# Brackenhurst

# Land-based resource booklet



Main Hall – Brackenhurst Campus

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**Brackenhurst Students** 



Brackenhurst Equestrian Centre



Home Farm Roundhouse



Animal Unit

# About this booklet & Brackenhurst:

Located in Southwell, just 14 miles from Nottingham City Centre, Brackenhurst, or 'Brack', is just a bus ride from Newark, Mansfield or Nottingham City Centre. This campus of Nottingham Trent University that houses the School of Animal, Rural and Environmental Sciences (ARES) as well as our Further Education (FE) Provision. We offer land-based, practical, college level courses for you to complete after your GCSEs. These are:

- Level 2 Diploma in Agriculture
- Level 3 Extended Diploma in Agriculture
- Level 2 Diploma in Animal Care
- Level 3 Extended Diploma in Animal Management
- Access to Higher Education Diploma in Land-Based Studies: Animal Science
- Level 3 Extended Diploma in Equine Management
- Level 3 Extended Diploma in Land & Wildlife Management (Wildlife Conservation)

These are all practical based courses, designed to prepare you for the world of work or Higher Education, so if your enthusiastic and passionate about animals and/or the environment, and beginning a career in this industry, we'll have the right course for you! In 2018, our college courses had a 99% pass rate and our Ofsted performance was 'good' with elements of outstanding.

Brackenhurst has both college (FE) and degree (HE) students on site, so if you like and your grades permit, you can study a degree at Brackenhurst after you complete your college level course. This will give you a chance to undertake a degree at The Guardian's University of the Year 2019, and experience TEF Gold standard teaching.

All of our students use our incredible onsite facilities. For Agriculture students, this might be 'Home Farm' which includes farm machinery, lambing in the Spring and a roundhouse, home to our award-winning Lincoln Red cattle. For our Animal students, this may be our Animal Unit that houses around 70 species of animal and for Equine students, it may be our Equestrian Centre that includes stabling for 65 horses as well as both indoor and outdoor riding arenas. Dedicated FE, under 18 accommodation is also on site. This resource pack aims to give you a taste of what Brack and its courses are like.

This resource booklet incorporates activities put together by our Further Education teaching staff for students interested in areas Brackenhurst offers College Level courses in. There are roughly 2 activities per section for you to study in your own time. These aim to be used by students who are interested in our courses, are starting one of our courses this year or are not quite sure what they would like to do after they finish their GCSEs and are considering a qualification/career in a land-based industry.

Enjoy the booklet and please feel free to get in touch with <u>samuel.wells@ntu.ac.uk</u> for any question. More resources and information on Brackenhurst and our courses can be found at the links listed in this booklet's "Additional Resources" section.

# Animal:

This section has tasks written by our Animal team that teach our Level 2 Diploma in Animal Care and our Level 3 Extended Diploma in Animal Management. These will encourage you to undertake some research that will give you a good basis to go on to study either of our Animal courses. A video featuring students from these courses is here: <u>https://www.youtube.com/watch?v=68OAt4yDZ4o</u>

# Task 1: Duties of different Animal based job roles

There are 8 questions here about job roles in the animal industry. Please answer these, answers are on page\_\_\_\_. Don't be afraid to do some research if you are not sure of the answer.

#### Circle your answers

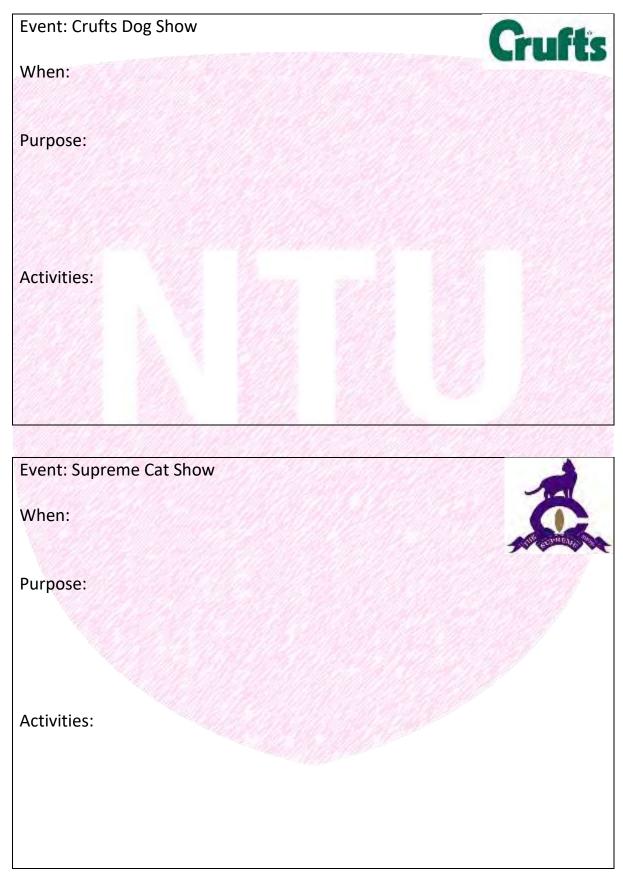
- 1. An animal care assistant is also known as an
  - a. Animal technician
  - b. Animal Care Auxiliary
  - c. Animal Manager
  - d. Animal trainer
- 2. Animal Care Assistants work in which of the following settings? (select all that apply)
  - a. Kennel/Cattery
  - b. Farm Park
  - c. Pet Store
  - d. Rescue/Welfare Centre
  - e. Zoo
  - f. Vets
- 3. What do you think the working hours/pattern are of an Animal Care Assistant?
- 4. Approximately how many hours per week would a Trainee Pet Shop Assistant work if they were full-time?
- 5. Which of the following are duties of an Animal Care Assistant? (select all that apply)
  - a. Cleaning and maintaining accommodation
  - b. Supervising staff
  - c. Grooming animals
  - d. Preparing food and feeding animals
  - e. Planning animal diets

- f. Moving and exercising animals
- g. Administering medication
- h. Interviewing new staff
- i. Health checking animals
- j. Purchasing animals for collections
- k. Keeping records
- I. Assessing animal behaviour for re-homing
- m. Answering questions from visitors
- 6. Read the list of duties in question 5 for an Animal Care Assistant. Do you think a Trainee Pet Shop Assistant would do any additional/different duties?

- 7. As a trainee kennel/cattery worker, where may you be working? (select all that apply)
  - a. Boarding kennels/cattery
  - b. Police kennels
  - c. RSPCA/ Cat's Protection
  - d. Breeding kennels
  - e. Racing/Hunt kennels
- 8. What duties do you think a trainee kennel/cattery worker would carry out?
  - a. Feeding animals
  - b. Grooming animals
  - c. Cleaning and maintaining kennels/runs
  - d. Setting up welfare campaigns
  - e. Answering telephone calls
  - f. Training animals
  - g. Assessing temperament for re-homing
  - h. Taking bookings
  - i. Approving customers for animal adoption

# Task 2: Industry Events

This is a research task. Use the internet to find out more about the 7 events below.



Event: Pet and Aquatic Trade Show (PATS)	
When:	PET & AQUATIC
Purpose:	
Activities:	
Event: Your Horse Live	YOUR
When:	Live
Purpose:	
Activities:	

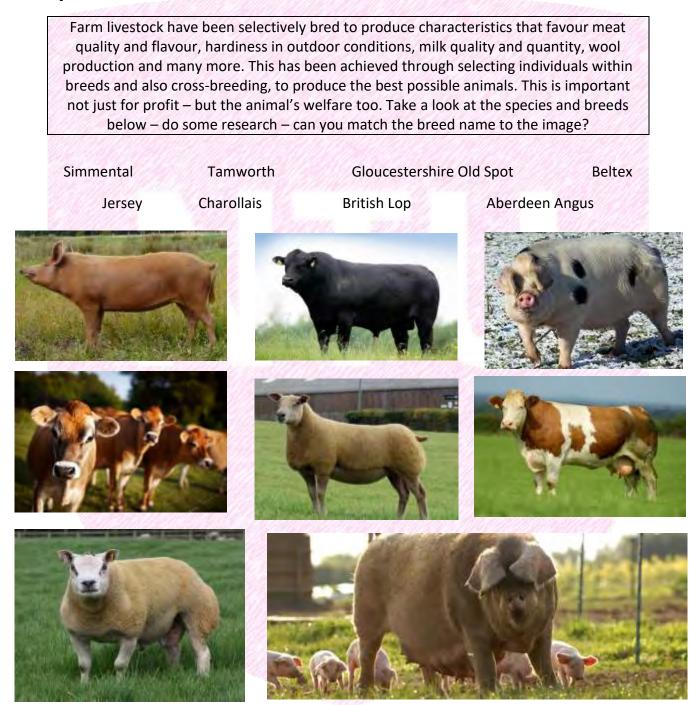
Event: British Pet Show When:		GREAT ABRITISHI
		COUNTRY A
Purpose:		
Activities:		
Event: Highland Show		ROYAL
When:		ROYAL HIGHLAND SHOW
Purpose:		
Activities:		

Event: Britisl When:	n Dog Groomii	ng Champior	nship	BRITISH DOG GROOMERS' ASSOCIATION
Purpose:				
Activities:				

If you have enjoyed these tasks, why not have a look at our College Course guide (https://www.ntu.ac.uk/ data/assets/pdf file/0018/113742/8165 Brack-FE-brochure-2020-web-EDIT.pdf) where you can find more information on our Animal courses. You can also download an application form from: https://www.ntu.ac.uk/ data/assets/pdf file/0025/914614/FE-applicationform-2020-EDIT.pdf

# Agriculture

# Do you know the difference between a Gloucestershire Old Spot, Charollais and Simmental?!



Take a look at the NTU Brackenhurst agriculture Facebook page to see some award-winning Lincoln Reds!

#### Some things to think about...

- 1. What are these breeds used for?
- 2. How do their characteristics make them suitable for their use?
- 3. Are any of these breeds produced from cross-breeding?
- Imagine you are a farmer what would you produce? Which breeds would you use and why?

**Task 2:** Read through the leaflet for Agriculture (overleaf) and answer the True or False questions below. More information can be found on our Level 2 and Level 3 Agriculture courses in our College Course Guide at <a href="https://www.ntu.ac.uk/">https://www.ntu.ac.uk/</a> data/assets/pdf\_file/0018/113742/8165\_Brack-FE-brochure-2020-web-EDIT.pdf (p. 22-25 for Agriculture) to help.

#### TRUE OR FALSE?

- 1. You have to come from a farming family to study our Agriculture courses.
- 2. The Agriculture industry needs an extra 60,000 employees in the next 5 years.
- 3. This is a highly theoretical course with not many practical elements.
- 4. Brackenhurst has degree and college level agriculture students onsite.
- 5. You need 4 GCSEs at grade 4 (C) including English, Maths and Science to study our Level 3 Extended Diploma in Agriculture.

#### Okay, I'm interested: what are my options?

At Brackenhurst, we offer a Level 3 Extended Diploma in Agriculture. You will have access to our onsite farm 'Home Farm' which includes a new grain store and roundhouse.

#### I don't want to be stuck in a classroom all day!

Neither do we! Typically, there's a 50/50 mix of theory and practical sessions, so you can learn why a job is done, and then how to do it.

#### What results do I need to get?

To study our Level 3 Agriculture <u>course</u> you will need 4 GCSEs at grade 4 (C) or above and these must include English, Maths and Science.

#### Is there anything else I can do?

Get in touch with a local farmer or young farmers' <u>club, and</u> ask for some work experience to get a proper taste of the industry.

#### Do you want to know more?

We're always happy to answer enquiries by email, or put you in touch with student representatives

# Brackenhurst Campus

#### Study your college course at a university

NTU doesn't just offer degree courses. We also have an exciting range of college-level courses. This means you can study with us from the age of 16. Our courses are a chance to learn beyond the classroom – qualifications that build the confidence, independence and knowledge that employers and universities will want to see.

Situated on a huge countryside estate outside the town of Southwell, Brackenhurst is home to our land and animal-based courses, with industry-standard facilities available for teaching and learning.





# AGRICULTURE COURSES AT BACKENHURST





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# True or False?

In order to succeed in Agriculture, you really need to be a farmer's son, with an innate knowledge of both land and livestock. You need to be willing to work every hour under the <u>sun</u>, and have little to no social life: you're unlikely to find a partner who will understand your job. Wages are poor, and there is no career progression, and once you're in the industry, you have no transferrable skills to allow you to leave. In addition to this, there are no jobs in the industry anyway, and there's no job safety, so Agriculture isn't the right choice for me.

#### NOPE! This is the FALSE statement:



# Thinking about a career in Agriculture?

#### HERE'S WHAT OTHER STUDENTS HAVE ASKED OR HAVE TO SAY:

"Yes, but I don't know about my long-term prospects,"

"My parents want me to consider other options,"

#### "It's all I've ever wanted to do,"

"I like the idea of working with and caring for large animals every day,"

"I don't come from a farming family, so I can't do Agriculture: I'll stick out like a sore thumb,"

"I've got friends and family who think I can achieve more than just farming,"

#### "I love to get stuck in to a job, and see the long-term results,"

"I'm interested, but I don't know who to ask for more information: I don't know any farmers,"

# True or False?

In order to succeed in Agriculture, the main thing you need to be is resilient: your gender, background and upbringing are guickly forgotten if you can prove that you have the skills, tenacity and dedication required. The UK is only just over 60% self-sufficient in food production, and has some of the highest standards in the world for animal welfare, food quality & traceability, and environmental management... but it also has an older-than-average workforce, which means that over the next 5 years. Agriculture needs an extra 60,000 people to enter the industry. You make friends and contacts for life, and the people that you meet will be just as passionate about the farming industry as you are.

"I chose this course because of the facilities, location, reputation and ability to gain additional qualifications."

- Ben Theaker, L3 Agriculture

# Horse Management

This section consists of tasks developed by our Horse Management team who teach on our Level 3 Extended Diploma in Equine Management, first, you are asked to label a horses' skeleton followed by some questions. Once again, please use the internet to help!

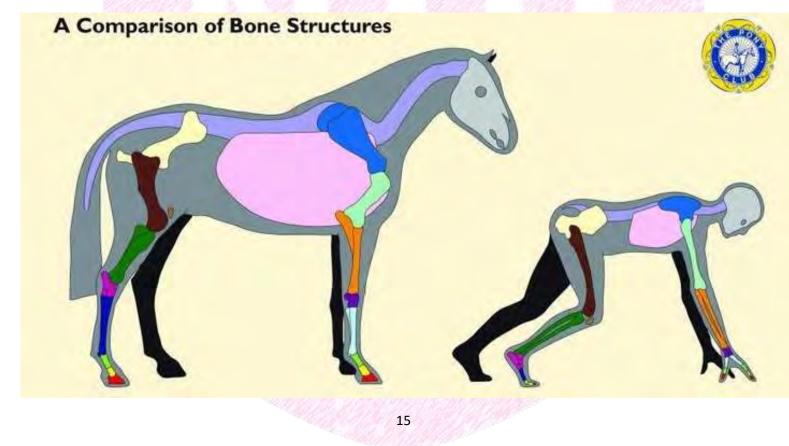
# Can you label the skeleton with the following bones:

Ribs	Pelvis	Humerus
Cervical verteb	rae	Scapula
Thoracic verte	orae	Ulna & radius
Lumbar verteb	rae	Carpal bones
Femur	Patella	Tibia & fibula
Sacral vertebra	e	Sternum
Coccygeal vert	ebrae	Os calsis
Metatarsals	Tarsal bones	
Metacarpals (c	annon bones)	
Phalanges (lon bone)	g and short past	erns and pedal

# TASK 1: HORSE SKELETON – CAN YOU LABEL THE PARTS? MAMAAAAEEE

## SKELETON QUESTIONS:

- 1. How many more pairs of ribs does a horse have than a human?
- 2. What bone does a human have that is not present anywhere in the horse?
- 3. What is the job of the ribcage?
- 4. The wrist joint in the human is commonly called what in the horse?



# Task 2: Sequence of feet in the horse's paces

Find some videos on YouTube, watch these and use the pictures to write in the correct sequence of when the horses feet hit the ground. This may be a good start... <u>https://www.youtube.com/watch?v=T3Bmw76rlfo</u>

## <u>WALK</u>

Watch some videos of horses in walk to help you with this activity. Slow motion ones are even better!







Can you write in the correct sequence of footfalls for the walk?

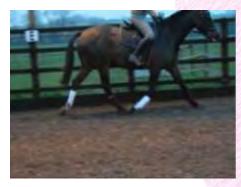


How many beats does the walk have?

## <u>TROT</u>

Watch some videos of horses in trot to help you with this activity. Slow motion ones are even better!







Can you write in the correct sequence of footfalls for the trot?

How many beats does the trot have?

#### **CANTER**

Watch some videos of horses in canter to help you with this activity. Slow motion ones are even better!







Can you write in the correct sequence of footfalls for the canter?

How many beats does the canter have?

Which canter lead is this horse on?

## **GALLOP**

Watch some videos of horses in gallop to help you with this activity. Slow motion ones are even better!







Can you write in the correct sequence of footfalls for the gallop?

How many beats does the gallop have?

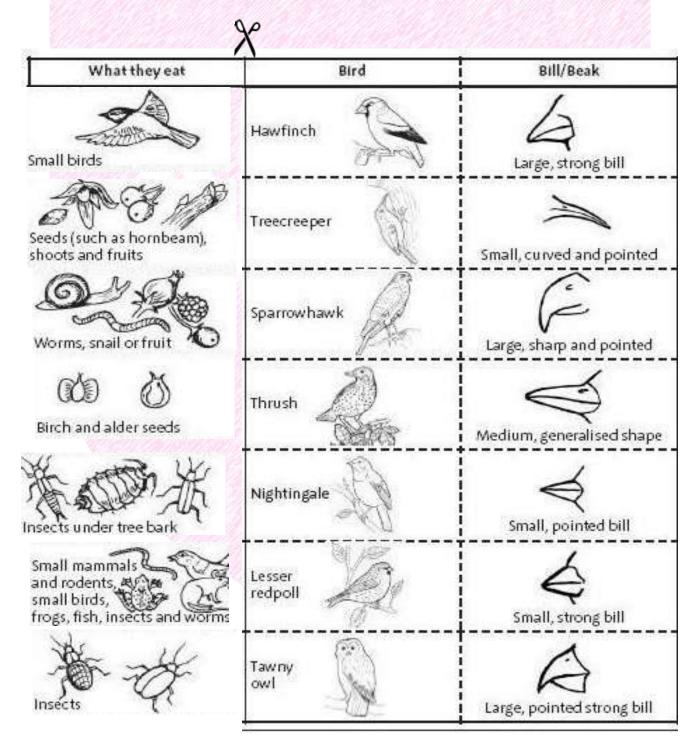
# Land & Wildlife Management (Conservation)

Land and Wildlife Activity: Adaptations and Biodiversity

Task 1: Cut out the 'what they eat' cards bird food sources and jumble them up.

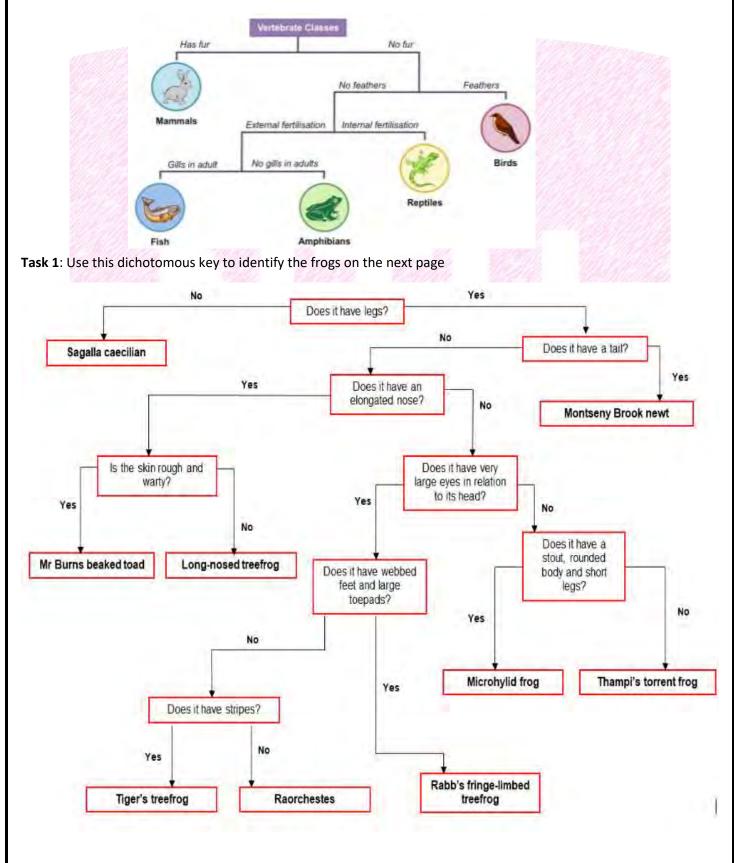
Try and match the bird and beak type with its food source, consider these questions:

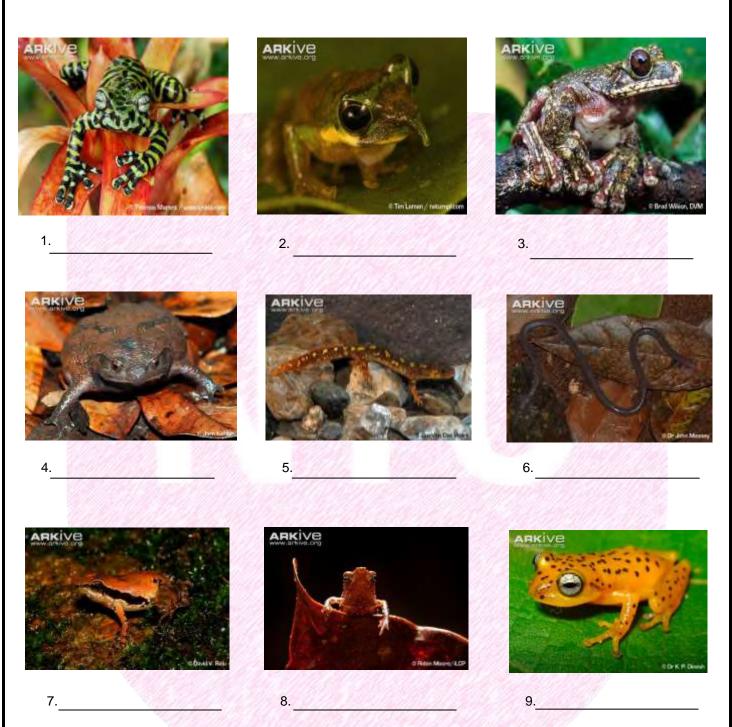
- 1. How are the bird beaks the same?
- 2. How are the bird beaks different?
- 3. How do the beaks help them to catch their preferred food?



#### Land and Wildlife Activity Task 2: Dichotomous Keys

- A dichotomous key is a tool that allows you to determine the identity of a species.
- Keys consist of a series of choices that lead the user to the correct name.





Extra Challenge: Make your own dichotomous key for the common British butterflies on the next page.

Step 1: List down the characteristics that you can notice. They must be observable in the pictures.
Step 2: Organize the characteristics in order with the most general characteristics first, before moving to the more specific ones. They should get more and more specific as you go down the list.

**Step 3: Divide the specimens** using statements (i.e. has feathers and no feathers) or questions (does it have feathers?) divide your specimens into two groups. The first differentiation should be made on the most general characteristic.

**Step 4: Divide the specimen even further**. Continue to subdivide your specimen by asking enough questions until you have identified and named all of them.

Step 5: Draw a dichotomous key diagram. It can be a tree diagram or a flowchart. Step 6: Test it out



Red admiral



Brimstone



Comma



Small tortoiseshell



Orange-tip



Peacock



Holly blue



Painted lady

# Land and Wildlife Activity 3: Garden Bird Bingo

Garden birds are any species of bird that visit our gardens for food and shelter on a regular basis. Every garden attracts a different set of birds depending on the plants, trees and shrubs present, whether extra food is provided, what water sources there are, and what the surrounding habitats are like.

Get out those bird ID books or have a look on the internet, it's time to go head to head with a member of your family or a friend at school and play garden bird bingo!

Over your breakfast chose a window and go spot your garden birds. Once you have a full line (down or across) you are the winner and get to shout BINGO!

#### **Online resources:**

www.rspb.org.uk/birds-and-wildlife/wildlife-guides/identify-a-bird/ www.allaboutbirds.org/news/ (*Click on 'Get Instant ID help'*)

# **Reading Lists**

Gold finch	Wood pigeon	House Sparrow	Magpie	Common Gull
Robin	Jay	Dunnock	Crow	Blue Tit
Song Thrush	Swift	FREE SPACE	Wren	Green Finch
Green Woodpecker	Great Tit	Jackdaw	Collared Dove	Sparrowhawk
Kestrel	Chaffinch	Swallow	Pheasant	Tree Sparrow

Course	Title	Author(s)	Cover
Animal	The Complete Book of Pets & Petcare: The Essential Family Reference Guide to Pet Breeds and Petcare	David Alderton, Allen Edwards, Peter Larkin, Mike Stockman	PETCARE PETCARE To and the second
Animal	Animal Biology and Care	Sue Dallas	Animal Biology ord Care Department
Agriculture	Management and Welfare of Farm Animals	Editor: John Webster	BILLE Contraction of Parms Animals International States International States Interna
Agriculture	Farm Record Logbook     NOTE: Teaching staff recommend each student     buys this. £6 from Amazon.     (https://www.amazon.co.uk/Farm-Record-     Logbook-Organizer-Equipment/dp/1091662037)	Journal booklet for keeping own records.	LOGBOOK
Agriculture	Keeping Livestock Healthy	B. Haynes	
Agriculture	Business Plan for Agriculture – Farm Development	Molly Rose	BUSINESS PLAN FOR AGRICULTURE FARM

Agriculture	Improved Grassland Management	John Frame, A. S. Laidlaw	
Agriculture	Farm Machinery	Brian bell	
Agriculture	Lockhart & Wiseman's Crop Husbandry Including Grassland	Steve Finch, Alison Samuel, Gerry P. Lane	Lockhart & Wiseman's Crop Husbandry Including Grassland Nich Edition
Agriculture	Environmental impacts of Modern Agriculture	Editors: R. E. Hester, R. M. Harrison	Feedpits J Link A R Securit of C F Lee 20 Control Control C F Lee Control C Feedpits C Feedpits C Feedpits C Feedpits C Feedpits C F
Horse Management (Equine)	Complete Horsemanship Volume 3	British Horse Society	Exercise and a second sec
Horse management (Equine)	The BHS Complete Manual of Horse and Stable Management	Josephine Batty-Smith	THE BHS COMPLETE MANUAL OF HORSE AND STABLE MANAGEMEN

Horse Management (Equine)	The BHS Manual for Coaching and Teaching Riding	Islay Auty	THE BHS MANUAL FOR COACHING AND TEACHING RIDING
		81.200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Horse Management (Equine)	The BHS Complete Manual of Equitation: The Training of Horse and Rider	Patrick Print	THE BHS COMPLETE MANUAL OF EQUITATION The Training of Horse and Rider
Land & Wildlife Management	Essentials of Ecology	Colin R. Townsend, Michael Begon, John L. Harper	ESSENTIALS OF ECOLOGY
Land & Wildlife Management	Managing Habitats for Conservation	William J. Sutherland	Managing Habitats broc Conservation 
Land & Wildlife Management	The Diversity of Life	Edward O. Wilson	The Diversity of Life Edward O. Wilson

Land & Wildlife Management	Ecological Census Techniques: A Handbook	William J. Sutherland	
Land & Wildlife Management	Collins Complete Guide to British Animals	Paul Sterry	COLLINS COMPLETE CUIDE TO BRITISH ANIMALS
Land & Wildlife Management	Collins Complete Guide to British Birds	Paul Sterry	Andreade parter and the analysis of the analys
Land & Wildlife Management	Planet Earth (Documentary). Available at: https://www.bbc.co.uk/iplayer/episode/b0074t5 y/planet-earth-11-ocean-deep	BBC	planet earth
Land & Wildlife Management	Planet Earth II (Documentary). <b>Available at:</b> <u>https://www.bbc.co.uk/iplayer/episode/b0861m</u> <u>8b/planet-earth-ii-6-cities</u>	BBC	PLANET EARTH II
Land & Wildlife Management	Blue Planet II (Documentary). Available at: <u>https://www.bbc.co.uk/iplayer/episode/b09l2fgr</u> <u>/blue-planet-ii-oceans-of-wonder</u>	BBC	BLUE PLANET II

Land & Wildlife Management	Seven World, One Planet (Documentary). <b>Available at:</b> <u>https://www.bbc.co.uk/iplayer/episode/m000ctb</u> <u>n/seven-worlds-one-planet-continents-of-wonder</u>	BBC	
		1.11.11	
Land & Wildlife Management	Wildlife Trusts' Website (for research) https://www.wildlifetrusts.org/	The Wildlife Trusts	THE ildlife TRUSTS
Land & Wildlife Management	The Conservation Volunteers – TCV website (for research) <u>https://www.tcv.org.uk/</u>	TCV	The Conservation Volunteers
Land & Wildlife Management	International Union for Conservation of Nature – IUCN website (for research) <u>https://www.iucn.org/</u>	IUCN	IUCN
Land & Wildlife Management	Chartered Institute of Ecology and Environmental Management – CIEEM website (for research) https://cieem.net/	CIEEM	CIEEM

# Additional Resources:

Brackenhurst College Course web page: https://www.ntu.ac.uk/study-and-courses/college-courses

**College Course Guide:** <u>https://www.ntu.ac.uk/\_\_data/assets/pdf\_file/0018/113742/8165\_Brack-FE-brochure-2020-web-EDIT.pdf</u>

**College Course Application Form:** <u>https://www.ntu.ac.uk/\_\_data/assets/pdf\_file/0025/914614/FE-application-form-2020-EDIT.pdf</u>

**FE Course Search:** <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course?sort=title&&level-of-study=Further+education</u>

Schools Liaison Webpage – Brackenhurst resources including FAQs and videos: <u>https://www.ntu.ac.uk/study-and-courses/college-courses/schools-liaison</u>

NTU Virtual Tour: https://virtualtour.ntu.ac.uk/

NTU Virtual Open Day booking: https://www.ntu.ac.uk/study-and-courses/open-days/find-an-open-day

Fees & Funding: https://www.ntu.ac.uk/study-and-courses/college-courses/fees-and-funding

Brackenhurst Video: https://www.youtube.com/watch?v=7Wv\_AgwupPE

College courses video: https://www.youtube.com/watch?v=sMAjqENQGFk

## Course Pages:

**College Course Search:** <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course?level-of-study=Further%20education&year-of-study=2020&sort=title</u>

Level 2 Diploma Agriculture: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/agriculture-level-2-diploma</u>

Level 3 Extended Diploma Agriculture: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/agriculture</u>

Level 2 Diploma Animal Care: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/animal-care</u>

Level 3 Extended Diploma Animal Management: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/animal-management</u>

Access to Higher Education Diploma in Land-based Studies – Animal Science: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/access-to-higher-education-diploma-in-land-based-studies-animal-science</u>

Level 3 Extended Diploma Equine Management: <u>https://www.ntu.ac.uk/study-and-courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/horse-management</u>

Level 3 Extended Diploma Land & Wildlife (Wildlife Conservation): <u>https://www.ntu.ac.uk/study-and-</u> courses/courses/find-your-course/animal-rural-environmental-sciences/fe/202021/land-and-wildlife-management

# Contact Us:

FE Enquiries: fe.enquiries@ntu.ac.uk (0115 848 5299)

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Accommodation Team: <a href="mailto:brackenhurstaccomodation@ntu.ac.uk">brackenhurstaccomodation@ntu.ac.uk</a>