Welcome to your Neuroscience offer holder event
School of Physiology, Pharmacology and Neuroscience

Neuroscience

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Welcome
Professor Frankie MacMillan
Admissions Tutor

Content
✓ What and how will I study?
✓ Why study at Bristol?

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There is direct entry onto B140 and B141 but students transfer from B140 onto the MSci with study in Industry when you are in Bristol
Year 1

Mandatory Units
➢ Introduction to Neuroscience  
  Learn the basics of the nervous system  
➢ Functional Neuroanatomy  
  How is the brain organised?  
➢ Physiology 1A and 1B  
  Learn how the different body systems work  
➢ Pharmacology 1A  
  How do drugs interact with receptors

Choose One Optional unit. Most popular choices: (There may be limitations on combinations due to timetabling)
  • Anatomical Science (2 units)  
  • Psychology (2 units)  
  • Biochemistry (2 units)  
  • The Science of Happiness

Programme Enhancement Activities
In addition to mandatory units, we run a programme of activities to help support your transition to University and engagement with your subject

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Year 2

Mandatory Units:

➢ Neurophysiology
   Understanding of high order nervous function e.g. special senses

➢ Pharmacology of the Nervous system
   How do drugs interact with the nervous system?

➢ Techniques in Neuroscience
   Explore the techniques used in studying neuroscience

➢ Biomedical sciences skills unit
   Employability - C.V. and interview preparation
   Data interpretation statistical analysis
   Enterprise skills

Plus choose 2 Optional units:

Most popular choices:
• Integrative Physiology
• Human Anatomy
• Pharmacology of Body systems
• Or an open unit e.g. modern language, Big Ideas in Science

Your mean year 2 mark counts 25% towards your BSc degree mark

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Year 1 and 2

How will I be taught?
You will take 3 units at a time in each teaching block
In each unit there are typically:

• 3 lectures a week
• 1 practical a week
• 1 tutorial/workshop every other week

How will I be assessed?
End of unit assessments are held in January for teaching Block 1 units and in May/June for teaching Block 2 units

Typically:
✓ Exams count 70% and coursework 30%
✓ Some optional units are all coursework-based

Focus is on developing learning skills and understanding core concepts.

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Year 3 BSc

Three research-led units, chosen from e.g.:

- Synaptic Cell Biology
- Brain and Behaviour
- Neuroscience of Pain
- New Horizons in Medicine
- Learning and Memory
- Rhythms of Life

Skills unit

- Experimental design
- Data analysis
- Research papers

Research project

Experimental, literature review and experimental design, teaching, public engagement with science

Units are research-led which means you are taught subject areas by staff that are experts.

Assessment via: coursework, unit exams, project dissertation and project talk. 75% of degree mark for BSc.

There is a wide variety of different projects to choose from.

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Year 3 BSc Research projects

Examples of previous projects:

- Mapping pheromonal responses in the brain
- Modulation of synaptic plasticity by muscarinic acetylcholine receptors
- Designing reagents for Drugs of Abuse testing
- Investigating links between physical activity and wellbeing
- The use of EEG electrodes on people with different hair types.

There is a wide variety of different projects to choose from.

Lab based research  Teaching Focussed  Literature review and experimental design
Data analysis  Public Understanding of Science

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Year 4 MSci

Units:
• Advanced project planning
• 14-week full time Research project
• Advanced creative communication
• Ideas and Enterprise

Focus is on:
• Project planning and execution
• Group work
• Communication skills

Ideal if you are thinking of doing a PhD or research career

Minimum grade requirements
Year 1: 40
Year 2: 60
Year 3: 50
Year 4: 50

Final year Assessment via coursework.
Contributions of marks to degree
Year 1 – 0%
Year 2 – 10%
Year 3 – 40%
Year 4 – 50%
MSci with year in Industry
Internal Transfer from BSc

• Industrial placement taken between years 2 and 3
• Return to complete year 3 as in BSc
• Research project is replaced by a grant proposal task

Why do the year in Industry?
• Experience how the Biomedical industry operates
• Would you enjoy full-time research?
• New skills: teamwork, target setting and meeting deadlines
• Financial benefits

Apply for placements during second year

Contributions of marks to degree
Year 1 – 0%
Year 2 – 15%
Year 3 – 10%
Year 4 – 75%

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Why Study Neuroscience at Bristol?

Continual commitment to excellence in Teaching and Research

On-line resources to support practical teaching

State of the art dissection facilities

Virtual microscope

Human patient simulator – 'Athena'

eBioLabs
Integrated tools for laboratory teaching
Why Study Neuroscience at Bristol?

- Small cohort
- Excellent support
- Programme Enhancement Activities
- We support your transition to university
- Innovative teaching

**Times good uni guide 2020**

Anatomy & Physiology – 10th

**Guardian 2020**

Pharmacology 5th

Anatomy and Physiology 4th

2019

- Pharmacology: 95% - overall satisfaction
- Physiological science: 100% - Staff are good at explaining things
- Neuroscience: 95% - staff are good at explaining things
Thank you

Any questions?