

## PROGRAMME OVERVIEW

**DEGREE PROGRAMME**  
BSc Environmental Science

**AWARDING INSTITUTION**  
University of Liverpool, UK  
Xi'an Jiaotong-Liverpool University, China

**TUITION FEE**  
RMB 88,000 per year  
All international, Hong Kong, Macao and Taiwan students who accept their offer and pay the deposit by 1st May 2018 will automatically qualify for a RMB 8,000 early bird discount.

**PROGRAMME DURATION**  
3-4 years

**SCHOLARSHIPS**  
Scholarships of up to 50% are available for international students. For details, please visit:  
[www.xjtlu.edu.cn/en/study-with-us/admissions/scholarships](http://www.xjtlu.edu.cn/en/study-with-us/admissions/scholarships)

## INTERNATIONAL STUDENT ENTRY REQUIREMENTS

[www.xjtlu.edu.cn/en/study-with-us/admissions/entry-requirements](http://www.xjtlu.edu.cn/en/study-with-us/admissions/entry-requirements)

**ENTRY INTO YEAR ONE**  
We welcome applications from high-quality candidates in all subject areas with appropriate high school or equivalent qualifications. Students will normally be expected to have a high standing in their high school performance with a minimum "B" average in relevant subjects.

**ENTRY INTO YEAR TWO**  
Students who have completed A-levels or International Baccalaureate (or equivalent) will be considered for entry into Year Two.

- A-level: BBB
- IB: 30 points
- SAT: high school diploma with a GPA of 3.0, plus three SAT subject tests of at least 600 in each subject or redesigned SAT 1280
- AP: high school diploma with a GPA of 3.0, plus three AP subjects at Grade 4 or above

**HONG KONG, MACAO AND TAIWAN**  
Applicants from Hong Kong, Macao and Taiwan may also apply with the Joint Entrance Examination to Chinese Universities for Overseas Chinese Students and Students from Hong Kong, Macao and Taiwan, or the GSAT.

### ENGLISH LANGUAGE REQUIREMENTS

YEAR ONE ENTRY	IELTS 5.5	TOEFL iBT 72
YEAR TWO ENTRY	IELTS 6.5	TOEFL iBT 90

The University reserves the right to modify programmes at any time in response to unforeseen circumstances, feedback and review. The University also reserves the right to not offer programmes with low enrolments. For the latest information, please visit our website.

## HOW TO APPLY

[www.xjtlu.edu.cn/en/study-with-us/admissions/how-to-apply](http://www.xjtlu.edu.cn/en/study-with-us/admissions/how-to-apply)

### INTERNATIONAL, HONG KONG, MACAO AND TAIWAN

All international, Hong Kong, Macao and Taiwan applicants should apply via our online application system:

1. Choose your programme
2. Click/tap 'Apply' on the programme page
3. Create an account or log in to your existing account
4. Complete your application.

You may save and re-log in to your application form at any time and upload any remaining supporting documents.

We reserve the right to request additional documents or an interview to assess your academic qualifications.

### CHINESE NATIONALS

You should take the National College Entrance Examination (Gaokao) and achieve a score above the Tier One threshold of your home province. You can then apply for XJTLU through the National College Application System at the first tier.

### Comprehensive Evaluation Admission

XJTLU Comprehensive Evaluation Admission only applies to students in Jiangsu and Guangdong but will expand to other provinces in the future.

### APPLICATION DEADLINE

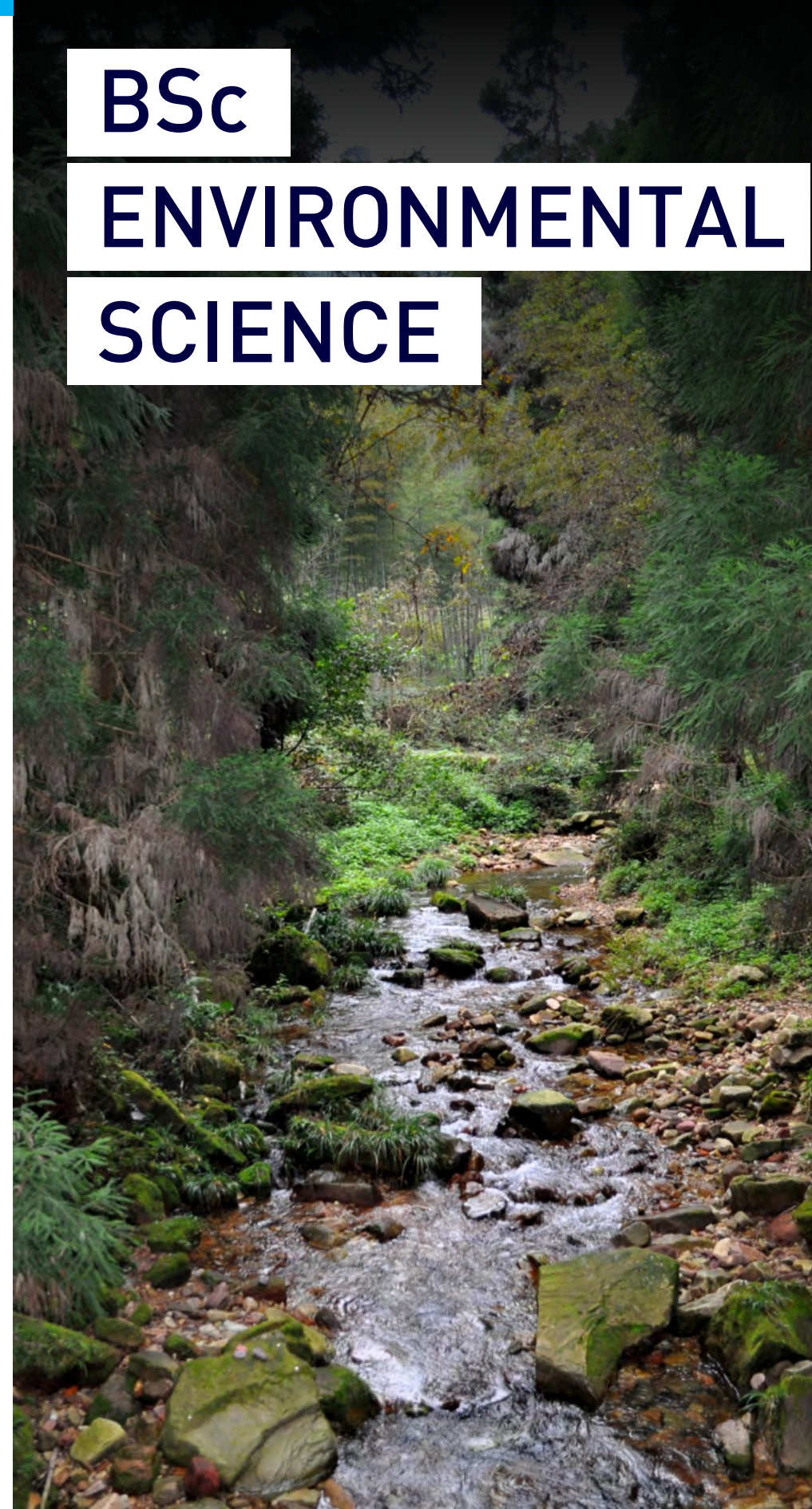
30 June 2018

# BSc

# ENVIRONMENTAL

# SCIENCE

# 环境科学



# 环境科学

西浦环境科学专业是学校的自然科学专业之一。通过环境科学专业的本科学习,学生能够系统地掌握地质环境和生态系统的复杂性,探索全球范围内环境演变的过程及规律,培养解决环境问题的能力。我们的师资队伍包括科研专家和环保行业人员。通过分享他们的实践经验和理论见解,学生可以在学习中逐步了解如何衡量、评价和制定有关环境问题的决策。

环境科学专业主要教学方向包括:生物地球化学和环境化学领域、土壤、植物和无脊椎动物生态学领域以及自然地理与地貌领域。从进入环境科学专业学习的第一天开始,学生就将进行多种动手实践活动,包括亲自动手收集、分析实地和实验室的环境数据,学习复杂的实验室技术和利用地理信息系统进行数据分析等。学生还将走出实验室和学校,获得野外实习的经验。

本专业的课程设置将开阔学生的视野,使学生能够了解从区域到国家乃至全球范围内地球系统的进程,从不同角度探讨全球的主要环境问题,如生物多样性的丧失、气候变化以及地球化学循环的破坏等。学生能够意识到环境决策的复杂性,并探寻从事环境管理的方法。在整个学习过程中,学生将获得广泛的实用技能,从而增加就业竞争力。

## 知识与技能

- 生态学基本原理;
- 环境化学与生物学;
- 地理地貌与地理信息系统;
- 土壤与水资源的可持续利用;
- 污染场地的管理与修复;
- 环境管理与环境影响评价;
- 气候变化等全球性环境问题的成因及应对方案;
- 海洋、森林、河流等典型生态系统与人类活动的关系。



扫描二维码  
获取更多专业信息

咨询邮箱  
international@xjtlu.edu.cn (国际学生)  
admissions@xjtlu.edu.cn (中国学生)

在线申请  
www.xjtlu.edu.cn/zh/find-a-programme/  
undergraduate/environmental-science

## 专业特色

- 西交利物浦环境科学系具有世界一流的师资队伍及教学和科研平台;
- 学生有机会前往全国及世界各地考察不同的生态环境类型,体验自然与人类活动之间的相互关系;
- 国际化综合性的课程设计让学生全方面发展自己的能力,未来在职业发展方面获得更强的竞争力。

## 就业

随着经济的发展带来众多环境相关的问题与机遇,环境科学的毕业生可以在以下领域大展身手:

- 环境科研与教育领域: 深造成为一个环境研究者,可就职于大学与科研院所;
- 环境管理与政策领域: 就职于政府及非政府组织(如:联合国环境署等)的环境相关部门从事环境政策制定与环境项目管理工作;
- 环境影响评价及修复领域: 成为针对工程项目建设的环境影响评价师,或者针对污染场地修复的环境修复工程师及技术人员;
- 环境咨询领域: 为工业界提供绿色生产,绿色产业链分析,及环境风险评估,减少因环境因素对企业发展的影响。

## 课程

### 一年级

大学一年级内容包括众多的基础课目。

### 第二学年

生物多样性: 动物、植物及微生物  
 地理信息系统及研究技能  
 地球系统概论  
 环境化学  
 环境污染与监测  
 生态学及自然保护  
 地形与地貌演变  
 初级野外调查实践

### 第三学年

环境科研项目设计入门  
 面向环境科学的统计学  
 环境变迁: 过去,现在与未来  
 土壤环境学  
 地理信息系统与空间建模  
 环境可持续发展  
 水生与城市生态学  
 野外调查实践进阶

### 第四学年

环境影响评价  
 河流生态系统: 从源头到入海  
 农业、食品与环境  
 环境管理  
 环境变迁与生态学  
 环境污染修复实践  
 毕业设计

# BSc ENVIRONMENTAL SCIENCE

The BSc Environmental Science programme enables you to learn the science behind the Earth's amazing complexity and its environmental processes, and to help prepare you to take a role in improving the future of our planet. Our staff include research experts and environmental practitioners who will share with you their practical and theoretical insights so that you emerge from your degree with an understanding of how to measure, evaluate, and make decisions about environmental issues.

From day one of your degree you will take a hands-on approach to the collection and analysis of environmental data in the field and laboratory. You will have the opportunity to learn sophisticated laboratory techniques and data analysis, such as the utilisation of Geographical Information Systems. You will have the opportunity to work and learn in inspiring places where you will gain practical field experience.

Our programme will expand your worldview and enable you to learn about Earth system processes at a range of scales, from local and regional to national and global. You'll engage with issues relating to major world problems such as biodiversity loss, climate change, and disruption of the earth's chemical cycles on which we depend to live. You will uncover the complexities in environmental decision making and discover ways to engage in environmental management.



SCAN THE QR CODE  
TO VISIT THE  
PROGRAMME  
WEBSITE

GENERAL ENQUIRIES  
international@xjtlu.edu.cn (International)  
admissions@xjtlu.edu.cn (Chinese nationals)

APPLY  
www.xjtlu.edu.cn/en/find-a-programme/  
undergraduate/environmental-science

## KNOWLEDGE AND SKILLS

The aims of our programme are to help you to:

- become an internationally prepared environmental science professional with problem-solving competencies across the major Programme focus areas of ecological, geophysical, and chemical system's variability on regional and global scales, and the influence of humans upon it
- be able to demonstrate a high degree of scientific literacy, including an understanding of how scientific knowledge is constructed in our Programme focus areas, a firm grasp of fundamental and applied scientific perspectives, and a proficiency in laboratory- and field-based analysis
- approach environmental science from a research-led, interdisciplinary, and integrated systems perspective that incorporates the increasing complexity of regional and global issues within a life-long learning philosophy
- communicate in written and verbal forms such complexity and its relationship to society from a scientific perspective.

## DISTINCTIVE FEATURES

- Outstanding academic staff and teaching and research platforms.
- International standard curriculum that helps you to find your potential and which will increase your career competitiveness.
- Focus on integration of global development with expertise in solutions to environmental problems.
- Research-led teaching with emphasis on research in areas where humanity faces severe challenges.

## CAREERS

You will have a wide range of career options including: environmental consultant; governmental policy maker; environmental impact assessment specialist; laboratory scientist; geographic information systems analyst; ecosystem restoration engineer; environmental education officer; green technology specialist; nature conservation officer; waste management officer; waste quality scientist.

## MODULES

### YEAR ONE

Year One provides you with a range of interesting modules, language classes and core skills for your degree. International students who meet academic and English language requirements may enter directly into Year Two, which is the start of the main academic programme.

### YEAR TWO

BIODIVERSITY  
 RESEARCH AND GEOGRAPHIC  
 INFORMATION SYSTEMS (GIS) SKILLS  
 ECOLOGY AND CONSERVATION  
 INTRODUCTION TO PLANET EARTH  
 ENVIRONMENTAL CHEMISTRY  
 AQUATIC FIELD SKILLS  
 DYNAMIC LANDSCAPES  
 ENVIRONMENTAL POLLUTION

### YEAR THREE

ENVIRONMENTAL SUSTAINABILITY  
 RESEARCH DESIGN  
 STATISTICS FOR ENVIRONMENTAL  
 SCIENTISTS  
 SPATIAL MODELLING WITH GEOGRAPHIC  
 INFORMATION SYSTEMS (GIS) AND  
 REMOTE SENSING  
 ENVIRONMENTAL CHANGE: PAST,  
 PRESENT AND FUTURE  
 ENVIRONMENTAL SCIENCE FIELD SKILLS  
 SOILS AND THE ENVIRONMENT  
 AQUATIC AND URBAN ECOLOGY

### YEAR FOUR

FINAL YEAR PROJECT  
 ECOLOGY IN A CHANGING WORLD  
 AGRICULTURE, FOOD AND ENVIRONMENT  
 FLUVIAL SYSTEMS: FROM HEADWATERS  
 TO THE COAST  
 ENVIRONMENTAL MANAGEMENT  
 ENVIRONMENTAL IMPACT ASSESSMENT  
 ENVIRONMENTAL REMEDIATION AND  
 REHABILITATION FIELD CLASS



“After an extremely helpful first year, I was really keen on starting to study the specific materials about environmental materials with some real research starting from Year Two. In semester one of Year Two, I was asked to be a speaker at an AIESEC event in Hefei about environmental leadership, which was then followed by being selected as one of the TEDxYouth Suzhou speakers. In 2014, I was also selected as a delegate at the United Nations Conference of Climate Change in Peru, where I met Al Gore. In 2015, representing XJTLU, I attended COP21 in Paris, where delegates from more than 190 countries discussed reducing greenhouse gas emissions that pollute the air and contribute to global warming. I really enjoyed learning environmental science at XJTLU, it has opened so many doors for my future.”

MIA OENOTO  
ALUMNA  
BSc ENVIRONMENTAL SCIENCE

# XJTLU

## UNDERGRADUATE

### DEPARTMENT OF ENVIRONMENTAL SCIENCE 环境科学系

The Department of Environmental Science has attracted a healthy number of academically talented undergraduate students. We have academic staff recruited from excellent universities and institutes around the world. Our ambition is to conduct research to provide holistic solutions for big environmental issues in China and elsewhere today, such as living with environmental change, biodiversity loss, pollution, land and water management. To achieve this, we will work in partnership with governments, research institutes, businesses, industries and communities to put our expertise to good use.

作为西交利物浦大学最年轻的部系之一,环境科学系已吸引了众多优秀的本科学子,拥有来自国际知名高等院校的学术人员。环境科学系希望,通过我们的调查研究,为我国和世界其他地区的环境问题提供整体解决方案,包括如何应对环境变化、生物多样性消失、各种环境污染问题及土地资源和水资源的管控等。为实现这一目标,我系通过与政府、研究院、商业、工业界和社区的合作,将专业知识有效付诸实践。

### XI'AN JIAOTONG-LIVERPOOL UNIVERSITY 西交利物浦大学

Xi'an Jiaotong-Liverpool University is the largest international joint venture university in China, combining the best of East and West, awarding English-taught University of Liverpool degrees.