by the University of Edinburgh.

Date published: 1974-present | Content Type: Journal | License: [CC-BY-NC-ND 4.0](#)

### Designing built environments for equity

In this podcast, Gadea Aguado Sierra, an architect shortlisted in the 2021 Women of the Future Awards, speaks about opportunities for equity and sustainability in and through the built environment and the potential of neighbourhood real estate investment trusts (REIT). Shared by University of Oxford Podcasts

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Colour design in healthcare environments

This portfolio documents two related practice-led, colour research projects at the Royal Edinburgh Mental Health Hospital. This practice-led colour research employed architectural design knowledge and emerging on-site evidence to devise colour schemes and to make site-specific wall paintings within shared areas and circulation spaces. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Portfolio | License: [CC-BY](#)

### Colour strategies in architecture

This practice-led research portfolio includes the book Colour Strategies in Architecture, original artworks and the design of nine installations of an exhibition that toured 10 venues. The research offers new insights into the strategic use of colour in architecture through field investigation of a series of buildings designed between the 1920s and the present day, by six architectural practices. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Portfolio | License: [CC-BY](#)

### Introduction to architecture

This text is designed for learners interested in discovering how to appreciate the built environment. The text assumes no prior knowledge of architectural history and focuses on the vocabulary of architectural analysis, as well as case studies on individual architects and structures. Published by Open Oregon Educational Resources, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Building information – representation and management: principles and foundations for the digital era

The book presents a coherent theory of building information, focusing on its representation and management in the digital era, addressing issues such as the information explosion and the structure of analogue building representations to propose a parsimonious approach to the deployment and utilization of symbolic digital technologies like BIM. Published by staff from the Delft University of Technology, Architecture & the Built Environment.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Business

See also: [Entrepreneurship](#), [Management](#), [Marketing](#), [Economics](#), [Business IT](#)

### Small business management

This online course consists of 5 units: elements of entrepreneurship; building the right team; the business plan; marketing strategy, and financing the new venture. Shared by Saylor.org Academy.

Date published: 2022 | Content Type: Course | License: [CC-BY 4.0](#)

### Introduction to business planning and strategy

Introduction to business planning and strategy online course consists of 3 units including: planning and strategy; setting and achieving goals and objectives; and how do managers develop strategy? Course duration is 5 hours. Shared by Saylor.org Academy.

Date published: 2024 | Content Type: Course | License: [CC-BY](#)

### DBS business review

DBS Business Review is an open access, annual academic journal published by Dublin Business School. The journal is a cross institutional, international endeavour which features peer reviewed articles from a range of academic contributors including undergraduate and postgraduate students alongside faculty, submitted from across the sector.

Date published: 2017-2023 | Content Type: Journal | License: [CC-BY-NC-SA](#)

### Digital skills for success in the workplace

Created by UCD, Digital Skills for Success in the Workplace is a five-unit, self-paced online course which equips learners with key digital literacy skills that are essential to study and work in rapidly evolving online environments.

Date published: 2025 | Content Type: Online Course | License: [CC-BY](#)

### It runs in the family: how to navigate various crises in the world of family business

In this episode an MBA student and family business owner, Shwe Yee Win, shares the challenges that her business has shared and how these required constant strategic restructuring and revamping of the business model and functioning. University of Oxford Podcast.

Date published: 2023 | Content Type: Podcast | License: [CC-BY-NC-SA](#)



### **Business/technical mathematics**

The textbook covers: Operations with Real Numbers; First Degree Equations and Inequalities; Equations and their Graphs; Systems of Equations; Trigonometry; Health Option; Finance; and Data Analysis. It features questions and answers to support student learning. It was published in alignment with British Columbia Adult Basic Education, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### **Sustainable property management**

Sustainable Property Management is intended for students majoring in property management and real estate at both the undergraduate and graduate levels. It can be incorporated into an existing property management operations course or used for a stand-alone course focused on sustainable property management. Published by Virginia Polytechnic Institute and State University, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-SA](#)

### **Customer centric strategy**

Customer centricity is about organisational transformation making the customer the focus for business decisions, processes, product development, services, and procedures. Some companies purport to be customer centric but they fall short in connecting this concept throughout all functional areas of the business. Written by Kerri Shields and published by eCampusOntario.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Introduction to business**

Introduction to Business covers the scope and sequence of most introductory business courses. The book provides detailed explanations in the context of core themes such as customer satisfaction, ethics, entrepreneurship, global business, and managing change. Introduction to Business includes hundreds of current business examples from a range of industries and geographic locations, which feature a variety of individuals. Published by OpenStax.

Date published: 2023 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Fundamentals of business**

This undergraduate introductory business book covers the following topics in business: teamwork; economics; ethics; entrepreneurship; business ownership, management, and leadership; organizational structures and operations management; human resources and motivating employees; managing in labor union contexts; marketing and pricing strategy; hospitality and tourism, accounting and finance, personal finances, and technology in business. Published by Virginia Tech Libraries, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Exploring sustainability

This coursebook serves as a fundamental tool for those seeking to grasp the intricate dynamics between environmental, social, and economic factors that shape our modern world. It provides practical insights and strategies, empowering students to comprehend and actively promote sustainability within diverse business contexts. It delves into a range of topics, covering environmental challenges, corporate governance, global economic dynamics, and the fundamental principles of Environmental, Social, and Governance (ESG) criteria. What sets this coursebook apart is its belief that businesses can play a positive role in shaping a sustainable future. Published by Sobey School of Business, Canada.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Integrating artificial intelligence in business education

This interactive e-book serves as a guide for business educators, staff, and students, emphasizing the transformative role of Artificial Intelligence (AI) in business education. It includes foundational knowledge about AI, practical applications in course design and delivery, strategies for ensuring diversity, equity, and inclusivity in AI use, and guidance for creating business cases that mirror real-world challenges.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### The rise of China's innovation economy

This book provides a comprehensive review of technological innovation in China, focusing on some existing challenges and the debate on the role of public policies in promoting innovation. Technological innovation has become a vital factor in promoting high-quality development in China. By examining the current state of and challenges confronting China's technological innovation from both the supply side (talent and R&D) and the demand side (domestic and international demand), this book offers a view on how to enhance the efficiency of industry chain while ensuring security through innovation. Published by Springer.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### Scale-ups and high-growth firms theory, definitions, and measurement

This open access book goes into the details of the characteristics of scale-ups, touching upon various theoretical perspectives (stages of growth models, the role of intangible capital, the tradeoffs between fixed costs and marginal costs) relating to firm growth, to provide a clear definition of this emerging concept. Given the disproportionately large economic contribution of a small number of fast-growing firms, there has been growing interest in a category of dynamic ventures called "scale-ups". The term was popularized by Silicon Valley Venture Capitalists before receiving attention from

academics and public policy makers. However, there remains considerable confusion regarding what a scale-up actually is. Published by Springer Link.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Introduction to business Spanish (Ingresos: introducción al español comercial)**

This textbook covers business Spanish for intermediate level. Published by University of Minnesota Libraries Publishing.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

## **Business Information Systems (Business IT)**

**See also:** [Accounting](#), [Information Technology](#), [Statistics and Data](#)

### **Trends and applications in information systems and technologies**

This reprint presents a comprehensive exploration of cutting-edge research in various domains, ranging from blockchain integration in agriculture to innovative tools for employees' performance measurement. The topics cover machine learning applications, healthcare information systems and the adoption of digital business solutions. An emphasis is placed on emerging technologies, like IoT, VR and AR, offering insights into the future of information systems and technologies. The interdisciplinary nature of the papers reflects a wide spectrum of applications, including smart home systems, energy microgrids and novel approaches to classification using online reviews. Published by MDPI.

Date published: 2022 | Content Type: Book | License: [CC-BY-NC-ND 4.0](#)

### **Business model-the perspective of systems thinking and innovation**

The business model concept has gained a prominent position both in academia and among practitioners during the past 30+ years. The aim of this Special Issue of Systems is to contribute to a stronger theoretical basis for the business model concept. This includes a focus on the systemic character of business models and the systems approaches that this entails. Published by MDPI.

Date published: 2023 | Content Type: Book | License: [CC-BY-NC-ND 4.0](#)

### **Information systems for business and beyond Canadian edition**

This book introduces students to the concept of information systems, the components of information systems, their application to business, and the impacts of their use on business and society. This book is written as an introductory text, meant for those with little or no experience with computers or information systems. Instructor resources are available. Published by academics from Canadian Universities.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### [Auditing information systems: a practical approach](#)

This textbook is a comprehensive guide to auditing information systems (IS) that covers the latest IS auditing standards and ethical principles, IT governance, risk management, and controls, as well as newer technologies such as cloud computing and mobile applications. It is designed to help students navigate the complexities of IS auditing and manage risks effectively. Published by staff from Conestoga College, Canada.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Chemistry (Biochemistry)

See also: [Biology](#), [Physics](#), [Pharmaceutical Science](#), [STEM Teaching Resources](#)

### [Chemistry: atoms first 2e](#)

This peer-reviewed, openly licensed introductory textbook contains a few basic principles: first, it introduces atomic and molecular structure much earlier than the traditional approach, and it threads these themes through subsequent chapters. Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

### [Chemistry 2e](#)

Chemistry 2e is designed to meet the scope and sequence requirements of the two-semester general chemistry course. The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The book also includes a number of innovative features, including interactive exercises and real-world applications, designed to enhance student learning. Published by OpenStax.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

### [CLUE: chemistry, life, the universe and everything](#)

CLUE was designed to help students attain a confident, competent, and coherent understanding of basic chemistry, in particular of the chemistry associated with organisms and their origins. Published by Michigan State University Libraries, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### [Ready for uni: an RMIT chemistry bridging course](#)

Ready for Uni: An RMIT Chemistry Bridging Course is designed for RMIT students transitioning from high school science into undergraduate chemistry studies.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### OCLUE: organic chemistry, life, the universe and everything

The basics of bonding and intermolecular interactions are introduced in the general chemistry version of CLUE (Chemistry, Life, the Universe & Everything), along with how the structure of a molecule affects its properties, how the energy changes associated with chemical and physical changes can be predicted and explained, and how chemical systems can be stabilized or perturbed by changing conditions. Published by Michigan State University Libraries, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

**Additional OER relating to STEM are provided in our [Teaching and Learning OER Pressbook](#)**

## Communication

**See also:** [Academic writing](#), [Professional development](#)

### Effective communication in the workplace

This course explores the importance of communication as a skill in the workplace. It aims to increase your understanding of communication skills and to help you to consider how your communication could be perceived by others. You'll cover areas such as verbal and non-verbal communication, written communication and using your communication skills in challenging and diverse situations. You'll also look at possible scenarios for communication in the future, ranging from remote working to virtual reality. Shared by the Open University. Course duration is 24 hours.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA](#)

### Technical communications

This micro-course, including video lectures and activities, is intended for graduate studies in STEM and other disciplines. It includes concepts related to writing, preparing presentations and oral delivery to peer-specific and general audiences. It focuses on both academic and business contexts. Published by staff from McMaster University, Canada.

Date published: 2022 | Content Type: Micro-course | License: [CC-BY-NC-SA](#)

### Advanced professional communication

This textbook is designed to guide college students in advancing their existing skills in communication by using a principled approach to business communication for managerial and leadership success in the modern workplace. Published by Fanshawe College, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Communication concepts

This book will help you use the thinking tools of communication theory to understand why communication matters and how it impacts (and is impacted by) our rapidly changing world. Published by the Deakin University via the Council of Australian University Librarians Open Educational Resources Collective.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC](#)

### Communication for professionals

Textbook for undergraduate introductory-level business communication. Published by the University of Hawaii OER Project.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC](#)

### Exploring communication in the real world

This introductory textbook includes chapters on: communication and perception; verbal and nonverbal communication; listening, culture and communication; interpersonal communication process; communication in relationships; small group communication; and public speaking. This book was adapted for students at the College of DuPage, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Interpersonal communication: a mindful approach to relationships

This detailed text helps readers examine their own one-on-one communicative interactions using a mindfulness lens. Published by staff in US universities.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Knowledge management and communication of research

Knowledge Management is an integrated approach to defining, structuring, retaining and sharing knowledge. It also involves networking, building community partnerships, and understanding market uses. Knowledge Management has at its core, the purpose of sharing knowledge in a strategic approach with the right partners at the right time in order to reduce overlap, inform policy and decision-making, and accelerate innovations. This project involved six higher education institutions in Canada working together to generate a series of learning modules that can be bundled for a

professional development program and/or micro-credential for students and early career researchers.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Oral communication for non-native speakers of English

This book supports oral communication skills development in academic settings. It is specifically designed for international graduate students, teaching assistants, postdoctoral researchers, and those preparing to enter academia. It features interactive online activities and is published by Iowa State University Digital Press, US

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Writing code, drawing ideas: sketchnoting for the workplace

In this fun Talk we will learn some easy drawing skills we can use at the workplace (or anywhere else). The combination of text and simple, symbolic drawings is such a great way to express ideas. Requirements, user stories, notes of meetings, talks, articles or tutorials, all can become much more engaging with a few extra illustrations. Presented by Sara Peeters at the Plone Conference 2020.

Date published: 2025 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Science communication with videos: types – benefits – concepts – production – publication

Shared by the German National Library for Science and Technology (TIB).

Date published: Varies | Content Type: Video | License: Consult each video

## Community Development (Groupwork, Facilitation, Voluntary Sector)

See also: [Addiction Studies](#), [Social Care](#)

### Community engagement with young people

This interactive digital training module offers fundamental skills central to engaging young people in the community and can be easily adapted into existing learning management systems and customized for a variety of program contexts and local training scenarios. Published by McMaster University, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Community mentoring resources

The community mentoring programme aims to support communities to raise educational aspirations by connecting groups with role models from further and higher education, inspiring the next generation of learners. This resource collection includes modules, a community mentoring handbook (for mentors), mentee toolkit (for second-level students taking part in sessions) and the adult ed handbook (for adult learners taking part in sessions). These resources were created by Design and Technology, Dun Laoghaire Institute of Art, National College of Art & Design, RCSI University of Medicine and Health Sciences, Trinity College Dublin, and University College Dublin.

Date published: 2025 | Content Type: Resource collection | License: [CC-O](#)

### **Community tool box**

The community tool box is a free, online resource for those working to build healthier communities and bring about social change. This resource is managed by the University of Kansas Center for Community Health and Development, US.

Date published: 2025 | Content Type: Tool box | License: [CC-BY-NC-SA](#)

### **Co-creating community wellbeing initiatives: what is the evidence and how do they work?**

Addressing wellbeing at the community level, using a public health approach may build wellbeing and protective factors for all. A collaborative, community-owned approach can bring together experience, networks, local knowledge, and other resources to form a locally-driven, place-based initiative that can address complex issues effectively. This article includes a comprehensive literature review and eight key principles allowed these initiatives to become established and operate successfully. Article published in International Journal of Mental Health Systems.

Date published: 2024 | Content Type: Article | License: [CC-BY-NC-SA 4.0](#)

### **Group communication**

This course covers small group competencies and development and conflicts in group communication. The duration is 6 hours and it is provided by Saylor.org Academy.

Date published: 2024 | Content Type: Course | License: [CC-BY 3.0](#)

### **Concept: The Journal of Contemporary Community Education Practice Theory**

This journal views community education in the broadest sense to include community work, adult education and youth work and takes place in a range of settings and agencies. Published by the University of Edinburgh.

Date published: 2010-current | Content Type: Journal | License: [CC-BY-NC-SA 4.0](#)

### **Problem solving in teams and groups**



This textbook includes an overview of groups and teams, groups and teams (in) action, and group and team theory. Published by the University of Kansas.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### **Introduction to community engagement**

This book prepares learners, conceptually and practically, to effectively engage actors as a key aspect of building sustainable communities. Published by Assumption University, Massachusetts, US and Trent University, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

### **Introduction to community psychology: becoming an agent of change**

This textbook will show you how to comprehensively analyze, investigate, and address escalating problems of economic inequality, violence, substance abuse, homelessness, poverty, and racism. It will provide you with perspectives and tools to partner with community members and organizations to promote a fair and equitable allocation of resources and opportunities. Published by the Rebus Community

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

### **Building sustainable communities: the Impact of engagement. module 1: introduction to community engagement**

This course, Building Sustainable Communities: The Impact of Engagement, prepares learners, conceptually and practically, to effectively engage actors as a key aspect of building sustainable communities. Module 1 introduces the concepts of sustainable communities and community engagement, and how engaging actors can contribute to addressing sustainability challenges. This course was created by academics from a variety of Canadian universities.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

### **Building sustainable communities: the impact of engagement. module 2: information gathering and sharing**

This course, Building Sustainable Communities: The Impact of Engagement, prepares learners, conceptually and practically, to effectively engage actors as a key aspect of building sustainable communities. Module 2 discusses methods and considerations for gathering information from and sharing with communities. This course was created by academics from a variety of Canadian universities.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

### **Building sustainable communities: the impact of engagement. module 3: collaboration**

This course, Building Sustainable Communities: The Impact of Engagement, prepares learners, conceptually and practically, to effectively engage actors as a key aspect of building sustainable communities. Module 3 focuses on collaboration and provides an overview of different methods of working together, and the benefits and challenges associated with those processes. This course was created by academics from a variety of Canadian universities.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

#### **Building sustainable communities: the impact of engagement. module 4: monitoring and evaluation**

This course, Building Sustainable Communities: The Impact of Engagement, prepares learners, conceptually and practically, to effectively engage actors as a key aspect of building sustainable communities. Module 4 defines monitoring and evaluation and explains how it can be used in different ways to contribute to building sustainable communities. This course was created by academics from a variety of Canadian universities.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

#### **Building sustainable communities: the impact of engagement. module 5: creating connections for the future**

This text discusses ethical considerations of engagement and presents learners with pathways for future directions of learning and application.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

## **Design (Design Thinking, Interior Design, Fashion Design)**

**See also:** [Animation](#), [Art](#), [Product Design](#), [3D Printing](#)

#### **Fashion: from 3D printing to digital fashion**

This chapter seeks to emphasise the massive changes brought about by 3D and 4D printing in the fashion world (now connected with augmented reality and virtual reality) by addressing the concept of 3D printing and explaining when and how it started to develop in fashion, becoming the sewing machine of the twenty-first century. Chapter from Advances in 3D Printing.

Date published: 2022 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

#### **Textiles in Motion: Dress for Dance in the Ancient World**

An innovative series of case studies looking at the significance, meaning and social context of costume and textiles used in dance among a variety of ancient cultures and civilisations..

Date published: 2024 | Content Type: Book | License: [CC-BY-NC-ND 4.0](#)

### **Restaging the Past: Historical Pageants, Culture and Society in Modern Britain**

Restaging the Past is the first edited collection devoted to the study of historical pageants in Britain, ranging from their Edwardian origins to the present day.

Date published: 2020 | Content Type: Book | License: [CC-BY-NC-ND 4.0](#)

### **Design thinking for computer-aided co-design in architecture and urban design**

This chapter proposes a framework for designers to interact with non-design experts through an enhanced communicative media. The design framework indicates steps of design thinking to develop the interface by understanding both the virtual artefacts' perceptual affordance to the users and the design task. The paper discusses about projects tested in three different scenarios, urban design, architecture, and product design. It concludes with the arguments on designers' role as authors of the system design. Chapter from Augmented Reality and its Application.

Date published: 2021 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

### **Design thinking**

Are you ever frustrated with something that you thought you could design better? This free course, Design thinking, will show you how to structure your natural creativity to come up with solutions to all kinds of problems, and have fun in the process too! Course duration is 10 hours. Created by the Open University.

Date published: 2018 | Content Type: Course | License: [CC-BY-NC-SA](#)

### **Double exposure fashion design portfolio**

The output is a garment, designed and made by Claire Ferguson. The research used fashion design to explore how fashion silhouettes signify accepted notions of female beauty within the Renaissance and contemporary eras. It was initiated in response to current issues relating to body image in fashion and contemporary culture. Ferguson's aim was to raise awareness of these issues and explore historic trends and fashions and ideal body types. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Portfolio | License: [CC-BY 4.0](#)

### **Fashion, history, museums: inventing the display of dress**

The last decade has seen the growing popularity and visibility of fashion as a cultural product, including its growing presence in museum exhibitions. This book explores the history of fashion curating and exhibitions, highlighting the continuity of past and present curatorial practices. Comparing and contrasting exhibitions from different museums and decades – from the Paris Exposition Universelle of 1900 to the Alexander McQueen Savage Beauty show at the Metropolitan

Museum of Art in 2011 – it makes connections between museum fashion and the wider fashion industry. By critically analyzing trends in fashion exhibition practice over the twentieth and early twenty-first centuries, Julia Petrov defines and describes the varied representations of historical fashion within British and North American museum exhibitions.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Communicating fashion: trend research and forecasting**

This book offers a holistic view of the interrelationships involved in trend research, including data collection, analysis and reporting, and forecasting what that direction means for design. Published by the University of Minnesota, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Tutorials of visual graphic communication programs for interior design**

This book is for the beginning level of both architecture and interior design students who learn computer graphic communication software. The author developed multiple tutorials to teach three computer graphic applications, AutoCAD, Revit, and Enscape. Published by Iowa State University Digital Press, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### **Digital transformation in design: processes and practices**

What does it take to create innovative tech-savvy designs that are usable, appealing, and good for society? The contributions to this volume introduce contemporary research on the digitization and »datafication« of products, exploring topics like user experience, artificial intelligence, and virtual environments in design. Coming from varied backgrounds in product design, interaction design, service design, game design, architecture, and graphic design, they emphasize that digital transformation is not just a technical process, but also a social and learning process that fundamentally changes the way we understand information.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### **Design for the new world: from human design to planet design**

This book aims to introduce a new paradigm in design and design thinking, by shifting our approach from a human perspective that is primarily focused on human scales, needs, and desires, to a planet perspective, in which design is guided by the ambition to create a balanced coexistence between humans and the other species that make up the global ecosystem. Written by Ida Engholm and published by Intellect Books.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### The fashion history timeline

The Fashion History Timeline is an open-access source for fashion history knowledge, featuring objects and artworks from over a hundred museums and libraries that span the globe. The Timeline website offers well-researched, accessibly written entries on specific artworks, garments and films for those interested in fashion and dress history. Shared by the Fashion Institute of Technology, New York.

Date published: 2015 – current | Content Type: Timeline and essays | License: [CC-BY-NC-SA 4.0](#)

### Design ecologies animation

This animation explores why a whole systems approach to design is important. It uses the example of a smartphone to illustrate the need to shift from linear to regenerative resource flows. Duration is 4 minutes. Created by the Open University.

Date published: No information available | Content Type: Video | License: [CC-BY-NC-SA](#)

## Digital Media (Media, Film, Music, Photography)

See also: [Animation](#), [Engineering](#), [Music](#)

### Alphaville: journal of film and screen media

Alphaville is a fully peer-reviewed online journal edited and published by the Department of Film and Screen Media at University College Cork, Ireland.

Date published: 2011-Current | Content Type: Journal | License: [CC-BY-NC 4.0](#)

### SCENARIO journal

SCENARIO, founded in 2007, is a fully peer-reviewed, online journal in the area of performative teaching, learning and research. It started off as a bilingual (English–German) journal, but has evolved into a trilingual journal and from 2023 onwards will also feature Italian language contributions.

Date published: 2007-Current | Content Type: Journal | License: [CC-BY-NC](#)

### OER for teaching graduate journalism students

Open source syllabi and lesson plans to help teaching of graduate journalism students. Shared by the Craig Newmark Graduate School of Journalism at CUNY, US. Utility of some content limited due to geographical variations.

Date published: No information available | Content Type: Lesson plans | License: [CC-BY-SA 4.0](#)

### How people access climate change news

This episode of the Future of Journalism podcast looks at how people access climate change news, what news sources people pay most attention to, how interest differs around the world and why, and what news organisations could do to more closely engage audiences with climate change news. University of Oxford Podcasts.

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Understanding new media art

An introductory college art and art history textbook which includes digital photography, digital video art, video installation and light art. This OER will be updated and expanded periodically as technologies change, new creative approaches and voices develop. Published by Open Oregon Educational Resources.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Digital foundations: introduction to media design with the adobe creative cloud

Digital Foundations uses formal exercises of the Bauhaus to teach the Adobe Creative Cloud software. This revised edition updates Chapters 1-12 of the original text for use with Adobe Creative Cloud 2024 software. Published by Open Oregon Educational Resources.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Film appreciation

This text includes: narration, film history, mise-on-scene, cinematography, editing, sound, genre and writing film analysis. Illustrative videos are included also. Published by Affordable Learning Georgia, US.

Date published: 2020 | Content Type: Textbook, including videos | License: [CC-BY 2.0](#)

### Media and power

This handbook guides students through concepts, content, and exercises that help them develop media literacy by understanding media and power. The authors want students to not only gain the ability to critically analyze the languages and discourses – textual, visual, audio, and code – that people use to create and interpret media content, but also to understand the overarching context: media possess immense power in contemporary societies around the world. The current version is a preview of some chapters. Remaining chapters are forthcoming in fall 2024.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

## Early Childhood Education

See also: [Psychology](#), [Sociology](#)

### Re-connecting children and youth with nature for a healthy planet

Book chapter from Outdoor Learning in Canada. Published by staff from Laurentian University, Canada.

Date published: 2024 | Content Type: Book chapter | License: [CC-BY-NC-SA](#)

### Music in early childhood development

This book explores a holistic, artistic, and integrated approach to understanding the developmental connections between music and children. This book guides professionals to work through music, harnessing the processes that underlie music learning, and outlining developmentally appropriate methods to understand the role of music in children's lives through play, games, creativity, and movement. Published by Open SUNY Textbooks.

Date published: 2021 | Content Type: Book chapter | License: [CC-BY-NC-SA](#)

### Supporting children and young people's wellbeing

Learning outcomes: understand some of the principles, purposes and responsibilities affecting those working with children and young people; critically engage with some of the social issues that affect children and young people's wellbeing; interpret and evaluate information and literature relevant to children and young people; and find and use information from a range of courses, making effective use of digital practices, appropriate information and communication technologies. Course duration is 7 hours. Shared by the Open University.

Date published: 2024 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Biological, psychological and social complexities in childhood development

Learning outcomes: explain biological changes and the pathophysiology of childhood asthma; understand the experience of parents and children in childhood asthma; explain how mental health affects children and young people; understand the experience of using mental health services as a young person. Course duration is 12 hours. Shared by the Open University.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Equity, diversity, and inclusion in ECE environments

This resource is part of a series of Digital Learning Objects (DLO) which seek to provide pre- and new-service Early Childhood Educators with opportunities to develop their professional skills by engaging

interactively with scenarios that introduce concepts related to EDI. This is a safe and flexible space that supports learners in utilizing the DLOs in an accessible and inclusive manner. Included are branching questions, hotspot images, drag the word, and other interactive activities. The DLOs can be used and reused while learners explore at their own pace. Created by staff from the University of Ontario Institute of Technology, Canada.

Date published: 2024 | Content Type: Digital Learning Object | License: [CC-BY-NC-SA 4.0](#)

### **ABC reflection and analysis: exploring antecedent, behaviour, and consequence in ECE**

This is an interactive Digital Learning Object (DLO) about the topic of using an ABC model (Antecedent, Behaviour, Consequence) to observe and reflect in early childhood education. This is part of a series of three standalone DLOs, which seek to provide opportunities to develop professional skills by engaging interactively with scenarios that introduce concepts related to observing and interpreting behaviours. Created by staff from the University of Ontario Institute of Technology, Canada.

Date published: 2024 | Content Type: Digital Learning Object | License: [CC-BY-NC-SA 4.0](#)

### **Get to know your learning environment: all parts 1-4**

This interactive Digital Learning Object (DLO) contains all parts of the collection of hotspot images depicting an ECE classroom. Skills development supported by the use of these DLOs include, but are not limited to noticing, observation, responding, planning, reflection, health and safety, using an ABC model for observing and analyzing behaviours, and being intentional about supporting equity, diversity, and inclusion in the learning environment. Created by staff from the University of Ontario Institute of Technology, Canada.

Date published: 2023 | Content Type: Digital Learning Object | License: [CC-BY-NC-SA 4.0](#)

### **Leadership in early care and education**

An introduction to the primary elements of leadership in early care and education settings. Topics covered include leadership skills, ethics, educator development, communication, conflict resolution, motivation, current issues and advocacy. Published by Open Oregon Educational Resources.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Reflective practice in early years education**

This textbook has elements of a workbook, embedded are opportunities to watch, to think, to write, and to listen allowing the reader to become a purposeful and intentional reflective practitioner. Published by staff from Fanshawe College, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)



### The whole child: development in the early years

This book gives an overview of development, beginning in the mother's womb through the age of eight. It starts with a look at perspectives of early childhood, including how children have been viewed historically as well as cross-culturally and the work of theorists in the field. Published by staff from Northern Essex Community College, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Early childhood literacy: engaging and empowering emergent readers and writers, birth – age 5

This textbook outlines the connection between different areas of language and literacy and describes strategies for supporting development and promoting instruction. Early literacy includes reading, writing, and language development. Published by Virginia's Academic Library Consortium.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Economics

See also: [Accounting](#), [Business](#), [Management](#)

### Econ reimaged: interactive tools for principles of microeconomics

This resource provides customized active learning tables, graphs, and calculation simulations where students can work to demonstrate their mastery of the concepts and component skills in microeconomics. Practice versions help them develop mastery, in preparation for the quiz versions which serve as summative assessments. Created by Georgia State University, US.

Date published: no information available | Content Type: Interactive Tools | License: [CC-BY-NC 4.0](#)

### QuantEcon lectures

Includes teaching material and past student assignments on quantitative economics with Python.

Date published: Varied | Content Type: Teaching materials | License: [CC-BY-SA 4.0](#)

### Principles of macroeconomic test bank for economics and business students

This resource provides questions in doc, pdf, and xml format. All images are separately available as well. The questions in our test bank are organised into 12 topics, which correspond to twelve topics commonly covered in Principles of Macroeconomics. Feel free to combine and use them as best suits your purposes. All our questions are multiple choice questions with exactly one answer. A few questions also include general feedback that students would be able to access on Moodle after completing their quiz or assignment.

Date published: 2024 | Content Type: Test Bank | License: [CC-BY-NC-SA](#)

### **Economics and real-world impact with Dr. Sara Ellison and Prof. Esther Duflo**

Dr. Sara Ellison and Nobel Laureate Esther Duflo explain how economics can help us take manageable steps toward an equitable world—and why you might want to disable some of your spreadsheet's default settings. Created by MIT, US.

Date published: 2024 | Content Type: Podcast | License: [CC-BY-NC-SA](#)

### **Ireland's long economic boom: the Celtic tiger economy, 1986–2007**

The book situates Ireland as a relative latecomer to economic development, with specific challenges and advantages inherent to this position. It discusses the risks involved in remaining reliant on foreign companies, exploring how in Ireland's case the rapidly growing economy required active, interventionist and imaginative policy measures rather than relying primarily on free market forces. Offering fresh insights and analyses more than 15 years after the long boom ended at the precipice of the global financial crisis, this book will be a useful resource for economic historians, scholars of political economy and macroeconomic policy, as well as those interested in modern Irish history more broadly. Available as a PDF and ePub download. Written by Eoin O'Malley, formerly of the Economic and Social Research Institute, Dublin, Trinity College Dublin and consultant to the European Commission.

Date published: 2024 | Content Type: Textbook | License: [CC BY 4.0](#)

### **Demography and economics**

Family structure, life expectancy, migration, aging, population growth, and sustainability are explored with reference to economic influences and consequences. Government policies are considered and critiqued. Most chapters include class discussion questions, and exercises with answers. Published by Queens University, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY](#)

### **Principles of economics 3e**

This text uses conversational language and ample illustrations to explore economic theories, and provides a wide array of examples using both fictional and real-world scenarios. The edition has been carefully and thoroughly updated to reflect current data and understanding, as well as to provide a deeper background in diverse contributors and their impacts on economic thought and analysis. Published by OpenStax.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### **Principles of macroeconomics 3e**

This text covers the scope and sequence of most one-semester introductory macroeconomics courses. Brief references and deeply explored socio-political examples have been provided to showcase the critical – and sometimes unnoticed – ties between economic developments and topics relevant to students. Published by OpenStax.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### Principles of microeconomics 3e

This text covers the scope and sequence of most one-semester introductory microeconomics courses. The edition takes a balanced approach to the theory and application of microeconomics concepts. Published by OpenStax.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### Gapminder

Gapminder is an independent Swedish foundation with no political, religious or economic affiliations. It provides data visualisation tools relating to global health and income trends and devastating misconceptions by promoting a fact-based worldview.

Date published: Varied | Content Type: Website | License: [CC-BY 4.0](#)

## Equality, Diversity and Inclusion

Access OER relating to Equality, Diversity and Inclusion for teaching and learning using our [TUS Pressbook](#)

## Engineering

See also: [Project Management](#), [Project Management and Quality](#), [Built Environment](#), [Design](#), [STEM Teaching Resources](#)

### Educational robots for social and emotional learning

Embodied agents are agents that display human-like behavior while interacting with their environment. Educational robots, which are embodied agents, or more specifically knowledge agents, are extensions of the learners. The robot interface is physically, mentally, and socially human-like and can be programmed to exhibit behaviors that replicate interconnected physical, mental, and social characteristics. Article in AI, Computer Science and Robotics Technology.

Date published: 2023 | Content Type: Article | License: [CC-BY 4.0](#)

### Introducing vectors for engineering applications

Learning outcomes: identify if a quantity is a vector; represent vectors from engineering problems in an appropriate form; model simple engineering systems (such as combining forces) using vectors; perform simple algebraic procedures using vectors. Course duration is 5 hours. Shared by the Open University.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA#](#)

### Multidisciplinary research methods for engineers

Engineers and other applied scientists frequently find themselves needing to collaborate in multidisciplinary fields when carrying out research to remain innovative. This course will help you to become a successful multidisciplinary researcher in industry, non-profit, or academia, and be more efficient and successful as you will know where the pitfalls are! This course explains the fundamentals on how to plan and carry out state-of-the-art qualitative and quantitative research in different phases of an innovation or research project. Created by TU Delft, Netherlands.

Date published: no information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Unified engineering: materials and structures

This course presents fundamental principles and methods of materials and structures for aerospace engineering, and engineering analysis and design concepts applied to aerospace systems. The topics include statics; analysis of trusses; analysis of statically determinate and indeterminate systems; stress-strain behavior of materials; analysis of beam bending, buckling, and torsion; and material and structural failure, including plasticity, fracture, fatigue, and their physical causes. Experiential lab and aerospace system projects provide additional aerospace context. Shared by MIT, US.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Collaborative learning environment for remote experimentation with robots

A collaborative and practical learning environment that enables students to remotely access a physical laboratory and perform experiments. The proposed learning environment will be used for an online robotics course as a case study, using passive and active learning methods. After successfully implementing their codes in the ROS (Robot Operating System) simulation environment, students will remotely connect to an on-site traditional laboratory and run their code on a real robot (robotic arm, mobile robot, and quadcopter). Created by staff from the University of Windsor, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Bio mechatronics

Biomechatronics is a contraction of biomechanics and mechatronics. In this course the function and coordination of the human motion apparatus is the central focus, and the design of assistive devices for the support of the function of the motion apparatus. Created by TU Delft, Netherlands.

Date published: no information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Journal of sustainable design and applied research (Ireland)

The SDAR journal was launched in 2011 and is a collaboration between the Technological University Dublin and the Chartered Institution of Building Services Engineers (CIBSE) Ireland. The emphasis is on moving professionals in the built environment from ideologically based green initiatives towards evidence based sustainable engineering solutions. This journal is published by the Technological University Dublin and all material is immediately available as open access under Creative Commons Licences.

Date published: 2020 | Content Type: Journal | License: CC Licenses chosen by author

### Engineering improvisation: new approach to design thinking mindset

This resource was created to guide undergraduate engineering students in developing their skills in the main area of Improvisation in Engineering. These skills that are connected to main steps of Engineering Design Process, will guide students through developing new design thinking mindsets. Published by McMaster University, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Aerospace structures

This book is a 600+ page text and reference book for junior, senior, and graduate-level aerospace engineering students. Published by Virginia Tech, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Introduction to drafting and autoCAD 2D

Introduction to Drafting and AutoCAD 2D was written as a tool to guide and teach you to master AutoCAD. No two students learn at the same pace, therefore the book was written with competency-based modules. Published by Vancouver Community College, Canada and BCcampus.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Introduction to drafting and autoCAD 3D

This book is a tool to guide and teach you to master AutoCAD 3D. No two students learn at the same pace, therefore the book was written with competency-based modules. The competency-based modules are bite-size pieces that allows you to work at your own pace. Published by Vancouver Community College, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Smart cities and construction technologies

This book includes nine chapters presenting the outcome of research projects relevant to building, cities and construction. Published by Intech Open.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### History of construction cultures volume 1

History of Construction Cultures Volume 1 contains papers presented at the 7ICCH – Seventh International Congress on Construction History, held at the Lisbon School of Architecture, Portugal.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Notes in diffy Qs: differential equations for engineers

A first-course textbook on differential equations, aimed at engineering students. Developed by Jiri Lebl, University of Illinois, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

## Engineering, Civil

See also: [Built Environment](#), [Sustainability](#)

### Technology and management applied in construction engineering projects

This book discusses contemporary issues related to soil mechanics and foundation engineering in earthworks, which are critical components in construction projects and often require detailed management techniques and unique solutions to address failures and implement remedial measures. Published by Intech Open.

Date published: 2020 | Content Type: Book | License: [CC-BY 3.0](#)

### Building energy analysis

Traffic processes cause several problems in the world. Traffic delay, pollution are some of it. They can be solved with the right road design or traffic management (control) measure. Before implementing these designs of measures, though, their effect could be tested. To this end, knowledge of traffic flow theory is needed. Published by TU Delft.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-SA](#)

### BIM project execution planning guide (v. 3.0)

A Building Information Model (BIM) is “a digital representation of physical and functional characteristics of a facility.” To successfully implement BIM, a project team must perform detailed and comprehensive planning. This Guide provides a structured procedure for creating and implementing a BEP. Published by Pennsylvania State University.

Date published: 2020 | Content Type: Guide | License: [CC-BY-SA](#)

### **Advances in civil engineering – sustainable materials and resilient structures**

This expertly curated volume offers a comprehensive exploration of cutting-edge advancements and sustainable solutions in civil engineering, focusing on reinforced concrete, sustainable materials, and resilient structural design

Date published: 2025 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Civil Engineering and Symmetry**

The articles in this book demonstrate how solutions in civil engineering, which bring economic, social, and environmental benefits, are obtained through a variety of methodologies and tools. This book is a reprint of the Special Issue Civil Engineering and Symmetry that was published in the journal, Symmetry. Published by MDPI.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### **Geomechanics for energy and a sustainable environment**

Four research articles, related to high-level radioactive nuclear waste disposal stability, geological effect and wellbore stability considerations for methane gas hydrate production, and artificial soil freezing, are presented in this book. This book is a reprint of the Special Issue Geomechanics for Energy and a Sustainable Environment that was published in the journal, Energies. Published by MDPI.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### **Structural analysis**

Structural Analysis by Felix Udeyo is intended to teach students the methods and techniques for the analysis of structures. A sound knowledge of structures is a prerequisite for their proper design and ensures the structural integrity of civil engineering infrastructural systems. This textbook is comprised of three parts. The first part consists of an overview of structural analysis and introduces several structural loadings that may be considered during the analysis and subsequent design of structures. The second part covers classic methods of the analysis of determinate structures. The final section discusses classic methods for the analysis of indeterminate structures as well as methods for the analysis and construction of influence lines for indeterminate structures. Published by Temple University, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### Intermediate fluid mechanics

This book is compiled from a course in Intermediate Fluid Mechanics, offered to seniors and first year graduate students, who have background knowledge. r students with a background knowledge of fluid mechanics. Published by Oregon State University.

Date published: 2021 | Content Type: Textbook lectures | License: [CC-BY-NC-SA 4.0](#)

### Traffic flow theory: an introduction with exercises

Traffic processes cause several problems in the world. Traffic delay, pollution are some of it. They can be solved with the right road design or traffic management (control) measure. Before implementing these designs of measures, though, their effect could be tested. To this end, knowledge of traffic flow theory is needed. Shared by Delft University of Technology, Netherlands.

Date published: 2021 | Content Type: Textbook lectures | License: [CC-BY-NC-SA 4.0](#)

### Computational fluid dynamics: an open-source approach

This book includes a discussion of the physics of fluid flow, numerical methods for approximating fluid flows on computers, and then a series of applied test cases. Through a combination of open-source tools including Gmsh, SU2, and Paraview, you can be running CFD simulations on your computer in a matter of minutes without any expensive licenses. A number of Python codes that can be run interactively in the cloud introduce you to the basics of numerical methods and how to start writing your own CFD codes! Published by Concordia University, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 3.0](#)

### Fundamentals of compressible fluid mechanics

This book, Fundamentals of Compressible Flow, describes the fundamentals of compressible flow phenomena for engineers and others. This book is designed to replace the book(s) or instructor's notes for the compressible flow in (mostly) undergraduate classes for engineering/science students. Published by Genick Bar-Meir.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Technology and management applied in construction engineering projects

This book focuses on fundamental and applied research on construction project management. It presents research papers and practice-oriented papers written by 35 well experienced authors. The common subject of research concerns the development of methods and tools for modelling multi-criteria processes in construction engineering. This book is a reprint of the Special Issue Technology



and Management Applied in Construction Engineering Projects that was published in Applied Sciences. Published by MDPI.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Hydraulics and electrical Control of hydraulic systems

Textbook and YouTube playlist covering hydraulics math, Pascal's Law, hydraulic schematics, fluid properties, series and parallel hydraulic circuits, regenerative extension, accumulators, flow control valves and flow control methods, pressure control valves, pumps, and electrically controlled hydraulic systems. Published by Open Oregon Educational Resources.

Date published: 2021 | Content Type: Textbook and video lectures | License: [CC-BY-NC 4.0](#)

## Engineering, Electrical (Aircraft Maintenance, Renewable Energy)

See also: [Engineering](#), [Built Environment](#), [Sustainability](#)

### The effectiveness of membrane materials in green alternative energy and environmental technologies

Green process engineering, which is founded on the concepts of the process intensification approach, can make a significant contribution to industrial sustainability. Article in Green Energy and Environmental Technology Journal.

Date published: 2022 | Content Type: Article | License: [CC-BY 4.0](#)

### Generation of electricity from agricultural waste

This research reveals the great potential of organic waste, mainly fruit waste, as fuel for the generation of electrical energy through the use of microbial fuel cell technology, due to the high content of chemical substances for chemical oxidation-reduction reactions. Article in Green Energy and Environmental Technology Journal.

Date published: 2022 | Content Type: Article | License: [CC-BY 4.0](#)

### Who, how and how far? renewable energy transitions in industrialized and emerging countries

The purpose of this paper is to analyze the current implementation status of renewable energy projects, analyzing not only the five country leaders during the last decade, in terms of their installed capacity, but also a set of emerging countries playing an important role at regional levels (the who of energy transitions), the sources of green energy that they have chosen (how the transitions are being done), and the trends in greenhouse gas reduction that they have achieved (how far the transitions have progressed). Article in Green Energy and Environmental Technology Journal.

Date published: 2022 | Content Type: Article | License: [CC-BY 4.0](#)

### **Protection challenges of green technology in power distribution system**

This paper narrates the challenges to green energy technology implementation in the distribution system. Article in Green Energy and Environmental Technology Journal.

Date published: 2022 | Content Type: Article | License: [CC-BY 4.0](#)

### **Aerospace mechanics of materials**

This course deals with basic material and geometry dependent analysis of structures. In this course, you will investigate how these material properties, in combination with structural geometries, affect the design and performance of basic structural elements under axial, torsion, bending and shear loading. It features exercises, lectures and readings. Created by TU Delft, Netherlands.

Date published: No information available | Content Type: Course | License: [CC-BY 4.0](#)

### **Electronic power conversion**

This course is an introduction to power electronics. First the principles of power conversion with switching circuits are treated as well as main applications of power electronics. Next the basic circuits of power electronics are explained, including ac-dc converters (diode rectifiers), dc-dc converters (non-isolated and isolated) and dc-ac converters (inverters). Related issues such as pulse width modulation, methods of analysis, voltage distortion and power quality are treated in conjunction with the basic circuits. The main principles of operation of most commonly used power semiconductor switches are explained. Finally, the role of power electronics in sustainable energy future, including renewable energy systems and energy efficiency is discussed. Created by TU Delft, Netherlands.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### **Energy supply systems for buildings**

In this course, you will discover the supply side of buildings' energy chain. The first step is to consider how to convert natural resources into the energy needed by buildings: what are the options to create heat, cold and electricity? You will learn about efficiency and use this concept to estimate building's primary energy use and carbon emissions. You will study the performances of single heating systems like electrical heating, gas, or renewables like biomass, solar boilers and geothermal heat, followed by single cooling systems like evaporative cooling and environmental cold. This course includes video lectures and readings. Shared by TU Delft, Netherlands.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-ND 4.0](#)

### **Lecture notes on Quantum Electrical Circuits**

During the last 30 years, stimulated by the quest to build superconducting quantum processors, a theory of quantum electrical circuits has emerged, which is called circuit quantum electrodynamics or circuit-QED. These lecture notes aim at giving a comprehensive, theoretically oriented, overview of this subject for Master or PhD students in physics and electrical engineering. Shared by TU Delft, Netherlands.

Date published: 2024 | Content Type: Lecture notes | License: [CC BY-NC 3.0](#)

### Applied electrical engineering fundamentals

The course provides a practical introduction to electronics. It was written to help students to master the theory and also to practice and gain confidence. This book introduces a set of electrical/electronics topics theoretically and provides the usual pencil and paper problems to practice the theory. This is followed by a series of hands-on experiments designing, building and testing circuits. These circuit experiments are designed to help students reinforce, make sense of, and gain confidence in their learning of the theory. Published by University of Massachusetts, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Py2Fly: a library for rapid aerodynamic analysis

Py2Fly is a collection of simple Jupyter notebooks to compute the aerodynamic performance of airfoils via thin airfoil or vortex panel methods, of finite wings using the vortex lattice method, and to predict general aircraft performance characteristics including lift to drag ratios, fuel consumption, power required, climb rate, and many others. It also includes a handy NACA 4-digit airfoil generator to be used with the aerodynamics solvers. Published by Concordia University, Canada.

Date published: 2022 | Content Type: Jupyter notebook | License: [CC-BY-NC 3.0](#)

### Aerodynamics and aircraft performance, 3rd edition

Aerodynamics and Aircraft Performance, 3rd edition Intended for undergraduates, this text provides “stand alone” coverage of basic, subsonic, aircraft performance preceded by an introduction to the basics of aerodynamics that will provide a background sufficient to the understanding of the subjects to be studied in aircraft performance.

Date published: 2023 | Content Type: Textbook | License: [CC-BY](#)

### Introduction to aerospace flight vehicles

This ebook provides a comprehensive introduction to aerospace engineering, covering various topics in an interactive and engaging format. It uses evidence-based teaching practices such as scaffolded learning to help students and other interested individuals understand and apply the material to multiple problems. The ebook includes detailed text and illustrations, worked examples, self-

assessment quizzes, and opportunities for further discussion in and out of the classroom. Published by Embry-Riddle Aeronautical University, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Electrical circuit analysis 1

Contains video lectures and associated study guides used to support the flipped classroom approach to teaching basic electricity and electronics. Published by Open Oregon Educational Resources.

Date published: 2024 | Content Type: Textbook and video lecturers | License: [CC-BY-NC-SA 4.0](#)

### Solar energy: photovoltaic (PV) systems

This course outlines how to turn solar cells into full modules; and how to apply full modules to full photovoltaic systems. The course will widely cover the design of photovoltaic systems, such as utility scale solar farms or residential scale systems (both on and off the grid). You will learn about the function and operation of various components including inverters, batteries, DC-DC converters and their interaction with both the modules and the grid. Created by TU Delft, Netherlands.

Date published: 2024 | Content Type: Textbook and video lecturers | License: [CC-BY-NC-SA 4.0](#)

## Engineering, Mechanical

See also: [Engineering](#)

### Robot locomotion mini hackathon

The learning outcomes of this resource are that students will be able to: describe the basics of Robots, describe basic hardware and software of the LEGO Robot, and write sequential code for LEGO Robot to move. Published by CUNY Academic Works.

Date published: 2019 | Content Type: Activity | License: [CC-BY-NC-SA](#)

### Energy harvesting technology for IoT edge applications

Chapter in the book Smart Manufacturing – When Artificial Intelligence Meets the Internet of Things

Date published: 2021 | Content Type: Book chapter | License: [CC-BY-NC](#)

### Can renewable energy sources power the world?

Learning outcomes: understand at an introductory level the basic physical principles underlying the operation of renewable energy systems; understand the key role of the Sun as the main source of

renewable energy; be aware of the essential characteristics of energy demand and supply in the UK and the world; be aware of the principal renewable energy technologies and their main characteristics; and be aware of some of the factors that are working to promote the deployment of renewable energies and those acting to inhibit it. Course duration is 24 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### **Additive manufacturing**

Learning outcomes: describe additive manufacturing and explain its advantages and disadvantages; explain the processes used in additive manufacturing for a range of materials and applications; understand the role of additive manufacturing in the design process and the implications for design; describe the effects of surface finish and microstructural properties on behaviour for components produced using additive manufacturing; and display an awareness of residual stresses that may occur during additive manufacturing and their effects. Free registration required. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA](#)

### **Engineering reflection guidebook**

This resource includes two interactive modules: one for training undergraduate students on writing a reflection based on the “What? So what? Now what?” model, and another to guide instructional teams with evaluating and providing feedback on a reflection essay. This book also provides an instructor toolkit to help teaching teams create their own reflection assignments based on the learning outcomes of their courses. Published by McMaster University, Canada.

Date published: 2022 | Content Type: Guidebook | License: [CC-BY-NC-SA](#)

### **Mind of the universe: robots in society**

This course is a spin-off of the “Mind of the Universe” documentary series, created by the Dutch broadcasting company VPRO and professor Robbert Dijkgraaf, Princeton University. It consists of lecture videos and readings for four modules. Published by Delft University of Technology.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA](#)

### **Advances in mechanical systems dynamics**

This Special Issue aims at disseminating the latest research achievements, findings, and ideas in mechanical systems dynamics, with particular emphasis on applications that are strongly integrated with other systems and require a multi-physical approach.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Engineering systems, dynamics, modelling, simulation, and design

This open educational resource presents effective system modelling methods, including Lagrangian and bond graph, and the application of a relevant engineering software tool, 20-sim. The content is designed for engineering students and professionals in the field to support their understanding and application of these methods for modelling, simulation, and design of engineering systems.

Published by British Columbia Institute of Technology.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

## Engineering, Polymer

### Introduction to polymers

Learning outcomes: isolate the key design features of a product which relate directly to the material(s) used in its construction; indicate how the properties of polymeric materials can be exploited by a product designer; describe the role of rubber-toughening in improving the mechanical properties of polymers; identify the repeat units of particular polymers and specify the isomeric structures which can exist for those repeat units; estimate the number- and weight-average molecular masses of polymer samples given the degree of polymerisation and mass fraction of chains present. Free registration required. Shared by the Open University.

Date published: No information available | Content Type: Course | License: [CC-BY-NC-SA](#)

### The 2nd international online conference on polymer science—polymers and nanotechnology for industry 4.0

The field of polymer composites is currently an area of intense research. The 2nd international Online Conference on Polymer Science—Polymers and Nanotechnology for Industry 4.0 was held on 1–15 November 2021.

Date published: 2022 | Content Type: Conference Proceedings | License: [CC-BY](#)

### Open linear algebra book

This book is suited for a standard linear algebra course for engineering students at a bachelor level. Except for some basic algebra skills generally taught in secondary education, no prior knowledge is expected. Published by Delft University of Technology, Netherlands.

Date published: 2024 | Content Type: Interactive Textbook | License: [CC-BY 4.0](#)

### Rheology and processing of polymers

This book covers the latest developments in the field of rheology and polymer processing, highlighting cutting-edge research focusing on the processing of advanced polymers and their

composites. It demonstrates that the field of rheology and polymer processing is still gaining increased attention. Presented within are cutting-edge research results and the latest developments in the field of polymer science and engineering, innovations in the processing and characterization of biopolymers and polymer-based products, polymer physics, composites, modeling and simulations, and rheology.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Advances in rheology of materials**

This book is a compilation of works by experts in their respective areas of specialization and covers a wide range of applications. The book will be useful both to experts in this area of research and to newcomers from a range of specialisations. Published by IntechOpen.

Date published: 2023 | Content Type: Textbook | License: [CC-BY 3.0](#)

### **Modification and processing of biodegradable polymers**

This textbook publishes original work and reviews about the current trends and technologies for the modification and processing of biodegradable polymers and its composites aimed at improving their properties and extending the application possibilities. Edited by Krzysztof Moraczewski of the University Bydgoszcz Poland.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Recent advances in polymer processing**

Explore the forefront of polymer processing with our Special Issue, a curated collection of cutting-edge research and reviews focusing on the machining processes of polymers. Delve into the intricate correlations between processing parameters, surface quality, and material removal mechanisms, unlocking the full potential of polymers in aerospace, optical engineering, and biological engineering. Authored by leading experts in the field, this compilation promises a detailed exploration of the state of the art, offering invaluable insights for researchers and industry professionals alike.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Renewable polymers: processing and chemical modifications**

The utilization of bio-resourced macromolecules for polymer applications has been the subject of increasing interest, mainly for sustainability and functionality reasons. This book is a reprint of the Special Issue Renewable Polymers: Processing and Chemical Modifications that was published in Processes. Published by MDPI books.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Environmentally friendly polymers and polymer composites**

This book compiles the most recent research works in biopolymers, their blends and composites, and the use of natural additives, such as vegetable oils and other renewable and waste-derived liquids, with their marked environmental efficiency devoted to developing novel sustainable materials. It is a reprint of the Special Issue Environmentally Friendly Polymers and Polymer Composites that was published in Materials. Published by MDPI Books.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Functional polymer composites: synthesis, characterization and application**

This reprint of the Special Issue Functional Polymer Composites: Synthesis, Characterization and Application that was published in Polymers, aims to conduct rigorous research focused on innovative smart materials that make significant contributions to nanotechnology. Published by MDPI Books

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Self-assembly of polymers**

This reprint of the Special Issue Self-Assembly of Polymers that was published in Micromachines, highlights contributions (research papers, short communications, review articles) that focus on recent developments in polymer self-assembly for both fundamental understanding the assembly phenomenon and real applications. Published by MDPI Books.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Polymers I**

It was delivered as part of an undergraduate Introduction To Solid-State Chemistry. It includes a discussion of polymers, radical polymerization, and condensation polymerization. Duration is 47 minutes. This video was shared by MIT.

Date published: 2018 | Content Type: Video | License: [CC-BY-NC-SA 4.0](#)

### **Mechanical behavior of polymers**

This playlist, Understanding Solids, features video 34 Mechanical Behaviour of Polymers (duration 10 minutes) in addition to other potentially relevant videos. Shared by Dr Scott Ramsay, an engineer based in Ontario, Canada.

Date published: 2020 | Content Type: Video series | License: [CC-BY](#)

## **Engineering, Music (Sound Engineering)**

See also: [Engineering](#)



### Dancecult

Dancecult is a peer-reviewed, open-access e-journal for the study of electronic dance music culture (EDMC). A platform for interdisciplinary scholarship on the shifting terrain of EDMCs worldwide, the journal houses research exploring the sites, technologies, sounds and cultures of electronic music in historical and contemporary perspectives. This journal is supported by Maynooth University and academic institutions in the UK.

Date published: 2008-current | Content Type: Journal | License: [CC-BY-NC-SA 3.0](#)

### DIY music and music culture in Ireland

This journal issue, from the Irish Communications Review, was published in 2022. It was published by TU Dublin, Ireland.

Date published: 2022 | Content Type: Journal Issue | License: [CC-BY-SA 4.0](#)

### A requiem for Edward Snowden

A Requiem for Edward Snowden is a 50-minute audio-visual work by Matthew Collings and Jules Rawlinson which addresses surveillance, data privacy, loss of faith, moral choice, and personal sacrifice in an environment where we are totally reliant on electronic communication and daily routines; and in which our privacy is routinely compromised. The work is performed by a chamber trio comprising violin, cello and clarinet, with live electronics and live visuals. The work is multi-layered and textured, both sonically and visually, and includes computer generated, fixed-media and live captured imagery, manipulated in real-time. This output makes an original contribution to performance practice knowledge about audiovisual 'comprovisation' (fixed composition with open or improvised elements) using audio-visual narratives of surveillance and sousveillance. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Portfolio | License: [CC-BY 4.0](#)

### Hybrid soundscapes

Hybrid Soundscapes is a multi-component body of outputs investigating acoustic ecology. It is comprised of sound installation, an album, participatory community engagement activities and peer-reviewed publications. The output was the outcome of three years of practice-led research into the impact of renewable energy technology on rural and natural landscapes. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Portfolio | License: [CC-BY 4.0](#)

### Music appreciation

The author of this text has intentionally kept it general in nature in order to create a platform for those who want to expand content into more in depth studies of the mentioned concepts and traditions. Published by the University System of Georgia.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Understanding music past and present

Understanding Music: Past and Present creates a roadmap from some of the earliest known origins of music to modern day. This linear approach allows the reader to trace the history and evolution of music through the ages. Understanding Music: Past and Present is designed to grow the reader's appreciation of music through improved understanding and listening skills, allowing the reader to develop his or her own informed opinions and express them. Published by the University System of Georgia.

Date published: 2020 | Content Type: Textbook and videos | License: [CC-BY-SA 4.0](#)

### Music and the human experience

This text was created to help students to love music and understand that music is one of the most powerful and meaningful aspects of the human experience. Ancillary materials, including outcomes and assignments and online recital activities are also provided. Published by the University System of Georgia.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-ND 4.0](#)

### Resonances: engaging music in its cultural context

The musical examples in this book are drawn from classical, popular, and folk traditions from around the globe. These examples are organized into thematic chapters, each of which explores a particular way in which human beings use music. Topics include storytelling, political expression, spirituality, dance, domestic entertainment, and more. The chapters and examples can be taught in any order, making Resonances a flexible resource that can be adapted to your teaching or learning needs. This textbook is accompanied by a complete set of PowerPoint slides, a test bank, and learning objectives. Published by the University System of Georgia.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### Fundamentals of music theory

This book outlines the building blocks of musical stave (sometimes known as staff) notation, a language designed to communicate about musical ideas which is in use around the world. The resources in this e-book include video lectures and their transcripts, as well as supporting text explanations, examples and illustrations. Published by the University of Edinburgh.

Date published: 2021 | Content Type: Textbook and teaching materials | License: [CC-BY-NC-SA 4.0](#)

# Engineering, Software

See also: [Engineering](#), [Information Technology](#), [Animation](#)

## [Tools and techniques in software engineering: for Brooklyn College CIS undergraduates](#)

Includes content on project planning, software teams, language specifications, configuration management, build tools, JavaScript, CSS, Markup Languages and HTTP. Shared by City University of New York.

Date published: 2023 | Content Type: Handbook | License: [CC-BY-NC-SA](#)

## [Interactive notebooks on software design](#)

Contents: Introduction to Programming; Data and Operators; Functions; Conditions; Loops; Arrays; Strings and Files; Object-Oriented Programming. Published by staff from Kirkwood Community College, US.

Date published: 2022 | Content Type: Jupyter notebooks | License: [CC-BY-NC-ND](#)

## [Patterns for beginning programmers: with examples in Java](#)

Programming patterns are solutions to problems that require the creation of a small fragment of code that will be part of a larger program. Hence, this book is about teaching you how to write such fragments of code. However, it is not about teaching you the syntax of the statements in the fragments, it assumes that you already know the syntax. Instead, it is about finding solutions to problems that arise when first learning to program. Published by James Madison University Libraries, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

## [Programming fundamentals](#)

Contents: Introduction to Programming; Data and Operators; Functions; Conditions; Loops; Arrays; Strings and Files; Object-Oriented Programming. Published by staff from Kirkwood Community College, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-SA](#)

## [Fundamental Approaches to Software Engineering](#)

This open access book constitutes the proceedings of the 27th International Conference on Fundamental Approaches to Software Engineering, FASE 2024, held in conjunction with ETAPS 2024 which took place in Luxembourg in April 2024. The 14 full papers included in this book were carefully reviewed and selected from 41 submission. The proceedings also include 5 short papers from the

Test-Comp 2024 event that was hosted by FASE. They deal with the broad field of software engineering, focusing on requirements, design, architecture, modeling, applications of AI to software engineering and software engineering for AI-based systems, quality, model-driven engineering, processes, and software evolution.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

## Entrepreneurship

See also: [Accounting](#), [Business](#), [Management](#), [Marketing](#)

### Managing complexity in the 21st century: entrepreneurship mindsets

Learning outcomes include: collaboration; Emotional Intelligence; Futures Thinking; Systems Thinking; Innovation: and confidence and mindset growth in entrepreneurship. Created by Centennial College, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-SA](#)

### Entrepreneurship – from ideas to reality

Learning outcomes: identify strengths of an entrepreneur and what support is needed to run a business; evaluate, develop and refine a business idea and create a business model; identify the gaps in resources and capabilities needed to grow a new business; create a plan to develop capability and make progress growing a business; and create a pitch to gain support for development of a business. Course duration is 24 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### A freelance career in the creative arts

Learning outcomes: describe the highs and lows of self-employment; reflect on the skills and strengths a freelancer needs, and identify where to find additional support when required; understand the practicalities of running a small business and know where to look for sources of investment; recognise the value of audience segmentation, market research and targeted marketing; develop a business plan, identifying next steps and strategies to manage both setbacks and success. Course duration is 24 hours. Shared by the Open University.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Self assessment: are you an entrepreneur?

Short, reflection based activity. Created by staff from the University of Toronto, Canada.

Date published: 2020 | Content Type: H5P Presentation | License: [CC-BY-NC-SA 4.0](#)

## Entrepreneurship

This textbook is intended for use in introductory Entrepreneurship classes at the undergraduate level. Due to the wide range of audiences and course approaches, the book is designed to be as flexible as possible. Theoretical and practical aspects are presented in a balanced manner, and specific components such as the business plan are provided in multiple formats. Entrepreneurship aims to drive students toward active participation in entrepreneurial roles, and exposes them to a wide range of companies and scenarios. Published by OpenStax.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

## Entrepreneurship – digital transformation, education, opportunities and challenges

Digital transformation and artificial intelligence play an important role in entrepreneurship. This book adopts a multidisciplinary approach to entrepreneurship, exploring how entrepreneurial processes contribute to developing new products and services and innovative business models. Recent shifts in business models focus on digital transformation and well-being. Entrepreneurship is evolving with innovative approaches, and artificial intelligence is revolutionizing marketing strategies and market engagement. It is designed for entrepreneurs, researchers, teachers, students, and anyone interested in understanding and leveraging these trends. Published by IntechOpen.

Date published: 2025 | Content Type: Textbook | License: [CC-BY-SA](#)

## The psychology of entrepreneurship: new perspectives

This book takes stock of the advances in the field of the psychology of entrepreneurship with all new chapters and presents the latest findings on traditional topics, such as cognition, motivation, affect, personality, and action. It was compiled by a number of international academics in the field.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

## Introduction to entrepreneurship

This textbook includes videos and activities to help students to learn about entrepreneurship and what makes entrepreneurs successful, all while developing their entrepreneurial skills. Published by Kwantlen Polytechnic University, Canada.

Date published: 2021 | Content Type: Textbook and video lectures | License: [CC-BY-NC-SA 4.0](#)

## Digital entrepreneurship for women

Features Toolkit, Guidelines and Assessment. EU funded.

Date published: 2023 | Content Type: Toolkit | License: [CC-BY-NC](#)

## Environmental Science (Climate)

See also: [Sustainability](#)

### Climate toolkit – a resource manual for science and action

This resource manual provides tools and strategies to explore the underlying science of climate change. It contains a collection of activities, including web-based climate models, climate data archives, interactive atlases, policy papers, and “solution” catalogs to help readers do their own climate research and devise their own perspective. Created by staff from the Portland State University.

Date published: 2024 | Content Type: Book | License: [CC-BY-NC](#)

### Mechanisms of soil organic carbon sequestration and implications for management

Organic carbon sequestration is delineated from the different mechanisms underlying the storage of organic matter in mineral soils. The scene is set with definitions of the major terms within the complex of organic matter formation in soils, followed by describing the types of organic matter entering the soil and the major processes during turnover and the protective mechanisms leading to organic matter storage in soils. Detritusphere and rhizosphere are identified as soil compartments with high and specific organic matter input. From the process complex of OM degradation and binding, the potential of different soils for sequestering organic carbon is delineated and its limitations discussed with regard to the possibility of C saturation of mineral soils. In the light of these considerations, soil management options are deduced either by increasing organic carbon inputs to the soil by improved land use/management practices or by decreasing organic carbon outputs. Published by the Technical University of Munich, Germany.

Date published: 2023 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

### Irrigation and drainage

The course will discuss the objectives and functions of water management systems for irrigation and drainage purposes. Analysing system requirements in terms of technical engineering constraints, management possibilities and water users (wishes and options) is central. This includes the design and operation of regulation structures, dams, reservoirs, weirs and conveyance systems; balancing water supply and water requirements in time and space is a main focus of analysis too. Exercises, lectures, exams and readings are included. Related Water Management courses are also available. Created by TU Delft, Netherlands.

Date published: 2020 | Content Type: Course | License: [CC BY-NC-SA 4.0](#)

### National park service US

Learn about the natural resources of national parks, including conservation. Material created by the NPS and presented on this website, unless otherwise indicated, is generally considered in the Public Domain.

Date published: 2024 | Content Type: Website | License: Public Domain

### USGS science for a changing world

The USGS is a primary Federal source of science-based information on ecosystems, land use, energy and mineral resources, natural hazards, water use and availability, and updated maps and images of the Earth's features available to the public. USGS-authored or produced data and information are considered to be in the Public Domain, unless otherwise indicated.

Date published: Varied | Content Type: Website | License: Public Domain

### Distribution of biomass on the planet, encyclopedia of the environment

This resource explores biodiversity, living matter, biomass and the impact of humanity on the biosphere. The Encyclopedia of the Environment by the Association des Encyclopédies de l'Environnement et de l'Énergie ([www.a3e.fr](http://www.a3e.fr)), contractually linked to the University of Grenoble Alpes and Grenoble INP, and sponsored by the French Academy of Sciences.

Date published: 2023 | Content Type: Learning Objects | License: [CC-BY-NC-SA](#)

### Sustainability metrics

In this lesson students will use an analytical framework with publicly available data to formulate questions, analyze data, and report metrics of sustainability. Shared as part of the CLEAN: Climate Literacy and Energy Awareness Network.

Date published: 2022 | Content Type: Lesson Plan | License: Educational Use Permitted

### Powering the future – the role of oil and gas companies in the energy transition

This podcast features a guest who shared their insights on the energy sector after spending nearly a decade in oil and gas in Nigeria and on the impact of the Russia-Ukraine War on energy markets and the transition to net-zero. University of Oxford Podcasts.

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Climate and energy educational resource collection

The CLEAN Collection is a high-quality and rigorously reviewed collection of climate and energy educational resources and lesson plans aligned with the Climate Literacy and Energy Literacy frameworks, and the Next Generation Science Standards. CLEAN is funded by grants from the National Oceanic and Atmospheric Administration, the National Science Foundation, the Department of Energy, and NASA.

Date published: Varied | Content Type: Resource Collection | License: [CC-BY-NC-SA 3.0](#)

### **ClimateSim**

ClimateSim is a science education tool primarily that can be used as a virtual lab. It makes climate simulation accessible in a simplified form to undergraduate students and provides an easy-to-use simulation platform for performing virtual climate experiments. Although it is not openly licensed it was created for use by educators.

Date published: No information available | Content Type: Simulator | License: License not declared, but created for education

### **Monitoring animal populations and their habitats: a practitioner's guide**

This book provides a framework that managers of natural resources can use to design monitoring programs that will benefit future generations by providing the information needed to make informed decisions. In addition the authors offer tools and approaches that engage individuals in our society in monitoring programs. Published by Oregon State University.

Date published: 2020 | Content Type: Textbook | License: [CC BY-NC-SA](#)

### **Community resilience to climate change: theory, research and practice**

This book asks the question: "How do we make a city and its inhabitants resilient to climate change?" It then explores various perspectives on resilience; theoretical and practical descriptions; regional climate resilience plans; and opportunities for integrating salient concepts into climate resilience planning efforts. Published by Portland State University, Oregon, US.

Date published: 2020 | Content Type: Textbook | License: [CC BY-NC](#)

### **Conservation biology in sub-saharan Africa**

Easy to read, this lucid and accessible textbook includes fifteen chapters that cover a full range of conservation topics, including threats to biodiversity, environmental laws, and protected areas management, as well as related topics such as sustainability, poverty, and human-wildlife conflict. Written by John W. Wilson and Richard B. Primack and published by Open Book Publishers.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Introduction to climate science. 1st edition**

This book describes how Earth's climate is changing, how it has been changing in the recent geological past and how it may change in the future. It covers the physical sciences that build the foundations of our current understanding of global climate change such as radiation, Earth's energy balance, the greenhouse effect and the carbon cycle. Both natural and human causes for climate change are discussed. Impacts of climate change on natural and human systems are summarized.



Ethical and economical aspects of human-caused climate change and solutions are presented. Published by Oregon State University.

Date published: 2019 | Content Type: Textbook | License: [CC BY-NC](#)

### iNaturalist

Vision: iNaturalist's vision is a world where everyone can understand and sustain biodiversity through the practice of observing wild organisms and sharing information about them.

Date published: Varied | Content Type: Website | License: [CC BY-NC](#)

## Finance and Financial Markets

See also: [Accounting](#)

### Lehman college: corporate finance and financial management

This lecture slide deck discusses the importance of financial information in both individuals personal and business lives. It includes description of the important features of the four main types of firms. Then, discusses the three main types of decisions a financial manager makes. Finally, it discusses the tax implications for the different corporate entities. Published by Lehman College, US.

Date published: 2019 | Content Type: Lecture Slides | License: [CC-BY-NC-SA](#)

### Venture capital around the world

This podcast involves a discussion of what criteria funds use to evaluate founder pitches and how investing in startups in developing markets differs from more mature economies like the UK. University of Oxford Podcasts.

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Deciphering markets and money: a sociological analysis of economic institutions

This book solves the problem of the specific social conditions of an economic order based on money and the equal exchange of commodities. Jukka Gronow scrutinizes the relation of sociology to neoclassical economics and reflects on how sociology can contribute to the analyses of economic institutions. Published by Helsinki University Press.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Revenue management illustrated

The book aims to demystify the process of maximising revenue by providing a clear and accessible approach tailored to current economic and business conditions. Detailed mathematical approaches are presented in a way that highlights their practical applications, ensuring that readers can apply these methods to real-world scenarios. Illustrative examples throughout the book demonstrate how the theoretical concepts translate into actionable strategies, making complex ideas more tangible and relevant. Published by University of West Florida, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### Sustainable finance

This book provides a more holistic view of finance and answers the question of how business and investors can incorporate environmental and social factors into financial decision-making. University of Queensland, Auckland University of Technology, Australia.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC](#)

### Principles of finance

Principles of Finance provides a strong foundation in financial applications using an innovative use-case approach to explore their role in business decision-making. An array of financial calculator and downloadable Microsoft Excel data exercises also engage students in experiential learning throughout. With flexible integration of technical instruction and data, this title prepares students for current practice and continual evolution.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Mathematics of finance

This textbook is designed to make the study of financial mathematics accessible and engaging for everyone with diverse learning styles and needs. Primarily aimed at first-year college and university students enrolled in business programs, its content is crafted to be of value to learners across all disciplines. Whether learners are encountering the Mathematics of Finance for the first time or seeking a comprehensive refresher, this textbook stands as a versatile resource. Encompassing a wide array of topics ranging from simple to complex financial concepts, the textbook offers dynamic problem sets with instant feedback, real-world examples, interactive graphs, exercise questions, video tutorials, and web applications featuring financial mathematics solvers. Its unique structure accommodates different instructional methods, allowing learners to focus on either financial calculator or algebraic formula approaches based on their preferences and learning goals.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Hospitality and Tourism (Culinary Arts)

See also: [Accounting](#), [Business](#), [Entrepreneurship](#), [Marketing](#)

### **We eat: A student-centered cookbook**

This cookbook is a collection of student authored recipes, which arose from experiential learning in the Humanities and Social Sciences. It includes photos, recipes, and stories from the class community. Shared by CUNY University, NYC.

Date published: 2020 | Content Type: Book | License: [CC-BY 3.0](#)

### **Cooking without a cooker: a recipe book for people experiencing homelessness**

This book provides recipes based on what cooking appliances the user has available to them. This may be especially helpful for people who are living in a hostel, or temporary accommodation which doesn't have a wide range of cooking facilities. Published by the University of Edinburgh.

Date published: 2021 | Content Type: Book | License: [CC-BY-NC 4.0](#)

### **Culinary production and operations**

This textbook was created for undergraduate students. It covers food service operations, safety and sanitation, tool and equipment, flavouring of foods, food identification, principles of cooking, protein fabrications, and presentation techniques. Created for students of West Hills College Lemoore.

Date published: 2021 | Content Type: Course textbook | License: [CC-BY-NC-SA 4.0](#)

### **Mentoring for food entrepreneurs**

This self-directed, interactive course designed to help people in the agri-food sector learn about mentoring. Created by ATU, Ireland. Registration required. This course was funded by the HCI Pillar 3.

Date published: No information available | Content Type: Course | License: [CC-BY-SA](#)

### **Reducing food waste in the home**

This course on reducing food waste in the home, created by ATU, Ireland and FoodCloud Academy. Registration required. Browse the available courses at <https://freecourses.atu.ie/local/explore/> to register for this course.

Date published: No information available | Content Type: Course | License: [CC-BY-SA](#)

### **Sustainable tourism future course**

Sustainable Tourism Future examines the current landscape of tourism and hospitality with the focus on fostering the skills and knowledge to develop innovative, sustainable products to rebuild the distressed industry. The course is designed to be delivered in a blended learning context with a synchronous component (face-to-face/virtual) and an asynchronous component (completed outside

scheduled class time). The course material was also created with flexibility in mind. It was compiled by staff from a number of Canadian universities.

Date published: 2022 | Content Type: Course | License: [CC-BY](#)

### Culinary foundations

This text was written by Chef Randy Cheramie for CULA 111: Culinary Foundations at the Chef John Folse Culinary Institute at Nicholls State, US. University.

Date published: 2024 | Content Type: Course textbook | License: [CC-BY-NC-SA 4.0](#)

### European journal of food, drink and society

EJFDS invites submissions that challenge and stimulate debate across contemporary and historical issues relating to food and drink within society. The Journal seeks to critically examine food and drink and their contexts within and across traditional and emerging disciplines. Submissions are invited from those engaged in research across the domains that both impact on, and are impacted upon, by the meaning of food and drink within our lives. These domains include, but are not limited to, history, archaeology, cultural studies, tradition, hospitality and education. Published by TU Dublin, Ireland.

Date published: 2021-2023 | Content Type: Journal | License: [CC-BY 3.0](#)

### Open educational resources and hospitality management

This webpage offers a broad selection of hospitality related OER. Most of the resources were created for the North American context. Assess for relevance.

Date published: Varied | Content Type: Resource collection | License: Varied

### Outdoor learning in Canada

The umbrella term of Outdoor Learning encompasses adventurous and environmental learning across four fields ordered by increasing complexity: recreation, education, development, and therapy. Published by staff from Laurentian University, Canada.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Tourism, knowledge and learning

This book contributes to the understanding of how tourism can be designed to provide conditions for learning. This involves learning for tourists, the tourist industry, public authorities and local communities. We explore how tourism, knowledge and learning can be used as means towards sustainable development through current, new or changed structures, concepts, activities and communication efforts. The book should be seen as both an inspiration for tourism actors (e.g.

tourism attractions, policy makers and other industry actors), and a scholarly contribution to further research. This book was compiled by academics from Swedish institutions.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Leadership for food and beverage management

This book currently features content relating to leadership, management, and diversity, equity and inclusion. Additional content is in the process of being added.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Practical learning in hospitality education

This book examines different practical hospitality training work experience models implemented by degree granting institutions throughout the world. Through a series of research essays and reflective case studies, the book explores the range of on and off campus models used by tertiary providers to ensure their students gain practical experience that complements their formal classroom education. The book is organised into five sections: Practical learning in on-campus commercial hotels; Practical learning in on-campus training hotels; Practical learning in on campus training units; Off campus practicums and internships, and; Internship experiences from students and industry. Published by the University of Queensland.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### Introduction to tourism and hospitality in BC

This textbook is an introduction to the tourism and hospitality industry in British Columbia, and is written with a first year college and university audience in mind. It is a collaborative work with input from educators, industry leaders, employers, and past graduates of BC's tourism and hospitality management programs. Published by BCcampus, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Maths for commis chef apprentices

Published by the ETBI, Ireland.

Date published: 2020 | Content Type: Workbook | License: [CC-BY-NC-SA 4.0](#)

## Human Resource Management (Organisational Behaviour)

### What is strategic human resource management?

This course is about the interplay between decision making in HR and the multiple environments within which such decisions are made. The underlying premise is that, normally, better choices are made when they are informed by an understanding of the multiple contexts which are relevant to those choices. Published by The Open University, UK.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### **Workplace learning with coaching and mentoring**

In this course you will consider theoretical and practical issues in planning and managing learning and talent development programmes, explore ideas about coaching and mentoring, different learning theories and philosophies become concrete in the practical decisions you make about learning and talent development. Shared by the Open University, UK.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### **Mediation in collective labor conflicts**

The textbook presents collective labor mediation systems in countries from all over the world, deals with the four-phases model of mediation, for collective conflicts in organizations and provides insights into the perspectives of mediators and third-parties on how their systems work and could be improved. Ireland is not included as a case study within the text, however. Published by Springer Open.

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

### **Sustainable human resource management**

This book offers a selection of papers which explain the impact of smart human resource management on economy. Authors from 14 countries published working examples and case studies resulting from their research in this field. The aim of this book is to help students at the level of BSc, MSc, and PhD level, as well as managers and researchers, to understand and appreciate the concept, design, and implementation of sustainable human resource management solutions. Articles in this book are Open Access and distributed under the Creative Commons Attribution (CC BY) license. The book as a whole is distributed by MDPI under the Creative Commons license CC BY-NC-ND.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### **Motivation in organisations: searching for a meaningful work-life balance**

Motivation in Organisations: Searching for a Meaningful Work-Life Balance extends the current motivation models in business education to include motives of human behaviour that have been neglected for decades. It debunks some of the myths about human motivation (self-interest as the dominant factor, amorality and non-spirituality) and explains why this approach to teaching business is erroneous and leads to wrong and harmful practices in many organisations. In a very personal and engaging style, the author presents a “map of motivations”, based on a humanistic approach to management. Published by Manuel Guillén, from the University of Valencia, Spain

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Organisational behavior

This OpenStax resource aligns to introductory courses in Organisational Behavior. The text presents the theory, concepts, and applications with particular emphasis on the impact that individuals and groups can have on organisational performance and culture. An array of recurring features engages students in entrepreneurial thinking, managing change, using tools/technology, and responsible management.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

## Information Technology (Computer Science, Software Design)

See also: [Engineering](#), [Software](#), [Immersive Digital Media](#), [Artificial Intelligence](#)

### Computer science courses

These courses teach the basics of in-demand skills like programming, information technology, software engineering, systems architecture and management, and networking. Created by Saylor.org Academy. Free registration required.

Date published: No information available | Content Type: Courses | License: [CC-BY 3.0](#)

### Introduction to R with tidyverse

This course is designed to equip you with the essential skills to leverage the power of R and Tidyverse for your work. It is created for novice users and those wanting a refresher. The course begins with a gentle introduction to the user-friendly RStudio interface and the basics of the R coding language, or syntax. It covers how to manipulate, transform, and clean data efficiently, and how to create compelling visualisations to communicate findings effectively. Best practices for reproducible coding will also be covered. Created by Sophie Lee, a UK based statistician and educator.

Date published: 2024 | Content Type: Courses | License: [CC-BY-SA](#)

### The fifth generation (5G) of wireless communication

This collection of research chapters offers a comprehensive overview of recent developments in the field of Electrical and Electronic Engineering. It comprises single chapters authored by various researchers and edited by an expert active in the Electrical and Electronic Engineering research area. Published by Intech Open.

Date published: 2019 | Content Type: Peer-reviewed volume | License: [CC-BY 3.0](#)

### Navigating the Internet of Things in the 22nd century – concepts, applications, and innovations

This book unveils the web of technologies that define our interconnected world, offering a roadmap to understanding its potential and implications. This insightful book explores: concepts and foundations: a primer on IoT's evolution and transformative impact; applications across industries: learn how IoT is revolutionising traditional systems from healthcare to agriculture; ethical and security challenges; and visionary innovations. Published by InTechOpen.

Date published: 2025 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Producing open source software

Producing Open Source Software is a very user friendly book about the human side of open source development. It describes how successful projects operate, the expectations of users and developers, and the culture of free software. Videos are also provided on the homepage. Written by Karl Fogel of Open Tech Strategies, LLC).

Date published: 2005-2023 | Content Type: Textbook | License: [CC-BY-SA](#)

### Programming for computations – python

This textbook provides an introduction to numerical simulations with Python 3.6. Shared by authors from Norwegian universities and published by Springer Open.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Soft computing

This textbook is a comprehensive guide to soft computing techniques in engineering sciences. Published by Springer.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Cellular internet of things for practitioners

This book describes the simplified architecture of an IoT network from the core functional perspective and then presents step-by-step procedures to establish a connection between the IoT device and platform. It practically shows how to connect a cellular IoT module to the Microsoft Azure IoT Hub using the LTE-M technology. Published by British Columbia Institute of Technology.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Computer networks: a systems approach

Suppose you want to build a computer network, one that has the potential to grow to global proportions and to support applications as diverse as teleconferencing, video on demand, electronic



commerce, distributed computing, and digital libraries. What available technologies would serve as the underlying building blocks, and what kind of software architecture would you design to integrate these building blocks into an effective communication service? Answering this question is the overriding goal of this book—to describe the available building materials and then to show how they can be used to construct a network from the ground up. Published by Larry Peterson, Princeton University.

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

### High performance computing

The purpose of this book is to teach new programmers and scientists about the basics of High Performance Computing. Too many parallel and high performance computing books focus on the architecture, theory and computer science surrounding HPC. This book speaks to the practicing chemistry student, physicist, or biologist who need to write and run their programs as part of their research. Published by OpenStax, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### IoT use cases and technologies

This book introduces the IoT use cases and technologies. It uses practical examples to demonstrate the effect of IoT and its potential to change our world, and it discusses the existing wired and wireless communication technologies that have enabled IoT.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Key concepts of computer studies

If you are looking for a quick study guide in Computer Studies, this book is an excellent resource. Skip the lengthy and distracting books and instead use this book to guide your studies, review your knowledge, or help with tutoring. This book quickly gets to the heart of each particular topic, helping students with a quick review before doing homework or preparing for a test.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Web accessibility for developers

Web Accessibility for Developers is a technical resource aimed primarily at programmers. Learn how to develop accessible interactivity on the Web and gain expertise using WAI-ARIA, a W3C specification that enables optimal use of assistive technologies, like screen readers, when navigating the Web. Published by the Toronto Metropolitan University, Canada.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### Introduction to computer programming with Python

This introduction to computer programming with Python begins with some of the basics of computing and programming before diving into the fundamental elements and building blocks of computer programs in Python language. From the installation of Python, Python interactive programming, and integrated development environments to raising and handling exceptions, using compound data types to solve problems, and implement divide-and-conquer processes using functions, classes and modules, this textbook will set students up for success in programming and computing study and practice. The included exercises and projects are designed to hone students' skills. Created by Athabasca University, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Computational and inferential thinking: the foundations of data science**

This introduction to computer programming with Python begins with some of the basics of computing and programming before diving into the fundamental elements and building blocks of computer programs in Python language. From the installation of Python, Python interactive programming, and integrated development environments to raising and handling exceptions, using compound data types to solve problems, and implement divide-and-conquer processes using functions, classes and modules, this textbook will set students up for success in programming and computing study and practice. The included exercises and projects are designed to hone students' skills. Created by Athabasca University, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **The crystal ball instruction manual – version 1.1 volume one: introduction to data science**

This introductory textbook uses a conversational tone to the important pillars of the discipline: exploratory data analysis, choices for structuring data, causality, machine learning principles, and introductory Python programming using open-source Jupyter Notebooks. Published by staff from the University of Mary Washington.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-SA](#)

### **Introduction to databases open course**

This set of ancillary materials for Introduction to Databases, including video mini lectures and accompanying slides, active learning class assignments, a database design project and, quiz questions. Topics include Introduction to Databases, Relational Databases, SQL, Data Modeling, and Database Implementation. Published by Georgia Gwinnett College.

Date published: 2023 | Content Type: Videos, Assignments and Presentations | License: [CC-BY 4.0](#)

### **Introduction to CS and programming using Python**

These videos were created for students with little to no programming experience to convey the role computation can play in solving problems. It uses the Python 3 programming language. Shared by MIT.

Date published: 2024 | Content Type: Video Lecture Series | License: [CC-BY-NC-SA 4.0](#)

### Introduction to database systems for college students

This workbook includes an extensive set of questions to each chapter. Topics include, definitions, normalization, SQL. Examples are in Canadian context, keeping in mind the diverse student population in Canadian colleges and universities, the book uses examples from many countries, languages and cultures. An instructor's book that has answers to the questions, exercises and solutions to model assignments are available to instructors. Published by Algonquin College of Applied Arts and Technology Ottawa, Ontario, Canada

Date published: 2023 | Content Type: Workbook | License: [CC-BY-NC](#)

## Immersive Digital Media (Virtual Reality, 360 Video, Simulation )

See also: [Engineering](#), [Software](#)

Access OER relating to Immersive Digital Media for teaching and learning using our [Pressbook](#)

## Law (Legal Studies)

### OSCOLA citation guide

This citation guide is based on OSCOLA which was devised by the Faculty of Law at Oxford and adapted for Ireland. The citation guide is provided at this link. OSCOLA Ireland has been created under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 License. This means that it can be freely distributed, and used in classrooms by teachers or lecturers.

Date published: 2016 | Content Type: Citation Guide | License: [CC-BY-NC-SA](#)

### The impact of the Covid-19 pandemic on human rights

Europe is characterised by developed liberal democracies that put a strong emphasis on the protection of human rights. Since the 1950's, no major political or economic event has put in question the commitment of the European Union or the Member States to upholding the rule of law and to protecting fundamental human rights. The COVID-19 pandemic presented the first major challenge to these commitments. Despite the existing network of rules protecting human rights, it is undisputed that this network has been undermined by the governmental actions taken in response to the pandemic. This publication is the result of a coordinated research effort by Frederick University academic staff to identify the impact of the COVID-19 pandemic on human rights through doctrinal, comparative, multidisciplinary and empirical research. In particular, the book addresses the following issues: the pandemic as a major challenge for women's working life in the EU; digital transformation in the COVID-19 era; privacy vs public health in the case of COVID-19 tracing apps; effects of the pandemic crisis on general population mental health; employee rights during pandemic

in social sciences; the impact of the pandemic on shipping; how criminal law helps to tackle the pandemic; corruption risks in public procurement in the context of COVID-19; and the continuous mutation of the raised issues among pandemic, law and the state.

Date published: 2024 | Content Type: Citation Guide | License: [CC-BY-SA 4.0](#)

## Management (Leadership)

See also: [Accounting](#), [Business](#), [Marketing](#), [Economics](#), [Entrepreneurship](#)

### Approaching leadership with care

Learning outcomes: explain why care is an essential component of effective leadership; outline the 'Four Ps' of leadership and relate them to real life examples; understand and reflect on the importance of informal leadership; and identify how to develop your own leadership in a way which cares for you and others. Course duration is 5 hours. Shared by the Open University.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Risk management

The course is the result of collaboration between The Open University and Rolls-Royce PLC. This collaboration has ensured that contemporary theories about risk management are explored within the context of an international company that is required to apply these theories in its business practices.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Understanding management: I'm managing thank you!

This course provides you with a set of ideas for developing your approach to managing your own work what we might call self-management. In order to do this, we will examine some of the key processes of management decision making, such as allocating time, staff, physical and financial resources: prioritising and problem solving and monitoring performance. Course duration is 5 hours. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### The Irish journal of management

The Irish Journal of Management (IJM) aims to publish well-written and well researched articles that will contribute to the understanding of management-related issues in both Irish and international contexts.

Date published: 2015-current | Content Type: Journal | License: [CC-BY-NC-ND 4.0](#)

### Workarounds: the benefits and the risks

This book explores the origins of workarounds, the challenges of identifying and managing them, and the potential benefits and risks involved. It discusses the use of workarounds in different settings and also takes a look at future challenges. This book is written as a text book for information science, computer science and business studies students. Published by the University of Sheffield.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### RMIT strategic management case studies

This collection of business strategy case studies have been written for RMIT MBA strategy courses. The case studies in this book reflect the approach in strategic management: the structure of the external environment (or PESTLE) analysis, the Porter five forces analysis, an appraisal of the company strategy and status of business units and functions, and a SWOT analysis that helps to facilitate synthesis of the case study situation. This sets the student up to craft recommendations on improving shareholder and stakeholder value. Think about the corporate level of the firm, the network level, the business level and the functional level. What can be improved? In the RMIT MBA strategy courses students attempt five recommendations. Published by RMIT University, Australia.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### Introduction to operations management

Topics covered include: operations strategy and competitiveness; forecasting; strategic capacity planning; facility location; managing quality; supply chain management; inventory management; just-in-time and lean systems. Published by Seneca College, Canada.

Date published: No information available | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Emergence of a strategic leader

This book was compiled to accompany a programme in University of New Hampshire. It includes content on strategic planning, strategic management, planning tools; marketing; and competing in international markets.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### Strategic management

This book is an introduction to the key topics and themes of strategic management. The open textbook is intended for a senior capstone course in an undergraduate business programme and suitable for a wide range of undergraduate business students. The text presents examples of familiar companies and includes case studies, end of section key takeaways, exercises, and links to external videos, and an end-of-book glossary. Published by Virginia Tech, US. A related testbank is available here: <https://vtechworks.lib.vt.edu/items/fe40065d-2e93-43d3-902d-8c794ff00536>

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Problem solving in teams and groups**

This book addresses decision making, groups, group decision making, power and conflict within groups. Published by the University of Kansas, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Principles of management**

Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Published by OpenStax.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Introductory business statistics**

Introductory Business Statistics is designed to meet the scope and sequence requirements of the one-semester statistics course for business, economics, and related majors. Core statistical concepts and skills have been augmented with practical business examples, scenarios, and exercises. The result is a meaningful understanding of the discipline, which will serve students in their business careers and real-world experiences. Published by OpenStax.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Developing Organizational and managerial wisdom**

This book presents the results of novel research into the dynamics of values, rationality, and power in organizations. Through this understanding, readers will gain insights and frameworks with which to understand the actions of others within their environment. Armed with the knowledge of how values, rationality, and power influence people's actions, readers will gain tools they can use to navigate the complexity of organisations to foster wise action. Published by Kwantlen Polytechnic University, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Principles of management**

This book is designed to accompany an introductory course. It covers leading, planning, organizing, and controlling, human resource management and strategic management, as well behavioral areas such as motivation. Published by OpenStax, US.

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

### Strategic management

This text offers an introduction to the key topics and themes of strategic management. The authors draw on examples of familiar companies and personalities to illustrate the different strategies used by today's firms—and how they go about implementing those strategies. Published by Pamplin College of Business in association with Virginia Tech Publishing, US.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Organisational Behavior

This resource aligns to introductory courses in Organisational Behavior. The text presents the theory, concepts, and applications with particular emphasis on the impact that individuals and groups can have on organizational performance and culture. Published by OpenStax, US.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

## Marketing (Digital Marketing, Social Media)

See also: [Entrepreneurship](#)

### Establishing the link: does web traffic from various marketing channels influence direct traffic source purchases?

Marketing professionals and business owners strive to evaluate the effectiveness of their marketing investments. With multiple marketing channels at their disposal, understanding how these channels interact and influence each other is crucial. Digital analytics tools, such as Google Analytics, tend to measure the isolated success of each marketing channel. However, the intertwined effects and interdependencies between channels are often undervalued. This study, therefore, ventures into this territory. It focuses on the association between website traffic from various digital marketing channels and the purchases made by users visiting websites through direct traffic sources. We analyzed 89,394 purchases from an e-commerce business in Europe. We conclude that three marketing channels can explain 61% of the variance. By shedding light on this overlooked aspect, we aim to guide advertisers toward a more holistic understanding of digital marketing channels. Published in the journal Marketing Letters.

Date published: 2024 | Content Type: Article | License: [CC-BY 4.0](#)

### Marketing communications as a strategic function

This course emphasises the strategic importance of communication and its long-term effect on consumers. Communication models can act as a predictive guide, but in the end it is important to recognise the autonomy and unpredictability of consumers. Shared by the Open University. Course duration is 6 hours.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Marketing communications in the digital age

This course uses theories and models to explain marketing communications and provides examples of how to effectively manage the marketing communications process. Shared by the Open University. Course duration is 12 hours.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Social media marketing 101

This lesson prepares learners for posting marketing ads to Facebook, Instagram, and Twitter. It explores the benefits of marketing on social media and how to cater to different customers based on the platform's features and functionality. Shared by Colin Bennett of the Institute for the Study of Knowledge Management in Education, US.

Date published: 2019 | Content Type: Lesson | License: [CC-BY -NC-SA 4.0](#)

### eMarketing: the essential guide to marketing in a digital world

This edition is organised under the following headings: Planning, Claiming, Creating, Uniting, Advertising and Analysing. This book focuses on the integration of technology and data in every aspect of marketing to enhance customer experience and secure business success through meaningful engagement and connections. This edition features updated statistics and new case studies. Written by Dionne Solomons, Tania Kliphuis and Michelle Wadley. Published by Honoris United Universities, Africa.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Introduction to consumer behaviour

This open textbook was designed for students studying business or marketing at an undergraduate level. It draws on the fields of marketing, business, communications, media studies, psychology, sociology, and anthropology. Written by Andrea Niosi and published by BCcampus, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Introduction to market research

Market research is information that helps marketers understand customers, competitors, and changes in consumer behaviour to help make more informed decisions. The goal of this resource is to help new and emerging marketing students to understand why market research matters and to understand the components of identifying a marketing research problem, designing a research framework, executing the research, and analyzing the data with the ultimate goal to be able to make data-driven decisions. This resource will cover primary and secondary research tools as well as qualitative and quantitative approaches within a Canadian context. Over the course of nine modules, students will learn basic market research skills that will help them design a market research project.



Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC](#)

### Intro to social media

This book is aimed at managers, business owners, marketing managers, and aspiring social media marketing interns and managers. I will assume that however accomplished in your own field – baker, developer, teacher and that even as successful business owners, you approach the topic of social media marketing as a beginner. Even if you are an avid personal user of social networks, we will treat this book as a guided tour of social media for marketing purposes. Published by Oklahoma State University, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Customer insights

This textbook is based on materials sourced from different practitioners from the world of research design, data collection, analysis, and interpretation. Published via the Council of Australian University Librarians Open Educational Resources Collective.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Foundations in digital marketing: building meaningful customer relationships and engaged audiences

This textbook is intended to introduce marketing students to the world of digital marketing. The book covers fundamental frameworks, practical applications, and online tools that can all be applied to build and execute a cohesive and engaging digital marketing strategy. Published by Langara College, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### Introduction to consumer behaviour

This open textbook was designed for students studying business or marketing at an undergraduate level. It draws on the fields of marketing, business, communications, media studies, psychology, sociology, and anthropology. The book invites readers to examine the internal forces that shape consumer decision making, such as perceptions, motivations, personality, and attitudes as well as the external ones, such as social and situational influences, culture, and subcultures. Published by BCcampus, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY -NC-SA 4.0](#)

### Principles of marketing

Principles of Marketing – H5P Edition teaches the experience and process of actually doing marketing – not just the vocabulary. It carries five dominant themes throughout in order to expose students to

marketing in today's environment: Service dominant logic, sustainability, ethics and social responsibility, global coverage, and metrics. This text includes over 75 interactive H5P activities. Published by BCcampus, Canada.

Date published: 2022 | Content Type: Textbook (including H5P) | License: [CC-BY-SA 4.0](#)

### Do social media polarise?

One of the most heavily discussed questions in the context of belief polarisation in recent times, is the contribution of social media technologies. This presentation explores the “filter bubble” hypothesis and suggests that that social media algorithms are, by design, driving ideological as well as affective polarisation in users. Presented by Phillip Müller as part of a Symposium on “Belief Polarization”, held in Germany.

Date published: 2021 | Content Type: Video | License: [CC-BY-NC-SA 3.0](#)

## Mathematics for Engineering and Science

### Differential equations

This course includes: Linear Differential Equations; First-Order Differential Equations; Linear Algebra; Impulses, Fourier Series, Partial Differential Equations; and Qualitative Descriptions of Systems. The course includes an online textbook, lecture notes, readings, problems sets with solutions and exams with solutions. Shared by MIT, US.

Date published: 2024 | Content Type: Course | License: [CC BY-NC-SA 4.0](#)

### Grasple

Grasple works to make knowledge openly accessible to everyone, by providing high-quality exercises, created by educators who build on each other's work. Topic areas include pre-calculus, calculus, linear algebra and statistics. Grasple is a social enterprise from the Netherlands.

Date published: 2025 | Content Type: Interactive exercises | License: [Creative Commons licenses, check individual resources.](#)

### Visualizing calculus with Professor Gigliola Staffilani

Professor Gigliola Staffilani shares how she makes calculus feel less abstract and more meaningful. Shared by MIT, US.

Date published: 2024 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Applied mathematics in energy and mechanical engineering

Today, it is difficult to imagine the development of energy and mechanical engineering without the use of modern mathematical approaches. The active development of science, engineering and technology requires the use of physical and mathematical modeling, digital twins, machine learning, artificial intelligence algorithms, etc. This book is a reprint of the Special Issue Applied Mathematics in Energy and Mechanical Engineering that was published in Axioms. Published by MDPI.

Date published: 2024 | Content Type: Book | License: [CC-BY-NC-ND 4.0](#)

### [Open pedagogy resource: active learning prompts for mathematics and computer science faculty](#)

This book is a renewable resource for Mathematics and Computer Science courses in which instructors practice student-centered pedagogy. It provides a list of course-specific activity prompts and worked examples that instructors can directly use or modify (Chapter 4) and shares knowledge regarding open pedagogy. Shared by City University of New York.

Date published: Book | Content Type: 2020 | License: [CC-BY-NC-SA 4.0](#)

### [Myopenmath](#)

MyOpenMath provides self study material for students and resources for instructors. Free registration required. MyOpenMath.com is operated by the non-profit organization MyOpenMath, with support from corporate sponsors.

Date published: No information available | Content Type: Course | License: No information available

### [MIT mathematics open courses](#)

180 courses available for undergraduate and graduate students. A variety of teaching and learning resources provided for each.

Date published: Varied | Content Type: Courses, Videos, Lectures | License: [CC-BY-NC-SA 4.0](#)

### [Geogebra](#)

Dynamic mathematics software for all levels of education that brings together geometry, algebra, spreadsheets, graphing, statistics and calculus in one easy-to-use package.

Date published: No information available | Content Type: Software | License: GeoGebra content can be copied, distributed and transmitted non-commercial purposes, under the GeoGebra Non-Commercial License Agreement.

### [Introducing mathematical biology](#)

Mathematical modelling plays an increasingly important role in almost any area of life sciences, and this interactive textbook focuses on the areas of population ecology, infectious diseases, immunology and cell dynamics, gene networks and pharmacokinetics. Published by The University of Sheffield.

Date published: 2023 | Content Type: Textbook | License: [CC-BY](#)

### [Numbas](#)

Numbas is an online assessment system designed for mathematical subjects. Developed by mathematicians at Newcastle University, Numbas is free to use and open-source.

Date published: 2015-23 | Content Type: Tool | License: [Apache License, Version 2.0](#)

### [Inclusive and experiential pedagogies for undergraduate mathematics and computer science](#)

This interactive and multi-modal e-course is designed to help instructors of university mathematics and computer science enhance and apply skills for leveraging innovative and inclusive approaches to support experiential learning and student achievement. Specifically, the course examines the connections between engaging in computational modelling and experiential learning practices and lays a foundation for how to enhance pedagogy through activities that engage students in mathematically analyzing and modelling socially relevant issues that are important to them. Shared by Ontario Tech University, Canada.

Date published: 2023 | Content Type: Website | License: [CC-BY-NC-SA 4.0](#)

## Microbiology

See also: [Biology](#), [Pharmaceutical Science](#), [STEM Teaching Resources](#)

### [Cell image library](#)

This Image Library is a repository for images and movies of cells from a variety of organisms. It demonstrates cellular architecture and functions with high quality images, videos, and animations. Shared by the University of California, San Diego.

Date published: Varied | Content Type: Image collection | License: Check licensing of each image. Creative Commons licensing used.

### [Microbiology](#)

The book presents the core concepts of microbiology with a focus on applications for careers in allied health. Published by OpenStax, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### [Microbiomes: health and the environment](#)

This book takes a look into the world of polymicrobial communities and how they affect aspects of human health and environmental interaction. Created by staff from the University of Texas, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### General microbiology

This textbook focuses on bacteria and archaea (traditionally known as the “prokaryotes,”), viruses and other acellular agents. Published by Oregon State University.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC](#)

## Nursing (General and Dental Nursing)

See also: [Mental Health Nursing](#), [Psychology](#), [Social Care](#)

### A long goodbye: Ed and Mary’s journey with Lewy Body Dementia

This book includes journal entries about how dementia impacted Ed and Mary. Published by staff from James Cook University, Australia.

Date published: 2021 | Content Type: Book | License: [CC-BY-NC-ND](#)

### Infection and immunity

Learning outcomes: distinguish between symptoms and signs of an infectious disease and illustrate how they are combined in making a diagnosis; summarise the main direct and indirect transmission routes by which pathogens pass from person-to-person, from other animals, or from the environment to humans; appreciate the usefulness of combining systematic observations and measurements with testable hypotheses (the scientific method) in understanding infectious disease; distinguish between the six main types of pathogen multicellular parasites, single-celled protists, fungi, bacteria, viruses and prions; and summarise the main features of human defences against infection. Course duration is 12 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Health icons

Online library of health icons/cartoon type anatomy images. The project is hosted by the public health not-for-profit Resolve to Save Lives.

Date published: 2021 | Content Type: Icon library | License: [CC0](#)

### Humanism Evolving through Arts and Literature (HEAL)

Bringing together writing and art from a variety of sources, HEAL is a platform where medical students share their growth and development, where faculty and staff impart their knowledge gained from experience, and where members of the community express how health and healing have impacted their lives. HEAL strives to bridge the growing gap between patients and their providers while hoping to produce a meaningful creative outlet to those who participate in the publication of its quarterly digital issues and annual print journal. Published by the FSU College of Medicine, Florida.

Date published: 2009-current | Content Type: Journal | License: [CC-BY 4.0](#)

#### **Integration of primary care and palliative care services to improve equality and equity at the end-of-life: findings from realist stakeholder workshops**

This article aims to address the questions: ‘how can inequalities in access to community palliative and end of life care be improved through the integration of primary and palliative care, and what are the benefits?’ Published in the journal Palliative Medicine, by UK based researchers.

Date published: 2024 | Content Type: Journal Article | License: [CC-BY 4.0](#)

#### **A qualitative exploration of the lives lived by Irish centenarians**

This Journal of Aging Studies study focuses on the lived experience of Irish centenarians and explored their understanding of their aging in a rapidly modernised sociocultural Ireland. Published by TUS staff.

Date published: 2024 | Content Type: Article | License: [CC-BY 4.0](#)

#### **Introduction to coaching and mentorship of the next generation of healthcare providers**

This first series of modules for this program will include the development of our initial 12 modules to help faculty members within the health professions and will be made free to the world. Each module will push the participants to learn through application new concepts to their immediate current healthcare and health professions education contexts. Created by staff from McMaster University.

Date published: 2022 | Content Type: Modules | License: [CC-BY-ND](#)

#### **The health education assets library**

A collection of over 22,000 freely available digital materials for health sciences education, including RCSI images.

Date published: Varied | Content Type: Multimedia | License: Varied

#### **Open-i service biomedical image search engine**

Open-i service is provided by the National Library of Medicine to enable search and retrieval of abstracts and a vast collection of images (including charts, graphs, clinical images, etc.) from the

open source literature, and biomedical image collections. Some but not all content is openly licensed. Use filters to access open content

Date published: Varied | Content Type: Multimedia | License: Varied

### Vital sign measurement across the lifespan

The purpose of this textbook is to help learners develop best practices in vital sign measurement. Using a multi-media and interactive approach, it will provide opportunities to read about, observe, practice, and test vital sign measurement. Published by Ryerson University, Canada.

Date published: 2021 | Content Type: Pressbooks Textbook | License: [CC-BY 4.0](#)

### 2SLGBTQ+ healthcare

The book demonstrates ways in which gender and sexual identity can influence healthcare by putting the learner in the place of the patient. Through interactive activities, the learner can gain a better understanding of how something as commonplace as an intake form can be dehumanizing or alienating for some patients and what a dramatic difference some small changes can make. These activities present common healthcare scenarios that many in the LGBTQ+ community face and challenge the learner to identify the areas for improvement before guiding them through a more inclusive and compassionate version of the same scenario. Published by University of French Ontario, Canada.

Date published: 2022 | Content Type: Pressbooks Textbook with interactive activities | License: [CC-BY-NC-SA](#)

### Using evidence to overcome fake news about healthcare

Professor Carl Heneghan discusses how using an evidence-based approach can help overcome the growing problem of fake news, and provide insights on how to work with the media to ensure your message is not distorted, and will discuss why academics should engage more with the media and the wider public. University of Oxford Podcast.

Date published: 2019 | Content Type: Podcast | License: [CC-BY-NC-SA 2.1](#)

### Histology and embryology for dental hygiene

This eBook makes use of animated images to focus on concepts in histology and embryology, as well as hyperlinks to promote non-linear reading and learning. It is aimed at college students in a dental hygiene program. Published by Open Oregon Educational Resources, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Unlock and revive: a key to wellbeing for people living with dementia through online heritage sessions

The aim of the Unlock & Revive pilot project was to bring together an online programme for these communities to test whether and how we can use this technology to provide a sense of connection into the world around us through online cultural engagement activities. Published by the University of Edinburgh.

Date published: 2022 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Documentation in nursing

This open access textbook is intended to guide best practices of documentation in the nursing profession. This resource is designed for students in undergraduate nursing programs, and addresses principles of documentation, legislation associated with documentation, methods and systems of documentation, and key trends in the future of documentation. Published by Toronto Metropolitan University, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC](#)

### Introduction to communication in nursing

This textbook is intended to guide best practices in communication in the context of the nursing profession. It addresses communication theory, therapeutic communication and interviewing, and interprofessional communication as it relates to nursing. This resource is designed for students in undergraduate nursing programmes. The project is supported and funded by the Ryerson University Faculty of Community Services Publication Grant, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Introduction to health assessment for the nursing professional

This book was created for undergraduate nursing students at the introductory level. Educators co-curated this resource in collaboration with students for students. This resource is a unique contribution to nursing education as content is theoretically informed by health promotion in the Canadian context and by an inclusive approach to health assessment that incorporates culturally-responsive techniques related to race/ethnicity, gender/sex/sexual orientation, body sizes/types, and ability/disability. Published by the Toronto Metropolitan University.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Skin and wound care for health care professionals

An OER textbook for working professionals that have some experience in skin and wound care. Published by staff from Sault College, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Nursing fundamentals



This book introduces the entry-level nursing student to the scope of nursing practice, various communication techniques, and caring for diverse patients. The nursing process is used as a framework for providing patient care based on the following nursing concepts: safety, oxygenation, comfort, spiritual well-being, grief and loss, sleep and rest, mobility, nutrition, fluid and electrolyte imbalance, and elimination. This content was developed for North American contexts.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Management and professional concepts

This book introduces concepts related to nursing leadership and management, prioritization strategies, delegation and supervision, legal implications of nursing practice, ethical nursing practice, collaboration within the interprofessional team, health care economics, quality and evidence-based practice, advocacy, preparation for the RN role, and the avoidance of burnout with self-care. This content was developed for North American contexts.

Date published: 2024 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Aging well

This textbook presents cutting-edge research on elder and dementia care and social inclusion and identifies and details global aging challenges and offers innovative and impactful solutions. Published by SpringerLink.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Clinical procedures for safer patient care

This book was developed to ensure best practice and quality care based on the latest evidence, and to address inconsistencies in how clinical health care skills are taught and practised in the clinical setting. The checklist approach, used in this textbook, aims to provide standardised processes for clinical skills and to help nursing schools and clinical practice partners keep procedural practice current. Published by LibreTexts.

Date published: 2024 | Content Type: Textbook | License: [CC-BY](#)

### Introduction to infection prevention and control practices for the interprofessional learner

This open educational resource (OER) is designed for novice undergraduate healthcare students learning about infection prevention and control practices. Healthcare practitioners may also find this resource valuable as a review. This project is funded by Centennial College, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC](#)

### Vaccine practice for health professionals

This textbook is intended to guide best practices in vaccine delivery in Canada. This textbook provides information related to clinical practice, including the administration of vaccine, and communication with clients and provides activity questions and reflective questions for students.

Date published: no information available | Content Type: Textbook | License: [CC-BY-SA 4.0](#)

### **Building a medical terminology foundation**

Building a Medical Terminology Foundation is an OER that focuses on breaking down medical terms into their word parts, pronouncing medical terms, and learning the meaning of medical terms within the context of introductory anatomy and physiology. Shared by Conestoga College, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Dentistry environment essentials**

This book aims to introduce the dental environment and give practical guidance on how to navigate the equipment, instruments, procedures and how to stay safe. Published by the University of Queensland.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC](#)

### **Restorative mastery for the dental hygienist**

This textbook presents practical demonstrations and the core knowledge needed for successfully placing and finishing class II restorations in first molars using video demonstrations, checklists, and exercises. Published by MHCC Library Press, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### **Nursing advanced skills**

Content includes advanced skills for registered nurses, such as intravenous infusion, blood product administration, management of central lines and chest tube systems, basic electrocardiogram interpretation, and nasogastric/feeding tube insertion. Videos of skills demonstrations are included. This content was developed for North American contexts.

Date published: 2023 | Content Type: Textbook | License: [CC-BY](#)

### **Understanding well-being data**

Understanding well-being data is a readable, introductory book with real-life examples. Understanding the contexts of data and decision-making are critical for policy, practice and research that aims to do good, or at least avoid harm. Through its comprehensive survey and critical lens, this book provides tools to promote better understanding of the power and potential of well-being data

for society, and the limits of their application. Related animations are available here:  
<https://player.sheffield.ac.uk/exhibits/understanding-wellbeing-data> Published by Susan Oman of the University of Sheffield.

Date published: 2021 | Content Type: Book and animation series | License: [CC-BY](#)

### [OPENPediatrics](#)

OPENPediatrics is a free, global, open-access, and peer-reviewed knowledge-exchange platform for clinicians from all resource settings involved in the care of sick children. Free account set up required. Content can be filtered to Nursing.

Date published: Varied | Content Type: Video, Simulators, Podcasts and Continuing Education | License: [CC-BY-NC-ND](#)

### [Open RN project virtual reality scenario plans](#)

These scenarios utilize VR headsets and hand controllers during patient care simulations to promote the development of clinical judgment.

Date published: No information available | Content Type: Virtual Reality Scenario | License: [CC-BY 4.0](#)

### [Our world in data](#)

This website features a broad range of data across health related topics, including: global health; causes of death; child and infant mortality; burden of disease; life expectancy; mental health; suicides; cardiovascular diseases; cancer; maternal mortality; air pollution; alcohol consumption; illicit drug use; obesity; smoking; pandemics; and healthcare spending. It also includes data relating to other social and environmental issues. Our World in Data is a project of Global Change Data Lab, a nonprofit based in the UK.

Date published: 2024 | Content Type: Data visualisations | License: [CC-BY 4.0](#)

## Nursing, Mental Health

See also: [Nursing](#)

### [Mental health literacy university course](#)

This course introduces students to mental health literacy and its goals of recognizing and managing mental health concerns, strengthening mental health and well-being, and ending stigma. It takes an intersectional approach and considers multiple and diverse perspectives on mental health and well-being in our changing world. Learners will build skills and capacities that contribute to well-being at

the individual level as well as at the community level. Created by staff from the University of Waterloo, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-ND](#)

### Understanding ADHD

Learning outcomes: define key terms in the field of ADHD research; describe the characteristics of ADHD and how they are used in diagnosis; describe the patterns of prevalence of ADHD, including the reasons for disparities worldwide; describe the risk factors and brain changes associated with ADHD; and outline key approaches to managing ADHD, with reference to their scientific evidence base. Course duration is 12 hours. Free registration required. Shared by the Open University.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Work and mental health

Learning outcomes: explain how the experience of mental health problems affect, and are affected by, employment; understand how the recovery model can be used to support people with mental problems to return to work; explain what can be done to reduce the barriers to employment for people with mental health problems. Course duration is 6 hours. Shared by the Open University.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Introduction to adolescent mental health

Learning outcomes: understand the complexity and multifaceted nature of adolescent mental health; appreciate the variety of strategies that can be employed to support young people; recognise resilience as a quality and skill that can be learned and developed; identify resilience markers that can be supported and nurtured; identify the range of services and contexts through which young people can access support and guidance. Course duration is 24 hours. Shared by the Open University.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Exploring anxiety

Learning outcomes: understand anxiety from biopsychosocial perspectives; discuss contemporary issues in mental health science related to anxiety; recognise different lines of evidence and appreciate the uncertainty, ambiguity and limits of current knowledge in the study of mental health science. Course duration is 9 hours. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Co-creating community wellbeing initiatives: what is the evidence and how do they work?

Addressing wellbeing at the community level, using a public health approach may build wellbeing and protective factors for all. A collaborative, community-owned approach can bring together

experience, networks, local knowledge, and other resources to form a locally-driven, place-based initiative that can address complex issues effectively. This article includes a comprehensive literature review and eight key principles allowed these initiatives to become established and operate successfully. Article published in International Journal of Mental Health Systems.

Date published: 2024 | Content Type: Article | License: [CC-BY](#)

### Nursing: mental health and community concepts

Mental health and community health concepts are discussed while emphasizing stress management techniques, healthy coping strategies, referrals to community resources, and other preventative interventions. Nursing care for individuals with specific mental health and substance use disorders is examined, and the nurse's role in community health needs assessments and caring for vulnerable populations is introduced. This content has been adapted from North American undergraduate teaching resources.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

### Biological psychology

Biological psychology is the study of the biological bases of behaviour and mental processes. It explores how biological factors like genes, hormones, neurotransmitters, and brain structures influence psychological components like thoughts, emotions, memories, and actions. Published by Fitchburg State University, US, and ROTEL (Remixing Open Textbooks with an Equity Lens) Project.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

## Nutrition (Health Science)

**See also:** [Sport Science](#)

### Nutrition: science and everyday application

This book is designed for introductory nutrition courses and includes basic nutrition and metabolism, information literacy, body weight and health, nutrition across life stages, dietary supplements, an in-depth look at each of the macronutrients, and major functions of vitamins and minerals. Published by Open Oregon Educational Resources.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Preparation for dietetic practice: clinical nutrition modules

This book is designed to prepare dietetic students for practical training and contains 7 interactive clinical nutrition modules. It was developed by dietitians who are leaders in their areas of practice and who have a passion for teaching. Dietetic students are encouraged to complete modules most

relevant to the clinical settings they complete practical training in. Published by Toronto Metropolitan University.

Date published: 2022 | Content Type: Interactive Textbook | License: [CC-BY-NC](#)

### The science of nutrition and healthy eating

Learning outcomes: demonstrate and understand how food is processed and then used in the body; apply knowledge to understand healthy eating advice and identify how it varies in different countries; make sense of food labels and perform basic calculations of energy in food; describe and know about food allergies and intolerances; and describe and understand possible reasons for the current obesity epidemic. Course duration is 24 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Food product development lab manual

A concise practical how-to illustrating the process of developing a new food product from ideation and formulation to processing and lastly commercialization. This book highlights the overall process and gives instructions for each of the steps along the way Published by Iowa State University, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Food studies: matter, meaning, movement

Food Studies aims to help readers understand and address numerous issues within food, food culture, and food systems. These subjects transcend disciplinary boundaries and call attention to how matter, meaning, and movement produce complex and dynamic food-human realities. Chapters range from sovereignty to breastfeeding, financialization to food porn, pollination to fair trade. Embedded throughout, art, poetry, illustration, and audiovisual works offer moments to reflect on and synthesize the text-based entries. Through reading, classroom discussion, and engaging with the extensive pedagogical tools, learners and teachers alike may acquire a new sense of things foodish—along with a new sense of their own place and role within food systems themselves. Published by eCampus Ontario, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Overweight bodies, real and imagined

This compilation gathers OER sources on body weight, nutrition, and movement, and it also problematizes the cultural meaning of these readings. Roughly, this anthology is divided into two parts--informational and theoretical--in depicting how medical research and journalism influence and are influenced by social stereotypes, constructed ideas about bodies, food, and individual choices within social systems. Published by Holyoke Community College, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Pharmacy and Pharmaceutical Science (Pharmacy Technician)

See also: [Biotechnology](#), [Anatomy](#)

### Understanding drug interactions

This e-module aims to improve drug safety by providing learners with an understanding of the mechanisms by which drugs interact with other drugs, natural health products and foods. Rather than addressing each drug interaction that has been reported, this module will focus on understanding the mechanisms by which drugs and other substances interact to enable learners to predict the likelihood of drug interactions. Created by staff from the University of Toronto.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-ND](#)

### Safe pharmacy virtual gaming simulation

This simulation game was developed by a team of interprofessional educators to promote employment integration of internationally educated health professionals by building their work readiness skills. Game players are invited to make decisions in a realistic work situation and encouraged to try different approaches. Feedback is provided to promote analysis of players' actions and decisions. Players are encouraged to self-reflect and debrief at the end of the game to further enhance their learning. More information about this resource is provided [here](#). Created by academics in Canadian Universities.

Date published: No information available | Content Type: Gaming simulation | License: [CC-BY](#)

### The Journal of Applied Pharmaceutical Regulatory Science (JAPRS, Irish)

The Journal of Applied Pharmaceutical Regulatory Science (JAPRS), an occasional on-line journal, was founded in 2024 to provide a means of capturing, aggregating and disseminating regulatory science research, initiatives and approaches which advance activities in the commercial phase of a pharmaceutical product lifecycle that lead to enhanced quality and availability of medicines to a global patient population. It is published by TU Dublin, Ireland.

Date published: 2024 | Content Type: Journal | License: [CC-BY-NC-SA 4.0](#)

### Acta Materia Medica

Acta Materia Medica provides a platinum open access platform for rapid publication of the latest findings, approaches, and viewpoints related to all related areas of pharmacy and pharmaceutical sciences, including, but not limited to, pharmacology, toxicology, pharmaceuticals, medicinal chemistry, natural products, pharmacognosy, pharmaceutical analysis, pharmacokinetics, clinical pharmacy, pharmacoepidemiology, pharmacoconomics and pharmacy management.

Date published: 2022-2024 | Content Type: Journal | License: Copyright for all third party content lies with original copyright-holder. All content published by ScienceOpen is under [CC-BY 4.0](#)

### Innovations in pharmacy

Inspiring Inquiry and Improvement in Pharmacy Practice, Education, and Policy. A quarterly publication featuring case studies, clinical experiences, commentaries, idea papers, original research, and review articles that focus on the leading edge, novel ideas for improving, modernizing, and advancing pharmacy practice, education, and policy.

Date published: Varied | Content Type: Quarterly Journal | License: [CC-BY-NC 4.0](#)

### Principles of pharmacology-study guide

This study guide contains 22 chapters on the subject of pharmacology and provides definitions, examples, and illustrations on various subjects within the topic. Published by staff from the University of Minnesota, US.

Date published: 2019 | Content Type: Study Guide | License: [CC-BY-NC 4.0](#)

### Nursing pharmacology

This open access Nursing Pharmacology textbook is designed for entry-level undergraduate nursing students. It explains basic concepts of pharmacology and describes common medication classes. This book is not intended to be used as a drug reference book, but direct links are provided to an American drug reference source. Published by Chippewa Valley Technical College, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### An ABC of PK/PD

The aim of this book is to familiarise students with the core concepts of pharmacokinetics (and pharmacodynamics), to develop an understanding in students that will allow them to have informed conversations with pharmacists about the drugs they prescribe and administer. The format of the guide also facilitates its use as a rapid reference through which students may remind themselves of concepts rusty through lack of use.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Forensic toxicology

From Crime Scene to the Virtual Lab. Take a virtual tour from fundamental toxicology through laboratory demonstrations to court cases that focus on analysis, interpretation and reporting of toxicological results in a forensic science context.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)



### Principles of pharmacology

The object of this text is to teach students an approach to the study of pharmacologic agents. The focus is on the basic principles of biophysics, biochemistry and physiology, as related to the mechanisms of drug action, biodistribution and metabolism. The course consists of lectures and student-led case discussions. Topics covered include: mechanisms of drug action, dose-response relations, pharmacokinetics, drug delivery systems, drug metabolism, toxicity of pharmacological agents, drug interaction and substance abuse. Selected agents and classes of agents are examined in detail. Published by MIT, US.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Drugs quality control (theoretical foundation and practical application): the coursebook

The course book presents the basics of drugs quality control in accordance with regulatory documents (pharmacopoeia of Europe, USA, Japan, Russia) and new data from current scientific periodicals, monographs. The course book is designed for pharmacy students. Published by RUDN University, Russia.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-SA](#)

## Physics

See also: [STEM Teaching Resources](#)

### Open physics

This project contains a set of mobile web pages physics lessons on radiation physics. The lessons are presented in a novel 2D map format which we call OpenMap. Shared by the University of Alberta, Canada.

Date published: No information available | Content Type: Interactive Simulations | License: [CC-BY](#)

### ComPADRE: collections and resources for K-12 and higher-ed physics and astronomy education

A network of free online resource collections supporting faculty, students, and teachers in Physics and Astronomy Education. Shared by AAPT®, a professional membership association of scientists dedicated to enhancing the understanding and appreciation of physics through teaching.

Date published: Varied | Content Type: Resource collection | License: Consult for each resource

### PhET interactive simulations

PhET provides fun, free, interactive, research-based science and mathematics simulations. Shared by University of Colorado, Boulder.

Date published: No information available | Content Type: Simulations | License: [CC-BY 4.0](#)

### [Physics 132: what is an electron? what is light?](#)

This second semester introductory physics course for life sciences students looks to deepen students' understanding of biology and chemistry through physics all through the lens of understanding two of the most fundamental particles in the Universe: electrons and photons. The book features YouTube videos and activities. Published by UMass Amherst Libraries, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

## Product Design (Prototyping, User Experience )

See also: [Design](#), [3D Printing](#)

### [Task-based conceptual design of a novel product](#)

Chapter within the book Product Design.

Date published: 2020 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

### [Integrated model of product design methods](#)

Chapter within the book Product Design.

Date published: 2020 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

### [An approach to improve the product design process](#)

Chapter within the book Product Design – A Manufacturing Perspective.

Date published: 2022 | Content Type: Book Chapter | License: [CC-BY 3.0](#)

### [Elementary ergonomics](#)

This course is an introduction to basic physical ergonomics theory, including: anthropometry (1D, 2D, 3D including digital human modelling), biomechanics, and comfort. The role of user involvement in the design process (evaluation of existing products and environments and of created concepts, models and prototypes) will be explained and the meaning and representation of use cues in product design will be highlighted. Created by TU Delft, Netherlands.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### [An introduction to interaction design](#)

Learning outcomes: what interaction design is; the importance of user-centred design – with its goals and principles; how interaction design focuses on the characteristics of the user, their activities and environment; and the core activities and methods of the interaction design process. Course duration is 10 hours. Created by the Open University.

Date published: 2018 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### [Introduction to solidworks](#)

This book is designed to introduce the SolidWorks software as well as provide tutorials for modeling parts, assemblies, and completing drawings from the mechanical designer's perspective. Published by Renton Technical College, US.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC](#)

### [Sense-It! Insights into multisensory design](#)

In Sense-It!: Insights into Multisensory Design you will gain insights into a range of multisensory concepts that contribute to the product design process and ultimately improve user experiences. We believe that the potential for innovation through multisensory interactions exists when sensory considerations are integrated into a design project from the beginning. Published by BC Campus, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### [Open prototyping: the cocreation toolkit](#)

Open Prototyping is a design approach and process to imagine, navigate and shape co-creation projects. It can be used to develop new products and services, reflect on their impact, and co-shape the future of technology and society. Published by the University of Edinburgh.

Date published: 2024 | Content Type: Toolkit | License: [CC-BY 4.0](#)

## [Professional Development \(Reflection, Study Skills\)](#)

See also: [Communication](#)

### [Upskilling graduates for success: cultivating wellbeing in workplaces and communities](#)

This course focuses on personal and collective wellness skills to promote healthy and resilient workplaces and communities. The creators have made available two related courses also. Created by staff from a variety of Canadian universities.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Equipping and empowering graduate students with professional and lifelong learning skills

This course was developed as a self-directed online course that equips graduate students in any field with transferable skills through adaptable modules: learning skills (e.g., metacognition), mentorship, project management, academic resilience, and navigating difficult conversations. We are also developing a guide for educators. Our goal is to enable more inclusive, equitable, and productive research environments, while equipping graduate students with lifelong learning and professional skills. Created by University of Ottawa, Canada.

Date published: 2023 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Succeed in the workplace

Learning outcomes: reflect on your interests and values and how these are relevant to your career choice; understand the value of your networks in career planning; develop the skills to write strong job applications and CVs; recognise different interview situations and questions, and know how to approach these; produce a realistic personal action plan. Course duration is 24 hours. Shared by the Open University.

Date published: 2021 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Developing career resilience

Learning outcomes: understand the concept of career resilience and assess your own position; recognise a range of external challenges and their potential to impact on your working life; use a variety of tactics and techniques that can enhance your career resilience; identify any external support you might need to build your career resilience; set yourself appropriate career resilience goals and describe the actions required to achieve them. Course duration is 24 hours. Shared by the Open University.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA](#)

### A crowdsourced guide to online learning: advice for learners, from learners

This guide was authored by DCU staff and curated as part of the Erasmus+ DigiTel Pro Strategic Partnership.

Date published: 2020 | Content Type: Guide | License: [CC-BY-SA 4.0](#)

### College success for newcomers

This OER is designed to provide newcomer students with the skills and strategies they will need to adapt successfully and fully integrate into the Canadian college system. Published by Campus Manitoba, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Practical business communication for knowledge workers: from job application to promotion

Practical Business Communication for Knowledge Workers: From Job Application to Promotion will focus on the multicultural and diverse twenty-first century workplace. This Pressbook will equip learners with strategies and techniques to navigate the growing complexity of the Canadian workplace and build learners' core competencies.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC](#)

### Student success

This book offers study skills and practices for college and university students to help them make a positive transition to post-secondary education, learn how to be a successful student, and make the most of their learning experience. Published by BCCampus, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Career and workforce readiness

As work-integrated learning becomes a key component of higher education in Ontario and with increased prevalence in university and college level learning, ensuring students are well-prepared in essential workplace skills to support successful integration into the workforce is essential. The Career and Workforce Readiness resource is an openly accessible, six module course that seeks to provide learners with the opportunity to practice, reflect, and develop the strategies they'll need to get started, refine their process, or put the finishing touches on current efforts. Published by Trent University, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### The LEARN method: an interactive guide for effective learning

This book is separated into five sections: Listen; Elaborate; Associate; Retrieve; and Night. Written in an informal, accessible style, it features activities and videos to engage the learner. Published by Minnesota State University, Mankato.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### Digital citizenship toolkit

By the end of this book you will have learned how to find and evaluate information, think critically about the production of digital content, protect your privacy and your digital identity, and finally become an active and responsible participant in conversations online – all the skills necessary to being a good digital citizen. Published by Toronto Metropolitan University, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Growth & goals: a module for any context, designed to develop learning skills

This module can be used by anyone in any context and is intended to help you become a more proficient learner, whether in academic, physical, artistic, or other contexts. Published by the University of Ottawa, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

## Project Management and Quality

See also: [Business](#), [Management](#)

### Leading quality improvement

This content will push the participants to learn through application of new concepts to their immediate current healthcare and health professions education contexts. Shared by McMaster University, Canada.

Date published: 2022 | Content Type: Moodle Course | License: [CC-BY-ND](#)

### Project management: the start of the project journey

Learning outcomes: define what a project is; understand the importance of risk; define the questions a decision maker needs to ask; list the main activities and tasks of a project manager; consider phased development, prototype approaches or agile methods. Course duration is 35 hours. Shared by the Open University.

Date published: 2016 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Project management for construction (and deconstruction) – fundamental concepts for owners, engineers, architects and builders

This book develops a specific viewpoint in discussing the participants, the processes and the techniques of project management for construction. This viewpoint is that of owners who desire completion of projects in a timely, cost-effective fashion. Some profound implications for the objectives and methods of project management result from this perspective. Published by University of Waterloo and Carnegie Mellon University, Canada.

Date published: 2024 | Content Type: Book | License: [CC-BY-SA 4.0](#)

### The art of decision making – applying AHP in practice

The art of decision-making – applying AHP in practice is your essential guide to mastering the Analytic Hierarchy Process (AHP), one of the most powerful tools for making informed, balanced decisions in today's complex world. Published by InTechOpen.

Date published: 2025 | Content Type: Textbook | License: [CC-BY 4.0](#)

### **Project management for instructional designers**

This textbook is tailored specifically for instructional designers, intended for use in graduate programmes in educational technology. It has been collaboratively revised and updated by students and faculty at the University of Saskatchewan, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### **Importance of flow in lean thinking**

Importance of Flow in Lean Thinking offers a theoretical background and animated simulations to explain the importance of one-piece flow in lean manufacturing environments, in contrast to batch production. This resource is enriched with realistic scenarios and benchmarks one-piece flow and batch flow for both small and large quantities. It also explains the concept of excess inventory hiding problems, a barrier to continuous improvement culture. Published by Conestoga College, Canada.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Essentials of project management**

This book is designed specifically for college students enrolled in a business programmes including business accounting, administration, supply chain and human resources. It describes the project management process and the role of the project manager. Published by Fanshawe College, Canada.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Visuals for influence: in project management and beyond**

‘Visuals for influence: in project management and beyond’ is a practical guide with 24 visuals to download, adapt and deploy to engage your stakeholders. This practical guide will build your confidence and practical skills to quickly and effectively leverage the benefits of visuals to maximise your influence. Published by University of Southern Queensland, Australia.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

## **Psychology**

### **Abnormal psychology**

This course is designed to provide an engaging and personally relevant overview of the discipline of Abnormal Psychology. You will examine the cognitive and behavioral patterns which impair personal effectiveness and adjustment. Published by Lumen Learning

Date published: various | Content Type: Course | License: various

### The age of cyber psychology: an overview

This article serves as an overview and introduction to the discipline of cyberpsychology. Research and scholarship on the interaction of technology and human behavior through the lens of psychology has exploded, and relatedly the field of cyberpsychology. The internet has transformed social interactions, communication patterns, and even our identities. Research literature and presentations in the area of cyberpsychology have primarily attended to personality variables, perceptual processes, emotional functioning, and behavioral responses. Five major areas identified in the literature as especially relevant to the field are examined, including online behavior and personality; social media use and psychological functioning; games and gaming; telepsychology; and virtual reality, artificial intelligence, and applications. Published in Technology, Mind, and Behavior (TMB) by the American Psychological Association.

Date published: 2020 | Content Type: Journal Article | License: [CC-BY-NC-ND](#)

### Introduction to community psychology

This textbook will show you how to comprehensively analyse, investigate, and address escalating problems of economic inequality, violence, substance abuse, homelessness, poverty, and racism. Requests can be made for downloadable versions of the chapter lecture slides and quizzes for instructor use.

Date published: 2019 | Content Type: Textbook | License: [CC-BY](#)

### Psychology

Psychology is designed to meet scope and sequence requirements for the single-semester introduction to psychology course. The book offers a comprehensive treatment of core concepts, grounded in both classic studies and current and emerging research. The text also includes coverage of the DSM-5 in examinations of psychological disorders. Psychology incorporates discussions that reflect the diversity within the discipline, as well as the diversity of cultures and communities across the globe. Published by OpenStax, US.

Date published: 2022 | Content Type: Textbook | License: [CC-BY](#)

### Research methods in psychology

A comprehensive textbook for research methods classes. A peer-reviewed inter-institutional project. Published by academics from US and Canadian universities.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Principles of social psychology



The first international edition of this textbook provides students with an introduction to the basic concepts and principles of social psychology from an interactionist perspective. The presentation of classic studies and theories are balanced with insights from cutting-edge, contemporary research. An emphasis on real world examples and applications is intended to guide students to critically analyze their situations and social interactions in order to put their knowledge to effective use. In 2022, 25 interactive H5P activities were added throughout the book. Published by Kwantlen Polytechnic University, Canada.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Biological psychology

Biological psychology is the study of the biological bases of behaviour and mental processes. It explores how biological factors like genes, hormones, neurotransmitters, and brain structures influence psychological components like thoughts, emotions, memories, and actions. Published by Fitchburg State University, US and ROTEL (Remixing Open Textbooks with an Equity Lens) Project.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Introduction to biological psychology

This textbook designed primarily for use by first and second year undergraduate students of British Psychological Society accredited Psychology degree courses in the UK. Published by the University of Sussex Library.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC](#)

### Lifespan development: a psychological perspective

The scope of this book is from conception to death, outlining physical and other psychophysiological processes, cognition, language, and psychosocial development, including the impact of family and peers. Published by staff from the College of Lake County, Illinois, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

## Research Methods

See also: [Statistics and Data](#), [Academic Writing](#)

### How to fail your research degree – the educational game for post-grad students

“How to Fail Your Research Degree” encourages a light-hearted engagement with the various academic skills and activities necessary to undertake post-graduate research and the risks and pitfalls that can affect a research degree. This game was designed, developed and evaluated by Daisy Abbott as part of research at the School of Innovation and Technology at The Glasgow School of Art.

Date published: 2025 | Content Type: Game | License: License: [CC-BY-SA](#)

### [Choosing a journal for your research: checklist for researchers and librarians](#)

This guide provides tips for researchers on how to choose an appropriate journal for their research and guides research support librarians who are seeking to help researchers to choose a journal.

Date published: 2024 | Content Type: Guide | License: License: [CC-BY](#)

### [8 ways to speed up coproduction](#)

This poster has been created as part of the NIHR-funded knowledge mobilisation for Public Health (KNOW-PH) work. The 8 Tips were developed at the Ideas Jam at the UK Knowledge Mobilisation Forum 2024. The poster was created by Elizabeth Such, Joe Langley and Andy Tattersall.

Date published: 2024 | Content Type: Poster | License: License: [CC-BY 4.0](#)

### [Edinburgh open research](#)

Presentation videos and slides from the annual Edinburgh Open Research Conference. Published by the University of Edinburgh.

Date published: 2002-current | Content Type: Conference Proceedings | License: Check license on individual presentations and videos

### [OpenFest 2024 conference](#)

Recordings from Day 1 of OpenFest 2024, the annual celebration and exploration of open research delivered by the Universities of Sheffield and Sheffield Hallam.

Date published: 2024 | Content Type: Conference recordings | License: License: [CC-BY](#)

### [Research culture uncovered changing research culture through conversations](#)

This weekly podcast focuses on ideas, approaches and learning as we contribute to a positive research culture. Created by the University of Leeds.

Date published: 2023 | Content Type: Podcast | License: License: [CC-BY-NC-SA](#)

### [The qualitative report](#)

This weekly podcast focuses on ideas, approaches and learning as we contribute to a positive research culture. Created by the University of Leeds.

Date published: 2023 | Content Type: Podcast | License: License: [CC-BY-NC-SA](#)

### Responsible use of research metrics (RURM)

A self-paced resource outlining the principles and best practices for applying research metrics in a fair, transparent and accountable way. This resource was co-created by partner institutions in Ireland and funded by the National Open Research Forum.

Date published: 2025 | Content Type: Training module | License: [CC-BY-NC-SA](#)

### Critical foundations in undergraduate research (second edition)

This reading guide supports both active reading and deep learning within a research course. It features a variety of activities, including before class, reading and writing club, and after class activities and a variety of media types, including videos, articles and podcasts. Created by staff from Carleton University, Canada.

Date published: 2023 | Content Type: Reading Guide | License: [CC-BY-NC-SA](#)

### Lifecycle journal

Lifecycle Journal is a new transparent model of scholarly communication that aims to put publishing and evaluation in the control of the scholarly community itself.

Date published: 2025 | Content Type: Journal | License: [CC-BY](#)

### Science undergraduate research experience journal (SURE Journal, Ireland)

The SURE Journal is a high-quality, international, open access, online, double blind reviewed publication which deals with all aspects of undergraduate research in the broad Sciences. The Editor-in-Chief is Anne M Friel, Technological University of the Shannon, Athlone and this journal is published by TU Dublin.

Date published: 2019 onwards | Content Type: Journal | License: CC licensed, consult individual articles

### Advanced research skills: conducting literature and systematic reviews

This book will help graduate students to increase their proficiency in conducting research for literature and systematic reviews. It covers how to conduct their review, how to execute appropriate searches, manage their results and demonstrate strategic reading skills. The course contains interactive H5P activities for students to test their learning. Students have access to a workbook of reflective activities to document their research process. Published by Toronto Metropolitan University.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### Conducting mixed-methods research: from classical social sciences to the age of big data and analytics

This book takes readers through the research process, from defining research questions to writing articles using a mixed-methods approach. For those who are well trained in either qualitative or quantitative methods, the book shows them how to think about the purposes of mixed-methods research, design mixed-methods studies, and develop meta-inferences by integrating findings from both methods. Throughout, the discussion is grounded in examples taken from published research, carefully chosen to highlight best practices, thus opening a window into a broad body of mixed-methods research applications. Published by Virginia Tech Publishing, US.

Date published: 2023 | Content Type: Textbook | License: License: [CC-BY-NC](#)

### **Confident supervisors: creating independent researchers**

Confident Supervisors is intended to be both a textbook and a professional development resource for Higher Degree Research supervisors and researcher developers involved in providing workshops and resources to support research supervisors in their practice. Throughout this book, authors introduce different theoretical frameworks and concepts to provide supervisors with tools and strategies for responding to the challenges and opportunities associated with research supervision. Published by James Cook University, Australia.

Date published: 2023 | Content Type: Textbook | License: License: [CC-BY-NC-SA](#)

### **Research data management in the Canadian context: a guide for practitioners and learners**

Research Data Management is a term for all the things that researchers do to structure, organize and maintain data before, during and after doing research. RDM is also an emerging discipline that is concerned with researching and developing ways to manage research data more effectively. This book seeks to answer questions you may have about RDM with a focus on the Canadian context. Published by University of Western Ontario, Canada.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC](#)

### **A quick guide to quantitative research in the social sciences**

This resource is intended as an easy-to-use guide for anyone who needs some quick and simple advice on quantitative aspects of research in social sciences, covering subjects such as education, sociology, business, nursing. Published by University of Wales Trinity Saint David, UK.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC](#)

### **Doing critical and creative research in adult education**

Doing Critical and Creative Research in Adult Education brings together both leading and emerging scholars in adult education research in order to capture the vitality and complexity of contemporary adult education research. This includes contributions on biographical, narrative, embodied, arts and media-based and ethnographic methods alongside the critical use of quantitative and mixed methods. Published by Brill.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC](#)

### Graduate research methods in social work

This textbook guides students, step-by-step through the process of conducting a student research project—conducting a literature review, conceptualizing a research question, designing a research project, collecting and analyzing quantitative and qualitative data, as well as disseminating results to academic and lay audiences. The textbook emphasizes ethics, cultural humility, social justice, information literacy, and feasibility as core components of the research process.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Introduction to political science research methods

This website features a textbook (available to download on the left) which includes chapters that cover: history and development of the empirical study of politics; the scientific method; theories, hypotheses, variables, and units; conceptualization, operationalization and measurement of political concepts; elements of research design including the logic of sampling; qualitative and quantitative research methods and means of analysis; and research ethics.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC](#)

### Preparing to publish

This book offers a wealth of instructional material on the topic of research article writing for publication and thesis or dissertation completion. The text provides graduate student writers with helpful information, strategies, and tips on navigating disciplinary writing in their fields and how to understand, dissect, and ultimately, construct their own research article. Published by Iowa State University, US.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Research ethics for students in the social sciences

This open access textbook offers a practical guide into research ethics for undergraduate students in the social sciences. A step-by-step approach of the most viable issues, in-depth discussions of case histories and a variety of didactical tools will aid the student to grasp the issues at hand and help him or her develop strategies to deal with them. Written by Jaap Bos, Utrecht University, Utrecht, The Netherlands.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Research methods for the social sciences: an introduction

This textbook provides a broad overview of research methods utilised in sociology. It will be of particular value for students who are new to research methods. Published by BCcampus, Canada

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### [Research methods handbook](#)

This guide explores open research, drawing on insights from researchers within the Global OER Graduate Network (GO-GN). Open practices in research can challenge assumptions about how to create and share new knowledge. In the handbook, we draw on insights from experienced open researchers to build understanding of research in the open. The advice given applies to all research, but is of particular relevance to those interested in open approaches. Published by the GO-GN Network.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

### [Systematic reviews in educational research](#)

International researchers describe and discuss the systematic review method in its application to research in education. Alongside fundamental methodical considerations, reflections and practice examples are included and provide an introduction and overview on systematic reviews in education research. Edited by academic staff from Germany.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

## [Social Care \(Sociology\)](#)

See also: [Social Science](#), [Psychology](#)

### [Introduction to sociology](#)

Our Introduction to Sociology accompanies the online edition of this book. Listen along to delve into the fascinating world of sociology and uncover the forces that shape human behaviour and society. Created using OpenStax content.

Date published: 2024 | Content Type: Audiobook | License: [CC-BY](#)

### [Exploring learning disabilities: supporting belonging](#)

Learning outcomes: explain the term 'learning disability'; describe the different ways learning disabilities have been viewed over time; reflect upon the impact that being labelled as having learning disabilities has on people and their families; explain why it can be difficult for people with learning disabilities and their families to feel like they belong in society; understand some of the barriers to people with learning disabilities and their families enjoying good lives and equal rights. Course duration is 24 hours. Shared by the Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Introducing social care and social work

Learning outcomes: identify the roles of social care practitioners and social workers; understand what shapes people's identities and why this is important in social care and social work; recognise the importance of care and protection in social care and social work; explain why knowing about the law is important to social care and social work practice. Course duration is 12 hours. Shared by the Open University.

Date published: 2024 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Facilitating group discussions

Learning outcomes: understand the key skills and behaviours required to facilitate a group discussion; prepare effectively before facilitating a meeting; consider some of the difficult behaviours that can occur in meetings; and think of some possible strategies for dealing with these. Course duration is 2 hours. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Research methods for the social sciences

This book is designed to introduce students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. The content was curated by Professor Bill Pelz at Herkimer College / SUNY, US and published by Lumen.

Date published: Varied | Content Type: Course | License: Individual CC licenses are included for each component.

### Statistics for the social sciences

This course provides a detailed overview of statistics for the social sciences. The content was curated by Professor Bill Pelz at Herkimer College / SUNY, US and published by Lumen.

Date published: Varied | Content Type: Course | License: Varied

### Sociology

Key concepts in this course include the sociological imagination and perspectives, scientific research methods, culture and society, socialisation and interaction, deviance, crime and social control, inequality, race and ethnicity, gender, sex and sexuality, marriage and family, religion and education, health and aging, urbanisation, the environment, government, work and the economy, and media. This course features performance assessments and writing assignments qualify students' understanding of the material. Faculty resources can be requested. Published by Lumen.

Date published: Varied | Content Type: Course | License: Varied

### Introduction to sociology course

This course explores the origins of sociology, major sociological theories, research methods, and basic sociological principles. Created by Saylor.org Academy. Free registration required.

Date published: No information available | Content Type: Course | License: [CC-BY 3.0](#)

### Journal of social care (Ireland)

This journal, for the first time, provides a space within the Irish context for stakeholders within the social care field, both experienced and inexperienced to publish material of relevance to their profession.

Date published: Varied | Content Type: Journal | License: [CC-BY-NC-SA 4.0](#)

### Trauma and resilience among displaced populations: a sociocultural exploration

Includes cases based on the author's own 10-year experience working in emergency contexts with displaced populations in 11 countries across the world. Focuses on the mental health of displaced populations from a uniquely psychological, sociocultural, and ecological perspective. Provides practical applications for non-specialist professionals working with displaced populations in complex institutional systems. Written by Dr. Gail Theisen-Womersley and published by Springer.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Social science research: principles, methods, and practices

This book is designed to introduce doctoral and postgraduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioural research, and can serve as a standalone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently being used as a research text at universities in 216 countries, across six continents and has been translated into seven different languages. Written by Anol Bhattacharjee of University of South Florida, USA.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA](#)

### Introduction to sociology

This textbook aligns to the topics and objectives of many introductory sociology courses. It is arranged in a manner that provides foundational sociological theories and contexts, then progresses through various aspects of human and societal interactions. The new edition is focused on driving meaningful and memorable learning experiences related to critical thinking about society and culture. Published by OpenStax, US.



Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### The sociological cinema

A resource for using video and pop culture to teach and learn sociology. The Sociological Cinema is created and edited by Lester Andrist, Valerie Chepp, and Paul Dean.

Date published: 2010 to date | Content Type: Video | License: [CC BY-NC-SA 3.0](#)

## Social Science (Social Work)

See also: [Social Care](#), [Addiction Studies](#)

### Social work research methods OER collection

A collection of course assignments and presentations in Microsoft Word and Microsoft PowerPoint formats. These were adapted from the textbook [Scientific Inquiry in Social Work](#), by Dr. Matthew DeCarlo, for use in a course in Eastern Kentucky University, US.

Date published: 2021 | Content Type: Collection | License: [CC-BY-NC-SA 4.0](#)

### Research methods for the social sciences

This book is designed to introduce students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioral research, and can serve as a stand-alone text or as a supplement to research readings in any doctoral seminar or research methods class. The content was curated by Professor Bill Pelz at Herkimer College / SUNY, US and published by Lumen.

Date published: Various | Content Type: Course | License: Individual CC licenses are included for each component.

### Statistics for the social sciences

This course provides a detailed overview of statistics for the social sciences. The content was curated by Professor Bill Pelz at Herkimer College / SUNY, US and published by Lumen.

Date published: Various | Content Type: Course | License: Various

### Intro to case notes for new social workers

By the end of this module you should be able to: recognise final, good quality social work case notes and identify concise writing in the context of writing / editing case notes. Shared by Tim Wohltmann, US.

Date published: 2024 | Content Type: Course | License: [CC-BY-NC-SA](#)

### [Aigne: the online postgraduate journal of the College of Arts, Celtic Studies and Social Sciences, at University College Cork](#)

Aigne was founded in 2010 by postgraduate students of the College and regularly invites submissions from both UCC students and postgraduates internationally.

Date published: 2011-current | Content Type: Journal | License: [CC-BY-NC-ND](#)

### [Irish Journal of Applied Social Studies \(IJASS\)](#)

The IJASS is an international, scholarly peer reviewed journal focused on achieving and promoting excellence in research. Submissions are welcome on a range of social scientific disciplines including sociology, anthropology, criminology, childhood studies, geography, youth studies, education, social work, psychology and social care from majority and minority world perspectives. The editorial team includes Dr Lisa Moran, Dean of Graduate Studies and Head of the Graduate School at TUS.

Date published: No information available | Content Type: Journal | License: [CC-BY 4.0](#)

### [Social science protocols](#)

Social Science Protocols is a fully peer reviewed open-access online journal platform. It is the only platform with a focus on publishing study protocols in the social sciences disciplines. It is hosted by Edinburgh Diamond Publisher.

Date published: 2018-2023 | Content Type: Journal | License: [CC-BY 4.0](#)

### [The cause and consequence of human trafficking: human rights violations](#)

This book was written by social workers in an effort to educate the reader about human trafficking and human rights violations from multiple lenses. It is divided into six sections: Introduction to Human Trafficking; Sex Trafficking; Labor Trafficking; Various Forms of Human Trafficking; Action; and Resources. Published by Ohio State University.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### [Guidebook for social work literature reviews and research questions](#)

This short guidebook provides information about selecting a research topic and research questions, searching for literature, reading and understanding scholarly writing, and writing a literature review to synthesize what is known and what remains to be learned about a social problem. It also provides links to additional materials. Published by University of Texas at Arlington, US.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Domestic violence in immigrant communities: case studies**

The book highlights the complexity of domestic violence cases in immigrant communities and the different legal processes that these women encounter in seeking justice and the challenges they face in relation to re-establishing their own lives and the lives of their children. Published by eCampusOntario.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### **Making sense of a global pandemic: relationship violence & working together towards a violence free society**

This book explores relationship violence focusing amongst other things on definitions; the scope of the problem, theoretical frameworks, interventions and prevention strategies. Published by Kwantlen Polytechnic University, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY-NC 4.0](#)

### **Social science research: principles, methods, and practices**

This book is designed to introduce doctoral and postgraduate students to the process of conducting scientific research in the social sciences, business, education, public health, and related disciplines. It is a one-stop, comprehensive, and compact source for foundational concepts in behavioural research, and can serve as a standalone text or as a supplement to research readings in any doctoral seminar or research methods class. This book is currently being used as a research text at universities in 216 countries, across six continents and has been translated into seven different languages. Written by Anol Bhattacharjee of University of South Florida, USA.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **How migrants choose their destinations: factors influencing post-EU accession choices and decisions to remain**

This book reveals how decisions regarding where to migrate are made, what factors are considered, how these change over time and why some destinations are more attractive to certain categories of people. Based on rich existent, and new data, the book explains the destination choices of Polish migrants to the four most frequently chosen destinations countries: the UK, Ireland, Germany and the Netherlands. Examined through a sophisticated theoretical framework allowing for the incorporation of factors resulting from several fields – economics, public policies, demography – and migration theories, it paints a nuanced and balanced picture of European migration. This book will be of key interest to scholars and students of migration studies, Central and Eastern European politics, and more broadly to sociology, political science, social geography and international relations.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

## Sports Science (Physical Activity, Exercise)

See also: [Anatomy](#), [Psychology](#)

### Developing resilience in sport

Learning outcomes: describe the features of resilience in both individual and team contexts and understand why it is important for athletic development; critically discuss the role of the environment in the development of resilience; and examine how to build resilience in a range of sport settings and apply this knowledge to real world scenarios. Course duration is 10 hours. Shared by the Open University.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Learning from sport burnout and overtraining

In this free course Learning from sport burnout and overtraining, learners will gain a deeper understanding of the physical and mental aspects of sport such as athletic identity, overtraining and perfectionism. Registration required and the course duration is 24 hours. Shared by The Open University.

Date published: 2020 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Supporting female performance in sport and fitness

Learning outcomes: understand the physiological and psychological differences between men and women and between individual women; identify female-specific issues that need to be considered to promote the health, fitness and wellbeing of female athletes; and recognise the gender gap in research between males and females and its impact on female health and performance. Course duration is 24 hours. Shared by the Open University.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### The future of physiological research: a greater understanding of female master athletes and aging?

This review examines the biological sex gap in sports participation among master athletes and the subsequent disparity in empirical research, thereafter exploring possible contributing factors. It highlights the importance of studying female master athletes to better understand the aging process and offers recommendations to address current evidence gaps. Published in Physiological Reports journal, by Lorcan Daly, Sports and Health Sciences TUS.

Date published: 2024 | Content Type: Article | License: [CC-BY 4.0](#)

### Promoting physical activity to cancer survivors in practice: challenges and solutions for implementation

This study explored the challenges and solutions to the effective promotion of physical activity (PA) to cancer survivors in practice in Ireland amongst a variety of stakeholders, including healthcare professionals (HCPs), policy makers, community providers of cancer care, and academics. Published by TUS staff and collaborators in the journal Cancers.

Date published: 2025 | Content Type: Article | License: [CC-BY 4.0](#)

### Athlete activism

This book examines the phenomenon of athlete activism across all levels of sport, from elite and international sport, to collegiate and semi-pro, and asks what this tells us about the relationship between sport and wider society. With contributions from scholars around the world, the book presents a series of fascinating case studies, including the activism of world-famous athletes such as Serena Williams, Megan Rapinoe and Raheem Sterling. Covering a broad range of sports, from the National Football League (NFL) and Australian Rules, to fencing and the Olympic Games, the book sheds important light on some of the most important themes in the study of sport, including gender, power, racism, intersectionality and the rise of digital media. Edited by Rory McGrath and published by Routledge.

Date published: 2021 | Content Type: Textbook | License: [CC-BY-NC-ND](#)

### Sports marketing: an Australian perspective

This book has been written for sports management students, where they will learn general marketing knowledge and theories relevant to the sports industry, such as sponsorship, endorsements, customer experience, pricing and operations. Published by the Western Sydney University, Australia.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Sports science and human health

This book covers a range of topics, from the use of machine learning in sports science to the psychological impact of sports and sports for peace initiatives. A large section is dedicated to wearable devices like biomechanical devices to gauge motor skills, and other smart devices to assess player performance. Beyond awareness, the multidisciplinary nature of this book is a source of inspiration for the scientific community. Published by IntechOpen.

Date published: 2021 | Content Type: Textbook | License: [CC-BY 3.0](#)

### Essentials of exercise and sport psychology

This broad ranging text represents the collaboration of more than 70 authors from multiple countries, was written for both undergraduate and graduate students. It includes learning activities. Published by the Society for Transparency, Openness, and Replication in Kinesiology.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)

### **Evidence-based massage therapy: a guide for clinical practice**

This clinical practice handbook will prove essential to massage therapists, physical therapists, chiropractors, medical doctors, psychologists and other health professionals who care for people with musculoskeletal pain. It is a living document and will be continuously updated as new research becomes available. Published by Lambton College, Toronto, Canada.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### **Bodies in motion**

Bodies in Motion is a collection of videos showing basic anatomical moments across diverse bodies. The clips are short without audio. The purpose of the collection is a resource for anatomy, medical, or health education instruction. Shared by Western University, Canada.

Date published: 2024 | Content Type: Video collection | License: [CC-BY-NC-SA](#)

## **Statistics and Data (Data Interpretation, Data Analytics, Data Analysis, Data Visualisation)**

**See also:** [Research Methods](#), [Mathematics for Engineering and Science](#)

### **Data analytics and decision making**

This resource focuses on three key concept areas: data acquisition, data processing, and decision-making models. In this course, students will be able to develop advanced knowledge and skills to acquire related data for operations of business or projects; apply quantitative literacy skills such as statistics and machine learning; and use predictive or prescriptive modelling to make timely, actionable, and meaningful decisions. Shared by the University of Windsor, Canada.

Date published: 2022 | Content Type: Collection of videos and exercises | License: [CC-BY](#)

### **GAMES: a gentle approach to math, excel, and stats (course 1)**

This course is for a diverse set of learners in business, economics and other social sciences including (a) those who may lack a strong enough math and statistics background from high school, (b) learners seeking to refresh their math and statistics knowledge in preparation for upper years in university and college, (c) learners wishing to re-skill or up-skill by switching majors or adding a minor and lacking the necessary math and statistics tools. The course has two parts: pre-calculus and calculus. Created by staff from York University, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-ND](#)

### GAMES: a gentle approach to math, excel, and stats (course 2)

This course is for a diverse set of learners in business, economics and other social sciences including (a) those who may lack a strong enough math and statistics background from high school, (b) learners seeking to refresh their math and statistics knowledge in preparation for upper years in university and college, (c) learners wishing to re-skill or up-skill by switching majors or adding a minor and lacking the necessary math and statistics tools. The course has two parts: pre-calculus and calculus. Created by staff from York University, Canada.

Date published: 2022 | Content Type: Course | License: [CC-BY-NC-ND](#)

### Data analysis: hypothesis testing

Learning outcomes: understand the principle of hypothesis testing; understand the idea of alpha in hypothesis testing; differentiate between one-tailed and two-tailed tests; understand hypothesis testing of means and proportions; report the exact p-value of a test. Course duration is 9 hours. Shared by the Open University.

Date published: 2024 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Data analysis: visualisations in Excel

Learning outcomes: explore the functionalities of Excel that are used for problem solving in a business context; demonstrate the numeracy skills required for gathering and organising data for decision making related to a specific problem; use graphical techniques (histograms and scatter diagrams) to provide a visual summary of available data; recognise data presentation and communication techniques used in a range of traditional and electronic media; describe the relationship between two variables (independent and dependent variables). Course duration is 6 hours. Shared by the Open University.

Date published: 2024 | Content Type: Course | License: [CC-BY-NC-SA 4.0](#)

### Technical writing and simple statistics: for laboratory classes

This text, which was designed for Biology and Chemistry students, focuses on how to communicate results through technical writing, use Excel to perform simple statistics, and create professional charts/documents. Excel tutorials are provided along with team writing strategies and guidelines on how to hold efficient meetings. Created by staff from Montana State University.

Date published: 2022 | Content Type: Textbook | License: [CC-BY-NC](#)

### Clear-sighted statistics: an introduction to statistics textbook

Clear-Sighted Statistics is an open access introductory textbook that addresses the shortcomings of current introductory textbooks. This book demonstrates how to conduct statistical analysis with Microsoft Excel. The text is accompanied by video lectures and PowerPoint slides.

Date published: 2021-2023 | Content Type: Textbook, PowerPoint Slides and Video Lectures |  
License: [CC-BY-NC-SA](#)

## Supply Chain Management (Logistics, Operations Management)

### Introduction to operations management

Learning outcomes: understand the input–process–output framework, the extensions of it, and apply them to a wide range of operations; examine the types of transformation processes occurring within operations; define the roles and responsibilities of operations managers and the challenges they face; reflect on your own operations management responsibilities; and understand the content of an operations strategy and the decisions involved. Course duration is 6 hours. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Supply chain sustainability

Learning outcomes: understand what is meant by sustainability in the context of the supply chain; explain the four perspectives of supply chain sustainability; assess the degree of sustainability in your (or any other) organisation from each of these four perspectives, and provide suggestions for improving; critically assess the extent of sustainability that is realistic in a given situation, and identify and explain the constraints to sustainability. Course duration is 8 hours. Shared by the Open University.

Date published: 2019 | Content Type: Course | License: [CC-BY-NC-SA](#)

### Why supply chains are crucial to business

This podcast episode explores how important supply chains are to the operations of business, and how businesses are reacting to the post pandemic disruptions. University of Oxford Podcasts.

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Inventory analytics

This book provides a comprehensive and accessible introduction to the theory and practice of inventory control, using a practicable, Python-driven approach to illustrating theories and concepts via computational examples, with each model covered in the book accompanied by its Python code. Published by staff from the University of Edinburgh.

Date published: 2021 | Content Type: Textbook | License: [CC-BY](#)



## Sustainability

### Advancing evidence-based policymaking through Open Collections and Open Science Principles

This booklet is designed to offer policymakers insight into the essential connections between the United Nations Sustainable Development Goals (SDGs), Open Science, and Open Collections across various domains. It highlights how global policy goals are intrinsically linked to research initiatives that rely on Open Collections to provide evidence for decision-making. Policy measures to develop collections as research infrastructure are making collections more accessible useful for research and subsequently for evidence based policy and impactful decisions. Relevant use cases demonstrate how Open Science and Open Collections are fundamental to achieving the SDGs. Shared by Skills4EOSC – Skills for the European Open Science Commons: Creating a Training Ecosystem for Open and FAIR Science.

Date published: 2014 | Content Type: Booklet | License: [CC-BY 4.0](#)

### From global to local – the relationship between global climate and regional warming

Professor David Battisti, The Tamaki Endowed Chair of Atmospheric Sciences, University of Washington, speaks about global climate sensitivity controlling regional warming uncertainty and its role in impacting on human health, particularly heat stress. University of Oxford Podcasts.

Date published: 2019 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### The power of experience with Dr. Ari Epstein

Dr. Ari Epstein shares how the Terrascope Program at MIT offers first-year students a chance to help solve real-world sustainability challenges—and gain lifelong learning skills along the way. Produced by MIT, US.

Date published: 2024 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Linking people, nature, food and climate: progress and implications

David Nabarro, former Special Representative of the United Nations Secretary-General for Food Security and Nutrition, will give a talk on what implications there will be for the planet and us in linking nature, food and the climate. University of Oxford Podcasts.

Date published: 2019 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### Trash talk: how to transform our approach to waste management

The episode gives an overview of best practices in waste management and promising trends in private and public approaches to waste. University of Oxford Podcasts.

Date published: 2023 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### **Amplifying the voices of climate experts worldwide**

This episode of Future of Journalism looks at a project to improve climate coverage by making scientists and experts from overlooked regions more accessible. University of Oxford Podcasts.

Date published: 2022 | Content Type: Podcast | License: [CC-BY-NC-SA 2.0](#)

### **Climate education hub**

This Hub is designed to be a library of educational resources about climate change and intersectional topics.

Date published: Various | Content Type: Resource collection | License: Various

### **Bending the curve: climate change solutions**

This textbook lays out ten solutions that together can bend the curve of climate warming below dangerous levels. These solutions fall into six categories: science, societal transformation, governance, economics, technology, and ecosystem management. A learning companion to this book is also available. Published by the Regents of the University of California, US.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### **Creating with uncertainty: sustainability education resources for a changing world**

This set of resources is designed to support students in engaging with the complexities of climate change and biodiversity loss in their everyday lives. It consists of ten on-the-ground sustainability topics, each offering different activities that can be used to enrich teaching across the curriculum. They engage students philosophically and practically to work towards a more sustainable world. What is key is that this pack offers opportunities to be creative with uncertainty, so that students and their teachers can draw on their own and curricular knowledge, to see what new things they might discover. The invitation is to be uncertain together, where neither the educator nor the student knows (and cannot know) the answer in advance. Published by the University of Sussex, UK.

Date published: 2023 | Content Type: Textbook | License: [CC-BY-NC-ND 4.0](#)

### **Learning companion to bending the curve: climate change solutions**

Companion to textbook. The Learning Companion to Bending the Curve: Climate Change Solutions can help all readers gain the most from this book. This resource includes questions for review and discussion which help connect ideas, understand key concepts, and to increase the ability of readers at all levels to effectively discuss and explain climate change solutions.

Date published: 2019 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Plastic pollution toolkits

World-leading toolkits, informed by science and engineering, helping us understand, visualise, quantify and solve plastic pollution challenges. Tools are open source/free for educational use. Shared by the University of Leeds.

Date published: Varied | Content Type: Toolkits | License: Open source/Free to use for education

## Teaching and Learning

Access OER relating to Teaching and Learning using our [Pressbook](#)

## Trades (Apprenticeships)

**See also:** [Engineering](#), [Mechanical](#), [Built Environment](#), [Mathematics for Engineering and Science](#), [Sustainability](#)

### Technical mathematics

This developmental-level mathematics textbook is intended for career-technical students. The approach is conversational—inviting rather than intimidating—and many of the examples are drawn from everyday life rather than from the technical trades. Published by Open Oregon Educational Resources.

Date published: 2024 | Content Type: Textbook | License: [CC-BY-NC-SA 4.0](#)

### Layout procedures for metals

This booklet will lay out step by step procedures and how they can aid a crafts-person to build templates to build both simple and complicated fabricated parts. Types of materials that can be used with these templates is a combination of flat sheet and round tube or pipe. Published by Open Oregon Educational Resources.

Date published: 2020 | Content Type: Textbook | License: [CC-BY](#)

### Basic blueprint reading

This is an entry level blueprint reading book written for the first-year welding student. The book will be used in the first term of a two-year welding programme to familiarise the student to sketching and reading blueprints. Published by Open Oregon Educational Resources, US.

Date published: 2019 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Manufacturing processes 4-5

This text will explain the hows, whys, and whens of various machining operations, set-ups, and procedures. It outlines how machine tools operate, and when to use one particular machine instead of another. Published by Oregon Open.

Date published: 2020 | Content Type: Textbook | License: [CC-BY 4.0](#)

### Numeracy resources: maths for trades workbooks

Maths workbooks are provided for a variety of trade apprenticeships, including: carpentry and joinery; commis chef; electrical, and plumbing. Created by the ETBI, Ireland.

Date published: Varied | Content Type: Workbooks | License: [CC-BY-NC-SA 4.0](#) / [CC-BY-NC-ND 4.0](#)

### Entrepreneurial leadership for the trades

This concise textbook explores Leadership and Business in Trades. Published by BC Campus.

Date published: 2019 | Content Type: Textbook | License: [CC BY 4.0](#)

### Trades textbooks

50 textbooks created for a variety of trades and apprenticeships in the Canadian context.

Date published: Varied | Content Type: Textbook | License: [CC BY 4.0](#)

### Troubleshooting motors and controls

This course is designed to teach students about induction motors and the methods used to control and troubleshoot them.

Date published: 2020 | Content Type: Video | License: [CC-BY-SA 4.0](#)



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This index was created with support from The National Forum for the Enhancement of Teaching and Learning in Higher Education.

Every effort has been made to ensure that the Index content is correct, but we welcome feedback on improvements and errata. Please contact us via [email](#) to share your feedback.

