

Introduction

With almost 18% of the world's coral reef, Indonesia is at the center of the Coral Triangle and houses the highest marine biodiversity in the world. This marine biodiversity provides valuable resources and services to support human populations, particularly coastal communities that depend heavily on them.

Sam Ratulangi University is situated at the center of the Coral Triangle in northern part of Sulawesi Island, facing the Pacific Island. This became the main consideration of establishing an International Master Program within the framework of CTI action plan in the university. The program is in line with the vision of the university, to become a first rank, independent and competitive higher education institution. Chances of studying marine biodiversity, the reproductive, the various benefits, even loosing of marine biodiversity by different threats, and alternative of using and conserving the coral reef and its associations will be interesting challenges and be a focus of this program.

Objective

The main objective of the program is to set up a study center through establishing an international master program on the biodiversity and conservation of Indo-Pacific coral reefs. The degree obtained will be **Master of Science (M.Sc) in Aquatic Science**.

Host

The program is hosted by Faculty of Fisheries and Marine Science in Sam Ratulangi University (UNSRAT), Manado, North Sulawesi, Indonesia, as the parent institution of Aquatic Science Study Program in Graduate Studies. This study program has been accredited a Grade-A (Excellent) by the National Accreditation Institution Board of Indonesian Higher Education.

Eligibility

The candidates must have completed 16 years of education and hold a bachelor degree in Natural Sciences with an average GPA of >3.0 and an English proficiency exam result of TOEFL (≥ 500) or IELTS (≥ 5.5). Selection of the candidates will be done in two stages: documentary and interviews. After passing the documentary selection, the candidates will be interviewed using an electronic communication method.

Prerequisite of student to apply

Students have to hold a bachelor degree in the area of natural sciences (any of these: biology, pharmaceutical biology, paleontology, microbiology, and chemistry with biological background). There will be a set of requirement to be met during the application (to be define later; including passing an examination once the student has sent the application form).

Facilities

Independent research activities can be done in laboratories in the main campus or at the Marine Field Station in Likupang. Library and free internet access are also available in the main campus.

Location

The main campus of Sam Ratulangi University is situated closed to Manado Bay (around 650m) in the City of Manado, in the northern part of Sulawesi Island.

For more information, please contact:

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FEES

• Fees for full-time students

Full-time students are assessed full-time tuition fee for each semester. The program will be a two-year program, and extended length of study will be charged on semester basis. The fees for the full program will cover the following components:

Annotation	Amount
• Admission and tuition fee (4 semesters)	USD 2,880
• Advanced Special Course fee	USD 400
• Comparative Study fee	USD 880
<i>Total payment*</i>	<i>USD 4,160</i>

** Excluding expenses for thesis research*

• Fees for part-time students

Students classified as part-time will be charged per semester. The fees will cover the following components:

Annotation	Semester			
	1	2	3	4
• Administration and tuition fee	USD 720	USD 720	USD 720	USD 720
• Additional fee for Advance Special Course	NA	NA	USD 400	NA
• Comparative Study fee	NA	NA	USD 880	NA
<i>Total payment</i>	<i>USD 720</i>	<i>USD 720</i>	<i>USD 2,000</i>	<i>USD 720</i>

Program

- *Full-time students*

Students in this category are students who will involve in the regular program (a two-year program) and they have to meet all the requirement given by the host institution (which is Aquatic Science Study Program of Sam Ratulangi University). Application for the program is available from February to June and commencement time is in July.

- *Part-time (visiting) students*

This category refers to students from other institutions, who are willing to spend at least one semester in the international program to study one or more particular subject/s offered by the institution. Students in this category will have to meet a particular requirement by the host institution. A marking or grading system will be established to accommodate the need of students from different universities (for example, there will be conversion for those with ECTS). Application for the program has to be submitted at least one semester prior to the commencement (January and July).

Courses

Each course includes 16 meetings (contact time) and meetings comprise lectures, seminars, practical work, and field excursion. Some courses will be given in block courses, especially those from foreign lectures. The study program focuses on organismal biology and ecosystem in order to better understand functionality of coral reefs and adjacent ecosystems as the base for

understanding threats, how to conserve coral reef and use them in a sustainable way.

Courses are:

1. Tropical Marine Biology
2. Tropical Marine Biodiversity and Ecology
3. Oceanography
4. Research Methods
5. Scientific Writing and Presentation
6. Coral Reef Management
7. Marine Pollution and Health
8. Tropical Mariculture
9. Coastal Indigenous Resilience
10. Advanced Special Course *
11. Comparative Study **
12. Literature Review
13. Thesis

**Comprehensive two-week study in Marine Station in Likupang or in Bunaken Island based on courses #1 and #2 (in the first semester), small projects; can also include a diving course (for those who are going to do underwater research).*

***Comprehensive field study in a place of interest (particularly research station) outside Manado, such as Bali and Lombok. The study will have to be reported both in a written report and a seminar.*

Lecturers

The lecturers are from home institution and invited guest lectures from institutions in Germany, Denmark, Korea, the Philippines, and Australia.



SAM RATULANGI UNIVERSITY
Faculty of Fisheries and Marine Science
Aquatic Science Study Program
MANADO - INDONESIA

INTERNATIONAL MASTER PROGRAM (M.Sc)

Indo-Pacific Coral Reefs Biodiversity and Conservation

ADMISSION FOR 2016



Photo: J.R.P. Daud



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