



Name of institution
Lilongwe University of Agriculture
and Natural Resources

Faculty
Natural Resources

Department
Aquaculture and Fisheries Science

Programme title
Master of Science in Aquatic Animal
Health and Ecosystem Management

Name of qualification
Master of Science

AIMS OF THE PROGRAMME

The main objective of the programme is to strengthen technical and managerial capacity in health of aquatic resources. The Master of Science in Aquatic Animal Health and Ecosystem Management will give the candidate a good basis for understanding and practicing aquatic health management and disease prevention and control.

PROGRAMME STRUCTURE

The programme will consist of coursework and research. All students will take all the core courses in semester one and semester two (year one). In addition, a student will take two additional courses from electives upon approval by the major supervisor depending on the research area of the students. The second year will be used for research, data analysis, thesis writing, and final examinations.

FIRST YEAR: FIRST SEMESTER

CORE COURSES

- AHE71101** Aquatic Animal Health and Ecosystem Management Seminar I
- AHE71102** Aquatic Animal Diseases, Diagnostics and Management
- AFS71102** Biostatistics and Research Methods
- AHE71103** Environmental Biology
- AHE71104** Aquatic Food Safety and Risk Assessment

ELECTIVE COURSES

- AHE71105** Applied Fish Anatomy and Physiology
- AFS71105** Aquaculture Production Systems and Engineering
- AHE71106** Aquatic Animal Health and Policy
- AFS71103** Fish Nutrition and Feed Technology
- AHE71107** Molecular Biology Application in Ecology and Bioengineering

FIRST YEAR: SECOND SEMESTER

CORE COURSES FOR THE AQUATIC ANIMAL HEALTH SPECIALIZATION

- AHE71201** Aquatic Animal Health and Ecosystem Management Seminar II
- AHE71202** Principles of Epidemiology for Control and Prevention of Aquatic Diseases
- AHE71203** Fish Immunology
- AHE71204** Aquatic Animal Pathology

COURSES FOR THE ECOSYSTEM MANAGEMENT SPECIALIZATION

CORE COURSES

- AHE71201** Aquatic Animal Health and Ecosystem Management Seminar II
- AHE71205** Aquatic Environmental Pollution
- AFS71212** Fisheries Ecology
- AHE71206** Ecotoxicology and Risk Management

ELECTIVE COURSES

- AHE71207** Environmental and Social Impact Assessment
- AHE71208** Fish Pharmacology
- AHE71209** Limnology and Water Quality Management
- AHE71210** Principles of Economics and Entrepreneurship in Aquatic Resources

SECOND YEAR COURSES

- AHE72101** Research Progress
- AHE72201** Thesis Defense

ENTRY REQUIREMENTS

There will be multiple entry into the program as follows:

Entry qualification

Candidates to be considered for recruitment into the MSc in Aquatic Animal Health and Ecosystem Management must have a minimum of a Bachelor of Science Degree in Aquaculture, Fisheries Science, Animal/Veterinary Science, Environmental science or other relevant biological sciences, with at least a credit pass or a strong pass, and a GPA of not less than 2.6.

Pre-require knowledge and entry behaviours

In certain cases, candidates may be enrolled on condition that they take prerequisite courses before or during the course of their MSc studies.

Exemption of experiential learning and prior learning

Those with relevant Bachelor's degree with a mere pass but long working experience may also be considered.

CURRICULUM DELIVERY

Mode of delivery

The curriculum will be delivered through blended learning, that is, use of face-to-face mode of delivery and online teaching using the MOODLE and other platforms recommended by the University.

Location of programme

The curriculum is hosted at Bunda College of Agriculture in the Faculty of Natural Resources, Department of Aquaculture and Fisheries Science.

Techniques of delivery

A number of teaching methods will be employed viz: lectures, demonstrations, research, seminars, field excursions and any other as recommended by university. Students will participate in practicals outlined in the syllabus of each course. The practicals will be conducted in the dry and wet laboratories on campus and facilities at the Fish Farm. Students will also participate in field practicals at farmers' fields as well as government/private facilities.

FEES STRUCTURE

NATIONAL STUDENTS

	Year 1 (\$)	Year 2 (\$)	TOTAL (\$)
Application fee	20	-	20
Registration fee	25	25	50
Medical subscription	245	245	490
Library fee	100	100	200
Examination	65	65	130
subtotal	455	435	890
Tuition fee	1,545	1,565	3,110
Supervision fee	600	600	1,200
External and internal examination fees and postage	250	250	500
subtotal	2,395	2,415	4,810
Research	2,200	2,200	4,400
Thesis preparation	-	200	200
Sub-total	2,200	2,400	4,600

INTERNATIONAL STUDENTS

	Year 1 (\$)	Year 2 (\$)	TOTAL (\$)
Application fee	20	-	20
Registration fee	25	25	50
Medical subscription	245	245	490
Library fee	100	100	200
Examination	65	65	130
subtotal	455	435	890
Tuition fee	2,619	2,619	5,238
Supervision fee	600	600	1,200
External and internal examination fees and postage	250	250	500
subtotal	3,469	3,469	6,938
Research	2,200	2,200	4,400
Thesis preparation	-	200	200
subtotal	2,200	2,200	4,600

why study at LUANAR?

LUANAR provides a conducive environment for post graduate training with adequate resources. The New teaching and learning complex offers excellent learning and teaching environment for both undergrad and postgraduate studies. On completion of the training, LUANAR graduates are sought after both nationally and internationally because of their specialized and technical fields. By studying at LUANAR, you will have the opportunity to get an internationally recognized qualification.

You'll be exposed to some of the world class researchers and educators. The quality of your education is directly proportional to the quality of the faculty members instructing you. You will receive an education that goes beyond what is taught in the classroom. Through involvement in organizations, clubs, residence committees, and the students union at LUANAR, you will have the opportunity to polish your leadership abilities.

ENROLL WITH US

Contact us:

Head of Department, Aquaculture and
Fisheries Science
Lilongwe University of Agriculture
and Natural Resources
P.O. Box 219
Lilongwe, Malawi

Cell: +265 (0)

Tell: +265 (0) 1 227 222/260

Fax: +265 (0) 1 277 364

Email: