



MASTER PROGRAM IN AQUACULTURE

International MSc in Aquaculture
Graduation Ceremony



The Master Program in Aquaculture has been offered since 2016 under the framework of VLIR-Network project. The program has initially been operated with collaboration of five Vietnamese institutions including Can Tho University, Nha Trang University, Hue University, Vietnam University of Agriculture and Research Institute for Aquaculture No.2., and Gent University from Belgium.

The curriculum of this program was developed based on benchmarking with other university curriculum, especially of University of Ghent (Belgium) and Flinders University, (Australia) and modified to be appropriate with tropical region conditions.

OBJECTIVES

The program aims to train students to be able to:

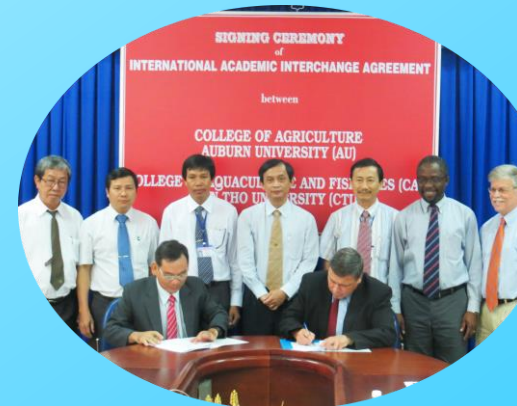
- Manipulate and apply specialized knowledge of aquaculture and related fields to the local practical conditions
- Operate and develop aquaculture models for the regional socio-economic development
- Discover and solve problems of production as well as research related to aquaculture
- Integrate globally and adapt to the working environment which is highly competitive in research, training and technology transfer in aquaculture.

After graduating, the students will be qualified with high capacity and international levels to take different positions such as leader or manager of the state aquaculture sector or specialists of national and international companies; researchers and lecturers of national or international institutions; be able to proceed with PhD level at the leading university in aquaculture in the world.

TEACHING & LEARNING ACTIVITIES

Teaching staff are mainly from Can Tho University, who are highly experienced and professional in teaching and research and qualified from many reputation universities in the world. Professors from other Universities in Europe (Gent University), Asia, Southeast Asia will be also invited to participate in teaching the program.

Students are provided theoretical and practical courses at campus, field visits and internships at the industry farms.



CURRICULUM

The curriculum has been developed and modified as the research orientation program consisting of 60 credits including 13 credits of Fundamental knowledge, 17 credits of Specialized knowledge, 27 credits of scientific research in which there are 15 credits for graduation thesis and 3 credits of Philosophy.

Compulsory courses

I. Fundamental knowledge

1. Scientific research methodology	2 (20:20)*
2. Applied statistics in aquaculture	2 (20:20)
3. Feed and nutrition in aquaculture	3 (30:30)
4. Physiology of aquatic organisms	2 (20:20)

II. Specialized knowledge

5. Water quality management in tropical aquaculture systems	2 (20:20)
6. Advanced Tropical fish culture	2 (30:0)
7. Advanced Tropical shellfish culture	2 (30:0)
8. Practical training on Aquaculture	3 (0:90)

III. Scientific research

9. MSc thesis	15 (0:450)
10. Research topic: Fish diseases	2 (0:60)
11. Research topic: Applied Microbiology in aquaculture	2 (0:60)
12. Research topic: Applied biotechnology in Aquaculture	2 (0:60)

Elective courses

I. Fundamental knowledge

13. General aspects of Aquaculture	2 (30:0)
14. Biomonitoring in aquatic environment	2 (20:20)
15. Aquatic toxicology	2 (20:20)
16. Aquaculture resources management	2 (30:0)

II. Specialized knowledge

17. Artemia culture	2 (20:20)
18. Production and value chains in aquaculture	2 (30:0)
19. Recirculation Aquaculture Systems (RAS)	2 (20:20)
20. Aquaculture genetics	2 (30:0)
21. Food safety and hygiene of aquaculture products	2 (30:0)
22. Application of GIS in aquaculture	2 (20:20)

III. Scientific research (Research topics)

23. Engineering and technology information in aquaculture	2 (0:60)
24. Tropical aquatic ecosystems	2 (0:60)
25. Applied immunology in aquaculture	2 (0:60)
26. Technology of fisheries product processing	2 (0:60)
27. Quality assurance in aquaculture production chains	2 (0:60)
28. Planning for aquaculture development	2 (0:60)
29. Tropical aquaculture specialty	2 (0:60)
30. Seaweed culture	2 (0:60)
31. Internships	2 (0:90)

*: 2 credits (20 hrs theory : 20 hrs practice)

TRAINING DURATION, LOCATION AND LANGUAGE

Training duration: 24 months

Location: Can Tho University

Institution issuing diploma: Can Tho University

Language: English



ENROLLMENT INFORMATION

Admission capacity: 20-30 students per intake

Admission requirements:

- Candidates are graduated from Aquaculture and related fields such Aquatic pathology, Fisheries management (supplementary course not needed), Agronomy, Biotechnology and other disciplines decided by Admission Council (supplementary courses needed) and attained grade of at least distinction at the undergraduate level (GPA>2.5/4.0).
- English proficiency requirement:
 - IELTS score of at least 5.5 or equivalent
 - **Not required for candidates graduated from BSc or MSc program that is instructed fully in English**

Entrance examination:

Open admission: application screening and interview

Application period:

- Deadline for application submission: June 15th annually

SCHOLARSHIPS AND TUITION FEE

- 3-5 scholarships covering all expenses for 2 years including tuition fee (in case Can Tho University and/or other agencies offering the scholarships)
- Tuition fee: 2000 USD/year (4000 USD/2 years)

CONTACT

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