



# Beths Grammar School

an 11 – 18 selective school with academy status

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## Beths Grammar School Guide to MOOCs

(Massive Open Online Courses)



**[A sample of exciting courses from Futurelearn.com](http://Futurelearn.com)**

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Course	University	Cost	Hours
<b>Biology</b>			
Why Biology Matters: Basic Concepts	Pompeu Fabra		9
Anatomy: Know Your Abdomen	Leeds		4
What Drives the Body?	Aberdeen		12
The Biology of Bugs, Brains and Beasts	York		12
Musculoskeletal System: Staying Active into Old Age	Sheffield		9
Metabolomics: Understanding the Metabolism	Birmingham		12
Soils: Introducing the World Beneath Our Feet	Lancaster		12
Biological Psychology	Monash		12
Introduction to Microbiology	Reading		9
How does the Body use DNA as a Blueprint?	Aberdeen		12
<b>Business (Accounting, Finance, Marketing)</b>			
The Future of Payment Technology	Michigan		16
Starting a Business: Vision and Opportunity	Leeds		4
Uncovering Your Entrepreneurial Potential	Coventry		6
Business Model Thinking	Coventry		6
Financial Planning and Budgeting	Open		12
Create a Social Media Marketing Campaign	Leeds		4
Consumer Behavior and Psychology	Leeds		6
Innovation and Enterprise	Bristol		12
Bookkeeping for Person/Business Accounting	Open		12
Introduction to Financial Accounting	Padova		20
Create a Professional Online Presence	Leeds		4
The Secret Power of Brands	UEA		18
<b>Chemistry</b>			
Exploring Everyday Chemistry	York		20
Medicinal Chemistry	Leeds		10
Chemistry Products	Leeds		10
Atmospheric Chemistry: Planets	Leeds		10
Biochemistry: The Molecules of Life	UEA		9
<b>Creative Arts</b>			
Introduction to Creative AI	UAL		4
Video Game Design and Development	Abertay		6
<b>Drama and Theatre</b>			
Physical Theatre: Exploring the Slap	Leeds		4

<b>Economics</b>			
Global Prosperity Beyond GDP	UCL		8
Challenging Wealth and Income Inequality	Open		12
<b>Engineering</b>			
ABC of Flight Mechanics: How do Planes Fly?	ISAE-SUPAERO		16
Dynamics and Aerospace Structures	ISAE-SUPAERO		16
New Energy Technologies	Grenoble Ecole		12
Building a Future with Robots	Sheffield		9
MedTech: AI and Medical Robots	Leeds		10
Begin Robotics	Reading		12
Engineering the Future: Creating the Amazing	York		12
Sustainable Construction and Development	Southbank		10
Building Information Modelling	Coventry		6
Writing for Engineers	Sheffield		18
<b>Geography</b>			
Causes of Climate Change	Bergen		12
Tipping Points: Climate Change and Society	Exeter		6
Climate Change Solutions	Exeter		12
New Energy Technologies: Sustainable Development	Grenoble Ecole		12
Achieving Sustainable Development	TCD		16
Environmental Justice	UEA		20
Exploring our Ocean	Southampton		12
Ecology and Wildlife Conservation	Leeds		4
Learn about Weather	Exeter		12
Human Impact in the Natural Environment	Leeds		10
Understanding Biological Energy	Royal Holloway		12
Humanitarian Action: Response and Relief	Coventry		9
Extreme Geological Events	Cardiff		12
Moons	Open		24
Extinctions: Past and Present	Cape Town		15
<b>Healthcare and Medicine</b>			
Discover Dentistry	Sheffield		18
Exploring Cancer & Genetic Disease	Leeds		8
MedTech: Exploring the Human Genome	Leeds		10
The Science of Medicines	Monash		18
Discovering Science: Medicinal Chemistry	Leeds		10
Basic First Aid: How to be an Everyday Hero	Glasgow		2
Women's Health after Motherhood	TCD		4

Making Babies: Reproductive Technologies	UCL		12
Artificial Intelligence for Healthcare	Taipei		4
Good Brain, Bad Brain: Basics	Birmingham		9
Nutrition and Well-being	Aberdeen		12
Medical Ethics: The Impact of Disability Screening	Manchester		8
Superfoods: Myths and Truths	EIT		12
Medicinal Chemistry	Leeds		10

<b>History</b>			
The Tudors	Roehampton		30
Antisemitism: From its Origins to Present	Yad Vashem		18
WWI Heroism: Through Art and Film	Leeds		4
Propaganda and Ideology in Everyday Life	Nottingham		20
Women's Rights & Suffrage from 1866 to Today	Royal Holloway		20
Hadrian's Wall: Life on the Roman Frontier	Newcastle		24
European Empires: An Introduction	Newcastle (Aus)		9
Genealogy: Researching Your Family Tree	Strathclyde		24
Empire: The Controversies of British Imperialism	Exeter		18
Forensic Archaeology and Anthropology	Durham		18
Archaeology: From Dig to Lab and Beyond	Reading		6
The RAF in the Cold War	Royal Holloway		30
Radicalism and Reform in the 19 <sup>th</sup> Century	Royal Holloway		20
<b>IT and Computer Science</b>			
Introduction to Cyber Security	Open		24
An Introduction to Cryptography	Coventry		12
Basics of Network Security	Coventry		12
Programming: Get Started with Python	Michigan		24
Begin Programming: Build Your First Mobile Game	Reading		20
Using AI Technologies for Business Planning	Coventry		6
Creating Apps in the Classroom	Queensland		2
Data Science in the Games Industry	Dundee		8
Understanding Quantum Computers	Keio		20
Prepare to Run a Code Club	Raspberry Pi		6
<b>Language</b>			
Communicating with Diverse Audiences	Surrey		12
Understanding English Dictionaries	Coventry		36
Beginner's Guide to Writing in English for University	Reading		15
Sociolinguistics: Accents, Attitudes and Identity	York		16
Working with Translation: Theory and Practice	Cardiff		16
Spanish for Beginners	Open		16
Italian for Beginners	Open		16
Norwegian for Beginners	NTNU		20
Fall in Love with Mandarin	Chiao Tung		4

Introduction to Chinese: Conversation	Shanghai		12
German at Work (Intermediate)	Open		20

<b>Law</b>			
The Universal Declaration of Human Rights	Amnesty		6
Human Rights and International Criminal Law	Padova		24
Fraud Investigation: Making a Difference	Coventry		4
Understanding Gender Inequality	Exeter		12
The Modern Judiciary	King's College		15
Introduction to Forensic Science	Strathclyde		18
Environmental Challenges: Property Rights	Leeds		10
Incarceration: Are Prisons a Suitable Punishment?	Leeds		8
Forensic Facial Reconstruction	Sheffield		4
The Sharia & Islamic Law: An Introduction	Edinburgh		20
Forensic Psychology: Witness Investigation	Open		24
<b>Literature</b>			
An Introduction to Screenwriting	UEA		6
Start Writing Fiction	Open		24
Introduction to Children's Visual Culture	York		12
Literature of the English Country House	Sheffield		18
Jane Austen: Myth, Reality and Global Celebrity	Southampton		9
A Level: Unseen Poetry & the Creative Process	Reading		6
How to Make a Poem	Manchester		9
Exploring English: Shakespeare	British Council		12
Robert Burns: Poems, Songs and Legacy	Glasgow		12
Fairy Tales: Meanings, Morals and Messages	Newcastle (Aus)		9
The Power of Podcasting for Storytelling	Wollongong		6
Science Writing	Leeds		10
Gender Representation in the Media	BGI		8
Start Writing Fiction	Strathclyde		28
<b>Maths</b>			
Understanding Numbers	STEM Centre		12
Recreational Math: Fun, Games and Puzzles	Weizmann		6
Fractions, Decimals and Percentages	STEM Centre		18
Proportion, Ratio and Scaling	STEM Centre		12
Precalculus: Numbers, Functions and Equations	Padova		30
<b>Music</b>			
Notation to Performance: Musical Scores	Open		12
How to Write Your First Song	Sheffield		18
Making Music with Others	Trinity Laban		12
Why does Music Make Your Move?	Oslo		18

<b>Philosophy</b>			
What is a Mind?	Cape Town		18
Global Ethics: An Introduction	Open		12
<b>Photography</b>			
Digital Photography: Creating a Professional Profile	Open/RPS	£450	10wks
<b>Physics</b>			
The Science of Nuclear Energy	Open		12
Energy Systems Integration	EIT		8
The Discovery of the Higgs Boson	Edinburgh		30
Battery Storage Technology	EIT		9
The Business Potential of Solar Photovoltaics	EIT		21
<b>Politics</b>			
Warfare in the 21 <sup>st</sup> century	Bath		12
Human Rights and International Criminal Law	Padova		24
Cultures and Organisations in International Relations	Grenoble Ecole		12
Women's Rights & Suffrage from 1866 to Today	Royal Holloway		20
<b>Psychology</b>			
Biological Psychology	Monash		12
Cognitive Psychology: An Experimental Science	York		12
Consumer Behaviour and Psychology	Coventry		6
Developmental Psychology	Monash		12
Psychology of Learning	Monash		12
Sensation and Perception	Monash		12
What is a Mind?	Cape Town		18
<b>Religion</b>			
Religion and Conflict	Groningen		24
Early History of the Quakers	Lancaster		9
History and Science of Psychology	Monash		12
Religious Literacy, Culture and Diversity	Open		12
The Sharia & Islamic Law: An Introduction	Edinburgh		20
Religion, Radicalisation, Resilience	EUI		9
Antisemitism: From its Origins to the Present	Yad Vashem		18
<b>Sociology</b>			
Sociology: An Introduction	Newcastle (Aus)		9
<b>Veterinary Science</b>			
Animal Viruses: Transmission and Disease	Complutense		30