Anatomy and Neuroscience for Transition Year students

Wednesday 8th & Thursday 9th May 2024

This two-day course explores the structure and function of the human body at multiple levels. Normal structure and function are presented as a starting point, before the effects of different factors (including disease, lifestyle habits such as alcohol use and smoking, etc) on these structures are examined, followed by discussion about what kind of changes in an individual or a population can be caused by effects on these structures.

Delivery of course material includes tutorials, small group learning, and dissection-based learning. Lab sessions will primarily focus on demonstrating gross anatomy with previously-dissected human cadavers and cadaveric parts. Hands-on dissections will include an individual dissection of a pig heart. Students will also gain some research lab experience in our facility and get to observe neuroscience researchers at work, and will be shown cellular anatomy (histology) on microscopes in the anatomy lab.

We will also be holding a short careers workshop, with lightning talks from staff and postgraduate students about the often varied and interesting paths to their current roles in medicine and the biological sciences.

The course is appropriate for students interested in learning more about human anatomy than their school courses typically have time for, particularly for students interested in pursuing medicine, medical lab science, biological sciences, or other healthcare fields as their primary course of study.

The course organiser is Chief Technical Officer Dr Sue Grenham, with assistance throughout from the department's skilled technical staff and medical demonstrators.

****Please be aware that students enrolled on this course will be interacting with human cadavers and human body parts, and will also be completing dissection(s) of animal tissue which involves the supervised use of sharp instruments****

If you wish to apply, please return the application form, parental consent form and declaration form by 26th January 2024 to:

Dr Sue Grenham

Room 3.56 Western Gateway Building,

University College Cork,

Western Road,

Cork.

University College Cork, Ireland
Coláiste na hOllscoile Corcaigh

Department of Anatomy & Neuroscience
University College Cork

Anatomy and Neuroscience for Transition Year students
APPLICATION FORM

Name:

Date of birth:

Address:

School name and telephone no:

Transition Year Coordinator:

Science subjects chosen for Leaving Cert:

Reasons for Applying and other relevant achievements (200-300 words).
In particular, the applicant should state why he/she is interested in this TY placement and mention any attributes which especially qualify him/her for a place on this Transition Year programme.

Hobbies/Interests:

What other TY programmes/work experience have you applied or been accepted for?

Anatomy and Neuroscience for transition year students
Parental Consent Form

Dear Parents/ Guardians

By signing this letter, you consent to the conditions as outlined and affirm that you, as the parent or legal guardian, grant permission for your child to work at University College Cork in the designated laboratories.

- I grant my child _____ permission to participate in the Anatomy and Neuroscience for Transition Year Programme described above at University College Cork. I am aware that my child will be working with animal and human tissue and with sharp instruments.

- I grant permission to the programme and its staff to treat as necessary and/or secure proper treatment for my child in case of injury. Emergency treatment will be given at Cork University Hospital. I understand that University College Cork does not carry liability, medical or property damage insurance in these cases, and that the primary responsibility in case of accident will be provided by myself and/or my own insurance. Students will need an insurance letter of indemnity from your school/college before starting the programme. The letter must be on insurer's headed paper and must indicate the amount that the indemnity covers in both employers and public liability.

- I grant/do not grant (cross out as appropriate) permission for the use of photographs and/or any video footage that may be taken of _____ (student's name) on the Department or University website and other associated media and social media channels. Children will possibly be named along with their School name.

The Department of Anatomy & Neuroscience also requests your permission to follow up at a future date with participants of the Anatomy for Transition Year programme, particularly in relation to the subjects/courses/careers they choose, having completed the Leaving Certificate. This is to facilitate us in determining whether our Education & Public Engagement activities are having any impact on subject, 3rd level courses and career choices.

- I grant/do not grant permission to be contacted in the future regarding my child's participation in the programme.

PARENT NAME _____

PARENT SIGNATURE _____

DATE _____

Anatomy FLAME Laboratory Code of Conduct

Access to the Anatomy FLAME laboratory is a privilege. Cadavers and cadaveric specimens are to be treated with respect at all times.
If you know someone who has donated their body to us, please let us know as soon as possible.

It is your responsibility to be aware of, and adhere to, the following rules:

Only registered students of the Anatomy and Neuroscience for Transition Year programme are allowed to enter the Anatomy FLAME laboratory.

Cameras, mobile phones, tablets, or other electronic devices are strictly forbidden within the Anatomy FLAME laboratory.

Eating and drinking is not permitted in the Anatomy FLAME laboratory.

Due to the potential biological, chemical and physical hazards in the FLAME laboratory, for your own Health and Safety, and that of others, it is advised that:

Always follow the instructions given to you by the FLAME Lab staff.

Suitable protective kit to be worn whenever working with cadaveric material.

You must wear shoes / boots with an enclosed toe.

Long hair is to be neatly tied back.

All instruments to be returned cleaned to the correct container when you have finished with them.

Any accident or illness during a session should be reported to the nearest member of the Anatomy FLAME staff.

In the event of a fire alarm, please follow the instructions given to you by a member of staff.

If you have any concerns, advice can be sought from Dr Sue Grenham, Chief Technical Officer of the FLAME Lab, s.grenham@ucc.ie.

In the case of pregnancy or suspected pregnancy, it is advised that you do not enter the lab.

If you have a chronic medical condition, we recommend you seek advice from your GP before entering the lab.

EMERGENCY CONTACT DETAILS

Parent/Guardian 1
Name:

Home telephone: Work telephone: Mobile Number:

Parent/Guardian 2
Name:

Home telephone: Work telephone: Mobile Number:

Department of Anatomy and Neuroscience
Research Laboratory Rules

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- White lab coats MUST be worn at all times in the lab. Open-toed shoes should not be worn.
- Wear gloves at all times; if skin-sensitive inform the technician. Wear masks and safety glasses if handling hazardous chemicals. Remove one glove to open doors when walking between labs.

HAZARDS

- Individual laboratories vary in the types of hazards present. While working in our research labs you may encounter these potential hazards: for example, animal, biological, chemical, physical, or radiological hazards.
- Check hazard symbols on labels before using any chemicals. ALL chemicals have some hazard level associated with them.
- During your time with us you will be made aware of our standard operating procedures and any potential hazards and risk assessments of the procedures you will be performing.
- Several of our instruments have very sharp blades.
- Broken glass should be disposed of quickly and carefully – please inform the technician of any breakages immediately.

GENERAL CLEANLINESS

- Your immediate work area must be cleaned and everything returned to its rightful place after use. Please use bench coat when necessary.
- Sink Areas: Glassware must be rinsed and cleaned before being put away.

WASTE DISPOSAL

- There are a number of different bins in the research lab for chemical, domestic, glass, and biological waste. Always follow the technician's instructions when disposing of anything.

SUPERVISION and TRAINING

- All students must attend the Lab Health & Safety induction session on Day 1 of this programme.
- Minors are not permitted to work unsupervised in the lab.
- If you are uncertain about any aspect of an experiment please let your supervisor know.

COMMON SENSE

You have it, use it! When in doubt contact a technician.

Anatomy and Neuroscience for transition year students
Safety Declaration

I, _____, (student's name) have read and agree to follow all of the safety rules set forth in the training and policies of Department of Anatomy & Neuroscience.

I will attend the Laboratory safety training and ask questions in relation to anything I don't understand regarding Laboratory Safety. I realise that I must obey these rules to ensure my own safety, and that of my fellow students and instructors.

I will co-operate to the fullest extent with my instructors and fellow students to maintain a safe lab environment. I will also closely follow the oral and written instructions provided by the instructors.

I am aware that any violation of this safety declaration that results in unsafe conduct in the laboratory or misbehaviour on my part, may result in being removed from the laboratory and/or dismissed from the programme, and will be reported to my school.

Student Signature _____

Date _____

Dear Parent or Guardian,

We feel that you should be informed regarding our effort to create and maintain a safe laboratory environment. With the co-operation of the instructors, parents, and students, a safety instruction program can prevent and correct possible hazards.

You should be aware of the safety instructions your child will receive before engaging in any laboratory work. Please read the safety rules provided.

No student will be permitted to perform laboratory activities unless this contract is signed by both the student and parent/guardian.

Your signature on this declaration indicates that you have read these safety documents, are aware of the measures taken to ensure the safety of your child in the laboratory, and will instruct your child to uphold his/her agreement to follow these rules and procedures in the laboratory.

Parent/Guardian Signature _____

Date _____