

# DISTANCE **LEARNING**

SUBJECT KNOWLEDGE ENHANCEMENT

**UWE  
Bristol** | University  
of the  
West of  
England

## COURSES BROCHURE FOR ACADEMIC YEAR 2018 / 2019



<http://uwe.vidlearn6.co.uk>



**0800 7317131**  
Mon-Fri 9am to 5pm



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Multi-platform support



## GENERAL COURSE DETAILS

The University of the West of England deliver Distance Learning Subject Knowledge Enhancement (SKE) courses in Physics, Chemistry, Biology and Computer Science for those who are thinking of training to teach these subjects. Candidates following a School Direct, SCITT, PGCE or Teach First training path can all be eligible.

The courses are distance learning with an optional, but highly recommended, attended practical summer school in 2019 at the partner's campus if your specialist subject is Physics, Chemistry or Biology. Depending on the course you select you will be invited to join some or all of the attended practicals. If it is not possible for you to attend, other arrangements can usually be made. **The courses are free to eligible candidates and attract a bursary.**

Our distance learning courses are delivered via the VIDLEARN® online platform. The VIDLEARN® national partnership has been established for the last eight years and has been used to successfully train thousands of Pre-ITT Trainees.

We currently run 8, 16 or 28 week courses in Physics, Chemistry, Biology and Computer Science. All courses are based on the latest DfE specifications. As you read on you will have access to course information and links to apply online.

The courses are comprised of Core Modules and Optional Modules. You will be required to complete the activities in all of the Core Modules. You can then develop your learning path using the Optional Modules, depending on your assessment scores, your subject knowledge audit scores and tutor feedback from assignments. You will have access to these resources until at least September 2021.

You also have access to a specialist tutor with whom you can arrange tutorials via email, Skype, telephone or face to face if it is geographically viable.

To be eligible for these courses you need to have accepted a conditional offer of a place on a postgraduate ITT programme starting September 2019.



## 28 WEEK (700 HOURS OF STUDY) DISTANCE LEARNING SKE IN PHYSICS, CHEMISTRY, BIOLOGY AND COMPUTER SCIENCE

For candidates who would benefit from a longer subject knowledge enhancement through GCSE and A Level. Candidates studying Physics, Chemistry or Biology get access to all three subjects but are only assessed in their specialist subject with the non-specialist subjects optional. This course includes an optional two-week attended practical summer school if your specialism is Physics, Chemistry or Biology.

### ELIGIBILITY CRITERIA

- You must have an offer of a place on a Teacher Training Programme with this SKE Course a condition of that offer.
- You must not have attended any DfE or NCTL Funded SKE Courses previously.
- Your Teacher Training subject must match your SKE subject.

### MODULES

PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE
GCSE Physics Physics A Level Primer A Level: Basic Physics Quantities The Physics of Motion The Physics of Matter The Physics of Electricity The Physics of Waves Kinetic Theory Physics The Physics of Quanta The Physics of Fields Practical Physics	GCSE Chemistry Chemistry A Level Primer A Level: Quantitative Chemistry Atomic Structure Bonding & Structure Chemical Energetics Kinetics of Reactions Equilibria Redox Processes Organic Chemistry Practical Chemistry	GCSE Biology A Level: Biodiversity Exchange and Transport Cells Biological Molecules Ecosystems Control Systems Genetics and Evolution Energy for Biological Processes Practical Biology	GCSE Computer Science Programming Data Structures Algorithms, Theory of Computation Data Representation Computer Systems Computer Organisation and Architecture Consequences of Uses of Computing Communication & Networking Databases Functional Programming Systematic Approaches to Problem Solving

### LINKS TO APPLY ONLINE

CHEMISTRY:	<a href="http://uwe.vidlearn6.co.uk/apply/901">http://uwe.vidlearn6.co.uk/apply/901</a>
PHYSICS:	<a href="http://uwe.vidlearn6.co.uk/apply/902">http://uwe.vidlearn6.co.uk/apply/902</a>
BIOLOGY:	<a href="http://uwe.vidlearn6.co.uk/apply/903">http://uwe.vidlearn6.co.uk/apply/903</a>
COMPUTER SCIENCE:	<a href="http://uwe.vidlearn6.co.uk/apply/904">http://uwe.vidlearn6.co.uk/apply/904</a>



## 16 WEEK (400 HOURS OF STUDY) ACCELERATED A LEVEL SKE IN PHYSICS, CHEMISTRY, BIOLOGY AND COMPUTER SCIENCE

For candidates who want to teach at A Level and already have strong qualifications in their specialist subject. Candidates studying Physics, Chemistry or Biology get access to all three subjects but are only assessed in their specialist subject. The non-specialist subjects and **those shaded yellow** are all optional. This course includes an optional two-week attended practical summer school if your specialism is Physics, Chemistry or Biology.

### ELIGIBILITY CRITERIA

- You must have an offer of a place on a Teacher Training Programme with this SKE Course a condition of that offer.
- You must not have attended any DfE or NCTL Funded SKE Courses previously.
- Your Teacher Training subject must match your SKE subject.

### MODULES

PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE
GCSE Physics Physics A Level Primer	GCSE Chemistry Chemistry A Level Primer	GCSE Biology	GCSE Computer Science
A Level: Basic Physics Quantities The Physics of Motion The Physics of Matter The Physics of Electricity The Physics of Waves Kinetic Theory Physics The Physics of Quanta The Physics of Fields Practical Physics	A Level: Quantitative Chemistry Atomic Structure Bonding & Structure Chemical Energetics Kinetics of Reactions Equilibria Redox Processes Organic Chemistry Practical Chemistry	A Level: Biodiversity Exchange and Transport Cells Biological Molecules Ecosystems Control Systems Genetics and Evolution Energy for Biological Processes Practical Biology	Programming Data Structures Algorithms, Theory of Computation Data Representation Computer Systems Computer Organisation and Architecture Consequences of Uses of Computing Communication & Networking Databases Functional Programming Systematic Approaches to Problem Solving

### LINKS TO APPLY ONLINE

CHEMISTRY:	<a href="http://uwe.vidlearn6.co.uk/apply/905">http://uwe.vidlearn6.co.uk/apply/905</a>
PHYSICS:	<a href="http://uwe.vidlearn6.co.uk/apply/906">http://uwe.vidlearn6.co.uk/apply/906</a>
BIOLOGY:	<a href="http://uwe.vidlearn6.co.uk/apply/907">http://uwe.vidlearn6.co.uk/apply/907</a>
COMPUTER SCIENCE:	<a href="http://uwe.vidlearn6.co.uk/apply/908">http://uwe.vidlearn6.co.uk/apply/908</a>



## 8 WEEK (200 HOURS OF STUDY) GCSE BOOSTER SKE IN PHYSICS, CHEMISTRY, BIOLOGY AND COMPUTER SCIENCE

For candidates who would like to boost or refresh their knowledge of their specialist subject to GCSE level. Candidates studying Physics, Chemistry or Biology get access to all three subjects but are only assessed in their specialist subject with the non-specialist subjects optional. This course includes an optional two-week attended practical summer school if your specialism is Physics, Chemistry or Biology.

### ELIGIBILITY CRITERIA

- You must have an offer of a place on a Teacher Training Programme with this SKE Course a condition of that offer.
- You must not have attended any DfE or NCTL Funded SKE Courses previously.
- Your Teacher Training subject must match your SKE subject.

### MODULES

PHYSICS	CHEMISTRY	BIOLOGY	COMPUTER SCIENCE
The Particle Model of Matter Energy and Energy Transfer Forces Forces and Motion Energy and Electricity Waves Magnetism and Electromagnetism Nuclear Physics Space Physics Maths for GCSE Physics GCSE Practical Physics	Atomic Structure and the Periodic Table Structure and Bonding in Matter Chemical Changes Energy Changes in Chemistry The Rate and Extent of Chemical Change Organic Chemistry Chemical Analysis Chemical and Allied Industries Earth and Atmospheric Science GCSE Practical Chemistry	Cell Biology Transport Systems Health and Disease Coordination and Control Photosynthesis Ecosystems The Genome and Gene Expression Inheritance Variation and Evolution GCSE Practical Biology	Programming Basics Programming Basics 2 Data Structures, Subroutines Further Programming Algorithms Computer Systems Computer Systems 2 Data representation Computer networks and cybersecurity Impacts of digital technology

### LINKS TO APPLY ONLINE

CHEMISTRY:	<a href="http://uwe.vidlearn6.co.uk/apply/909">http://uwe.vidlearn6.co.uk/apply/909</a>
PHYSICS:	<a href="http://uwe.vidlearn6.co.uk/apply/910">http://uwe.vidlearn6.co.uk/apply/910</a>
BIOLOGY:	<a href="http://uwe.vidlearn6.co.uk/apply/911">http://uwe.vidlearn6.co.uk/apply/911</a>
COMPUTER SCIENCE:	<a href="http://uwe.vidlearn6.co.uk/apply/912">http://uwe.vidlearn6.co.uk/apply/912</a>



## VCOS RESOURCES

Our courses are unique in providing a bespoke interactive platform that allows trainees to start to link the subject with pedagogy through our VCOS resources which are captured live in the classroom and edited to give you examples of best practice.

VCOS resources are included with our Maths and Science courses, with other subjects coming soon.

Each lesson that we publish is captured using 4 high definition cameras installed unobtrusively in a classroom. All recordings are then professionally edited and linked to the appropriate SKE recording, so that you can watch lessons on the topic that you are studying.

With access to these recordings, you get to see and hear all the relevant action from lessons which enhance your teaching and learning.

Our teaching examples are chaptered for both pedagogy and subject knowledge. The pedagogical chapters are a set of descriptors that align directly to the Teachers' Standards so provide an excellent experience before training begins.

This unique innovation has been made possible with the **VIDLEARN®** Classroom Observation System (VCOS) that is installed at Sackville School in East Grinstead.

Sackville are a very forward thinking school with an excellent track record in Science and Maths.

VCOS Teachers who are filmed in the classroom have access to the footage very quickly and the opportunity to add to the preamble that trainees see following the editing, publishing and chaptering process. This gives trainees a unique link with classroom practitioners to draw on during training and beyond.

The teachers at Sackville often reflect on their lessons using VCOS and these reflective journals are made available to trainees together with the recordings.

We publish new lessons from VCOS every week and keep the content up to date and relevant to the Teachers' Standards and DfE specifications. This allows trainees access to a huge back catalogue of resources, which they have access to throughout their teacher training and NQT year.





## COMMUNICATION, SUPPORT AND ATTENDING PRACTICALS

You will be encouraged to communicate with your fellow professionals during the course and our suite of communication tools offer the perfect environment to do so.

Communicate includes a very easy to use forum. The forum has been a part of **VIDLEARN®** since its inception and has proven very successful. It allows you to share problems, solutions and materials of interest with peers. The forum can be used to communicate with tutors and trainees studying the same subject as you or the whole institution's SKE cohorts.

You can share external links and documents of interest on the forum by attaching documents to your posts.

Announce is a fantastic way for the tutor team to very quickly communicate with the cohort. It is available to tutors and course leaders and supports messages up to 256 characters that are immediately emailed to selected trainees. More detailed information can be added and documents uploaded that recipients can view once logged into **VIDLEARN®**.

Details of how to contact your Tutor are available under Tutorials. You are entitled to an optional hour of tutor time per core module on your course.

**VIDLEARN®** has a great support record for a very good reason - we strive to resolve all issues within 1 hour. This is achieved via email listening; we do not use automated responses and your query is attended to by a **VIDLEARN®** professional immediately. We provide this support 24/7 to suit all busy schedules so you will never be without help.

Attending the practical module for Science courses is often the highlight of the course. It is highly recommended if your circumstances allow. In certain circumstances we can help you arrange to complete the practical module nearer home if it is not possible to attend.

Each trainee that completes the course will receive an End of Course Statement. If applicable, this statement is also signed and sent to your ITT provider so that they have evidence of your completion and level of competence.

## CONTACT INFORMATION



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For more information about or to get started on an SKE course call free on  
**0800 7317131** Monday to Friday 9am to 5pm  
Or visit us at <http://ske.online>