

**BC98
Biomedical Sciences**



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<http://www.medsci.ox.ac.uk/study/bms>

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Biomedical Sciences



CONTACT US

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South Parks Road
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www.medsci.ox.ac.uk

ABOUT THE COURSE

The undergraduate course in Biomedical Sciences is a broad and flexible programme, ranging from genetics and molecular and cellular biology to integrated systems physiology, neuroscience and psychology. Students

APPLYING

Information on the admissions process, including open days, introductory reading, selection criteria, and interviews. [Find out more](#)

FAQS

I did better than expected in my A-levels. Does Oxford University take part in the clearing and adjustment process? Can I apply for deferred entry to the course?

Biomedical Sciences at Oxford

- a 4-year MBiomedSci Master's degree course
- after completing the third year, students may exit the course with a BA degree in: *Cell and Systems Biology OR Neuroscience*
- integration of biological and molecular processes underlying modern biomedical science
- focus on research: the experimental basis for our current understanding

What can you do with it?

Master's degree



Graduate study
Ph.D project
**Pharmaceuticals/
biotechnology**
Graduate-entry Medicine

Teaching Centre

University teaching takes place in a purpose-built £8m teaching centre, that contains a lecture theatre and seminar rooms practical classrooms and CAL facilities



Course structure

	Year 1			Year 2			Year 3			Year 4		
	MT	HT	TT	MT	HT	TT	MT	HT	TT	MT (ex.)	HT	TT
Prelim Course				Part A			Part B			Part C		
Body Cells				10 units of study -20 3, 2 & 1-unit options			Advanced options to teaching			Skills based teaching		
Genes Molecules							Short research project			Extended research project		
Brain Behaviour							Analyse & write-up			Current Opinions - style review		
Chemistry Physics Mathematics Statistics							Specialist review					
	4 subject blocks, taken by all students			Study tailored to students' interests			Specialised options, with choices determining degree pathway			Specialist study		

Year 1

- **Cells**
Membranes, cell signalling, excitable cells, pharmacology structure and *Molecules*
DNA, RNA, proteins, lipids, metabolism
- **Genes**
The genome, transcription, translation, molecular biology
- **Body**
Heart, vasculature, lungs, kidneys, gastrointestinal tract
- **Brain**
Neuroanatomy, sensory and motor systems, memory and learning
- **Behaviour**
Perception, psychobiology, cognition
- **Numeric and scientific skills**
Mathematics and Statistics - logs, calculus, regression, statistical tests
Chemistry - equilibria, organic reactions, acid-base, thermodynamics
Physics - pressure, optics, electricity

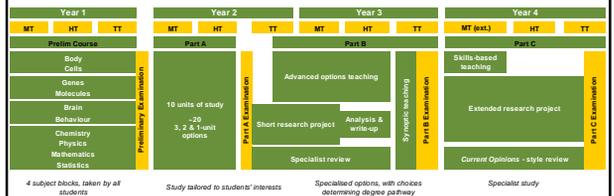
Part A: select 10 units

- 3 unit option**
 - Immunology and Microbiology
 - 2 unit options**
 - Behavioural Neuroscience
 - Cellular Pathology
 - Cognition
 - Developmental Biology
 - Developmental Science
 - Endocrinology
 - General Pharmacology
 - Individual Differences and Clinical Psychology
 - Integrative Systems Physiology
 - 1 unit options**
 - Auditory Neuroscience
 - Cellular Physiology
 - Circadian Neuroscience
 - Genes, Circuits and Behaviour
 - Molecular Biology
 - Neural coding
 - Neuropharmacology
 - Second Messengers and Cascades
- (Options running in 2022-23)

Part B

- students study Advanced Options from Faculties of Physiological Sciences and Psychology: teaching is shared with Medicine and Experimental Psychology students
 - students select two options from
 - A: Pharmacology and Signalling
 - B: Endocrinology and Metabolism
 - C: Cardiovascular Science
 - D: Applied Human Physiology
 - E: Molecular Pathology
 - F: Development and Disease
 - G: Infection
 - H: Immunity
 - I: Cellular Neuroscience
 - J: Systems Neuroscience
 - K: Cognitive and Behavioural Neuroscience
- (Options running in 2022-23)

Course structure



Part C

- for those exiting after the third year, the pattern of advanced options studied determines which BA degree is awarded
- students who continue into year 4 receive skills-based training, undertake an extended research project and write a review article based on attendance at original research seminars held throughout the year in the Division's departments

Course structure

