

MODULE SPECIFICATION PROFORMA

Module Code:	ANM421
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Module Title:	Introduction to British Entomology
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Level:	4	Credit Value:	20
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Cost Centre(s):	GAAN	JACS3 code:	F750
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School:	Social & Life Sciences	Module Leader:	Denise Yorke
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Scheduled learning and teaching hours	36 hrs
Guided independent study	164 hrs
Module duration (total hours)	200 hrs

Guidance - normally, the university would expect to see the following amounts of contact time and independent learning time for taught modules as part of its Modular Curriculum Framework –

Level	Credit volume	Overall hours	learning	Contact learning hours	Independent learning hours
Level 3	20 credits	200 hrs		40	160
Level 4	20 credits	200 hrs		36	164
Level 5	20 credits	200 hrs		30	170
Level 6	20 credits	200 hrs		24	176
Level 7	20 credits	200 hrs		21	179

Programme(s) in which to be offered (not including exit awards)	Core	Option
Stand alone module (Attached to FdSc Animal Behaviour, Welfare and Conservation)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pre-requisites
None

Office use only

Initial approval: 19/03/2020

Version no: 1

With effect from: 01/09/2020

Date and details of revision:

Version no:

Module Aims

- 1) Introduction to the classification of major insect families in Britain
- 2) Introduction to the biology, ecology & distribution of major insect families in Britain
- 3) Identification of major insect families in Britain

At the end of this module, students will be able to

- | | |
|---|---|
| 1 | Identify the classification of major insect families in Britain |
| 2 | Explain the biology, ecology & distribution of major insect families in Britain |
| 3 | Identify a range of of major insect families in Britain |

Employability Skills The Wrexham Glyndŵr Graduate	I = included in module content A = included in module assessment N/A = not applicable
<i>Guidance: complete the matrix to indicate which of the following are included in the module content and/or assessment in alignment with the matrix provided in the programme specification.</i>	
CORE ATTRIBUTES	
Engaged	IA
Creative	I
Enterprising	I
Ethical	IA
KEY ATTITUDES	
Commitment	I
Curiosity	I
Resilient	I
Confidence	I
Adaptability	IA
PRACTICAL SKILLSETS	
Digital fluency	IA
Organisation	IA
Leadership and team working	I
Critical thinking	IA
Emotional intelligence	IA
Communication	IA

Derogations

N/A

Assessment:

Indicative Assessment Tasks:

Multiple choice questions (classroom based assessment) - which will include questions relating to the classification, biology and ecology of the major insect families in the UK. This may include but not be limited to: characteristics (physical & behavioural), diet, habitat requirements and distribution (including influencing factors).

Practical (classroom based assessment) - students will work individually to identify a range of insect specimens (real and photographs) to family level.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1 & 2	Multiple Choice Questions	50		2000
2	3	Practical	50	60 mins	2000

Learning and Teaching Strategies:

The module will include a range of learning and teaching techniques including formal lectures, practical sessions and site visits.

Guest speakers will be invited to introduce case studies and bring current relevance to the study of entomology

Syllabus outline:

Evolution
 Physiology, morphology, distribution, ecology, reproduction ecosystems
 Classification overview from Kingdom to Order
 Family morphologies
 Pit-fall traps
 Moths traps
 Sweep netting
 Insect vacuums
 Beating
 Bernese Funnels
 Threats to insects (individuals & populations) including: climate change, habitat loss, seasonality differences, predation, invasive species
 Use of identification keys
 Use of basic key terms and ecological/morphological definitions including: spitacle chitin, corbicula, elytra and elytron, trochanter and scutellum.

Indicative Bibliography:

Essential reading

Brock, M. (2014) *A Comprehensive Guide to Insects of Britain and Ireland*. Pisces publications

Other indicative reading

Roy, H. Brown, P. and Lewington, R. (2018) *Field Guide to the Ladybirds of Great Britain and Europe* Bloomsbury Wildlife Guides

Duff, A.(2012) *Beetles of Britain and Ireland Volume 1: Sphaeriusidae to Silphidae*. A.G Duff (Publishing)

Duff, A.(2012) *Beetles of Britain and Ireland Volume 4: Cerambycidae to Curculionidae*. A.G Duff (Publishing)

Falk, S. Lewington, R. (2015) *Field Guide to the Bees of Great Britain and Ireland* Bloomsbury Wildlife Guides

Waring, P. Townsend, M. and Lewington, R. (2017)) *Field Guide to the Moths of Great Britain and Ireland* Bloomsbury Wildlife Guides

Sterry, P. Cleave, A Read, R. (2016) *Collins Complete Guide to British Butterflies and Moths*. Harper Collins

Barnard, P.C (2011) *The Royal Entomological Society Book of British Insects* Wiley Blackwell

Reference may be made to contemporary research articles and other resources such as:

- Science
- Nature
- Annual review of entomology