



**NANYANG  
TECHNOLOGICAL  
UNIVERSITY**  
SINGAPORE

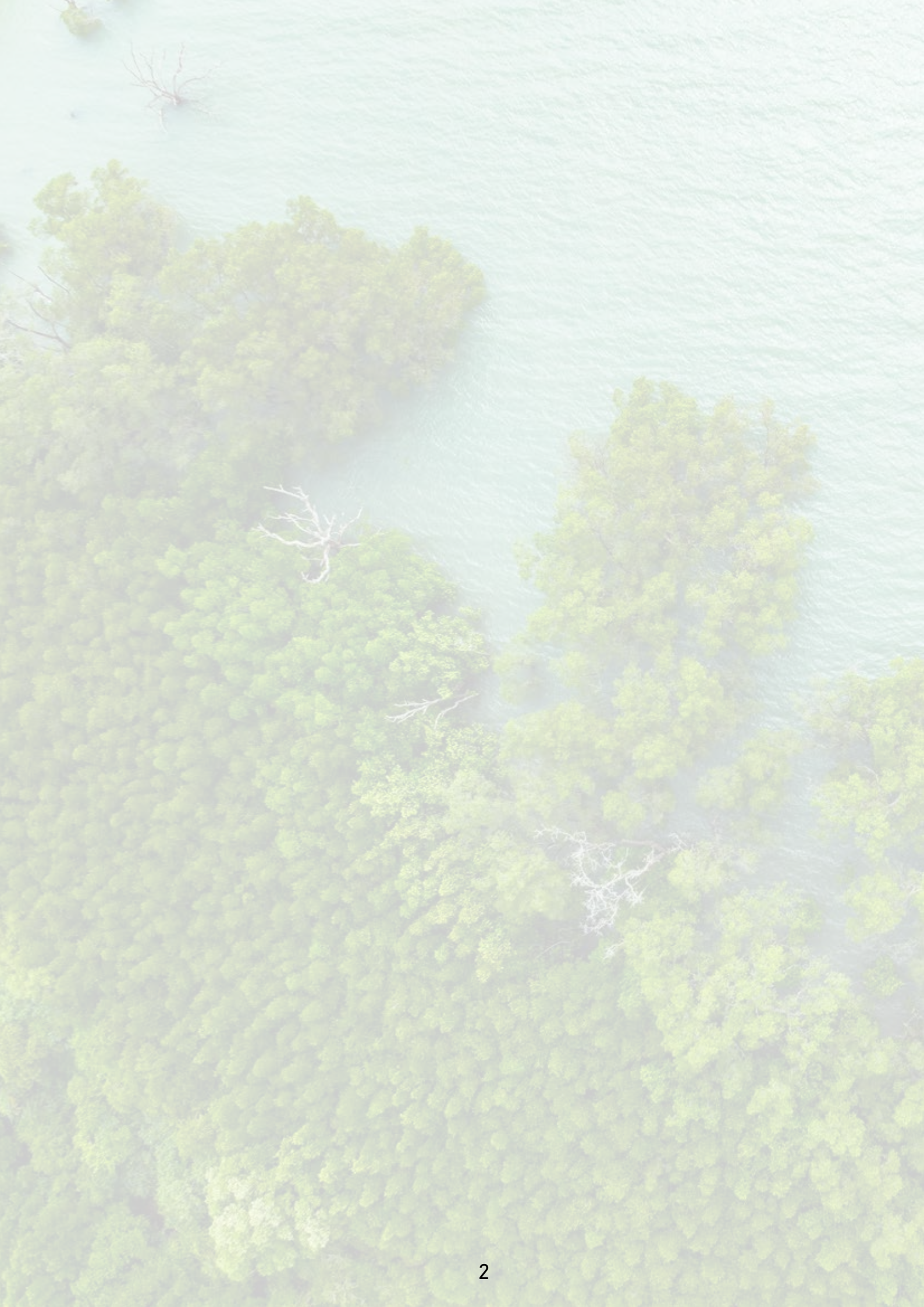
Asian School of the Environment  
College of Science

# ASIAN SCHOOL OF THE ENVIRONMENT

SCHOOL OF THE COLLEGE OF SCIENCE  
POSTGRADUATE BROCHURE









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# ABOUT ASE

The Asian School of the Environment (ASE) at Nanyang Technological University, Singapore, is a diverse school focusing on the connections between geosciences, ecology, society and Earth systems. ASE conducts cutting-edge research on pressing environmental challenges in Southeast Asia and beyond, including climate change, sea-level rise, geohazards, biodiversity conservation, environmental sustainability, and human–environment interactions. Our integrated approach equips students and researchers to address complex global issues through science, collaboration, and innovation.

## Vibrant Academic Community

ASE fosters a strong graduate community, with cross-cohort learning and frequent interactions across PhD and Master's students. You'll join a dynamic environment that supports both academic excellence and lasting professional connections.

## WHY CHOOSE ASE?

### Collaborative and Supportive Environment

Graduate students benefit from dedicated workspaces, access to advanced software, and proximity to faculty offices, fostering daily interaction and mentorship. An open-door culture and thoughtfully designed spaces encourage collaboration across all levels, from undergraduates to postdocs.

### Comprehensive Interdisciplinary Curriculum

Our curriculum blends environmental science, ecology, technology, and social science, equipping students with both technical depth and practical research skills.

### Immersive Learning Experience

Students engage in a rigorous, interdisciplinary curriculum that integrates scientific depth with practical skills. Beyond labs and classrooms, you'll gain hands-on experience through fieldwork, case studies, and real-world research applications.

### State-of-the-Art Facilities

ASE is home to cutting-edge laboratories and research facilities, designed to support interdisciplinary collaboration. Our labs are equipped with the latest instruments and regularly updated to enable innovative research.

### Networking and Industry Engagement

Our programmes place strong emphasis on networking and fostering a sense of community, both within the ASE graduate ecosystem and with external collaborators, creating valuable opportunities for students to enrich their research and expand their professional network.

### Flexible Study Options

Programmes are offered on both full-time and part-time tracks, making them accessible to working professionals and early-career researchers alike.



# OUR PROGRAMMES AT A GLANCE

## Coursework Programmes:

Master of Science in  
Environmental Sustainability Science

## Research Programmes:

Master of Science (Research)  
Doctor of Philosophy



# MASTER OF SCIENCE IN ENVIRONMENTAL SUSTAINABILITY SCIENCE

The Master of Science in Environmental Sustainability Science offered by the Asian School of the Environment is a dynamic, interdisciplinary programme designed to prepare fresh graduates and working professionals to lead sustainability transformations across sectors. This intensive programme equips students with the scientific knowledge, practical skills, and critical core competencies to address complex environmental challenges and inform sustainable policy and practice. Through a flexible and immersive curriculum, students gain foundational training in sustainability science, systems thinking, and science communication. This programme integrates real-world case studies, networking opportunities, and collaborative projects, preparing graduates to thrive in environmental governance, research, consultancy, and leadership roles. Whether advancing climate action, green innovation, or public health, graduates will be equipped to shape a more sustainable future.



## COURSE REQUIREMENTS

Students must complete 30 Academic Units (AUs), equivalent to approximately ten graduate-level courses.

### Mode and duration

(Full-time) 1 year | (Part-time) 2 years

### Career paths

Graduates benefit from rigorous coursework and project-based training, enhancing their employability across a range of sectors. The program's strong industry and faculty collaborations, along with a growing alumni network, support career opportunities in government agencies, NGOs, local and regional industries, and multinational corporations. Additionally, graduates possess transferable skills that open doors in non-traditional fields like insurance (risk assessment), finance (energy market analysis), and business (technical and creative roles).



## ADMISSION REQUIREMENTS

- Bachelor's degree holders and working professionals are welcome to apply.
- A good bachelor's degree in a related science, engineering, or social science programme. Relevant working experience (in a related industry or environmental science related applications) and leadership potential will also be taken into consideration.
- Demonstrated proficiency in written and oral communication in English.
  - Graduates of universities where English is not the medium of instruction are required to submit their TOEFL/IELTS test scores. Test dates must be within 2 years or less from the date of your application.
  - In some circumstances, special arrangements can be made for selected applicants to sit for NTU's English Proficiency Test in place of TOEFL/IELTS.

# MASTER OF SCIENCE (RESEARCH)

This Master of Science programme at the Asian School of the Environment offers students the opportunity to develop cross-disciplinary research that integrates environmental science, ecology, technology, human-environment interactions, and the social sciences. Centred around a research thesis and hands-on experiential learning, the programme equips students with valuable technical, analytical, and communication skills. Graduate-level coursework further enhances professional development, while an emphasis on leadership, collaboration, and innovative problem-solving prepares graduates to thrive in today's dynamic, sustainability-focused workforce.

## COURSE REQUIREMENTS

### Research and Supervision

Each student is matched with a faculty supervisor upon admission, who will serve as their primary academic mentor throughout the programme. In consultation with their supervisor—and optionally, a co-advisor from an industry or agency partner—students will:

- Define a research topic aligned with their academic interests
- Select suitable coursework to complement their research
- Develop and submit a formal thesis proposal by the end of their first academic year

### Coursework

In addition to working on research, students are required to complete 9 Academic Units (AUs), equivalent to approximately three graduate-level courses, including a core communications course, over the course of the programme.

### Thesis and Examination

Students must submit a complete thesis draft to their advisor(s) at least two months before the final examination deadline. After advisor review and revisions, the thesis will be assessed by two independent examiners, excluding the student's advisors.

### Mode and duration

(Full-time) 2 years | (Part-time) 3 years







## CAREER PATHS

Graduates benefit from advanced training in research methodology, enhancing their employability across a range of sectors. The program's strong industry and faculty collaborations, along with a growing alumni network, support career opportunities in government agencies, NGOs, local and regional industries, and multinational corporations. Additionally, graduates possess transferable skills that open doors in non-traditional fields like insurance (risk assessment), finance (energy market analysis), and business (technical and creative roles).

## ADMISSION REQUIREMENTS

- Bachelor's degree holders and working professionals are welcome to apply.
- A good bachelor's degree in a related science, engineering, or social science programme. Relevant working experience (in a related industry or environmental science related applications) and leadership potential will also be taken into consideration.
- Demonstrated proficiency in written and oral communication in English.
- Graduates of universities where English is not the medium of instruction are required to submit their TOEFL/IELTS test scores. Test dates must be within 2 years or less from the date of your application.
- In some circumstances, special arrangements can be made for selected applicants to sit for NTU's English Proficiency Test in place of TOEFL/IELTS.
- Applicants are also required to prepare a research proposal, resume, and academic references.

# DOCTOR OF PHILOSOPHY

The PhD programme at the Asian School of the Environment offers a rigorous and interdisciplinary training experience that integrates environmental science, ecology, technology, human-environment interactions, and social sciences. The programme combines graduate coursework and a doctoral thesis, all under close faculty mentorship.

Students develop advanced research skills through hands-on investigation and interdisciplinary collaboration, building a deep understanding of complex environmental systems. Graduate coursework enhances analytical, technical, and communication abilities, while a focus on leadership and innovative problem-solving prepares graduates to become leaders in academia, research, policy, and industries worldwide.



## COURSE REQUIREMENTS

### Coursework

Students must complete 18 Academic Units (AUs), equivalent to approximately six graduate-level courses, which includes two core courses in writing and communication.

### Exploratory Research Project

In the first two years, students will undertake an exploratory research project under faculty supervision to demonstrate their ability to:

- Conduct independent research
- Situate their work within existing knowledge
- Identify broader implications of their findings

The project culminates in a Qualifying Examination, which assesses research readiness and core disciplinary understanding.

### Thesis and Defense

After passing the Qualifying Examinations, students focus on their PhD thesis under the guidance of a Thesis Advisory Committee (TAC), formed during the first year. Comprising both ASE and non-ASE faculty, the TAC provides academic mentorship and supports the student's research progress throughout the programme.

The final thesis must be submitted at least one month before the oral defense, which includes a public presentation followed by a closed-door discussion with the defense committee.

### Mode and duration

(Full-time) 4 years | (Part-time) 5 years





## CAREER PATHS

Graduates benefit from advanced training in research methodology, enhancing their employability across a range of sectors. The program's strong industry and faculty collaborations, along with a growing alumni network, support career opportunities in government agencies, NGOs, local and regional industries, and multinational corporations. Additionally, graduates possess transferable skills that open doors in non-traditional fields like insurance (risk assessment), finance (energy market analysis), and business (technical and creative roles).

## ADMISSION REQUIREMENTS

- A good bachelor's degree with minimum Honours (Distinction) and its equivalent in a related science, engineering, or social science programme. Relevant working experience (in a related industry or environmental science related applications) and leadership potential will also be taken into consideration.
- Demonstrated proficiency in written and oral communication in English.
  - Graduates of universities where English is not the medium of instruction are required to submit their TOEFL/IELTS test scores. Test dates must be within 2 years or less from the date of your application.
  - In some circumstances, special arrangements can be made for selected applicants to sit for NTU's English Proficiency Test in place of TOEFL/IELTS.
- Applicants are also required to prepare a research proposal, resume, and academic references.



# STUDENT LIFE

## ASE Graduate Club

The ASE Graduate Club is an integral part of the Asian School of the Environment's commitment to cultivating a supportive and connected graduate student community. As a student-run club under ASE, it brings together PhD and Master's students across research areas and cohorts through a wide range of initiatives aimed at enhancing the graduate experience, both academically and socially.

The club organises a variety of events throughout the year, including its signature weekly Friday social nights, industry talks, recreational activities and nature walks, and cultural celebrations. These activities provide meaningful opportunities for students to build friendships, exchange ideas, and collaborate beyond the boundaries of their individual labs or projects.







By offering leadership opportunities and fostering cross-cohort engagement, the ASE Graduate Club plays a key role in shaping a vibrant, inclusive, and intellectually stimulating environment at ASE, one where every student feels connected and supported throughout their academic journey.

Follow the club's activities on their Instagram @ase.gsc.



# APPLY NOW

All applications must be submitted online via the respective portals for Coursework and Research programmes, which can be accessed through the official NTU website.

For research applications, we encourage you to start by exploring the cutting-edge research happening at our school. Visit our faculty research webpages to discover areas that excite you and identify potential faculty mentors whose interests align with yours. Once you've found a good fit, reach out to potential faculty mentors before applying. Applicants who do not engage with faculty prior to submitting an application are unlikely to be admitted.

## **We encourage you to visit the links below for a detailed admissions guide:**

For research programmes:

<https://www.ntu.edu.sg/admissions/graduate/radmissionguide>

For coursework programmes:

<https://www.ntu.edu.sg/admissions/graduate/cwadmissionguide>

## **Deadline for submission of applications:**

January intakes: 31st July of every year

August intakes: 31st January of every year

## **Application fees:**

An application fee of S\$50 (Nett) will be charged for each application. Payment can be made online before submitting application by VISA/Mastercard





### Supporting documents checklist:

Please prepare electronic copies of your supporting documents for your online application:


1. Passport/ Identification card (NRIC)
  - a. Singapore Permanent Resident (SPR) must upload NRIC and Re-entry permit.
  - b. A copy of the personal particulars page of your passport
2. One recent passport-sized colour photograph, taken within the last 3 months.
3. Valid TOEFL/IELTS/GRE/GMAT/GATE Scores
4. Degree Certification and Official Transcripts (Bachelor and/ or Masters)
  - a. Degree Certificate
    - i. Original Language
    - ii. Official translation in English (if original is not in English)
  - b. Official Transcripts
    - i. Original Language
    - ii. Official translation in English (if original is not in English)
  - c. Grading or marking scale of the Transcript (Interpretation of Grades/Marks)
5. Two Academic Referees' Reports (If applicable)
6. Other Supporting documents (if applicable)
  - a. Research proposal
  - b. Research publications
  - c. Resume




# ASIAN SCHOOL OF THE ENVIRONMENT

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