

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 £26 per person per day (March to November) and £24 per person per day (December to February), subject to a minimum fee of £310 per taught group. 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

Website: 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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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 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)
- 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 4-5 days

A longer course to enable students to undertake their own investigation. Students are introduced to a range of sampling techniques in a variety of habitats and appropriate statistical techniques are used. Time is given for students to plan, collect preliminary data and undertake their own individual investigation.

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