

# Epping Forest Field Centre

## AS / A2 Biology Courses OCR

Our courses provide opportunities to cover the following How Science Works requirements (QCA subject criteria 3.6) including:

- Use theories, models and ideas.
- Pose scientific questions.
- Use appropriate methodology.
- Carry out investigative activities.
- Interpret data to provide evidence, recognising correlations and causal relationships.
- Evaluate methodology.
- Consider ethical issues.

Choose from the range of courses listed.

For more information or to make a booking contact  
Epping Forest Field Centre on 020 8502 8500.

Courses cost £27 per person per day, subject to a minimum fee of £330 per taught group, prices are subject to change contact the Centre for up to date fees. Course content is for a day visit, typically arriving approx 9.30am, leaving approx 4pm. Tailor made courses, including half day activities are available, and changes to timings can be discussed.

The Centre's purpose built facilities offer superb opportunities for field study in the heart of Epping Forest.

All of our courses are led by experienced tutors selected for their knowledge and expertise as well as their relaxed and friendly manner.

**Epping Forest Field Centre**

**Tel: 020 8502 8500**

Address: Paul's Nursery Road, High Beach,  
Loughton, Essex, IG10 4AF

Fax: 020 8502 8502

Email: [enquiries.ef@field-studies-council.org](mailto:enquiries.ef@field-studies-council.org)

Website: [www.field-studies-council.org/eppingforest](http://www.field-studies-council.org/eppingforest)

Registered Charity Number: 313364

Managed by FSC for and on behalf of the City of London Corporation, Conservators of Epping Forest.

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UNDERSTANDING TO ALL

## **AS Biodiversity**

The course will allow students to study the invertebrates found in either a freshwater or terrestrial habitat. Adaptations and feeding requirements to help explain possible differences in diversity within the chosen habitat will be discussed. Fieldwork includes: design of investigative techniques, collection of biotic and abiotic data from the field, evaluation of methodology used and presentation of findings to the rest of the class. Students will calculate Simpson's Diversity index using their own data. Terrestrial habitat only available April – October.

## **AS/A2 Fieldwork Techniques 1 or 2 days**

A course designed to introduce students to practical fieldwork. A variety of quantitative and qualitative fieldwork sampling techniques are used allowing students to gain an understanding of the roles and limitations of equipment and techniques.

Fieldwork can include:

- Random sampling using quadrats
- Measurement and calculation of species frequency, species richness and percentage cover
- Line and belt transects
- Freshwater invertebrate sampling
- Terrestrial invertebrate sampling using mark-release recapture
- Collection of abiotic and biotic data

Possible follow up work:

- Statistical analysis (Spearman's rank/ Mann Whitney u-test)
- Lincoln Index

## **A2 Energy & Ecosystems**

Students will be given the opportunity to study the invertebrates in a pond habitat and consider their adaptations and relationships. Fieldwork includes: students working in small groups to design their own fieldwork technique, collect biotic and abiotic data from the field, evaluate their methodology and present their findings to the rest of the class. Students will calculate pyramids of numbers and biomass using their own data.

## **A2 Succession**

Students will be given the opportunity to study the stages of succession, collecting both quantitative and qualitative data. Fieldwork includes: students working in small groups to design their own fieldwork technique, collect biotic and abiotic data from the field, evaluate their methodology and present their findings to the rest of the class. Students will analyse their data using kite diagrams and/ or Spearman's Rank correlation coefficient.

## **A2 PSA 1 to 3 days**

This course will be designed around the PSA question the students will be set. If Epping Forest Field Centre has access to suitable habitats as required by the set question, Centre staff will work with school or college staff to ensure students are given enough time to gain the relevant skills required to complete their task using centre facilities and equipment. The course length may vary between one and three days in length depending on the nature of the set task and student needs.

To book, or for more information call 020 8502 8500.