ACCESS TO HIGHER EDUCATION - RADIOGRAPHY (ONLINE)

Thank you for choosing to study with East Sussex College Hastings

Not only do we have over 25 years' experience of delivering education and training to over 5,000 new students each year, we have built a reputation of providing quality ELearning too! This means you can still benefit from our excellent education, even if you can't fit your lifestyle or schedule around our college timetable. All our ELearning courses are accredited by established institutes and have national recognition.

Aims of the course

The Access to Higher Education (HE) Diploma is a qualification, equivalent to A-Level, which allows learners to go on and study at University when they did not have the relevant qualifications needed to do so. Access to HE courses are available in a wide range of different subjects and are widely recognised by UK Universities.

Benefits for individuals

After successfully completing this Access to Higher Education Diploma, you'll have a good understanding of science, medicine and the skills needed to study a radiography related undergraduate course. Once you have chosen and completed your degree programme, you will be ready to begin your chosen career. Many graduates go on to work in the NHS or private practice. Careers open to graduates include: Careers open to graduates include:

- Radiography
- Sonography
- Biomedical science
- Dentistry

Key details about this Diploma

Course Fee: £3,384

Course length: 10 months

Recommended study per week: 15 hours*

Total units: 19

You should allow a total of around of around 15 study hours per week to complete the whole qualification, over 10 months. If you study more hours each week, you may finish the course more quickly.

Support provided

A qualified Assessor will mark your work and provide written feedback via the Virtual Learning Environment (VLE). Your appointed Assessor will confirm contact hours once you start your learning and will be able to offer support via email correspondence. During Induction you will be provided with an Individual Learning Plan (ILP) including the expected assessment schedule for your course.

Pass criteria

Each unit includes specific Learning Outcomes and Assessment Criteria.

To achieve a Pass in any assessment you must meet all criteria.

The list of detailed Assessment Criteria for each Unit is made available to you on the VLE.

Course content

The course consists of 19 Units of Study. The course covers:

- **Unit 1 (Induction Unit): Preparing for Success**

- **Unit 2: Preparing to Study**

On completion of this unit you will:

- Understand how study is organised and planned.
- Understand how to apply theories of learning in relation to personal approaches to learning.
- Understand a range of constraints upon study.
- Understand the importance of assessment feedback.

- **Unit 3: Academic Writing Skills**

On completion of this unit you will:

- Be able to write with relevance in responding to an academic task.
- Know how to interpret and discuss concepts and debates in responding to a set, academic writing task.
- Be able to summarise for academic purposes, selecting key points, information or central ideas.

- **Unit 4: Preparing a Written Assignment**

On completion of this unit you will:

- Understand how to use key information sources.
- Understand why sources are acknowledged and referenced.
- Understand a range of reading strategies.
- Understand note-making methods.
- Understand how to plan draft and produce a written assignment.

- **Unit 5: Cell Biology**

On completion of this unit you will:

- Understand the structure and organisation of cells, including stem cells.
- Understand cellular metabolism.
- Understand how cells grow and divide.

- **Unit 6: Electromagnetic Spectrum**

On completion of this unit you will:

- Understand the principles and types of electromagnetic waves.
- Understand the properties of visible and ultraviolet light.
- Understand the properties of microwaves and infrared.
- Understand the biohazards of ultraviolet and infrared radiation.
- Understand the hazards and uses of X- Rays in medical applications.

- **Unit 7: Atomic Structure**

On completion of this unit you will:

- Understand protons, neutrons and electrons in terms of their relative charges and masses.
- Understand the distribution of protons, neutrons and electrons in an atom given its Atomic number and Mass number, including some isotopes.
- Understand the number and relative energies of the s, p and d orbitals for the principal quantum numbers and know the shapes of s, p and d orbitals.
- Understand how ionisation energies of elements relate to reactivity.
- Understand the position of elements within the Periodic Table from ionisation energy data.

- Unit 8: The Human Muscular and Skeletal System

On completion of this unit you will:

- Understand anatomical terminology.
- Understand the skeletal system and locomotion.
- Understand the muscular system.

- Unit 9: Medical Physics

On completion of this unit you will:

- Understand the atomic structure.
- Understand the nature of alpha, beta and gamma radiation, and X-rays.
- Understand the main uses of ionising radiation in monitoring and treatment.
- Understand how radio isotopes are used in healthcare.
- Understand the health applications of a selected part of electromagnetic spectrum.
- Understand how ultrasound is used in healthcare.

- Unit 10: The Roles and Responsibilities of Health Care Professionals

On completion of this unit you will:

- Understand the changes to the roles and responsibilities of a chosen healthcare professional.
- Understand the role of professional/regulatory bodies for a healthcare professional, for example, HCPC and Nursing and Midwifery Council.
- Understand the current multidisciplinary approach to healthcare.

- Unit 11: Human Disease and Prevention

On completion of this unit you will:

- Understand the categories and causes of disease using infectious disease to illustrate your answer.
- Understand the epidemiology of commonly occurring diseases/conditions.
- Understand preventative measures for a chosen disease or condition.

- Unit 12: Periodic Table

On completion of this unit you will:

- Understand the periodic table.
- Understand periodicity in the elements of period 3.
- Understand ionisation energy.
- Understand oxidation and reduction.
- Understand the reactions of the Group 2 metals.
- Understand the group 7 elements.

- Unit 13: Radioactivity

On completion of this unit you will:

- Understand the main types of ionising radiations and their measurement.
- Understand radioactive decay.
- Understand the practical applications of ionising radiation and radioisotopes and their use with acceptable safety.

- Unit 14: Atomic Structure & Bonding

On completion of this unit you will:

- Understand the structure of the atom.
- Understand electronic structures.
- Understand the formation of ionic bonds.
- Understand the formation of covalent bonds.

- **Unit 15: Statistical Research**

On completion of this unit you will:

- Understand how to plan for an investigation within an appropriate subject area.
- Understand how to carry out an investigation by collecting and processing an appropriate range of data.
- Understand how to interpret and analyse results.
- Understand how to evaluate the investigation.

- **Unit 16: Physics**

On completion of this unit you will:

- Understand the connection between force and motion and be able to use Newtons Laws of Motion.
- Understand the conservation of energy and momentum.
- Understand the concepts and vocabulary of wave motion.
- Understand the straight-line model of the behaviour of light.
- Understand the behaviour and properties of magnets and magnetic fields, electric charge and electric current.

- **Unit 17: Study Skills Portfolio Building**

On completion of this unit you will:

- This unit requires you to build a portfolio of evidence which covers a range of different study skills. The different elements of the portfolio will be a combination of work that you have already completed as part of your programme, as well as reflective and evaluative commentary..

- **Unit 18: Chemical Bonding and Structure**

On completion of this unit you will:

- Understand the nature of organic chemicals.

- **Unit 19: Optics & Sound**

On completion of this unit you will:

- Understand the Laws of Reflection.
- Understand the Laws of Refraction.
- Understand the action of convex and concave lenses.
- Understand the simple optics of the eye.
- Understand the nature of transverse and longitudinal wave motions.
- Understand how the ear detects sound waves.

Assessment method

The assessment method for this course is via a Virtual Learning Environment (VLE).

The study materials and all assessment for this course is through an online platform (VLE). You won't need to purchase any books unless you wish to supplement these study materials.
The Access to Higher Education Diploma is a nationally recognised Level 3 qualification, regulated by the Quality Assurance Agency (QAA).

In order to complete this diploma, you must achieve a total of 60 credits. 45 graded credits (taken from the subject specific areas of biological science, chemistry, physics, advanced mathematics (statistical research) and 15 credits which are ungraded from the cell biology, skills for learning and IAG assessments.

The Access to HE Diploma in Radiography is made up modules that fall under specific subject areas. The subjects are:

- Skills for Learning
- Biological Science
- Chemistry
- Physics
- Related Studies (Radiography)
- Advanced Mathematics (statistical research)

You will study the online course materials and self-direct your study.

You will be required to submit assessments by a set deadline. To pass the module you must meet all the assessment criteria. After your first submission your assessor will provide feedback. At this point you will either have met all the pass criteria and your module will be graded or will be asked to resubmit your assessment taking on board the assessor's feedback and you'll be permitted to make a further submission of your work. Once your module has been achieved you can then proceed to the next module of the course. You will continue in this way through until you have completed all modules of the course.

Once all of the assessments are complete and have gone through internal moderation and external moderation the College will then present your grades to the Awarding Body.

Entry requirements

Learners should ideally already have a GCSE in English and maths (grade A* - C or Level 4 – 8' or an equivalent). Applications will be considered if you are working towards these qualifications however you may be required to take an initial assessment to gauge your current level in English and maths. We also ask that learners have the ambition to study a related degree at a higher education institute or university.

Access to Higher Education Diplomas are extensively accepted as an alternative to 'A Levels' for University entrance. The Access to Higher Education Diplomas have a reputation of successfully helping students to gain admission to University.

Learners should, however, be aware that each university apply their own admissions criteria, and we highly recommend that you research universities prior to applying to this course, to ensure your chosen university accepts this Diploma and the credits and graded units available for each subject area.

Whilst we have confidence that the Access to Higher Education Diplomas are compliant and sufficient to form part of a University application, East Sussex College will not be able to accept any liability for the inability of any Access to Higher Education learner to secure an offer from a Higher Education establishment due to the individual set requirement of each university or higher education institution.

Study time

Study time includes:

- working through the interactive content
- completing the assignments for each unit
- reading assessor feedback and reviewing course material or other resources as directed
- resubmitting your assignment where requested

Assessor Support

Your course is fully supported by dedicated assessors for each subject. The assessors will guide you through the course providing assistance and a tailored course experience for you.

How do I know if this is the right course for me?

East Sussex College Hastings offer a 14-day Induction Period for this course which enables you to assess whether both the course and the online mode of study is suitable for you. It also allows the College to assess your suitability, in particular whether you can produce work to meet the standards set by Open College Network West Midlands, the awarding body.

How does the Induction Period work?

The induction is conducted online so you do not have to travel to our campus. During the week you will receive your login details to the VLE and a welcome e-mail from the course team.

You will be sent a deadline/due date by e-mail which allows you two weeks to submit answers to the induction assessment.

If you do not meet the pass criteria for the induction assessment after the maximum number of submissions, you won't be enrolled onto the course and you won't have any fee liability. You will not incur any fees during the induction period or have any outstanding loans to re-pay.

Enrolment onto the qualification will take place once you have passed the induction assessment and have funding in place for the course fees.
If you take out an Advanced Learner Loan to cover your fees, then this will be activated 14 days from the course start date.

If you wish to withdraw, you may cancel your enrolment by notifying the Administration Team in writing (by e-mail) prior to day 14 and you will owe nothing. After 14 days, you will owe the full course fee plus an administration charge, in line with the Tuition Fee Policy.

System requirements

Processor
1 gigahertz (GHz), 2GB RAM

Operating System
Windows 7, Windows 8, Mac OS, Windows 10

Browsers
Internet Explorer 8 or above, Google Chrome, Safari 6 or above, Mozilla Firefox, Edge

Compatibility
Windows, Mac

Contact information

If you have any questions, after reading the course summary, please contact the ELearning Team.

Our office opening times are:

Monday – Thursday
8.30am – 5.00pm

Friday
8.30am – 4.30pm

01424 458491 - grasp@escg.ac.uk

East Sussex College Hastings
Station Approach, Hastings, East Sussex TN34 1BA