



FSC Outdoor Classroom for Scotland Advanced Higher Programmes

Our standard courses are fixed length with clearly stated outcomes and links with SQA Arrangements.

Biology Investigation 3 days

Please visit
<http://www.field-studies-council.org/outdoorclassroom/scotland/advancedhigherbiology.aspx>
for alternative Advanced Higher programmes

OVERVIEW

This three day programme is designed to meet the needs of the *Biological Investigation* unit. This is a short course that packs a lot of biology into a limited amount of time. Students will leave having planned and carried out the data collection stages of their individual investigation and may have looked at ways to analyse and present data. The formal write up of the investigation will to be completed back at school.

PROGRAMME LENGTH

3 Days (2 nights with 6 teaching sessions)

Start days: Monday, Wednesday or Friday

Groups would normally arrive in time to be taught in the afternoon of the first day and would then be taught on that evening and for one full day subsequently. Groups depart immediately after the morning session on the day of departure.

Day 1	Day 2	Day 3
Arrive	Morning, afternoon & evening sessions	Morning session
Afternoon & evening sessions		Depart after Lunch

PROGRAMME CONTENT

The course comprises:

- Introduction to biological sampling, fieldwork and statistical analysis techniques
- Introduction to project planning techniques
- Completion of a chosen individual project

ARRANGEMENT LINKS:

This programme allows students to *apply* biological principles learnt in school, FSC tutors will provide guidance but no direct support to students during fieldwork. The course allows access to a range of diverse of ecosystems, close to the centre, enabling a variety of investigations to be carried out at the same time.

At *all* stages students work *individually to plan and collect* data. Our tutors provide guidance for Outcome 1 and Outcome 2 and can also provide a session on statistical analysis if required.

TIMETABLE

DAY	MORNING	AFTERNOON	EVENING
1	<p>Arrival (approx. 12 - 1pm)</p> <p>Welcome and outline the challenges ahead</p> <p>Tour of centre Settle into rooms Allocate kit (i.e. waterproofs)</p>	<p>Introduction to Fieldwork</p> <p>Introductory discussion to explore:</p> <ul style="list-style-type: none"> • The importance of fieldwork in biology • Introduce the key ecological terms and definitions • Introduce fieldwork method, possible sites, and equipment • Aims of the three day course • Tour/virtual tour of field sites – soils, grassland, moorland, freshwater – still and running, forest plantation, native birch woodland, disturbed ground 	<p>Project Planning</p> <p>Students will prepare to plan their personal fieldwork project through:</p> <ul style="list-style-type: none"> • Formulating hypotheses and research questions • Producing field data collection sheets, identifying methodologies and completing equipment requests • Identify what data they will collect and how they will process it
2	<p>Project Fieldwork</p> <p>Collection of fieldwork project data</p>		<p>Follow up session</p> <p>Students will use the data collected in the previous session to start project problem solving and identify any further research required</p>
3	<p>Fieldwork completion and Statistics workshop</p> <p>Students will carry out any further data collection required and a statistical workshop will be offered for those who wish to complete statistical analysis of their data.</p>	<p>Lunch and Depart</p>	

Please note: to ensure safe and quality learning experiences for students the timetable may alter depending on weather conditions and local factors at centres.

FSC KINDROGAN

Located in rural Perthshire, at the edge of the Cairngorms National Park FSC Kindrogan is 11 miles from Pitlochry's mainline train station and close to the A9. The Centre itself is set in wooded grounds on the banks of the River Ardle and lies within easy reach of some of the most inspiring landforms in the Scottish Highlands and a rich range of wildlife habitats.



KD

Kindrogan

Tel: 01250 870150

TO BOOK THIS PROGRAMME, SIMPLY:

1. Choose the time of the year you would like to attend
2. Check availability online or contact FSC Kindrogan

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The FSC prides itself on being flexible. If you can't find a programme to meet your exact requirements a course specifically tailored to meet your needs can be developed. To discuss this, contact the centre of your choice. Fees will depend on what time of year you would like to visit and your length of stay, but will be more expensive than FSC programmes at peak periods.