

# BSc Integrative Biomedical Sciences

Undergraduate Opportunities 2024

BSc Integrative Biomedical Sciences is an undergraduate degree, taught in English, delivered by academics from Zhejiang University and the University of Edinburgh at the new Zhejiang International Campus in Haining. Successful students will have the opportunity to graduate with a dual degree from Zhejiang University and the University of Edinburgh.

<http://zje.zju.edu.cn>



## Programme overview

### Year 1 - Key concepts in Biological and Biomedical Sciences

#### Integrative Biomedical Sciences 1

This course will develop a foundational core biological knowledge and understanding that emphasises the importance of biology in the context of a biomedical background. Teaching will be delivered through lectures/seminars and supported by extensive small group sessions including facilitated discussions and tutorials led by academic staff.

#### Introduction to Cellular and Molecular Biology 1

This course will develop foundational cellular and molecular knowledge, investigating what is known about cellular structure, function and behaviour and how cells form the basis of life.

#### Biomedical Horizons

This interdisciplinary course is based on a series of high-profile lectures given by prominent members of staff from the University of Edinburgh, Zhejiang University and guest lecturers, developing knowledge of broad topics including neuroscience, reproductive medicine, endocrinology, oncology and infectious diseases.

In addition to the courses above, in year 1 students will also study courses in Chemistry and Mathematics.

### Year 2 - Foundational understanding of Biomedical Sciences and its importance to health and medicine

Courses in the second year employ an integrated approach, analysing the contribution of knowledge from a range of disciplines to addressing key biomedical problems. These courses include:

- Integrated Functions of Body Systems 2
- Applied Biomedical Sciences 2
- Microorganisms and Immunity 2
- Biomedical Genetics 2
- Building an Organism 2

### Year 3 - Developing Biomedical knowledge through experiment

In year 3, the curriculum includes three compulsory courses:

- Integrative Biomedical Sciences 3
- Human Disease: From Clinic to Research 1
- Human Disease: From Clinic to Research 2

Laboratory rotations incorporated into courses allow students to experience several different research environments. In addition, students choose elective courses to investigate in depth how knowledge in specific areas is acquired. Elective courses cover areas such as neuroscience, molecular biology, medical microbiology, physiology and pharmacology.

### Year 4 - Research in practice

In the final year of the programme students engage in research practice, placing them at the cutting edge of modern biomedical research.

Students will undertake a major research project in association with one of the research groups contributing to the degree programme.

The compulsory Integrative Biomedical Sciences 4 core course will challenge students to discuss and critically analyse high-profile contemporary issues in Biomedical Sciences. Students will also select two elective courses that investigate specialist areas of biomedical research.

Examples of these courses are:

- Cancer Biology and Medicine
- Inflammatory Disease
- Stem Cells and Regenerative Medicine
- Infectious Disease and Global Health
- Metabolic Disorders
- Molecular and Genetics Medicine
- Neuroscience

**We cannot guarantee that all courses will run each year, and will notify applicants of any changes to the programme structure and courses as soon as possible.**



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## Zhejiang University - University of Edinburgh

Translating innovative research into disease diagnosis, treatment and prevention. Learn more: <http://zje.zju.edu.cn>

The Zhejiang University - University of Edinburgh (ZJE) Institute provides innovative teaching and state of the art research in Biomedical Sciences in brand new facilities at the Zhejiang University International Campus in Haining, situated between Shanghai and Hangzhou.

### What do I need to get in?

You will find our most up to date entry requirements at: <https://zje.zju.edu.cn/zje/EntryRequirements>

### Financial requirements

Find information on fees at: <https://zje.zju.edu.cn/zje/FeesandScholarships>

### Scholarships are available

Find information on scholarships at: <https://zje.zju.edu.cn/zje/FeesandScholarships>

### How do I apply?

Find information on applying to the programme at: <https://zje.zju.edu.cn/zje/Howtoapply>

### Contact us

If you would like further information about our BSc Integrative Biomedical Sciences at the Zhejiang University - University of Edinburgh Institute, please contact us at:

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ZHEJIANG UNIVERSITY WAS FOUNDED AS THE QISHI ACADEMY IN

# 1897

**10** ASSOCIATED  
TEACHING  
HOSPITALS

ONE OF THE  
**TOP 3**

**7** AFFILIATED  
HOSPITALS

UNIVERSITIES  
IN CHINA

THE UNIVERSITY OF EDINBURGH WAS FOUNDED IN

# 1583

RANKED **16TH** IN THE WORLD

IN THE QS WORLD UNIVERSITY RANKINGS 2023



RANKED **18TH** IN THE WORLD  
FOR GRADUATE EMPLOYABILITY

### Alternative formats

If you require a copy of this prospectus or any other information in an alternative format, please email: [xiaohanhuang@intl.zju.edu.cn](mailto:xiaohanhuang@intl.zju.edu.cn).