New

International
Advanced Diploma

Curated Courses: 2026/27

A guide for faculty guiding senior phase students as they plan pathways towards future study beyond school.

EIM
Education, with impact

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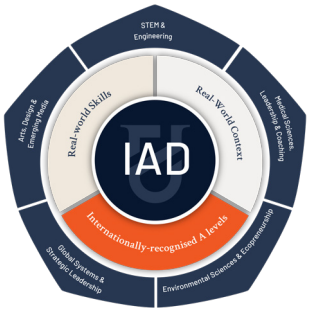
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WHAT IS THE INTERNATIONAL ADVANCED DIPLOMA?

The IAD is a progressive curriculum for EIM students aged 16-18, comprising ***world-class A levels***, and ***real-world skills*** gained via hands-on experiential learning in ***real-world contexts.***

A level Qualifications	Real-world Skills	Real-world Context
World-class qualifications mean students gain access to top global university destinations.	The IAD develops seven core skills mapped to the University of Melbourne's New Metrics for Success to prepare students for life.	Experiential learning via carefully curated opportunities with top universities, leading companies, and NGOs.

Why choose the IAD?



The IAD offers a broader and more dynamic learning experience than traditional education by combining personalisation with a strong academic and skills-based focus, ensuring students develop both the knowledge and the practical capabilities for successful futures post-school.

Personalising the IAD journey

Students are supported to design a highly personalised experience by choosing their:

- IAD pathway
- A level qualifications
- EPQ topic
- Courses to complement their chosen IAD pathway

All qualifications, microcredentials, and certificates earned throughout an individual's IAD journey are stored in a personalised digital wallet, providing a ***Real-world Skills Profile*** – a distinctive record of academic qualifications, adaptive capabilities, and validated real-world experiences, which together demonstrate a world-beating readiness for the future.

What are the five IAD pathways?

Students choose one of the five IAD pathways based on their strengths, interests, and future plans, as well as the availability of the pathways at their school.

The five IAD pathways:

- STEM & Engineering
- Medical Sciences, Leadership & Coaching
- Environmental Sciences & Ecopreneurship
- Global Systems & Strategic Leadership
- Arts, Design & Emerging Media

USING THE IAD CURATED COURSES GUIDE

Faculty can use this guide to introduce the IAD and help students explore, plan, and personalise their IAD journey, making confident, informed choices about their future pathways.

- **Introduce the IAD** and the available **IAD pathways** at your school.
- Once a pathway is chosen, guide on the programmes and certifications best-suited to the individual.
- Support **A level subject choices** suited to the interests, goals, and strengths of each student. A level choices can be exploratory, or aligned with the chosen IAD pathway.
- Guide students as they consider **EPQ topics.**
- Explain that all formal qualifications, microcredentials, and certifications achieved within the IAD journey will be saved to a personalised, digital **Real-world Skills Profile.**

Students develop sophisticated, creative, and analytical thinking through intensive study of visual arts, performing arts, creative writing, and digital media production.

By combining traditional artistic disciplines with cutting-edge technology, students create compelling content across multiple platforms while developing their critical analysis skills.

Students engage in portfolio development, collaborative projects, and real-world creative problem-solving that bridges aesthetic expression with technological innovation.

Example university courses/careers: Product Designer | Graphic Designer | Web Designer | Animator | Set or Production Designer | Game Designer | Teacher or Lecturer



HARVARD X: THE ARCHITECTURAL IMAGINATION

Learn fundamental principles of architecture – as an academic subject or a professional career – by studying some of history's most important buildings.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks (3-5 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How to read, analyse, and understand different forms of architectural representation.
- Social and historical contexts behind major works of architecture.
- Basic principles to produce your own architectural drawings and models.
- Pertinent content for academic study or a professional career as an architect.

Level
Beginner

Provider
edX

Certification: Validated course certification from HarvardX.

Cost: Please consult your Senior School Academic Lead for further guidance.

LCI EDUCATION: GRAPHIC DESIGN ESSENTIALS

Level
Beginner

Provider
edX
LCI Education

Acquire the essential skills to become a working Graphic Designer from the basics of colour theory to presenting a project to a client.

Certification: Validated course certification from LCIEducation.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (1-2 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Apply the rules of visual language and visual composition to create a meaningful visual design.
- Use visual language, understand composition, create presentations and communication plans, and interpret and design a visual composition.
- Analyse a client mandate and develop ideas.

UMD: PRODUCT DESIGN, PROTOTYPING, AND TESTING

Level
Beginner

Provider
University of Maryland
edX

Translate product ideas into tangible assets by creating wireframes, 3D renderings, prototypes, and minimum viable products (MVPs) to test assumptions and validate customer interests.

Certification: Validated course certification from UMD.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-3 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Development processes and organisations. The customer needs process, Lean UX, diagrams, sketches, wireframes, prototypes, and emerging technologies.
- Concept generation and selection. Defining product specifications, establishing target specifications, and setting the final specifications.
- Product design and architecture. Industrial design, design for the environment, and design for manufacturing.
- Principles of prototyping and user experience. Planning for prototyping, service design, mapping the user experience, and anatomy of an experience map.
- Wireframing and prototyping models. Product architecture, choosing a wireframing/UX prototyping tool, Software Development Lifecycle (SDLC) and Web Design Lifecycle, and open source.
- Robust design considerations. Robust design process and version control.
- Testing and troubleshooting. Red team and blue team, recovering from disaster, and strategies for recovery.
- Project management. Guidelines for project planning and project execution.

UC DAVIS: ANIMATION WITH JAVASCRIPT AND JQUERY

Learners will describe the top JavaScript libraries and differentiate which would work best to implement and accelerate development of web page animation.

Level
Beginner

Provider
edX
UC DAVIS
UNIVERSITY OF CALIFORNIA

Certification: Validated course certification from UC Davis.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-5 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Using jQuery elements to manipulate HTML documents and enhance user experience on a landing page.
- Break the page into individual jQuery projects.
- Explore jQuery's relationship with HTML documents.
- Focus on plugins and break down jQuery's ability to manipulate HTML and CSS.

HP: GENERATIVE AI MASTERY: REVOLUTIONISING GAME DEVELOPMENT

Generative AI is transforming game development, enabling more immersive and interactive experiences. This course covers AI's role in narrative, concept art, texturing, modelling, and animation.

Level
Beginner

Provider
edX
hp

Certificate: Validated course certification from HP.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 3 weeks (3-5 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Explore Generative AI, which creates content like text, images and 3D models, generating unique elements.
- Introduction to Unreal Engine 5.
- Build your first game with Unreal Engine 5.
- Learn Blueprints, Unreal's visual scripting system, to design interactive elements and control gameplay flow without coding.
- Discover Unity 3D, a versatile engine.

BERKLEE X: VOCAL RECORDING TECHNOLOGY

Explore emerging innovations in vocal production, audio engineering, recording, and mixing.

Level
Beginner

Provider
edX
Berklee College of Music

Certification: Validated course certification from BerkleeX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (5-6 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- An understanding of vocal technologies and music production.
- How to enhance your music with compelling vocal tracks.
- How to use new and emerging techniques and technologies to improve your music.

ALASKA X: THE CRAFT OF STORYTELLING

Tell captivating stories your audiences will love.

Level
Beginner

Provider
edX
University of Alaska Fairbanks

Certification: Validated course certification from AlaskaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (3-5 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

Learners in this course will develop their storytelling skills and learn how to tell a compelling story in a powerful way through multiple techniques.

- Finding good stories
- Targeting what audiences want in a story
- Building the dramatic arc
- Using the "Ice Road Trucker" effect
- Designing story structures
- Locking the conflict
- Establishing key elements
- Eliminating rabbit trails
- Strategising delivery
- Ending your story

EPFL X: SMART CITIES, MANAGEMENT OF SMART URBAN INFRASTRUCTURES

In the era of Smart Cities, learn the principles of urban infrastructure management and find ways to incorporate smart technologies into legacy infrastructures.

Level
Beginner

Provider
edX EPFL

Certification: Validated course certification from EPFLx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (2-3 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- The nature of disruptive innovations (smart technologies) in urban infrastructure systems.
- State-of-the-art strategies that can be used for "smart infrastructure" solutions in cities.
- Management of the transition phase from legacy infrastructure systems to smart cities.
- Applications for the materials learned in this course, within the context of the management of "smart urban transportation systems" as well as "smart urban energy systems".

DELFT X: FAÇADE DESIGN AND ENGINEERING: COMPLEXITY MADE SIMPLE

Understand the fundamental technology behind façade design and construction and the impact of the various components in facilitating the construction of sustainable, energy-efficient, aesthetic and modern buildings.

Level
Beginner

Provider
edX TUDelft

Certification: Validated course certification from DelftX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (3-4 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Explore the main principles involved in façade design in the context of sustainability.
- Categorise and assess different façade technologies and materials.
- Incorporate façades' lines of defence (air, wind, water) systematically into individual designs.
- Recognise structural demands on façades and tolerances, and integrate them into façade development.

EPFL X: URBAN INFRASTRUCTURE MANAGEMENT

Learn the principles of managing urban infrastructure systems – the complex socio-technical systems that provide basic services to more than 50% of the world's population.

Level
Beginner

Provider
EPFL edX

Certification: Validated course certification from EPFLx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (4-6 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- The systemic nature of urban infrastructures.
- The main schools of thought in management of urban infrastructures.
- Urban Energy Systems and the key principles for managing them.
- Urban Transportation Systems and the key principles for managing them.

DESIGN THINKING AND PROCESS

Think differently and dream bigger! This course launches the development of the first-year portfolio, which documents students' journeys toward becoming creative professionals.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Develop creative thinking skills through organisational methods and iterative design
- Discover elements of design and principles of organisation
- Focus on creative thinking, ideation, and problem-solving

SKETCHING AND DRAWING

From quick sketches to detailed drawings, students build the essential skills that creative professionals use daily.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Develop perceptual drawing skills from direct observation, emphasising techniques for accurately sighting, measuring, and applying theories of perspective.
- Through hands-on exercises, learn to capture proportions and spatial relationships, laying the foundation for quickly sketching and visually communicating ideas with clarity and confidence.
- Showcase your expertise through professional-level critiques and presentations.

INK TO IDEAS: CRITICAL CONCEPTS IN LITERATURE AND WRITING

Authors through the centuries have used the interdependent skills of reading and writing to discover and engage with ideas across a range of complex topics and subject matter.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Learn techniques to read, critique, and interpret a variety of texts
- Discover how to apply narrative, expository, and evidence-based rhetorical strategies to convey ideas in written work

VISUAL CULTURE IN CONTEXT: PRE-MODERN GLOBAL PERSPECTIVES

The study of human culture and experience is grounded in the investigation of creativity, continuity, and invention.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Learn how to examine artefacts from across the globe within key historical moments.
- Build a language to describe and contextualise global visual productions by a range of cultures.
- Uncover how to read critically to inform analytical thinking and writing.
- Explore significant contributions to the development of cultural expression from the Palaeolithic to the late Medieval period.

VISUAL CULTURE IN CONTEXT: MAKING MODERNITY

Discover historical and contemporary expressive practices through critical encounters with visual and cultural productions from across the globe.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Explore the emergence of global consciousness and innovative forms of expression.
- Engage in research, close readings, and visual analysis of artefacts from the Early Modern, Modern, and Post-Modern periods.

DIGITAL COMMUNICATIONS

Learn effective digital communications - fundamental to all creative professions.

Level
Beginner

Provider
SCAD

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Investigate the diverse applications of digital tools and methods.
- Learn how to develop foundational strategies for confident communication.
- Through research, ideation, and production, build a comprehensive understanding of the competencies common to digital expression and communicating their professional identity in a digital world.

SPEAKING OF IDEAS

Learn how to engage in thoughtful public discourse and communication about ideas that shape the human experience

Level
Beginner

Provider
SCAD

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- From history, religion, and identity to innovation, creative expression, and beyond, students study rhetorical concepts and examples to make informed contributions and enrich their skills in authentic self-presentation.

INTRODUCTION TO ADVERTISING: CONCEPT TO CONTENT

Every great campaign begins with an idea that sparks the creative process!

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Become equipped with a clear understanding of strategy, audience, and brand purpose
- Understand how to leverage industry trends and begin to concept these big ideas
- Guided by the brand brief, students practice copywriting and art direction to develop original solutions to brand problems

CAMERA EXPLORATION & TECHNIQUE

Discover digital photography and how this powerful communication tool is central to various creative careers.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Experiment with manual camera controls and digital workflow in the context of professional conventions
- Explore imaginative visual communication applications
- Discover dynamic career trajectories within fine art, advertising and editorial photography

BUSINESS I: FUNDAMENTALS

Gain knowledge of business fundamentals - essential for careers in creative industries.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Discover business fundamentals: research, accounting, finance, organisational structure, human resources, intellectual property, and marketing.
- Learn the terminology and basic tenets of business and finance through case studies and real-world applications.

MANAGEMENT IN THE CREATIVE ENVIRONMENT

An introductory course on the four principles of management necessary to any creative workplace: planning, organising, leading and controlling.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Develop critical thinking skills as a prelude to managerial skills with particular emphasis on decision-making, interpersonal communication, ethical choices and social responsibility.
- Examine important legal issues involved in the management of a business in art, design and other creative professions.

Students explore the mathematical and scientific principles that underlie technological advancements and engineering design.

This pathway combines theoretical understanding with hands-on application, engaging students in research projects, prototype development, and systematic problem-solving. Students develop expertise in data analysis, experimental design, and computational thinking while working on real-world challenges that require interdisciplinary scientific knowledge and innovative engineering solutions.

Example university courses/careers: Mechanical Engineer | Software Developer | Biomedical Scientist | Robotics Engineer | Astrophysicist | Chemical Engineer | Civil Engineer | Data Analyst | AI Researcher | Science or Maths Educator



DARTMOUTH X: THE ENGINEERING OF STRUCTURES AROUND US

Explore how engineers design bridges and buildings in our communities and iconic structures around the world.

Level
Beginner

Provider
edX · DARTMOUTH

Certification: Validated course certification from DartmouthX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (3-6 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Learn how and why the world's structures (including in the natural and biological world) were designed and constructed the way they were.
- Learn to conceptually design and build prototypes of structures.
- Understand that engineering goes beyond maths and science and involves much creativity and innovation.
- Identify and compare structural elements, forms, and systems.
- Describe the loads expected on a structure and the resulting flow of forces through it.

DELFT X: PRE-UNIVERSITY PHYSICS

Prepare for your technical studies by reviewing the fundamentals of physics. Become familiar with the way physics and physics-related topics are taught at university level.

Level
Beginner

Provider
edX
TU Delft

Certification: Validated course certification from DelftX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (6-8 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Gain a basic understanding of mechanics, electricity and magnetism, and waves, and apply this knowledge in various engineering contexts.
- Be introduced to the academic approach to physics.
- Be able to: 1) Solve physics problems in an algebraic way without specifying numerical values; 2) provide order-of-magnitude estimations without using calculation aids; 3) apply basic differential and integral calculus to physics problems; 4) work with vectors at a conceptual (non-quantitative) level.

FEDERICA X: FUTURE ROBOTS

Learn Robots as a new science for the understanding of human beings and the effects of robotics in the real world.

Level
Beginner

Provider
edX
Università degli Studi di Napoli Federico II

Certification: Validated course certification from FedericaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 2-part course
- **Time to complete:** 7 weeks (6-8 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Potential problems and opportunities for human beings as a result of the robotics revolution.
- The intricacies of human behaviour: biological evolution, development, learning, imitation, cultural evolution.
- The economic revolution and political life as seen through the robotic revolution.
- Analysis of mental pathologies, art, and religion.

STANFORD ONLINE: STATISTICAL LEARNING WITH PYTHON

Learn some of the main tools used in statistical modelling and data science. We cover both traditional and exciting new methods and how to use them in Python.

Level
Beginner

Provider
edX
Stanford | ONLINE

Certification: Validated course certification from StanfordOnline.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 11 weeks
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Overview of statistical learning
- Linear regression
- Classification
- Resampling methods
- Linear model selection and regularisation
- Moving beyond linearity
- Tree-based methods
- Support vector machines
- Deep learning
- Survival modeling
- Unsupervised learning
- Multiple testing

STANFORD ONLINE: COMPUTER SCIENCE 101

Introduction to Computer Science for a zero-prior-experience audience. Play with little phrases of code to understand what computers are all about.

Level
Beginner

Provider
edX
Stanford | ONLINE

Certification: Course certification from StanfordOnline.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course.
- **Time to complete:** 5 weeks (1-10 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- The nature of computers and code, what they can and cannot do
- How computer hardware works
- Necessary jargon: bits, bytes, megabytes, gigabytes
- How software works
- How digital images work
- Computer code: loops and logic
- Big ideas: abstraction, logic, bugs
- How structured data works
- How the internet works: IP address, routing, Ethernet, wi-fi
- Computer security: viruses, Trojans, and passwords
- Analog vs. digital
- Digital media, images, sounds, video, compression

GTX: COMPUTING IN PYTHON I: FUNDAMENTALS & PROCEDURAL PROGRAMMING

Level
Beginner

Provider
edX Georgia Tech

Learn the fundamentals of computing in Python, including variables, operators, and writing and debugging your own programs.

Certification: Course certification from GTx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course.
- **Time to complete:** 5 weeks (9-10 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How a computer processes programming code.
- The write-run-debug cycle of writing code, running it, and revising it based on its output.
- Procedural programming, or how to write sequential lines of code.
- Variables, their types, and their role in complex programmes.
- Mathematical operators for arithmetic operations, exponents, and more.
- Relational operators for evaluating relative values or set membership.
- Boolean operators for resolving complex logical statements.

GTX: COMPUTING IN PYTHON II: CONTROL STRUCTURES

Level
Beginner

Provider
edX Georgia Tech

Learn about control structures, one of the most powerful parts of programming. This course covers conditionals, loops, functions, and error handling, specifically in Python but with broader applicability to other languages as well.

Certification: Course certification from GTx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course.
- **Time to complete:** 6 weeks (4-6 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How control structures can affect how other lines of code run.
- Conditionals, including if, else-if, and else, for complex reasoning.
- Loops, including for loops, for-each loops, and while loops for repeated behaviours.
- Functions, for encapsulating code into reusable chunks.
- Error handling, for anticipating and resolving expected errors.

ALASKA X: UNMANNED AERIAL SYSTEMS (UAS): FUNDAMENTALS

Level
Beginner

Provider
UAF University of Alaska Fairbanks | edX

Learn the fundamentals of unmanned aerial systems (UAS), including terminology, types of platforms, flight physics, and selection of UAS for specific needs and applications.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course.
- **Time to complete:** 4 weeks (4-6 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Certificate:
Course certification from AlaskaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Learning Outcomes

- Understand the principles of flight safety.
- Learn platforms used in unmanned flight.
- Know what types of sensors can be used to record data on flights.
- Learn how UAS's are used in research, commercial, and industrial applications.
- Understand how to choose the right equipment for your needs.
- Learn the basics of unmanned aircraft systems and related terminology.
- Differentiate between the types of UAS and their uses and identify various aircraft configurations.
- Evaluate the benefits and drawbacks of particular characteristics of UAS to inform appropriate platform selection for use in various scenarios.
- Calculate basic aircraft weight trends and aerodynamic properties.
- Determine propulsion performance for specific UAS applications.
- Analyse an aircraft and predict performance.

ALASKA X: MINING ENGINEERING PRINCIPLES: EXPLORATION TO INNOVATION

Level
Beginner

Provider
UAF University of Alaska Fairbanks | edX

This course is designed to introduce learners to the fundamentals of mining engineering, including mine development, mining unit operations, mining methods, mining consequences, mine hazards, and mine safety.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (5-7 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Certification:
Course certification from AlaskaX.

Cost:
Please consult your Senior School Academic Lead for further guidance.

Learning Outcomes

- Describe the key phases of the mining lifecycle, including exploration, development, and closure, & their importance in the value chain.
- Assess environmental impacts and identify strategies for sustainable mining practices.
- Analyse the economic contributions of the mining industry, from mineral resources to technological advancements.
- Compare mining methods and their applications across different mineral deposits.
- Explore the role of data analysis and data science in mining operations and decision-making.
- Discuss modern trends in mining, such as space mining and automation.
- Understand fundamentals like mine design, mine ventilation, and mine safety protocols.

CHALMERS X: ELECTRIC AND CONVENTIONAL VEHICLES

Learn how electric and conventional powertrains work and methods to analyse their performance and energy consumption.

Level
Advanced

Provider
edX
CHALMERS
UNIVERSITY OF TECHNOLOGY

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 7 weeks (10-20 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Formulate vehicle performance requirements
- Translate vehicle requirements to powertrain requirements
- Sizing powertrain components
- Strengths and weaknesses of electric and conventional powertrains
- Driving cycle simulation
- Determine electricity- or fuel consumption of different powertrains

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SPEAKING OF IDEAS

Learn how to engage in thoughtful public discourse and communication about ideas that shape the human experience.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- From history, religion, and identity to innovation, creative expression, and beyond, students study rhetorical concepts and examples to make informed contributions and enrich their skills in authentic self-presentation.

Pathway overview
Students investigate biological systems and human behaviour through an integrated study of anatomy, physiology, psychology, and interpersonal dynamics.

This pathway prepares students for healthcare, coaching, and leadership roles by combining scientific knowledge with practical skills in communication, motivation, and team building. Students engage in laboratory research, clinical observations, and mentorship experiences that develop both scientific literacy and the interpersonal competencies essential for human-centred professions.

Example university courses/careers:
Medicine | Sports Scientist | Physiotherapist | Performance Analyst | Strength & Conditioning Coach | PE Teacher | Sport Psychologist | Health and Fitness Consultant | Rehabilitation Specialist | Sports Coach or Manager



HARVARD X: FUNDAMENTALS OF NEUROSCIENCE, PART 3: THE BRAIN

Discover what makes your brain tick in this third course in our introductory series in neuroscience.

Level
Beginner

Provider
edX, Harvard

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 7 weeks (3-5 hours per week)
- **Dates:** Self-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How sensory perception works in the brain
- How the physiology of vision, hearing, taste, smell, touch, motor control and other senses work
- The basic anatomy of functional areas of the brain
- The visual system of the brain
- How the motor subsystems of the brain execute and coordinate our movement.
- The critical brain systems that keep us alive

Certification: Course certification from HarvardX.

Cost: Please consult your Senior School Academic Lead for further guidance.

DARTMOUTH X: BIPEDALISM: THE SCIENCE OF UPRIGHT WALKING

Upright walking is a hallmark of being human. Explore how this unusual form of locomotion evolved and why.

Level
Beginner

Provider
edX DARTMOUTH

Certificate: Course certification from DartmouthX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (3-4 hours per week)
- **Dates:** Self-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- The nature of scientific inquiry and the role of evidence in testing hypotheses
- The mechanics of upright walking and how unusual this form of locomotion is for a mammal
- How scientists use evidence to examine the origins of upright walking
- How anthropologists use the bones of animals today to bring fossil remains of our ancestors "back to life"
- That upright walking has advantages and costly trade-offs

STANFORD ONLINE: YOUR BODY INSIDE AND OUT: USING EXERCISE PHYSIOLOGY TO SLOW AGEING

Learn how your physiology changes with age and how different types of movement can affect the trajectory of ageing. This class will open your eyes to the amazing systems within your body and help you strategise on activities that fit your goals for a healthy life.

Level
Beginner

Provider
edX Stanford ONLINE

Certification: Course certification from StanfordOnline.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 8 weeks (2-4 hours per week)
- **Dates:** Instructor-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

You will learn about the physiology of ageing and how your body adapts to physical activity across:

- Lifestyle activities
- Cardiovascular system
- Muscles
- Bones
- Joints
- Brain
- Cellular ageing

HARVARD X: GLOBAL HEALTH CASE STUDIES FROM A BIOSOCIAL PERSPECTIVE

Reimagine global health problems with some of the leading global health thinkers and actors through a case-based biosocial framework.

Level
Beginner

Provider
edX

Certification: Course certification from HarvardX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 12 weeks (3-5 hours per week)
- **Dates:** Self-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How to frame a global health problem with a biosocial perspective.
- How to use a toolkit of analytical approaches to examine global health initiatives to identify and implement effective interventions.
- How to evaluate the ethical frameworks that have underpinned engagement within global health.

UCX: MENTAL HEALTH AND NUTRITION

Learn what foods and nutrients should and should not be consumed to improve mental wellbeing and explore the fundamental role that nutrition plays in our mental health.

Level
Beginner

Provider
edX
UCX UNIVERSITY OF CANTERBURY

Certification: Course certification from UCx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 8 weeks (2-6 hours per week)
- **Dates:** Instructor-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Understand how our food supply has changed
- Recognise the components of food that are relevant to mental health
- Discover dietary patterns that maximise nutrient density
- Connect dietary choices to mental health
- Examine dietary advice and what is relevant to better mental health outcomes.
- Implement simple ways to improve your diet.
- Identify individual and environmental factors that influence the supply of nutrients to the brain
- Explore using broad-spectrum micronutrients to address mental health challenges
- Understand when additional nutrients may be necessary to alleviate mental health suffering

BERKLEY X: EMPATHY AND EMOTIONAL INTELLIGENCE AT WORK

Learn research-based skills to strengthen empathy and trust, improve collaboration, and create more innovative, productive, and satisfying experiences at work.

Level
Beginner

Provider
edX
Berkeley UNIVERSITY OF CALIFORNIA

Certification: Course certification from BerkeleyX

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (1-2 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Discover the psychological and biological roots of empathy, trust, and cooperation
- Understand how the skills of emotional and social intelligence support organisational happiness and productivity
- Develop research-based strategies for strengthening empathy and resolving conflicts constructively
- Learn how to lead with social intelligence

UMD: LET'S GET STARTED: BUILDING SELF-AWARENESS

Level
Beginner

Provider

Certification: Course certification from UMD.

Cost: Please consult your Senior School Academic Lead for further guidance

Effective leaders know themselves well. They capitalise on their strengths and manage their weaknesses using self-awareness. Learn how self-aware you are and how you can use self-awareness to intentionally develop your management and leadership skills.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Why great leaders are self-aware
- What you can change and what you can't about yourself and others
- What is self-awareness and its value personally and professionally
- What is your level of self-awareness
- How to improve self-awareness to engage in personal development
- What is your current level of management skills
- What is your decision-making style? What is the best use of it
- Value of management skills
- How to set SMART goals for development of management skills
- Setting SMART goals to use strengths in management skills
- Where to learn the skills needing further development

UMD: MANAGING PEOPLE WITH POWER SKILLS

People are an essential part of every project. But their role can be unclear and misunderstood. Learn how to communicate with others, find a common goal and encourage everyone to work together towards the goals of the project.

Level
Beginner

Provider
edX, University of Maryland

Certification: Course certification from UMD.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Review the key interpersonal skills necessary to manage projects effectively.
- Define who the stakeholders are and how we interact with them in a predictive environment vs. adaptive environment
- Apply techniques used to effectively handle conflicts and inform stakeholders in the context of risk management
- Analyse the factors of resource planning and project team management
- Recognise the key techniques to work with vendors as a part of the procurement process
- Discover the key elements that make for a strong communications plan

MICROSOFT: LEADERSHIP FUNDAMENTALS FOR EMERGING PROFESSIONALS

Level
Beginner

Provider
edX
Microsoft

This course reframes leadership as a daily behaviour rather than a job title, empowering early-career professionals to drive impact from any position. Participants master tactical skills in emotional intelligence, clear communication, strategic influence, and systematic prioritisation using Microsoft 365 tools. By building a personal leadership profile and a trackable development plan, students transition from "task-receivers" to "outcome-owners" who can navigate change and build professional trust.

Certification: Course certification from Microsoft.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 1 week (5-10 hours per week)
- **Dates:** Instructor-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Distinguish leadership from management and identify opportunities in any role.
- Articulate a personal leadership profile using values, strengths, and behaviours.
- Demonstrate foundational Emotional Intelligence through self-awareness and self-regulation.
- Apply BLUF and SBI frameworks for clear messaging and feedback.
- Influence and collaborate effectively without formal authority by building trust.
- Prioritise work and explain decisions using the Eisenhower Matrix.
- Navigate change by identifying response patterns and circles of control.
- Develop a SMART leadership plan tracked with Microsoft 365 tools.

APTLY: ACE THE JOB INTERVIEW

Level
Beginner

Provider
edX

Prepare for every stage of the job interview process with confidence and professionalism. Learn how to respond to interview invitations, answer common and challenging questions, and communicate your experience through clear storytelling. Practice with AI-powered interview coaching, master follow-up and thank-you notes, handle rejections professionally, and confidently evaluate, negotiate, and accept job offers to secure the right role.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 3 weeks (3-4 hours per week)
- **Dates:** Instructor-paced study with scheduled classes
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Master structured answers to behavioural and technical questions
- Deliver confident interview stories that demonstrate real impact
- Practice realistic interviews with AI-powered live feedback
- Control first impressions through tone, presence, and professionalism
- Ask strategic questions that signal value and fit
- Close interviews, follow up, and negotiate offers successfully

Certification: Course certification from Aptly.

Cost: Please consult your Senior School Academic Lead for further guidance.

SPEAKING OF IDEAS

Learn how to engage in thoughtful public discourse and communication about ideas that shape the human experience

Level
Beginner

Provider
SCAD
The University for Creative Careers

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- From history, religion, and identity to innovation, creative expression, and beyond, students study rhetorical concepts and examples to make informed contributions and enrich their skills in authentic self-presentation.

Undergraduate Credit: Earn five university credits from SCAD - the Savannah College of Art & Design

Cost: £2300 per student.

Pathway overview
This pathway integrates rigorous environmental science with entrepreneurial thinking to address pressing ecological challenges. Students conduct field research, analyse environmental data, and develop business models for sustainable solutions. Through laboratory work, outdoor investigations, and community partnerships, they build scientific literacy while learning to translate environmental knowledge into actionable enterprises. The course emphasises both local ecosystem understanding and global environmental interconnections.

Example university courses/careers:
Ecology and Conservation | Environmental Science | Sustainable Development | Marine Biology | Environmental Policy and Law | Climate Science | Geographical Information Systems (GIS) | NGO Leadership | Environmental Education | Science Communication



COLUMBIA X: FRONTIERS OF SCIENCE: CLIMATE & US

The Earth's temperature is determined by the balance between incoming and outgoing energy, which is influenced by many factors, including sunspots, astronomical cycles, and greenhouse gases. In this course, we compare recent climate conditions with a vast historical record that goes back thousands, even millions, of years. We also investigate the role of feedback loops and why they make climate modelling particularly challenging.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 10 modules
- **Time to complete:** 6 weeks (1-2 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Level
Beginner

Provider
edX · Columbia University

Certification: Course certification from ColumbiaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Learning Outcomes

- Leverage calculations, plots, probability, and models to make sense of datasets & complex natural systems.
- Identify and draw positive and negative feedback loops and explore their importance.
- Describe how scientists learn about what climate was like in the past.
- Explain how scientists predict what climate will be like in the future.
- Investigate what we know and don't know about the state of our warming planet and other consequences of greenhouse gas emissions.
- Describe technological, political, social and economic strategies for climate adaptation and mitigation.

EDINBURGH X: CLIMATE CHANGE: CARBON CAPTURE AND STORAGE

Explore the technology that can provide a long-term solution to protect our atmosphere from an excess of carbon dioxide, in the context of global energy, our use of fossil fuels, and climate change.

Level
Beginner

Provider
edX
THE UNIVERSITY of EDINBURGH

Certification: Course certification from EdinburghX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How to protect the atmosphere with Carbon Capture and Storage technology, often called CCS, from an excess of carbon dioxide.
- The fundamental drivers to make fossil fuels 'safe to use' in the context of the Paris Climate Change agreement (2015).
- Key sectors of the global economy where CCS can contribute to deep reductions in emissions.
- The uniqueness of CCS to complement other low-carbon technologies.
- How CCS can unlock carbon-negative solutions, which will need to be used before mid-century.
- The principles of the technologies currently used to stop carbon dioxide from entering the atmosphere.
- The key elements of geology for the permanent, safe, underground disposal of carbon dioxide.
- The international state of play today.
- The scale of the industry in the 21st century.

EDINBURGH X: CLIMATE SOLUTIONS

We are in a Climate Emergency. The actions we all choose to take over the next decade will decide whether we succeed or fail to meet the biggest challenge to our civilisation in the 21st century. Learn how you can help tackle climate change.

Level
Beginner

Provider
edX
THE UNIVERSITY of EDINBURGH

Certification: Course certification from EdinburghX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (1-2 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- What climate change is, and what causes it
- Why it's important to you, everyone you know, and all life on our planet
- What governments and big business need to do
- How you can tackle climate change in every facet of your life

EDINBURGH X: THE ROLE OF SOCIAL SCIENCES IN NITROGEN RESEARCH

Humans play a key role in sustainable nitrogen management: how we contribute to nitrogen pollution, how we perceive it, and how we act on it. In this course, we present the exciting ways the social sciences can be used in the field of nitrogen research.

Level
Beginner

Provider
edX
THE UNIVERSITY of EDINBURGH

Certification: Course certification from EdinburghX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Discover the importance of the social sciences in nitrogen research and environmental research more broadly.
- Dispel myths held about the social sciences.
- Find out what social science methods can be applied in nitrogen research.
- Learn about the pros and cons of using different social science method approaches.
- Understand the impact of social science research for policy and beyond.

WBG X: URBAN UPGRADING FOR INCLUSION, SUSTAINABILITY AND RESILIENCE IN A TIME OF GLOBAL PANDEMICS

This course is based on the World Bank's Urban Upgrading for Inclusion, Sustainability and Resilience in a time of Global Pandemics. The course focuses on the conceptual and operational aspects of designing, implementing and sustaining a slum upgrading intervention, while underscoring the main policy and programmatic approaches at city level for scaling up upgrading and better planning for future growth.

Level
Beginner

Provider
edX
WORLD BANK GROUP

Undergraduate Credit:
Course certification from WBGx.

Cost:
Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 9 weeks (4-5 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Understand urban slums, their underlying social, economic, and spatial characteristic, how they emerge and consolidate, and their impacts on local communities and the city as a whole.
- Analyse the evolution of policy approaches to addressing urban slums under different contexts, what worked, what did not work, and why.
- Review and apply key operational principles and instruments for designing an upgrading intervention, including planning, finance, infrastructure, land tenure, housing, social inclusion, and sustainability.

HARVARD X: SOCIAL ENTREPRENEURSHIP AND SYSTEMS CHANGE

What is the difference between an entrepreneur and a social entrepreneur? Harvard Business School Senior Lecturer Brian Trelstad gives learners insights into how social entrepreneurs design innovative solutions, build powerful organisations, and collaborate to transform broken systems.

Level
Beginner

Provider
HarvardX
edX

Certification:
Course certification from HarvardX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 5 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Identify the motivators for social entrepreneurship, and how it sets people and organisations apart from traditional entrepreneurs.
- Define the role of design thinking to develop effective solutions to complex problems.
- Evaluate the trade-offs between different business models (margin versus mission) and the tension between direct program delivery and more systems-level change achieved through policy or changes in perceptions of a problem.
- Develop a personalised strategy to apply to an area of your choosing and to help inform your own journey in social entrepreneurship.

EPFL X: TECHNOLOGY INNOVATION FOR SUSTAINABLE DEVELOPMENT

Learn how to use technology innovation as a tool to fight poverty and enable sustainable development.

Level
Beginner

Provider
EPFL edX

Certification: Course certification from EPFLx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Determine how contextual factors influence technology development and deployment.
- Create innovative technologies that sustainably impact poverty.
- Lead a technology innovation process -from initial concept to product scale-up, maximising impact and minimising risk.
- Evaluate alternative business models for technologies intended to impact poverty.

WBG X: ELEARNING COURSE FOR DIGITAL SKILLS FOR ICT ENTREPRENEURS IN FCV COUNTRIES

This course will provide an understanding of the current global ICT entrepreneurship landscape in developing and FCV countries, as well as practical hands-on skills and knowledge on business modelling and investor relations.

Level
Beginner

Provider
edX WORLD BANK GROUP

Certification: Course certification from WBGx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Through lectures and country case studies by experts in academia, international organisations, non-profits, and successful entrepreneurs, participants will be exposed to up-to-date content that enables ICT entrepreneurs to build and implement businesses with a forward-thinking mindset and innovative technology.

EPFL X: BUILDING EXPERTISE ON DEVELOPING SUSTAINABLE AND RESILIENT INFRASTRUCTURE

This course provides knowledge, builds expertise and provides tools on the planning, financing, procurement and contracting of sustainable and resilient infrastructure projects.

Level
Beginner

Provider
EPFL edX

Certification: Validated course certification from EPFLx.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 9 weeks (4-6 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Understand the concept and importance of sustainable infrastructure as a cornerstone for sustainable development.
- Gain particular insight into both local capacity constraints and structural constraints.
- Learn about SuRe®, an international voluntary standard for infrastructure development.
- Get to know further tools and instruments to assess and evaluate infrastructure projects.
- Better understand the dynamics and interactions between the planning, implementing and financing stakeholders.
- Become aware of the importance of the procurement and contracting phase.
- Be able to apply and practice those tools on specific, currently running infrastructure projects.

ISCEA: SUSTAINABLE SUPPLY CHAINS AND CIRCULARITY

Master both Sustainability and Supply Chain terms used throughout the Industry. Learn the foundational topics and innovations required for strategic and sustainable planning - a course that can lead to the future acquisition of the Globally Recognised, ISCEA CSSCP (Certified Sustainable Supply Chain) Professional Designation.

Level
Intermediate

Provider
ISCEA edX

Certification: Validated course certification from ISCEA.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-8 hours per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Review and define foundational sustainability topics and current global sustainability goals
- Review basic supply chain principles, advance into the integration of sustainability and supply chain processes
- Apply and include sustainable supply chain strategies and processes
- Shift mindset from solely profit-oriented to long-term success and resilience
- Understand the fundamental issues that impede progress toward sustainable supply chain flows
- To mitigate challenges and obstacles within supply chains
- Understand and utilise circular supply chain models and lifecycle analysis toward circular economy
- Understand environmental impacts of supply chain: reduce emissions and create value from traditional “waste”

SPEAKING OF IDEAS

Learn how to engage in thoughtful public discourse and communication about ideas that shape the human experience

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design.

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- From history, religion, and identity to innovation, creative expression, and beyond, students study rhetorical concepts and examples to make informed contributions and enrich their skills in authentic self-presentation.

Pathway overview
This pathway develops analytical thinking by studying interconnected economic, political, and social systems across cultures and historical periods. Students examine how societies organise resources, distribute power, and adapt to changing circumstances. Through case study analysis, policy research, and strategic planning projects, students build skills in systems analysis and collaborative leadership that prepare them for roles in international business, government, and social innovation. The program emphasises understanding global interdependencies and developing strategic thinking for effective leadership.

Example university courses/careers:
Economist | Entrepreneur | Management Consultant | Investment Banker | Marketing Executive | Financial Analyst | Supply Chain Manager | Business Owner | Policy Advisor | Startup Founder



FEDERICA X: GLOBAL POLITICS

Learn with Harvard Business School professor Tarun Khannahow and explore how entrepreneurship and innovation tackle complex social problems in emerging economies.

Level
Beginner

Provider
edX
Federica Web Learning
Università di Napoli Federico II

Certification: Course certification from FedericaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (4-6 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Understand the links between nature and politics.
- Learn the significance of universal organisations vs local power structures.
- Explore how a complex equilibrium that aims at a sustainable future for humanity might be achieved.

KINGS COLLEGE LONDON: SANCTIONS AND STATECRAFT

Explore how sanctions operate as tools of coercive diplomacy in global politics – from their historical evolution to the strategies states use to design, deploy, and resist them.

Level
Beginner

Provider
edX · KING'S College LONDON

Certification: Course certification from KingsCollege London

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 3 weeks (1-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Define the concept and types of sanctions in international relations
- Explain the purpose of sanctions and trace their historical development
- Evaluate how sanctions function as tools of coercion within statecraft
- Analyse how major actors design and implement sanctions regimes
- Differentiate between multilateral and unilateral sanctions strategies
- Investigate how sanctions are challenged, resisted, and evaded by target actors
- Engage critically with debates around the effectiveness and ethics of sanctions

KINGS COLLEGE LONDON: INDO-PACIFIC SECURITY

Understand how culture shapes strategy, perception, and diplomacy in the Indo-Pacific.

Level
Beginner

Provider
edX · KING'S College LONDON

Certification: Course certification from KingsCollege London

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 3 weeks (1-2 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Recognise decision-making differences across Indo-Pacific cultures
- Avoid cultural blind spots in foreign policy and security contexts
- Apply culturally informed methods to international engagement
- Assess how culture shapes regional and global security behaviour
- Explore how thinking styles impact diplomacy and interpretation

LOUVAIN X: INTERNATIONAL HUMAN RIGHTS LAW

Learn how an individual's human rights are protected from both public and private power by international laws.

Level
Advanced

Provider
edX
UCLouvain

Certification: Course certification from LouvainX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 3 weeks (1-2 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Analyse and comment on key controversies surrounding the development of international human rights law.
- Rely on the mechanisms for the protection of human rights, at domestic and regional or international levels, to contribute to their effective enforcement.
- Use conceptual tools to follow the developments of human rights law.
- Be an active participant in the global human rights movement, which brings together trade unions, NGOs, national human rights institutions, and activist lawyers from different world regions.

ALASKA X: ARCTIC SECURITY FUNDAMENTALS

This course explores the present-day security situation of the Arctic through a focus on the key stakeholders responsible for diplomacy and defence.

Level
Intermediate

Provider
UAF University of Alaska Fairbanks
edX

Certification: Course certification from AlaskaX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (3-4 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Develop an introductory understanding of how the environment and people interact throughout the Arctic region.
- Define basic regional and international diplomatic organisations, such as the Arctic Council, and explain how priority non-emergency issues are managed.
- Develop an understanding of how to identify and manage regional security through cooperation and competition.
- Define the current regional defence disposition and potential future developments in the Arctic.

UMD: GEOPOLITICS FOR GLOBAL BUSINESS: NAVIGATE STRATEGY AND RISK IN GLOBAL MARKETS

Learn to navigate geopolitical risks, adapt globalisation strategies, integrate supply chains, respect cultural nuances, and maintain global reach amidst superpower competition for a competitive edge across borders.

Level
Beginner

Provider
edX

Certification: Validated course certification from UMD.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-3 hrs per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- To recognise emerging regional economic spheres of influence being created by competing superpowers.
- How those spheres generate boundary conditions — particularly in the cyber realm — that inhibit market penetration by outsiders.
- How your enterprise will need to differentiate market penetration and capture strategies among those various spheres of influence.
- How your enterprise must adjust its operations to accommodate the North's rapid ageing and the South's environmental and economic decimation as a result of climate change.
- How your enterprise must adjust its operations to account for globalisation's ongoing digitalisation.

UMD: NEW MAP FOR GLOBAL MARKETING STRATEGIES

Learn to navigate North-South dynamics and superpower competition for success in a changing world by exploring how climate change, demographics, and the global middle class reshape global economics.

Level
Beginner

Provider
edX

Certification: Validated course certification from UMD.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 4 weeks (2-3 hrs per week)
- **Dates:** Self-paced schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- How climate change will trigger the biggest geographic transfer of resource wealth in human history
- How climate change will drive South-to-North human migrations
- How demographic ageing across the Global North will permanently transform those nations and their markets.
- The driving factors behind globalisation
- The ascendancy of a majority global middle class
- How superpowers will compete in "brand wars"
- How the Western Hemisphere (North/Central/South America & Caribbean) are unusually advantaged relative to the Eastern Hemisphere (Europe, Africa, Asia) for the North-South integration to come.
- How to process all these tectonic changes and world-restructuring dynamics from a grand strategic perspective.

STANFORD ONLINE: COMPARATIVE DEMOCRATIC DEVELOPMENT PART I: CONDITIONS OF DEMOCRACY

Level
Beginner

Provider
edX
Stanford | ONLINE

Conditions of Democracy is the first course in a two-part series intended as a broad survey of the political, social, cultural, economic, institutional, and international factors that foster and obstruct the development and consolidation of democracy.

Certification: Course certification from StanfordOnline.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 7 episodes
- **Time to complete:** 7 weeks (3-6 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- You will learn about the political, social, cultural, economic, institutional, and international factors that foster and obstruct the development and consolidation of democracy.

BAYREUTH X: MODEL UNITED NATIONS

Level
Beginner

Provider
edX
UNIVERSITÄT BAYREUTH

Conditions of Democracy is the first course in a two-part series intended as a broad survey of the political, social, cultural, economic, institutional, and international factors that foster and obstruct the development and consolidation of democracy.

Certification: Course certification from BayreuthX.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 6 weeks (1-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Learn about the history, structure and current policy frameworks of the United Nations
- Be inspired to creatively think about how to solve global problems from a country's perspective
- Accumulate soft skills on public speaking, teamwork, communication, and negotiation
- Acquire all necessary skills for fruitfully participating in MUN conferences, from conference preparation (research, position paper writing) to conference skills (speech & working paper writing, Rules of Procedure)
- Get an insight into the working processes of the United Nations

LSE: INTERCULTURAL COMMUNICATIONS IN THE WORKPLACE

Level
Intermediate

Provider
edX LSE

Throughout this comprehensive course, participants will delve into the intricacies of cross-cultural interactions, examining how cultural differences impact negotiation strategies, communication styles, and relationship-building.

Certification: Course certification from LSE.

Cost: Please consult your Senior School Academic Lead for further guidance.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 10 modules
- **Time to complete:** 5 weeks (2-3 hours per week)
- **Dates:** Self-paced study
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Upon completing this course, learners will possess a comprehensive understanding of cross-cultural negotiation dynamics and effective communication strategies. They will be well-equipped to navigate diverse cultural contexts, build successful business relationships, and achieve positive negotiation outcomes in an increasingly interconnected global landscape. This course empowers individuals to engage confidently and respectfully with counterparts from different cultural backgrounds, contributing to successful cross-cultural collaboration and communication.

SPEAKING OF IDEAS

Learn how to engage in thoughtful public discourse and communication about ideas that shape the human experience.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design.

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- From history, religion, and identity to innovation, creative expression, and beyond, students study rhetorical concepts and examples to make informed contributions and enrich their skills in authentic self-presentation.

INTRODUCTION TO ANTHROPOLOGY

An introductory course to anthropology - the study of humans and their behaviour.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Examine the richness of human experience from earliest recorded history to the present.
- Discover how humans adapt to nature and each other, develop traditions and mythologies, use language to express ideas and identities, and invent and perceive visual culture.

LANGUAGE, CULTURE & SOCIETY

This course provides an introduction to relationships between human language, culture and society.

Level
Beginner

Provider
SCAD

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Examine and explore the unique properties of human language
- Explore the prominent role of language in cultural models and social organisations

BUSINESS I: FUNDAMENTALS

Gain knowledge of business fundamentals - essential for careers in creative industries.

Level
Beginner

Provider
SCAD

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Discover business fundamentals: research, accounting, finance, organisational structure, human resources, intellectual property, and marketing.
- Learn the terminology and basic tenets of business and finance through case studies and real-world applications.

MANAGEMENT IN THE CREATIVE ENVIRONMENT

An introductory course on the four principles of management necessary to any creative workplace: planning, organising, leading and controlling.

Quick-Facts

- **Age:** Suitable for students ages 16-18
- **Composition:** 1 course
- **Time to complete:** 10 weeks
- **Dates:** Self-paced and lecturer-led schedule
- **Delivery mode:** Online
- **Language of tuition:** Taught in English (other languages available)

Learning Outcomes

- Develop critical thinking skills as a prelude to managerial skills with particular emphasis on decision-making, interpersonal communication, ethical choices and social responsibility.
- Examine important legal issues involved in the management of a business in art, design and other creative professions.

Level
Beginner

Provider
SCAD
The University for Creative Careers

Undergraduate Credit:
Earn five university credits from SCAD - the Savannah College of Art & Design

Cost:
£2300 per student.

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