

## MEMORIAL UNIVERSITY OF NEWFOUNDLAND

### Academic Council March 13, 2023 (via email)

Members of Academic Council were asked to review the following item of business, via email, for approval.

Minutes – February 20, 2023.

Marine Institute – Creation of the Master of Marine Studies (Aquaculture) and removal of the Aquaculture Technology Option from the Master of Technology Management Program Calendar Revisions.

It was moved by J. Shea, and seconded by A.Lang, that the minutes and the proposed calendar changes be approved. The motion (22 yeas and 1 abstention)

CARRIED

Calendar Entry:

MMS and Graduate Diploma in Marine Studies (Aquaculture) Calendar Regulations – using Track Changes

## 25 Regulations Governing the Degree of Master of Marine Studies and Graduate Diplomas in Marine Studies

- [www.mun.ca/sqs/contacts/sqscontacts.php](http://www.mun.ca/sqs/contacts/sqscontacts.php)
- [www.mi.mun.ca](http://www.mi.mun.ca)
- [www.mun.ca/become/graduate/apply/app\\_deadlines.php](http://www.mun.ca/become/graduate/apply/app_deadlines.php)

The degree of Master of Marine Studies (M.M.S.) is offered in Fisheries Resource Management (FRM), Marine Spatial Planning and Management (MSPM) and in Aquaculture (ACUL). There are also Graduate Diplomas in Marine Studies (Fisheries Resource Management) and in Marine Studies (Aquaculture).

The Fisheries Resource Management, the Marine Spatial Planning and Management, and the Aquaculture program areas will be administered by Academic Directors appointed by the Associate Vice-President (Marine Institute), Academic and Student Affairs, together with Academic Advisory Committees.

Academic Advisory Committees for each program area will be appointed by the Dean of Graduate Studies on recommendation of the Associate Vice-President (Marine Institute), Academic and Student Affairs. Each of these committees will normally consist of the Academic Director as Chair, three members from the Marine Institute and two members from other academic units of the University. Appointments are

normally for a period of three (3) years.

For the Fisheries Resource Management programs, a Technical Advisory Committee consisting of a cross-section of members with professional expertise related to the fishery, will provide regular feedback on program content, instruction, and future direction of the Program.

For the Marine Spatial Planning and Management program, a Technical Advisory Committee, consisting of a cross-section of members with professional expertise related to the ocean/marine sector, will provide regular feedback on program content, instruction, and future direction of the Program.

For the Aquaculture program, a Technical Advisory Committee, consisting of a cross-section of members with professional expertise related to aquaculture, will provide regular feedback on program content, instruction, and future direction of the Program.

Members of these Technical Advisory Committees will be appointed by the Dean of Graduate Studies on recommendation of the Associate Vice-President (Marine Institute), Academic and Student Affairs. The Academic Director will be an ex-officio member and Chair of the Technical Advisory Committee. Normally all appointments will be for a period of three (3) years.

## **25.2 Graduate Diploma in Marine Studies (Aquaculture)**

The Graduate Diploma in Marine Studies (Aquaculture) provides students with the education, training and management level skills required to participate in aquaculture development and production.

### **25.2.1 Admission Requirements**

To be considered for admission to the Graduate Diploma in Marine Studies (Aquaculture), a student must be eligible to register in the Master of Marine Studies program (see [\*\*Master of Marine Studies \(Aquaculture\), Admission Requirements\*\*](#) below).

### **25.2.2 Program of Study**

The program is offered at the Marine Institute Campus and requires successful completion of 21 credit hours of course work that includes a 12-week internship:

- AQRS 6060 Current Topics in Aquaculture
- AQRS 6061 Finfish Aquaculture
- AQRS 6062 Shellfish Aquaculture
- AQRS 6063 Aquatic Animal Health
- AQRS 6064 Fish Nutrition and Feeding Practice
- AQRS 6065 Aquaculture Engineering Technology and Systems Operation
- AQRS 6101 Internship

### **25.2.3 Evaluation**

Students for the Graduate Diploma in Marine Studies (Aquaculture) must obtain a grade of 'B' or better in all program courses. Students must complete and receive a pass (P) in the Internship.

## **25.X Master of Marine Studies (Aquaculture)**

The Master of Marine Studies (Aquaculture) is a multi-disciplinary program providing students with exposure to the dimensions of aquaculture practice and management required to contribute to and successfully operate aquaculture development and production.

## 25.X.1 Admission Requirements

Admission to the program is on a limited and competitive basis.

1. To be considered for admission to the program an applicant will normally possess a relevant second class or better undergraduate degree from a university of recognized standing.
2. Up to two seats per year are reserved for applicants of Indigenous ancestry who have met the admission requirements but are not in the top ranked candidates. Applicants wishing to be considered under this Clause must check the appropriate space provided on the application form and provide documentation of Indigenous ancestry.
3. In exceptional cases, applicants who have not completed an undergraduate degree may be considered for admission. Preference will be given to those who have at least 10 years of relevant professional experience and have successfully completed several years of post-secondary studies. Applicants who do not meet normal admission requirements shall be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
4. Applicants who did not complete a baccalaureate or post-graduate degree at a recognized university where English is the primary language of instruction must normally complete either the:
  - a. Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
  - b. International English Language Testing System (IELTS) and achieve a score of 7 (or higher).

Information regarding the TOEFL is available from the Educational Testing Service at [www.ets.org](http://www.ets.org). IELTS information is available at [www.ielts.org](http://www.ielts.org). It is noted that other equivalent tests acceptable to the School of Graduate Studies will also be considered.

## 25.X.2 Program of Study

1. Students must successfully complete 36 credit hours, including an internship. Refer to the list of **Courses**.
2. Students who have successfully completed the Marine Institute Advanced Diploma in Sustainable Aquaculture within the last 10 years, and who have at least one year of recent, documented, and relevant industry experience will be given advanced standing credit for AQUA 6060-6065, and AQUA 6101.
3. Dependent upon the applicant's academic background or advanced standing status, other courses may be required by the Academic Advisory Committee.

## 25.X.3 Transfer of Course Credits

1. Students who successfully complete the Graduate Diploma in Marine Studies (Aquaculture) program may transfer the course credits earned in that program towards the Master of Marine Studies (Aquaculture).
2. Up to three relevant courses (9 credit hours) may be transferred into the Master of Marine Studies (Aquaculture) program from other graduate programs within the School of Graduate Studies or from other post-secondary institutions recognized by Senate, subject to the approval of the Dean of Graduate Studies on the recommendation of the Academic Director.

## 25.X.4 Evaluation

1. Students must obtain a grade of 'B' or better in all program courses.

2. Students who have received a grade less than a 'B' in a program course will be permitted to remain in the program, provided the course is retaken and passed with a grade of 'B' or better. Alternatively, the student may, on the recommendation of the Academic Advisory Committee, substitute another graduate course. Only one such repeat, or substitution will be permitted in the program.
3. Students must complete and receive a pass (P) in the Internship.

## 25.X.5 Courses

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AQRS 6061 Finfish Aquaculture  
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AQRS 6063 Aquatic Animal Health  
AQRS 6064 Fish Nutrition and Feeding Practice  
AQRS 6065 Aquaculture Engineering Technology and Systems Operation  
AQRS 6101 Internship  
[MSTM 6072 Animal Husbandry Management](#)  
[MSTM 6073 Aquaculture Environmental Management](#)  
[MSTM 6074 Aquaculture Site and Operational Assessment](#)  
[MSTM 6075 Aquaculture Engineering Technology Management](#)  
[TECH 6022 Communication and Conflict Resolution in a Technical Environment](#)

MMS and Graduate Diploma in Marine Studies (Aquaculture) Calendar  
Regulations – clean copy

# 25 Regulations Governing the Degree of Master of Marine Studies and Graduate Diplomas in Marine Studies

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Amy Warren, Chair

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Echo Pittman, Secretary