

# Epping Forest Field Centre

## AS / A2 Biology Courses Edexcel

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.

**FSC**

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ENVIRONMENTAL  
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 Conservation Management\*

Students will be given the opportunity to observe management techniques in Epping Forest, past and present, and to evaluate the effectiveness of management techniques. Various specific conservation issues will be discussed including: great crested newt protection, fungi licensing and the release of invasive species. The opportunity to observe grazing management is available. A plenary debate session will provide the opportunity for students to compile their gained information and give it context.

## 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 to allow students to gain an understanding of the application and limitations of equipment and techniques in a range of habitats. Fieldwork can include; sampling strategies (random, systematic and stratified), collection of abiotic and biotic data and data analysis (Spearman's Rank, Mann Whitney U-test, Chi-squared, T-test, Simpsons Diversity and 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 Individual Investigations (Enhanced, Standard or Basic)

A variety of quantitative and qualitative fieldwork sampling techniques are used to allow students to gain an understanding of the application and limitations of equipment and techniques in a range of habitats. Time is given for students to plan, collect preliminary data and undertake their own individual investigation. The Enhanced 5 day course enables students to sample more sites and habitats and have increased experience of sampling techniques. The Standard 4 day course is the recommended minimum to allow students sufficient time to carry out their investigations. The Basic 3 day course is for schools on a limited budget. This course comes with a compulsory pre-course pack to allow adequate time for students to plan and carry out their investigation during their visit to the Centre. Due to the benefit of increasing the length of course for students, there is a different pricing structure for individual investigations:

Length of Course	Per student #	Minimum group fee #
3 day	£82	£990
4 day	£92	£1140
5 day	£110	£1290

#Subject to a minimum group fee

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

\* For these courses schools may need to provide transport all day for their staff and students and the tutor from EFFC