



Choosing your Moderatorship

Professor Andrew Jackson

Director TR060

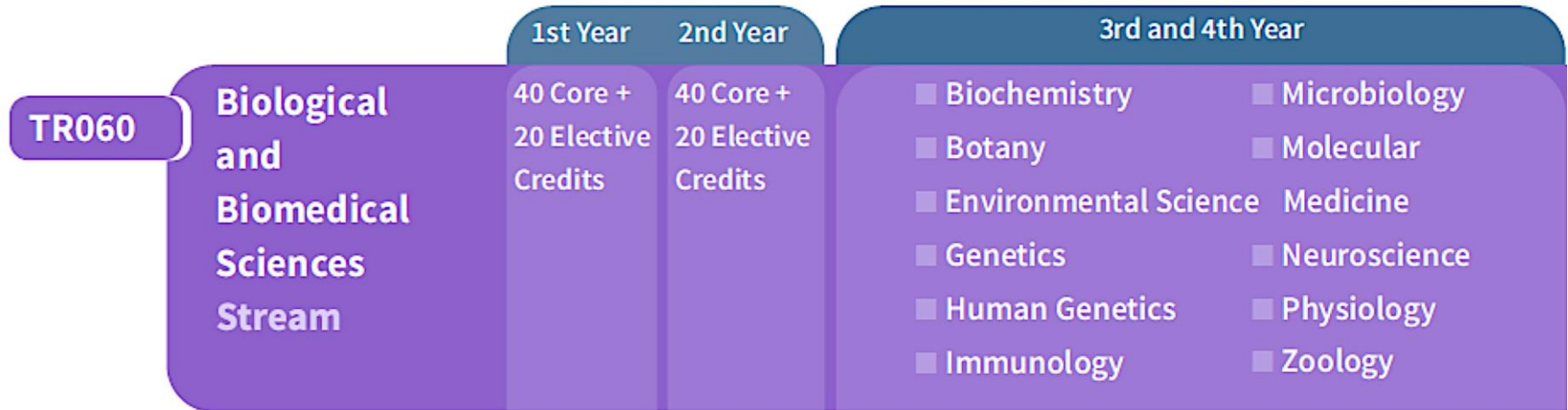
Biological and Biomedical Sciences



<https://www.tcd.ie/Science/TR060>



TR060 Biological and Biomedical Sciences





2. Specialisation: The Range of Moderatorship Disciplines

Molecular Medicine

Immunology

Environmental
Sciences

Biochemistry

Zoology

Neuroscience

Botany

Microbiology

Physiology

Genetics

Human
Genetics



des higgins

University College Dublin

Verified email at ucd.ie - [Homepage](#)

[Evolution](#) [Bioinformatics](#) [Sequence Alignment](#) [Genomics](#)

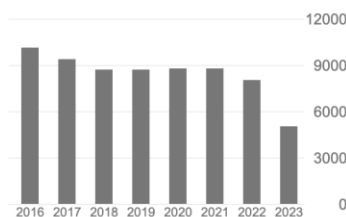


TITLE	CITED BY	YEAR
CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice JD Thompson, DG Higgins, TJ Gibson Nucleic acids research 22 (22), 4673	71702	1994
The CLUSTAL_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools JD Thompson, TJ Gibson, F Plewniak, F Jeanmougin, DG Higgins Nucleic acids research 25 (24), 4876-4882	45385	1997
Clustal W and Clustal X version 2.0 MA Larkin, G Blackshields, NP Brown, R Chenna, PA McGettigan, ... bioinformatics 23 (21), 2947-2948	31146	2007
Fast, scalable generation of high-quality protein multiple sequence alignments using Clustal Omega F Sievers, A Wilm, D Dineen, TJ Gibson, K Karplus, W Li, R Lopez, ... Molecular systems biology 7 (1), 539	14300	2011

Cited by

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Citations	213791	48305
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3 articles	55 articles
not available	available

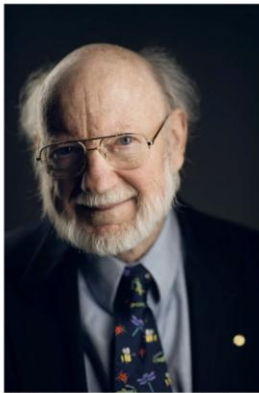
Based on funding mandates

Botany → Zoology → Genetics → Biochemistry → Bioinformatics

<https://trinitynews.ie/2020/10/careers-in-science-a-conversation-with-irelands-most-cited-scientist-ever-professor-desmond-higgins/>



William C. Campbell Facts



© Nobel Media AB. Photo:
A. Mahmoud

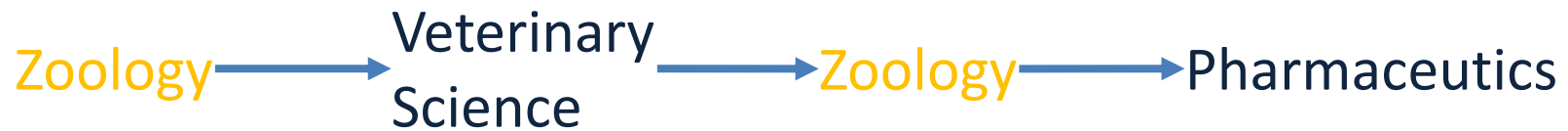
William C. Campbell
The Nobel Prize in Physiology or Medicine 2015

Born: 28 June 1930, Ramelton, Ireland

Affiliation at the time of the award: Drew University,
Madison, NJ, USA

Prize motivation: “for their discoveries concerning a novel
therapy against infections caused by roundworm parasites”

Prize share: 1/4





Modules: Core – Open – Trinity Elective

CORE Module - 40 Credits:

Fundamental Principles of the Core Discipline

OPEN Module - 10 or 15 Credits:

Fundamental Principles and Knowledge from Related Disciplines that provide additional understanding of the Core Discipline

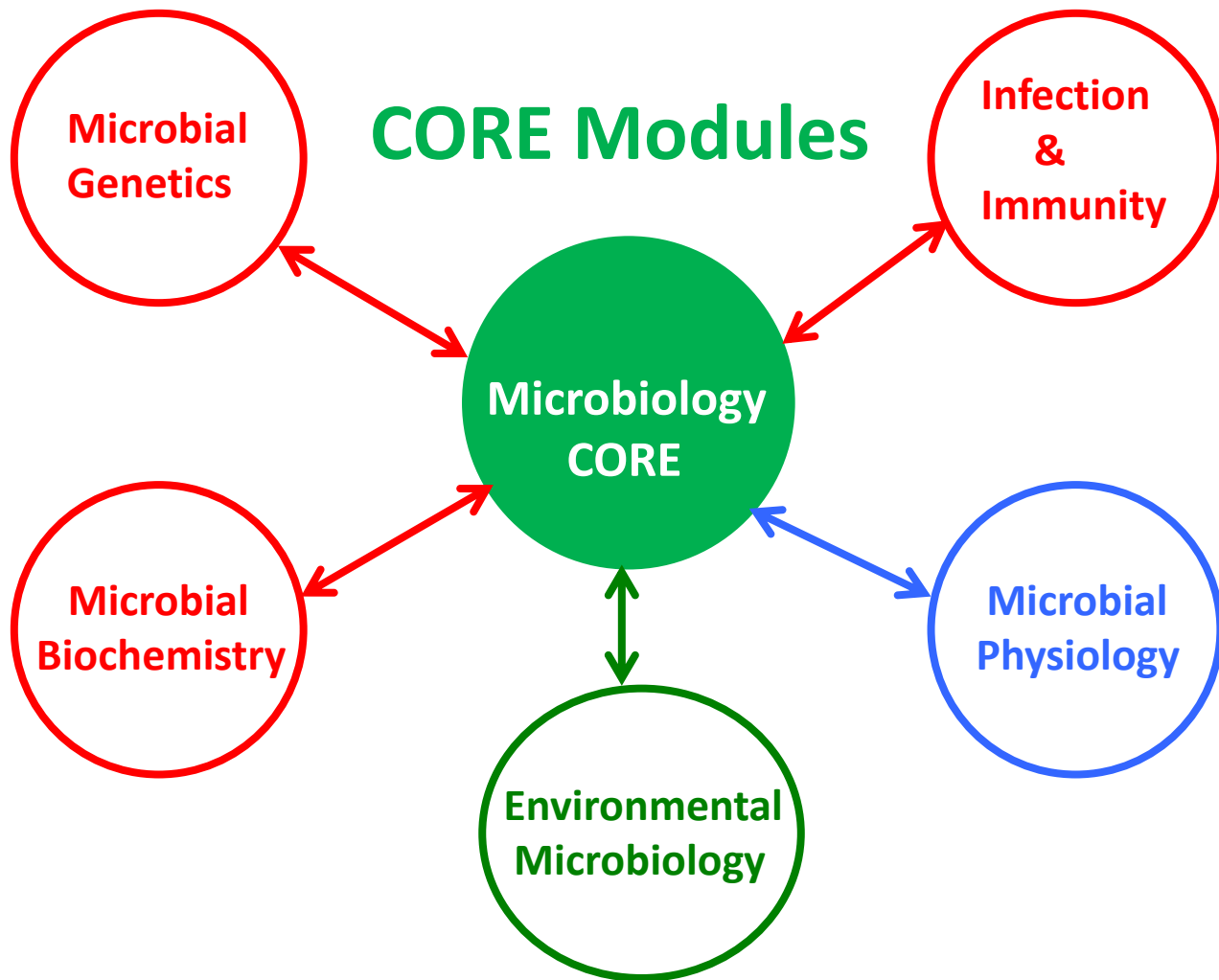
Trinity Elective (TE) – 5 OR 10 Credits (One TE per Semester)

Study a Topic outside Science to provide breadth to your Education

Study a Topic in which you are interested - “Just for Fun”

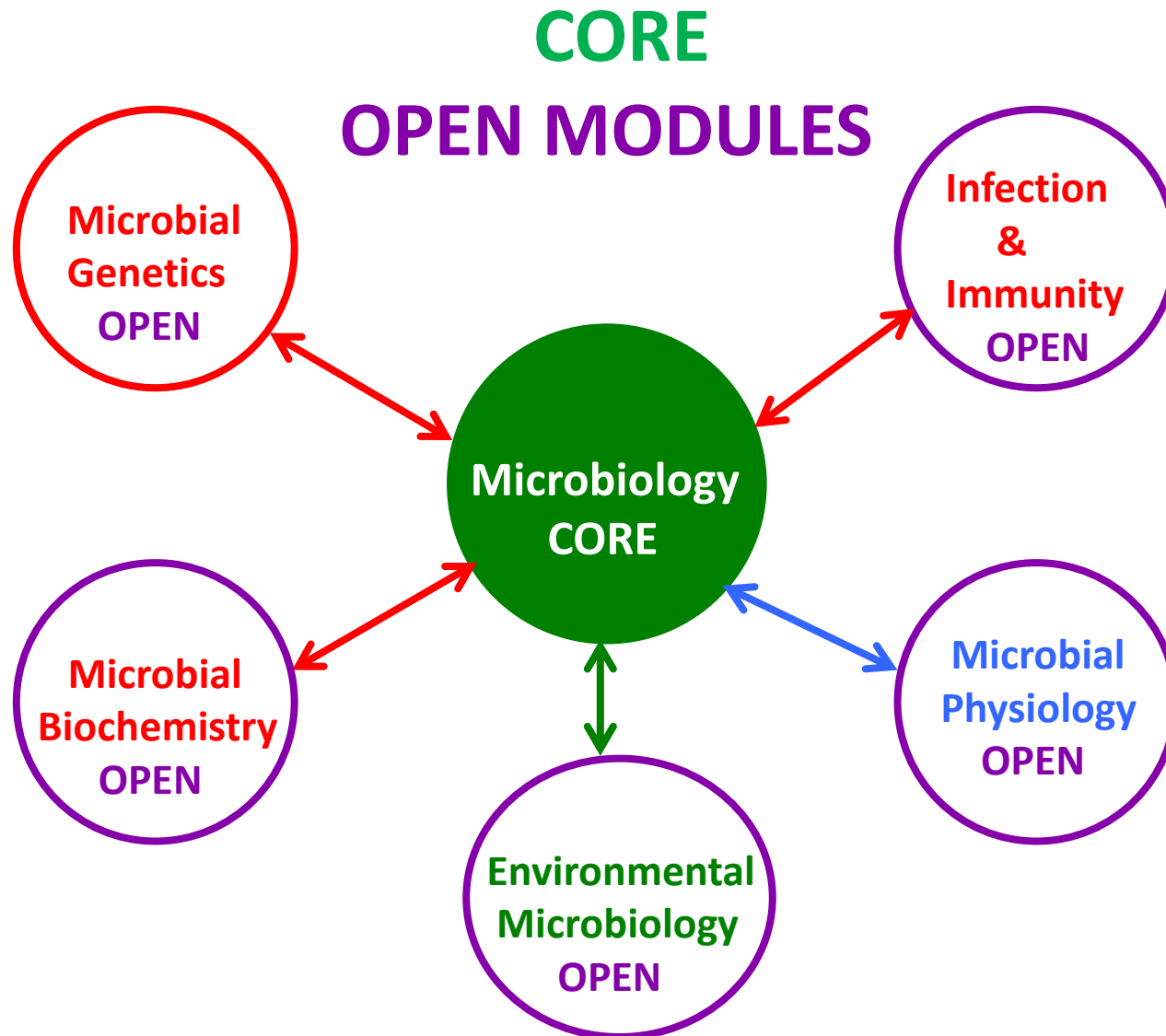


Moderatorship Disciplines are Interconnected





Moderatorship Disciplines are Interconnected





3. Trinity Electives – Choice

“Study a topic in which you are interested – Just For Fun”

48 Trinity Elective Modules:

- **Several Language & Culture:**

Japanese, Chinese, Irish, Latin, Polish, Spanish,
Sign Language, German, Italian, Korean, Black Studies,
Middle East and North Africa etc...

- **Energy**

- **Planets to the Cosmos**

- **Design, Creativity & Technology**



4. Junior Sophister Year: Module Structure

Moderatorship?	
Semester 1?	Semester 2?
Core Modules?	
Core Module 1 (10 credits)?	Core Module 1 (10 credits)?
Core Module 2 (10 credits)?	Core Module 2 (10 credits)?
Open Modules Scenario I?	
Open Module 1 (5 credits)?	Open Module 2 (5 credits)?
Trinity Elective (5 credits)?	Open Module 2 (5 credits)?
Open Modules Scenario II?	
Open Module 1 (5 credits)?	Open Module 2 (5 credits)?
Open Module 3 (5 credits)?	Trinity Elective (5 credits)?
Open Modules Scenario III?	
Open Module 1 (5 credits)?	Open Module 2 (5 credits)?
Trinity Elective (5 credits)?	Trinity Elective (5 credits)?



Important Websites

TR060 Biological and Biomedical Sciences:

Information on the allocation processes and deadlines

<https://www.tcd.ie/Science/TR060/junior-sophister/>

[**TR060 Biological and Biomedical Sciences Sophister Course
Programme Handbook 2024-25:**](#)

[**Online choice of Moderatorship Form**](#)



5. Choosing your Moderatorship: Considerations

- **Inform yourself about each discipline:**
Sophister Programme Handbook Online JS Course Advisors
- **Choose a Moderatorship that plays to your strengths**
What are your strengths? Chemical, mathematical, systems,
field work...
- **Which subjects most interest you?**
- **Which topics in Freshman Biology Modules did you most enjoy?**
- **Which topics did you NOT enjoy? - Find very challenging?**
- **There is (a lot of) overlap between Moderatorships**
- **All B.A. (Mod) degrees are equivalent**

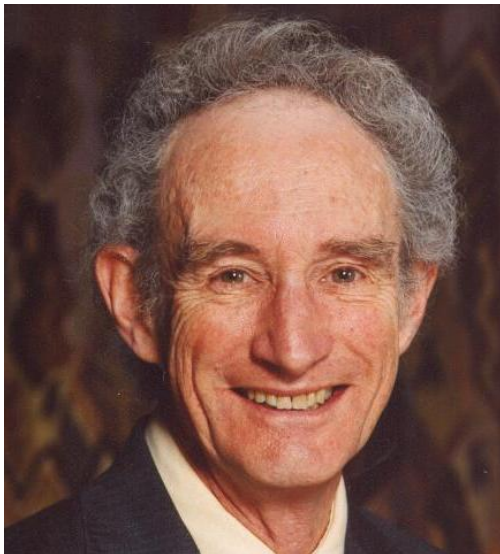


ENVIRONMENT

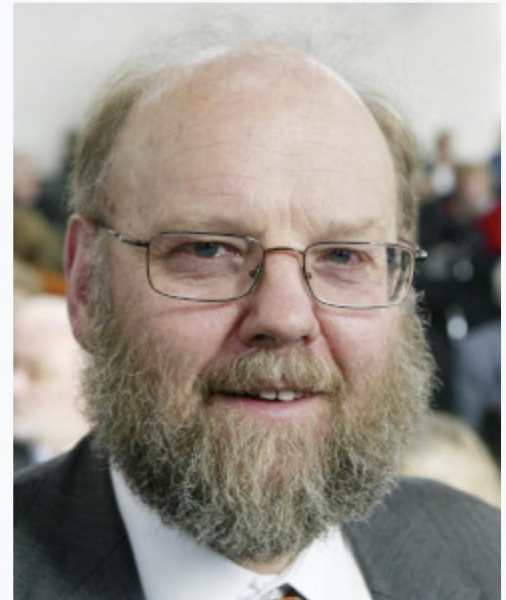
Climate Change Is Altering Animal Brains And Behavior – A Neuroscientist Explains How

Animal nervous systems may lose their adaptive edge with climate change.

By Sean O'Donnell, Drexel University
Nov 20, 2023 7:00 PM



Lord Bob May
Chem Eng &
Theor Phys
Famous
mathematical
ecologist



Professor
Sir Ian Wilmut
OBE FRS FMedSci FRSE

Agriculture
Cyropreservation of semen
Animal cloning



Moderatorship Choice Form

available at

<https://www.tcd.ie/Science/TR060/junior-sophister/>

YOU MUST Rank your choice from 1 to 11:

Subject A - 1

Subject B – 2

Subject C – 3

Subject D – 4

Subject E – 5

Subject F – 6

Subject G – 7

Subject H – 8

Subject I – 9

Subject J – 10

Subject K – 11

Closing Deadline: 18th May 2025



Quota for each Moderatorship. Total of 252 Places

Moderatorship	Quotas
Biochemistry	24
Botany	24
Environmental Sciences	25
Genetics	14
Human Genetics	21
Immunology	20
Microbiology	30
Molecular Medicine	18
Neuroscience	22
Physiology	18
Zoology	36



6. Allocation of Moderatorship Places

- There are 252 Moderatorship places
- Each Moderatorship has a quota - see details in Handbook
- Allocation is a competitive process
- Places are allocated rigorously on (i) Performance in Senior Freshman Examination AND (ii) Student Choice
- Choice of Open Modules in SF is NOT considered
- Allocation is made solely by the Science Course Office
 - see precise details on pages 3-5 Sophister Course Handbook

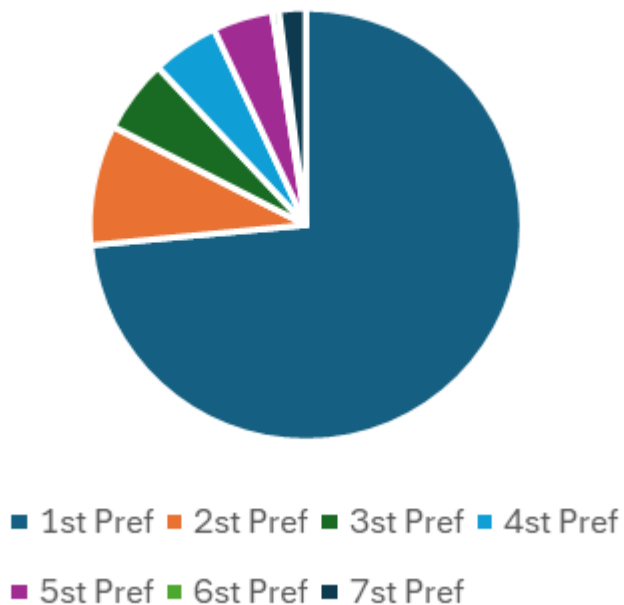
“The better your performance in SF Examinations.

.....the more likely you are to get your Number 1 choice of Moderatorship”



7. Allocation of Moderatorship Places 2023-2024 AY

Allocation by Preference

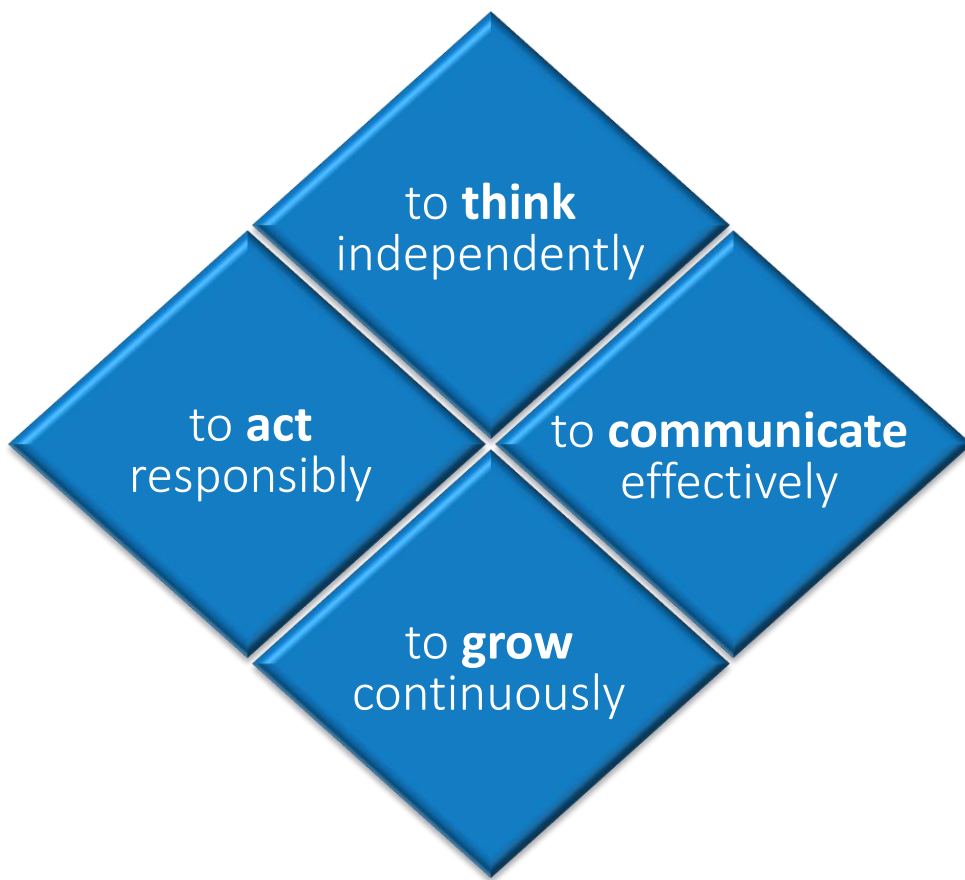


	No. Allocated	Proportion
1st Pref	147	73.50%
2nd Pref	18	9.00%
3rd Pref	11	5.50%
4th Pref	10	5.00%
5th Pref	9	4.50%
6th Pref	1	0.50%
7th Pref	4	2.00%



All Moderatorship Disciplines lead to equivalent B. A. (Mod)

8. Trinity College Dublin Graduate Attributes



Thank You

