

AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

Animal Science  
STUDY ABROAD

UCEAP

SUMMER

OTHER

AFRICA

University of Ghana

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Animal Science

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Avian Sciences

Animal Science &  
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Agricultural &  
Environmental  
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Nutrition

Academic Advising for  
Undergraduates

3rd Floor, Room 3202

Environmental  
Toxicology

Advising

Room 4111

Peer Advising  
Room 4204



COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

Animal Science  
STUDY ABROAD

UCEAP

SUMMER

OTHER

AUSTRALIA

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Environmental  
Toxicology

Advising

Room 4111

Peer Advising  
Room 4204



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INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES



AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

Animal Science  
STUDY ABROAD

ICEAP

SUMMER

OTHER

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University of Hong Kong



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Education

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Nutrition

Academic Advising for  
Undergraduates

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Environmental  
Toxicology

Advising

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Peer Advising  
Room 4204



COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





Animal Science  
STUDY ABROAD

UICEAP

SUMMER

OTHER



AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

DENMARK

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Student Name

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Animal Science

Advising Center

Animal Science

Avian Sciences

Animal Science &  
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Education

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Nutrition

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Undergraduates

3rd Floor, Room 3202

Environmental  
Toxicology

Advising

Room 4111

Peer Advising  
Room 4204



COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





Animal Science  
**STUDY ABROAD**

**ICEAP**

SUMMER

OTHER



AFRICA

AUSTRALIA

CHINA

DENMARK

**IRELAND**

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

**IRELAND**

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Education

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**Nutrition**

Academic Advising for  
Undergraduates

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Toxicology**

Advising

Room 4111

Peer Advising  
Room 4204



COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





Animal Science  
STUDY ABROAD

UCEAP

SUMMER

OTHER



AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

NEW ZEALAND

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Animal Science

Avian Sciences

Animal Science &  
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Environmental  
Education

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## Nutrition

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## Environmental Toxicology

Advising

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INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES



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Student Name

CLICK TO CONTINUE

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Animal Science

Avian Sciences

Animal Science &  
Management

Agricultural &  
Environmental  
Education

Rooms 1202 A-E

Hours M-F 9-12, 1-4

## Nutrition

Academic Advising for  
Undergraduates

3rd Floor, Room 3202

## Environmental Toxicology

Advising

Room 4111

Peer Advising  
Room 4204



AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

Animal Science  
STUDY ABROAD

UCEAP

SUMMER

OTHER

COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





Animal Science  
**STUDY ABROAD**

ICEAP

SUMMER

OTHER

AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

**SOUTH KOREA**

FAQ

## **SOUTH KOREA** **Yonsei University**

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## **Nutrition**

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Advising

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Peer Advising  
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COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





AFRICA

AUSTRALIA

CHINA

DENMARK

IRELAND

NEW ZEALAND

SCOTLAND

SOUTH KOREA

FAQ

*Animal Science*  
**STUDY ABROAD**

UCEAP

SUMMER

OTHER

FAQ

Frequently asked Questions



**CLICK TO CONTINUE**

## Animal Science

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Animal Science

Avian Sciences

Animal Science &  
Management

Agricultural &  
Environmental  
Education

Rooms 1202 A-E

Hours M-F 9-12, 1-4

## Nutrition

*Academic Advising for  
Undergraduates*

3rd Floor, Room 3202

## Environmental Toxicology

*Advising*

Room 4111

*Peer Advising*

Room 4204



COURSES

INTERNSHIPS  
& CAREERS

STUDY ABROAD

PRE VETERINARY

HANDOUTS

PEOPLE AND  
PLACES





## Animal Science STUDY ABROAD

UICEAP

SUMMER

OTHER

COURSES



AFRICA

UNIV. OF GHANA

GENERAL

ANM

ANS

BACK

INTERNSHIPS  
& CAREERS



STUDY ABROAD

## ANIMAL SCIENCE STUDY ABROAD

University of Ghana: ANM CLASSES

2015-2016

\*\* Parentheses indicate the DE Davis equivalent class  
R.E.= restricted elective

### ANM 414-Applied Animal Breeding (R.E.)

Principles of selection, genetic effect of selection; selection for different kinds of genetic action. Basis for selection. Methods of selection. Response to selection and factors affecting it. Systems of mating. Systems of breeding and selection for the genetic improvement of various species of livestock. Special problems of implementing genetic improvement of livestock programmes in the tropics (with particular reference to Ghana). Open nucleus breeding schemes.

### ANM 415-Applied Animal Nutrition (R.E.)

The digestion of starch and protein in the pig and cattle - glands, organs, digestive juices, enzymes and end products. Bioenergetics and partition of energy within the animal. Evaluation of feeds, in vivo, in vitro and in sacco. Use of metabolizable Energy concept in Animal Feeding. Protein in feeds - measures of protein quality for monogastrics and Ruminants. Ration formulation and Nutrient Requirements for body functions.

### ANM 416-Ruminant Animal Production (R.E.)

Small Ruminant Production: The millennium development Goals and the Livestock revolution - the role of the Animal Scientist. The basic of the small ruminant production on the coastal savanna of Ghana; sustainable dry season feeding strategies; Improving the reproductive efficiency of breeding ewes and rams. Other management practices - Fencing, creep feeding, weaning and culling of cullitis on a small ruminant farm. Dairy Cattle Production: Importance of milk and dairy products. Breeds of dairy cattle - characteristics and production. Status of the dairy industry in Ghana. Constraints to milk production in Ghana. Essentials of a profitable dairy operation. Milk yield and composition and factors affecting them. Management and milking of the dairy herd. Managing dairy cattle for high fertility. Forage Production, Management and Conservation: Types of pastures; natural, cultivated. Management and improvement practices of grasslands; reseeding, fertilization, water supply, weed control, burning, supplementary feeding; outputs of grazing; stocking rate, carrying capacity, grazing capacity, overgrazing. Grazing management systems; continuous, rotational, zero, deferred. Forage conservation, aims, techniques, socioeconomic and technical considerations, haymaking, silage making.

Page 1 of 2



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Avian Sciences

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Agricultural &  
Environmental  
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PLACES