

Epping Forest Field Centre

AS / A2 Biology

Individual Student Days 2009/2010

Fieldwork courses for individuals or small groups of students

ISD's can be used to build knowledge about the subject and help students to prepare for their individual investigation or fieldwork skills paper. The courses focus on planning an investigation, sampling techniques and collection of primary and secondary data. In addition presentation and evaluation techniques and limitations will also be considered.

A range of courses are offered which run from approximately 9.30am to 4.30pm and will include classroom and field based sessions. **The cost per day is £26 per student.**

There is no charge for accompanying staff.

Choose from the range of Courses listed including:

Fieldwork Techniques, Terrestrial Biodiversity, Freshwater Biodiversity, Succession, OCR PSA's, Edexcel Individual Investigations

Further details can be found on our web site or contact the Centre. Details about your visit, including health and safety information, location information and details of what to bring can be found on the FSC website; www.field-studies-council.org/eppingforest.

To book, complete and return the attached booking form.

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

BRINGING
ENVIRONMENTAL
UNDERSTANDING TO ALL

Biology courses

Biodiversity - Freshwater Invertebrates (AQA /OCR / Edexcel / WJEC)

Students will be given the opportunity to study the invertebrates found in a pond habitat. Adaptations and feeding requirements will also be considered to explain possible differences in diversity. 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.

Biodiversity - Terrestrial Invertebrates (AQA /OCR / Edexcel / WJEC)

Students will be given the opportunity to study the invertebrates found in native and non-native shrub species in the forest. Adaptations and feeding requirements will also be considered to explain possible differences in diversity. 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.

Biology Fieldwork Techniques (AQA /OCR / Edexcel / WJEC)

Students will cover a range of skills over this one day course, including use of various Quadrats (Frame, Gridded, Pin). Systematic sampling using transects, Random Sampling in plots, Mann Whitney U and Spearman's Rank statistical tests. In addition, students will get to use a range of different equipment such as light meters, soil and air thermometers, in order to measure biotic and abiotic factors.

Practical Skills Assessment: PSA (OCR)

Students will be provided with the equipment and site to complete PSA Task 3b. The morning session will be spent briefly covering relevant fieldwork techniques in preparation for the afternoon assessment. Exam papers will need to be provided.

It is recommended that students with no experience of ecological sampling also attend a Biology Fieldwork Techniques day (see above for details and dates on booking form).

Succession (AQA /OCR / Edexcel / WJEC)

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.

Biology Individual Investigations (Edexcel)

A three day structured approach to planning and carrying out project work designed to meet specification requirements. This approach provides time to develop ideas and fieldwork techniques and allows students to become familiar with the environment they will be investigating.

- **Day 1: Woodland Fieldwork Techniques** Students will cover a range of skills as detailed in the one day biology fieldwork techniques course above.
- **Day 2 (am): Freshwater Fieldwork techniques** Students undertake macro-invertebrate sampling and then have an opportunity to make observations of pond invertebrates including identification, adaptations and trophic levels and then have time to discuss project ideas.
- **Day 2 (pm): Planning** Students have the opportunity to plan an investigation with the help of our experienced tutors with specialist knowledge and considerable experience in topics, fieldwork techniques and data analysis.
- **Day 3: Data Collection** Students will be provided with a base and supervision/safety cover to carry out their individual investigation as well as access to appropriate equipment and secondary data.

What to do next:

- To make a booking on one of the Individual Student Days please read the booking conditions then **complete, sign and return the booking and visitor information form (for all visitors) with payment** for each individual course. (The last page of this document) Contact us to ensure space is still available.
- Students **must be accompanied by a teacher from the school**, if this is not possible please contact the Centre to discuss options.
- We will accept bookings for small groups from a school on an ISD. If you have more students please contact the Centre to discuss options.
- Payment in full is required (£26 per student per course) to be sent with the completed booking form.
- Cheques should be made payable to the 'Field Studies Council' and sent to EFFC. Please write 'ISD' on the back of the cheque together with the school name. A receipted invoice will be sent.
- On receipt of the booking form you will be sent a confirmation letter. The Tutor teaching the day will also liaise with you and the other visiting groups prior to the course in order to ensure all groups get the most from the day.
- Please access further information about your visit from our website www.field-studies-council.org/eppingforest including:
 - FS01 Location and contact details
 - FS02 who we are
 - FS05 school group leader agreement
 - FS07 info for visiting secondary students (to be given to all visitors)
 - FS09 Health and safety information for secondary groups
- Please **ensure all visitors receive FS07** before their visit as this provides information on what to bring and to ensure that you and your group have a safe and enjoyable time.
- We are unable to accept responsibility for any difficulties arising from not being notified of special needs in advance.
- In order to make the most of the day, it is important that you should arrive on time so the programme can be followed. Students will be required to make their own way to the Centre. Taxis are available from Loughton Tube station.
- **All Courses run from 9.30am until 4.30pm**
- On the day please telephone the Centre and advise staff of your estimated arrival time if you are likely to be delayed.
- Please report to reception on arrival.
- If you have any queries please do not hesitate to contact the centre on 020 8502 8500.

If you have specific requirements or a topic you wish to cover or the dates shown are not suitable, please speak to us about alternative ISD's and dates that we may be able to offer.

Booking Conditions: Your visit

Your contract will be with the Field Studies Council (FSC)

Deposit

We require full payment to secure your booking, to arrive no later than 28 days before the date of your visit. (Should this letter be received within 28 days of the visit, we shall require the deposit and Visitor Information form within 3 days of receipt of this letter). Please make all cheques payable to the 'Field Studies Council'. This will be deducted from your final balance and is non refundable in the event of a cancellation. A receipted invoice will be sent to you at least 5 weeks before the date of the course. The Centre reserves the right to cancel a booking without notice where a deposit has not been received by the due date.

Confirmation of visitor information

The visitor information form and confirmation of numbers must be completed and returned to us with your payment. The Centre is unable to accept responsibility for any difficulties arising from not being notified in advance of your visit. Any information disclosed will be treated in confidence by the FSC.

Balance of Fee

Full payment is required to confirm a place on the course. A receipted invoice will be sent to you. In certain circumstances an additional invoice may be raised after your course (e.g. broken equipment, additional students).

Cancellation

If you are forced to cancel or curtail your FSC course you may be liable for payment of up to 100% of the course fees. Furthermore the FSC cannot accept responsibility for loss or damage to guests' personal belongings. Consequently we recommend you take out appropriate insurance cover prior to your trip. The FSC has negotiated optional insurance cover at competitive rates with a leading insurer. Please contact the Centre if you would like details.

Cancellation of the Course (By the school)

If it is necessary for you to cancel your booking, please inform the Centre in writing as soon as possible. The Centre will retain the deposit for a cancellation made within 28 days of the course and retain the full fee for a course cancelled within 21 days of the course. Charges can only be waived in exceptional circumstances.

Cancellation of the Course (By the Centre)

Should a course be cancelled by the Centre, and this will only happen in exceptional circumstances, we shall inform the school as soon as possible and try to make alternative arrangements. Should no alternative arrangement be suitable, a full refund of all payments would be made at the earliest opportunity.

Variation of conditions

The centre reserves the right to vary its booking condition as necessary. Bookings will be subject to the conditions prevailing at the time of booking. FSC reserves the right to refuse to accept any booking without stating a reason.

Amendments

FSC reserves the right to alter course programmes after careful consideration, if and as circumstances dictate.

Epping Forest Field Centre

Individual Student Day Booking and Visitor Information Form

To book onto an Individual Student Day, complete and return this form before your visit along with full payment.

Name of Supervising Teacher: (a teacher from the school must be present & listed on visitor information form)	School (Name, Address and postcode):
Telephone Number:	Email Address:

Courses (all run 0930 -1630)	Date	Cost per person	No. students attending
Biology Fieldwork Techniques	9 Sep 2009	£26	
Practical Skills Assessment (OCR)	10 Sep 2009	£26	
Biology Individual Investigations (Edexcel)	9-11 Sep 2009	£75	
Biodiversity: Terrestrial Invertebrates	14 Sep 2009	£26	
Succession	20 Oct 2009	£26	
Biodiversity: Freshwater Invertebrates	16 Mar 2010	£26	
Biology Fieldwork Techniques	8 Sep 2010	£26	
Practical Skills Assessment (OCR)	9 Sep 2010	£26	
Biology Individual Investigations (Edexcel)	8-10 Sep 2010	£75	
Succession	19 Oct 2010	£26	

School Year:	
Specification / Unit:	
Reason for visit:	
Predicted Grade(s):	

Any information disclosed will be treated in confidence by Epping Forest Field Centre. We are unable to accept responsibility for any difficulties arising from not being notified of special needs in advance. Further details about medical conditions / special needs can be found on our website.

Name of visitor	Age (* if adult)	Medication /special needs	Adult responsible

I have read the booking conditions and accessed the details on the website (If you have difficulties accessing this information, please contact us). I have passed FS07 onto all visitors. I enclose a cheque for £26 per student per course as payment (there is no charge for accompanying staff).

Signed: Date:.....