

BSc Biomedical Informatics

Undergraduate Opportunities 2024

BSc Biomedical Informatics 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 the Biological and Biomedical Informatics

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 informatics 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.

Introduction to Biomedical Informatics 1

This course aims to provide students with an overview of the fundamental technological concepts of Biomedical Informatics using real-world applications as examples. The course will lay a strong technical and computational foundation in the areas of operating systems, version control, and programming. Those skills will be taught with a view towards biomedical applications and examples, wherever possible, drawn from the biomedical field.

Year 2 - Foundational understanding of Biomedical Informatics and its importance in the wider biomedical field

In year 2 the focus is on building foundational knowledge in Biomedical Informatics and data science, and linking through to physiology, genetics, genomics and proteomics:

- Databases and Software Technology
- Genomics and Proteomics
- Applied Data Sciences 2
- Integrative Functions of Body Systems 2
- Biomedical Genetics 2

Year 3 - Developing knowledge through experiment

In year 3, the curriculum includes three compulsory courses:

- Integrative Biomedical Sciences 3
- Computational and Systems Biology
- Biomedical Informatics 3

Students will also study two year 3 IBMS/BMI elective options (20 credits each Semester 1 or 2).

Year 3 aims to be an exciting exploration of the application of biomedical informatics to biomedical sciences, facilitating student development by learning from experiment in key areas for application.

Year 4 - Research in practice

In the final year of the programme students focus on key compulsory courses and optional electives in Biomedical Informatics including a project where Biomedical Informatics approaches are applied to a research question.

The final year of the programme aims to develop application of practical biomedical informatics research skills to address key research questions in biomedical science.

Examples of these courses are:

- Biomedical Informatics 4
- Practical Bioinformatics in Biomedical/Medical/Clinical Research
- Biomedical Informatics Elective
- Biomedical Informatics Project Preview Dissertation
- Biomedical Informatics Project
- Biomedical Informatics Portfolio

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

The Zhejiang University - University of Edinburgh (ZJEInstitute) provides innovative teaching and state of the art research in Biomedical Informatics 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 Biomedical Informatics 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