

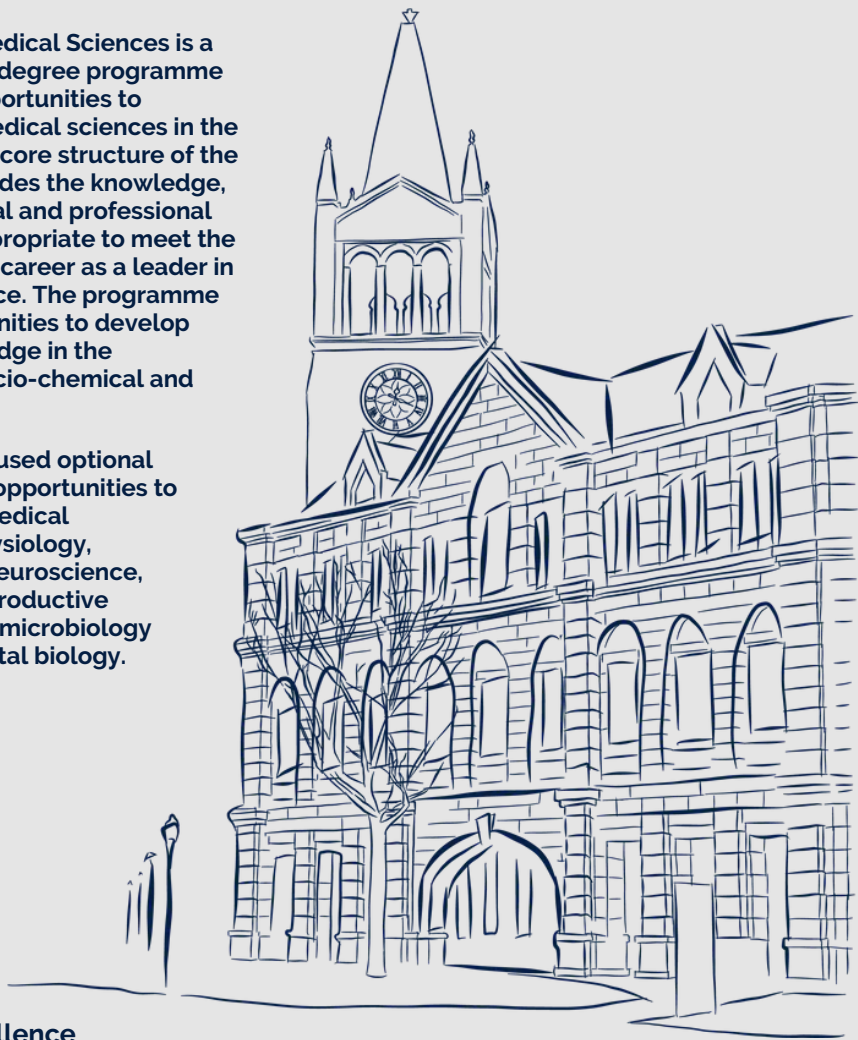
# BSc Integrative Biomedical Sciences

Undergraduate  
Opportunities 2020

<http://zje.intljzueducn>

Integrative Biomedical Sciences is a multidisciplinary degree programme that provides opportunities to investigate biomedical sciences in the 21st century. The core structure of the programme provides the knowledge, skills and personal and professional development appropriate to meet the needs of a future career as a leader in biomedical science. The programme provides opportunities to develop skills and knowledge in the biomedical, physico-chemical and clinical sciences.

In later years focused optional courses provide opportunities to explore the biomedical disciplines of physiology, pharmacology, neuroscience, immunology, reproductive biology, medical microbiology and developmental biology.



Drawn to excellence



THE UNIVERSITY  
of EDINBURGH



浙江大学  
ZHEJIANG UNIVERSITY

# Join a transnational degree programme from two world-class universities

## 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

**The University of Edinburgh is ranked 19th in the QS World University Rankings and Zhejiang University is a member of the C9 League of Universities and one of the top 3 universities in China. Together, we aim to offer a world-class education to develop the next generation of global leaders in Biomedical Sciences.**

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.

## Why study Biomedical Sciences at the ZJE Institute?

This unique dual degree 4 year programme in Integrated Biomedical Sciences provides students with the best research training from both universities. Delivered entirely in English, the programme is designed to promote a positive and inquisitive attitude to science and medicine while promoting independent, self-motivated learning.

Employing an integrated approach, students will analyse the contribution of knowledge from a range of disciplines to address key biomedical problems facing individuals, communities and populations today. Investigating how this knowledge can be used to drive research forwards towards new treatments, this programme places students at the cutting edge of modern biomedical research, enabling the translation of biomedical research into clinical practice.

**We cannot guarantee that all courses will run each year, and will normally notify applicants of any changes to the programme structure and courses on our website.**

# WORLD-CLASS PARTNERSHIP

Zhejiang University - University of Edinburgh

Translating innovative research into disease diagnosis, treatment and prevention.

Learn more: <http://zje.intl.zju.edu.cn>

## What do I need to get in?

You will find our most up to date entry requirements at:  
<http://zje.intl.zju.edu.cn/en/admission/entry-requirements>

## Financial requirements

Find information on fees at:  
<http://zje.intl.zju.edu.cn/en/admission/fees-and-scholarships>

## Scholarships are available

Find information on scholarships at:  
<http://zje.intl.zju.edu.cn/en/admission/fees-and-scholarships>

## How do I apply?

Find information on applying to the programme at:  
<http://zje.intl.zju.edu.cn/en/admission/how-to-apply>

## 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:

**Email:** [zje\\_apply@zju.edu.cn](mailto:zje_apply@zju.edu.cn)

**Address:**  
ZJE Institute  
718 East Haizhou Road  
Haining  
Zhejiang 314400  
P.R. China

**Web:** <http://zje.intl.zju.edu.cn>  
**Facebook:** <https://www.facebook.com/zjeinstitute>  
**Twitter:** [https://twitter.com/zje\\_institute](https://twitter.com/zje_institute)  
**Instagram:** [https://www.instagram.com/zje\\_institute](https://www.instagram.com/zje_institute)

## Alternative formats

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