

Architecture

Young Professionals *d'Overbroeck's, Oxford*



Explore the art and science of designing and engineering structures and buildings. Combine the practical and theoretical elements that include making, drawing, building as well as conceptual and theoretical work. Students will learn creative ways of thinking and designing buildings, the history, theory and culture of architecture and the underlying principles of environmental and structural design.



Best course for...

Creative, curious and artistic students, who are enthusiastic about both the arts and sciences, looking for careers in fields such as architecture, sustainability and construction industries.

Sample topics covered:

Subject Theory:

- History and theories of architecture
- Urbanism and design
- Construction
- Structural design
- Technological and environmental design

Practical Sessions:

- 2D and 3D CAD design
- Model city making

Group Work:

- Reimagining the house
- Urban spaces

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: History of architecture	Study-In-Action:	Subject theory: Urbanism	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Applying architectural theory	Practical session: 2D CAD Design
		Subject theory: Architectural theory		Subject theory: Urban design		Subject theory: Project management	
PM 14.30 - 17.30	Arrivals	Oxford: Explore the city		Practical session: Model city	Full-Day Excursion: London Eye	Group Project Work: Urban spaces	Careers morning
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Oxford City	Activity: Movie Night	Project Presentations	Graduation & Party



Business & Enterprise

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Students will learn to evaluate business behaviour from the perspective of a range of stakeholders including owner, shareholder, manager, employee, customer, supplier, lender and government.

Best course for...

Students who want to get a head start in the business world and develop their understanding of how success is built within the world of work.



Sample topics covered:

Subject Theory:

- Business structures
- Management styles & techniques
- Project management
- Operations & supply chains
- Finance & accounting
- Start-up & growth capital

Practical Sessions:

- Case studies of companies
- Corporate social responsibility

Group Work:

- Business plan for new product

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: Business 101	Study-In-Action: Cadury World: A Global Business	Subject theory: Business Finance	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Marketing strategy	Practical session: Buying, Selling & Trading
		Subject theory: Business structures		Subject theory: Operations & supply chains		Subject theory: Project management	
PM 14.30 - 17.30	Arrivals	Oxford: Explore the city		Practical session: Corporate social responsibility	Full-Day Excursion: London Eye	Group Project Work: Business plan for new product	Skills Electives: Career Focus workshop
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Oxford City	Activity: Movie Night	Project Presentations	Graduation & Party

Digital Marketing & Communications

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Digital Marketing & Communications will introduce students to the world of online promotion and communication, which is becoming more important for the growth of businesses in an increasingly technological world.

Through classroom study and practical sessions, students are made aware of the variety of platforms and tools that are becoming ever more popular in digital marketing. Guided through a range of relevant theories, processes and strategy examples, this course will help students to understand the power of digital and its importance to businesses.

Best course for...

Students wishing to explore a future in a creative industry and gain a firm understanding of how platforms we use everyday are all being used as a form of digital marketing.



Sample topics covered:

Subject Theory:

- 21st Century digital marketing
- Brand Awareness
- Online methods for building brand awareness
- The power of social media
- Marketing strategy

Practical Sessions:

- Build a brand- social media
- Creating a marketing strategy

Group Work:

- Designing and launching a marketing campaign

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: 21st century digital marketing	Study-In-Action: Harry Potter World: Business Marketing Videos	Subject theory: Brand awareness	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Marketing Content	Practical session: Create a marketing strategy
		Subject theory: Google for marketing		Subject theory: Building a brand			
PM 14.30 - 17.30	Arrivals	Activity: Sports		Practical session: Your brand on instagram & LinkedIn	Full-Day Excursion: London Eye	Group Project Work: Designing & launching a marketing campaign	Careers Morning
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Tonbridge	Activity: Movie Night	Project Presentations	Graduation & Party

Engineering

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Students will gain a better understanding of the engineering industry and be able to apply their knowledge through project-based practical study of engineering, design and production.

Best course for...

Students interested in pursuing a career in engineering including different types of engineering such as mechanical, electronic and civil. Students interested in building design and construction.



Sample topics covered:

Subject Theory:

- Project planning
- Properties of different materials
- Manufacturing
- Engineering drawings
- Static structural systems
- Electro-mechanical systems
- Effect of forces
- Application of technology

Practical Sessions:

- Hydraulic bridges
- Thermal heat coefficients

Group Work:

- Design and build own battery-powered vehicle

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: Disciplines within engineering	Study-In-Action: National Space Centre	Subject theory: Mathematics & Engineering	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Static structural systems	Practical session: Software testing
		Subject theory: Properties of different material		Subject theory: Effect of forces		Subject theory: Electro-mechanical systems	
PM 14.30 - 17.30	Arrivals	Oxford: Explore the city		Practical session: Hydraulic bridges	Full-Day Excursion: London Eye	Group Project Work: Design and build own battery powered vehicle	Skills Electives: Career Focus workshop
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Oxford City	Activity: Movie Night	Project Presentations	Graduation & Party

Medicine

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Through classroom tuition and laboratory work, relevant to human biology and medicine, the syllabus is designed to grow student confidence and knowledge in medical studies.

Best course for...

Students interested in pursuing a career in medicine or a related field such as pharmaceuticals, or have a general interest in medicine and medical biology.



Sample topics covered:

Subject Theory:

- Cell structures
- Prokaryotic and eukaryotic cells
- Viruses
- Infectious diseases
- Enzyme functions
- DNA replication
- Anatomical dissections
- Medical technology

Practical Sessions:

- Laboratory experiments
- Dissection

Group Work:

- Research on global epidemics

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: Medical biology	Study-In-Action: We Are Curious	Subject theory: Chemical reactions within the body	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Enzyme functions	Practical session: Laboratory experiment on DNA
		Subject theory: DNA replication		Subject theory: Anatomical dissections		Subject theory: Infectious diseases	
PM 14.30 - 17.30	Arrivals	Oxford: Explore the city		Practical session: Heart dissection	Full-Day Excursion: London Eye	Group Project Work: Preparation on global epidemic	Skills Electives: Career Focus workshop
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Oxford City	Activity: Movie Night	Project Presentations	Graduation & Party



Software Development

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The course, suitable for intermediate computer programmers, teaches students how to solve problems efficiently, think algorithmically, and learn how to develop a programming project.

Best course for...

Students interested in pursuing a career in the technology industry, those with a passion for coding as well as those looking to improve their computer skills.



Sample topics covered:

Subject Theory:

- Resource management
- Comparing programming languages
- Data structures
- Algorithms
- Encapsulation
- Abstraction

Practical Sessions:

- Writing code

Group Work:

- Create a new video game

Sample timetable:

	TUE	WED	THU	FRI	SAT	SUN	MON
AM 09.00 - 13.00	Arrivals	Subject theory: An introduction to Computer Science	Study-In-Action: Apple UK	Subject theory: Coding languages	Full-Day Excursion: London - Central London Walking Tour	Subject theory: Machine Learning	Practical session: Software testing
		Subject theory: Mathematical foundations		Subject theory: Types of logic		Subject theory: Game Testing	
PM 14.30 - 17.30	Arrivals	Oxford: Explore the city		Practical session: Patch (computing)	Full-Day Excursion: London Eye	Group Project Work: New technologies research	Skills Electives: Career Focus workshop
EVE 19.30 - 21.30	Welcome Games & BBQ	Project introduction	Activity: Quiz Night	Evening discovering Oxford City	Activity: Movie Night	Project Presentations	Graduation & Party

