AS / A2 Biology
Individual Student Days 2011/12

Fieldwork courses for individuals or small groups of students

ISDs are Epping Forest Field Centre programme days scheduled for single students and small school groups. Students must be accompanied by a teacher from the school, if this is not possible please contact the centre to discuss options.

A range of courses are offered which run from 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.

To book, complete and return the attached booking form.

- 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

Further details can be found on our website 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/centres/eppingforest/outdoorclassroom/important-information-for-visited.aspx.

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.
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.

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: 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 plus time to discuss project ideas.
• **Day 3: Planning** Students have the opportunity to plan an investigation aided by our tutors whose specialist knowledge and considerable experience in topics, fieldwork techniques and data analysis are an invaluable resource.
• **Day 4: 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.
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)  
<table>
<thead>
<tr>
<th>Course</th>
<th>Date</th>
<th>Cost per person</th>
<th>No. students attending</th>
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<tbody>
<tr>
<td>Biology Individual Investigations (Edexcel)</td>
<td>6-9 Sep 2011</td>
<td>£104</td>
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<tr>
<td>Biology Fieldwork Techniques</td>
<td>6 Sep 2011</td>
<td>£26</td>
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<td>Succession</td>
<td>19 Oct 2011</td>
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<td>Biodiversity – Freshwater Invertebrates</td>
<td>16 March 2012</td>
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<td>Biodiversity – Terrestrial Invertebrates</td>
<td>8 May 2012</td>
<td>£26</td>
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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.

<table>
<thead>
<tr>
<th>Name of visitor</th>
<th>Age (* if adult)</th>
<th>Medication / special needs</th>
<th>Adult responsible</th>
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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: .........................................................