MARINE INSTITUTE

2021-2022 VIEWBOOK

MARINE INSTITUTE

MEMORIAL UNIVERSITY

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WHO WE ARE

Welcome to the Marine Institute.

We're a world-leading centre for marine and ocean-related career education and research. As part of Memorial University, the Marine Institute provides you with credentials that are recognized around the world.

As the largest institute of its kind in Canada, Marine Institute offers a suite of programs that are found nowhere else in the country. A cutting-edge education from the Marine Institute is one of the most affordable in Canada and gives you credentials that are recognized around the globe.

WHERE WE ARE

St. John's

The most easterly city in North America, St. John's has been at the center of the ocean-going world for over 500 years.

Here is where the Old World meets the New. Hike unspoiled wilderness. Explore thousands of kilometers of coastline. Closer to campus, the City of St. John's offers a lively downtown scene of restaurants, pubs and shops. As part of Memorial University, enrolment at MI gives you access to over 100 student union clubs that span the range of academic, athletic, political, religious and recreational interests.

Stephenville

MI's Stephenville location is set on Newfoundland's beautiful west coast.

Safety programs like Fire Rescue are centered here at the Safety and Emergency Response Training Centre (SERT). From Stephenville, you can tour the world-renowned Gros Morne National Park and enjoy an array of other outdoor activities.

Just make sure you find some time to study.

GUIDE TO PROGRAMS
(UNDERGRADUATE)

The Marine Institute offers a wide variety of programs that include a mix of classroom instruction and in-the-field training.

TECHNICAL SESSION
A period of study from three to eight weeks usually held after the winter semester in April.

SEA DAYS
Official 'sea days' that qualify for Transport Canada certification and are documented by a vessel's senior officers or crew.

WORK TERM
An MI-approved experiential learning opportunity included as a part of the requirements of an academic program that may require completion of a log book, report or portfolio.

SEMESTER
A period of approximately 15 weeks during which regular classes are held. Normal start dates are September, January and May.

UNDERGRADUATE DEGREES & DIPLOMAS
- Bachelor Degree
- Diploma of Technology
- Diploma of Technology / Bachelor of Technology
- Technician Diploma

GUIDE TO PROGRAMS
(UNDERGRADUATE)

BACHELOR DEGREE:
A convenient and practical opportunity that enables laddering of a diploma program.

DIPLOMA OF TECHNOLOGY:
A three- to four-year program that offers hands-on technical sessions and the ability to complete a bachelor degree with one additional year.

DIPLOMA OF TECHNOLOGY/BACHELOR OF TECHNOLOGY:
This program offers an option to add an additional year to earn a bachelor degree.

TECHNICIAN DIPLOMA:
A two-year program that offers hands-on training and a work-term, with the opportunity to complete a bachelor degree with two additional years.

TECHNICAL CERTIFICATE:
This hands-on educational opportunity can be completed in one year or less and includes a practical work term.

UNDERGRADUATE CERTIFICATE:
A flexible option for students seeking to develop specialized knowledge and competencies and placing greater emphasis on foundation-level knowledge.

GUIDE TO PROGRAMS
(GRADUATE AND BACHELOR)

The Marine Institute offers a host of graduate programs ranging from advanced diplomas to doctoral programs in the fields of marine technology and management to fisheries science to quality management.

UNDERGRADUATE CERTIFICATE:
A flexible option for students seeking to develop specialized knowledge and competencies and placing greater emphasis on foundation-level knowledge.

UNDERGRADUATE DEGREE:
39-credit hour bachelor degrees that build on diploma programs in the maritime, engineering technology, and health sciences technology industries.

ADVANCED DIPLOMA:
A one-year graduate option that builds on a diploma or degree program and includes technical and hands-on experience as well as work term opportunities.

POST-GRADUATE CERTIFICATE:
A four-course online certificate that is built for the busy professional.

GRADUATE DIPLOMA:
A 15- or 18-credit hour diploma building on a program. A graduate diploma provides opportunities for students to develop highly technical and professional capabilities in either ocean mapping or fisheries resource management.

PRIMARILY COURSE-BASED MASTER'S DEGREE:
24 or 30-credit hour master's programs. Programs are offered on-campus or a combination, and some offer options for research papers, projects or internships.

RESEARCH-BASED MASTER'S DEGREE:
A two-year on campus graduate option with a research-based thesis. Some courses may be offered online.

DOCTOR OF PHILOSOPHY DEGREE:
A four year on-campus PhD with a research-based thesis. Some courses may be offered online.

MARINE ENGINEERING

DIPLOMA OF TECHNOLOGY

Maintain and control ship systems and operate onboard machinery in senior positions.

SKILLS & INTERESTS

You have the technical aptitude and ability to analyze and troubleshoot the interconnected workings of complex machinery.

WORK ENVIRONMENT

Onshore and onboard marine vessels in engineering and technical positions around the world

POTENTIAL CAREERS

- Marine Vessel Engineer
- Positions in government and engineering firms
- Fleet Superintendent

SAMPLE COURSES

- Marine Engineering Knowledge
- Electrotechnology
- Naval Architecture

TOTAL PROGRAM LENGTH

4 YEARS

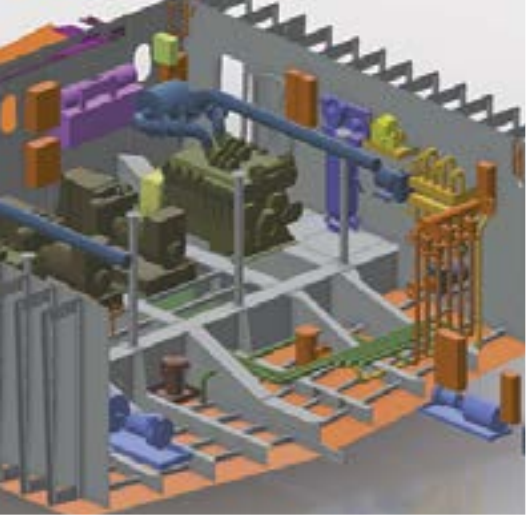
PRACTICAL EXPERIENCE

180 SEA DAYS

3 TECHNICAL SESSIONS

WHAT ALUMNI SAY

"This program formed the foundation I needed to confidently enter the workforce and gave me the opportunities that enabled me to begin my career."
- Jessica Butler, MI Graduate



WHAT ALUMNI SAY

"At the Marine Institute, I was able to achieve a high-quality education that is recognized worldwide." **- Alicia Nash, MI Graduate**

MARINE ENGINEERING SYSTEMS DESIGN

DIPLOMA OF TECHNOLOGY

Apply engineering and architectural principles, in the elite production areas of piping, propulsion and other mechanical systems that operate ships, drilling platforms and subsea structures.

SKILLS & INTERESTS

You're a versatile problem solver, using math and science to develop effective engineering design solutions for marine and land-based industries.

WORK ENVIRONMENT

Worldwide opportunities for office-based design work and on-site consultation

POTENTIAL CAREERS

- Marine Systems Drafter/ Designer
- Piping Designer
- Project Manager
- Mechanical Technologist

SAMPLE COURSES

- Ship Engineering Design
- Machinery Arrangement
- Fluid Mechanics

TOTAL PROGRAM LENGTH

3 YEARS

PRACTICAL EXPERIENCE

3 TECHNICAL SESSIONS

NAUTICAL SCIENCE

DIPLOMA OF TECHNOLOGY

Your ticket to the realm of international shipping on the Seven Seas and the inland waterways of the world. Take command of your future!

SKILLS & INTERESTS

You love being on the water and have leadership skills.

WORK ENVIRONMENT

You don't want to be chained to a desk; you have a passion for the natural environment and may have heard a call in the ocean's roar.

POTENTIAL CAREERS

- Captain or watchkeeping officer on ships from tug boats to supertankers
- Marine consultant for private industry
- Lecturer in maritime education and training

SAMPLE COURSES

- Navigation
- Ship Stability
- Cargo Operations

TOTAL PROGRAM LENGTH

4 YEARS

PRACTICAL EXPERIENCE

360 SEA DAYS

3 TECHNICAL SESSIONS

WHAT ALUMNI SAY

"The Nautical Science program enabled me the opportunity to work in the international maritime and oil & gas industries, take command of a 258 metre Floating Production and Storage unit Offshore (FPSO), become a certified marine surveyor, lecture at the Marine Institute and take a management position with one of the largest tanker companies in the world." **- Rob McNamara, MI Graduate**

NAVAL ARCHITECTURE

DIPLOMA OF TECHNOLOGY

Design large ships, small craft and floating structures for the world's waterways.

SKILLS & INTERESTS

With an eye for detail and an aptitude for design, you see the art and science in a vessel's curves and lines.

WORK ENVIRONMENT

Worldwide opportunities for office-based design work, on-site consultation and project management.

POTENTIAL CAREERS

- Naval Architect
- Engineering Technologist
- Yacht Designer
- Ship Inspector

SAMPLE COURSES

- Ship Design
- Stability
- Resistance and Propulsion
- Structural Engineering

TOTAL PROGRAM LENGTH

3 YEARS

PRACTICAL EXPERIENCE

3 TECHNICAL SESSIONS

WHAT ALUMNI SAY

"The Naval Architecture program gave me the technical skills and knowledge that allowed me to work immediately after graduation in both a design office and shipyard environment. I would highly recommend the program to anyone that has an interest in learning how vessels are designed and constructed."
- Scott Rose, MI Graduate

MARINE ENVIRONMENTAL TECHNOLOGY

DIPLOMA OF TECHNOLOGY

Protect and manage marine environments as well as rivers, lakes, and coastal areas.

SKILLS & INTERESTS

You have an appreciation of marine habitats and are interested in the science of conservation and management.

WORK ENVIRONMENT

In the field, in the lab and in the office.

POTENTIAL CAREERS

- Environmental and Regulatory Advisor
- Lab Technologist
- Health, Safety and Environmental Officer

SAMPLE COURSES

- Marine Biology
- Oceanography
- Basic Oil Spill Response

TOTAL PROGRAM LENGTH

3 YEARS*

* With an option to complete a Bachelor of Technology in one additional year

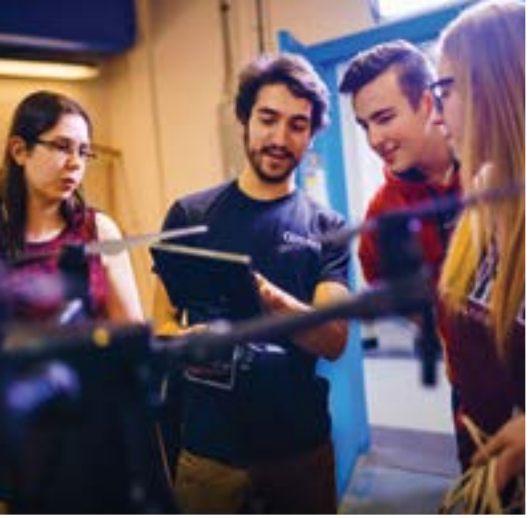
PRACTICAL EXPERIENCE

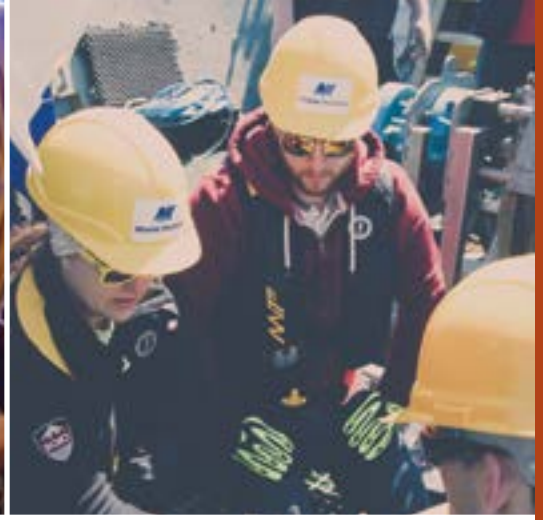
2 WORK TERMS

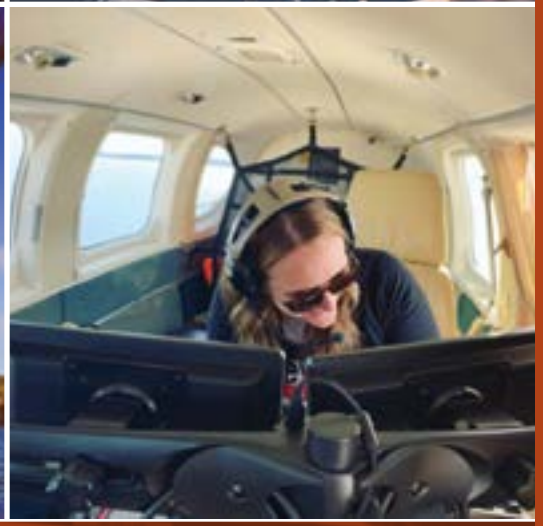
2 TECHNICAL SESSIONS

WHAT ALUMNI SAY

"The laboratory, field and office based skills and experience that I gained through the Marine Environmental Technology program allow me to confidently participate in diverse, meaningful and challenging work environments."
- Ashley Davies-Marsh, MI Graduate







OCEAN MAPPING

DIPLOMA OF TECHNOLOGY / BACHELOR OF TECHNOLOGY

Delve deep into the study of the ocean using industry-driven acoustic technology and leading edge software applications.

SKILLS & INTERESTS

Ever wonder what lies beneath? Want to map the unknown? Discover your inner explorer and unlock the mysteries of the ocean.

WORK ENVIRONMENT

Offshore and onshore data processing, analysis, management and dissemination

POTENTIAL CAREERS

- Hydrographic / Geophysical Technologist
- Geographic Information Systems Specialist
- UAV / Drone Pilot

SAMPLE COURSES

- Multibeam Sonar
- Sidescan Sonar
- Oceanography
- Geographic Information Systems
- Underwater Acoustics

TOTAL PROGRAM LENGTH

4 YEARS* * With an option to exit at 3 years with Diploma of Technology

PRACTICAL EXPERIENCE

1 WORK TERM | **3 TECHNICAL SESSIONS**

WHAT ALUMNI SAY

"The skills and knowledge gained from this program open so many doors in the field of Ocean Mapping. From mapping seamounts off the coast of Mexico, exploring the icy waters of the Arctic, or charting the coastal shores of Newfoundland, this program will take you there. Go explore our oceans; MI will help make it possible!" **- Sarah Walsh, MI Graduate**

UNDERWATER VEHICLES

DIPLOMA OF TECHNOLOGY / BACHELOR OF TECHNOLOGY

Pilot, operate and maintain remotely operated vehicles and autonomous underwater vehicles through challenging underwater environments.

SKILLS & INTERESTS

You're ready to turn your interest in electromechanical technology and robotics into a career in underwater vehicles.

WORK ENVIRONMENT

Offshore oil, gas and wind energy, exploration and subsea structures, onshore manufacturing, simulation, research support and aquaculture industries

POTENTIAL CAREERS

- ROV pilot, • AUV Operator
- AUV Design Integration
- Electronics Technician/ Technologist
- Support operations in diving, research vessels, survey and maintenance
- Career paths within offshore industries and navy

SAMPLE COURSES

- Autonomous Underwater Vehicle design
- Control Electronics
- Hydraulics
- ROV piloting

WHAT ALUMNI SAY

"I've travelled to some very interesting places and met some pretty interesting people. Choosing the ROV program was a great decision."
- Karla Brown, MI Graduate

TOTAL PROGRAM LENGTH

4 YEARS* * With options to exit at 2 years with a Technician Diploma in Remotely Operated Vehicles or at 3 years with a Diploma of Technology

PRACTICAL EXPERIENCE

1 WORK TERM

2 TECHNICAL SESSIONS

REMOTELY OPERATED VEHICLES

TECHNICIAN DIPLOMA

Pilot, operate and maintain remotely operated vehicles through challenging environments.

SKILLS & INTERESTS

You are ready to turn your interest in electronics, hydraulics and machines into a career in remotely operated vehicles.

WORK ENVIRONMENT

Offshore oil, gas and wind energy, exploration and subsea structures, onshore manufacturing, simulation, and aquaculture industries

POTENTIAL CAREERS

- ROV Pilot, Technician
- Support operations in diving and research vessels
- Career paths within offshore industries and navy

SAMPLE COURSES

- ROV Piloting
- Control Electronics
- Hydraulics

WHAT ALUMNI SAY

"The program is a good merger of theory based subjects and practical applications of the skills I've learned, including being able to work hands on with vehicle systems. I'm looking forward to starting a research career, using ROVs to study geological features of the seafloor." **- Keely-Shaye Lullwitz, MI Graduate**

TOTAL PROGRAM LENGTH

2 YEARS* * Advanced standing option available to enter into year two. Students can continue into the Underwater Vehicles program in the third year.

PRACTICAL EXPERIENCE

1 WORK TERM

2 TECHNICAL SESSIONS

WHAT ALUMNI SAY

"I had a great experience, which I am now applying as an employee. My life has changed." **- Tia England, MI Graduate**

BRIDGE WATCH

TECHNICAL CERTIFICATE

Prepare for a career as a Bridge Watch Rating on board ships anywhere in the world.

SKILLS & INTERESTS

You're ready to launch into a hands-on career aboard vessels with the skills needed to fill multiple roles.

WORK ENVIRONMENT

Rotational work on board ships

POTENTIAL CAREERS

- Bridge Watchman
- Deckhand
- Employment aboard cargo and passenger ships, oil tankers, supply and fishing vessels

SAMPLE COURSES

- Seamanship
- Marine Safety
- Marine Basic First Aid
- Oil and Chemical
- Tanker Familiarization

TOTAL PROGRAM LENGTH

8 MONTHS
IN CLASS INSTRUCTION INCLUDING SAFETY TRAINING

PRACTICAL EXPERIENCE

1 WORK TERM **60 SEA DAYS**

FIRE RESCUE

TECHNICAL CERTIFICATE

Train for nationally-certified credentials as a firefighter.

SKILLS & INTERESTS

You're a calm-under-pressure person ready for a rewarding career on the front lines of emergency situations. This program fulfils the National Fire Protection Association professional standard.

WORK ENVIRONMENT

Emergency situations and on-site firefighting using specialized equipment

POTENTIAL CAREERS

- Municipal, airport and industrial fire departments

SAMPLE COURSES

- Firefighter Level I and II
- Fire Apparatus Driver Operator
- Technical Rescuer

TOTAL PROGRAM LENGTH

2 TERMS

PRACTICAL EXPERIENCE

1 WORK TERM

WHAT ALUMNI SAY

"Marine Institute gives more than the ability to pursue a career in the fire service, they give the confidence and knowledge required to step into the real world of firefighting." **- Kyle Castelin, MI Graduate**

MARINE DIESEL MECHANICS

TECHNICAL CERTIFICATE

Prepare for a career at sea as an Engine Room Rating. Learn about the operation and maintenance of a ship's engines and auxiliary machinery.

SKILLS & INTERESTS

You have a desire to go to sea as a team player in the Engine Room Department and a mechanical aptitude with a drive to help troubleshoot machinery.

WORK ENVIRONMENT

- Rotational work onboard a variety of ships and offshore rig installations

POTENTIAL CAREERS

- Shipboard Engine Room Rating
- Employment aboard cargo and passenger ships, oil tankers, supply vessels and offshore installations

SAMPLE COURSES

- Marine Engine Room Knowledge
- Machine Shop Practice
- Welding Practice
- Ship Construction and Stability

TOTAL PROGRAM LENGTH

1 YEAR
IN CLASS INSTRUCTION INCLUDING SAFETY TRAINING

PRACTICAL EXPERIENCE

1 WORK TERM (90 SEA DAYS)

1 TECHNICAL SESSION

WHAT ALUMNI SAY

"Marine Diesel Mechanics is an excellent program. Great instructors and courses like Welding and Marine Engineering Knowledge prepare graduates for a fulfilling career in the Marine industry." **- Brad Oxford, MI Graduate**

TUITION + FINANCES

The Marine Institute offers you a competitive tuition that maximizes your educational assets. Our affordable tuition is just another reason why the Marine Institute is where you want to be. Visit **www.mi.mun.ca/programs and courses/programsandfees** for up-to-date information on tuition and fees, including compulsory fees for all programs.

PLEASE NOTE that the governing body of Memorial University, the Board of Regents, has approved a new schedule of undergraduate program tuition fees including the Marine Institute programs, that will take effect in fall 2022.

Please refer to **www.mi.mun.ca/programsandcourses/programsandfees** for the most up to date information on tuition and fees for the 2022-23 academic year.

The contents of this publication set forth the intentions of the Marine Institute at the time of publication with respect to program offerings, admissions and fees. The Marine Institute expressly reserves the right to deviate from the contents of this publication.

All fees are subject to change without notice. Readers should check the Marine Institute Calendar and the Memorial University Calendar for regulations governing the program offerings, admissions and fees of the Marine Institute and Memorial University.

ACCOMMODATIONS

Memorial University offers many on campus housing options, including dormitory and apartment style residences that are on transportation routes to the Marine Institute Campus. Apply early at **www.mun.ca/residences**

SCHOLARSHIPS + AWARDS

As a campus of Memorial University, students completing a program at the Marine Institute which can lead to a degree are eligible for all general Memorial entrance scholarships.

Memorial University offers its students many opportunities to receive scholarships and awards throughout their program of study, including a limited number of entrance scholarships available to incoming high school applicants.

For more details, visit **mun.ca/scholarships**

While entrance scholarships are not currently available to international students, other scholarships are available once an international student is enrolled with the Marine Institute.

The Marine Institute campus has two scholarship ceremonies a year with a variety of scholarships and awards available to new and returning full-time students.

For details on specific scholarships, visit **www.mi.mun.ca/calendar/current/studentinformation/scholarshipsawardsbursaries/**

HIGH SCHOOL EQUIVALENCIES CHART

For Diplomas of Technology, Technician Diplomas, Diplomas of Technology/Bachelor of Technology: Applicants should have successfully completed the graduation requirements for high school, with a minimum overall average of 60% in mathematics, English and a laboratory science. Students completing academic level math require a minimum 60 per cent in that course.

For other program entrance requirements, visit **www.mi.mun.ca/futurestudents**

Note: There may be other acceptable courses in addition to those listed below. Should you have questions concerning a specific course, please contact our Admissions Office directly at **admissions@mi.mun.ca**

PROVINCE/ TERRITORY	ENGLISH	MATHEMATICS	LABORATORY SCIENCE
NEWFOUNDLAND AND LABRADOR	ENGLISH 3201	MATH 3200 MATH 3201	BIOLOGY 3201 CHEMISTRY 3202 EARTH SYSTEMS 3209 PHYSICS 3204
NOVA SCOTIA	ENGLISH 12	MATH 12 ADVANCED MATH 12 PRE-CALCULUS 12 CALCULUS 12	BIOLOGY 12 CHEMISTRY 12 GEOLOGY 12 PHYSICS 12
NEW BRUNSWICK	ENGLISH 121 ENGLISH 122	FOUNDATIONS OF MATH 120 PRE-CALCULUS MATH A/B 120 CALCULUS 120	BIOLOGY 121/122 CHEMISTRY 121/122 PHYSICS 121/122
PRINCE EDWARD ISLAND	ENGLISH 621A	FOUNDATIONS OF MATH 621A PRE-CALCULUS 621B CALCULUS 611B	BIOLOGY 621A CHEMISTRY 621A PHYSICS 621A
QUEBEC	ENGLISH LANGUAGE ARTS (536)	TECHNICAL AND SCIENTIFIC MATH (506) SCIENCE MATH (506)	CHEMISTRY (504) PHYSICS (504)
ONTARIO	ENG 4C ENG 4U EAE 4U	MATHMATICS FOR COLLEGE TECHNOLOGY (MCT) 4U ADVANCED FUNCTIONS (MHF) 4U CALCULUS & VECTORS (MCV) 4U MATH OF DATA MANAGEMENT (MDM) 4U	BIOLOGY 4U CHEMISTRY 4C/4U EARTH & SPACE 4U PHYSICS 4C/4U
MANITOBA	ENGLISH LANGUAGE ARTS 40S	APPLIED MATH 40S PRE-CALCULUS 40S	BIOLOGY 40S CHEMISTRY 40S PHYSICS 40S
SASKATCHEWAN	ENGLISH LANGUAGE ARTS 30A ENGLISH LANGUAGE ARTS 30B	FOUNDATIONS OF MATH 30 PRE-CALCULUS MATH 30 CALCULUS 30	BIOLOGY 30 CHEMISTRY 30 EARTH SCIENCE 30 PHYSICS 30
ALBERTA, NWT & NUNAVUT	ENGLISH LANGUAGE ARTS 30-1	MATH 30-1 MATH 30-2 MATH 31	BIOLOGY 30 CHEMISTRY 30 PHYSICS 30
BRITISH COLUMBIA & YUKON	ENGLISH 12	FOUNDATIONS OF MATH 12 PRE-CALCULUS 12 CALCULUS 12	BIOLOGY 12 CHEMISTRY 12 GEOLOGY 12 PHYSICS 12

BACHELOR & GRADUATE PROGRAMS

MARITIME STUDIES (MARITIME MANAGEMENT)

BACHELOR DEGREE

Learn cutting-edge management concepts for today's maritime related industries.

SKILLS & INTERESTS

You have a background in a maritime related field and want an in-depth understanding of best management and safety practices in maritime industries.

WORK ENVIRONMENT

On board ships and onshore in marine-related sectors

POTENTIAL CAREERS

- Senior Ship's Officer
- Marine Management
- Human Resources
- Economics and Marketing
- Quality Management

SAMPLE COURSES

- Marine Environmental Management
- Organization and Issues of Shipping
- Ship Operations Management

TOTAL PROGRAM LENGTH

39 CREDIT HOURS completed on a full-time and part time basis. Online Delivery with select courses available on campus.

PRACTICAL EXPERIENCE

13 COURSES

WHAT ALUMNI SAY

"As a serving officer of the Royal Canadian Navy (RCN) the BMS program allowed me to take the practical experience from the RCN, and apply it in an academic context. The flexibility of completing courses online allowed me to advance my career while simultaneously pursuing my degree." **- Daniel Fletcher, MI Graduate**

MARITIME STUDIES (SAFETY MANAGEMENT)

BACHELOR DEGREE

Manage emerging safety, health, environment, security, and quality issues for the maritime industry.

SKILLS & INTERESTS

You want to encourage the principles of a safety culture within a maritime organization and are dedicated to maintaining and improving safety standards.

WORK ENVIRONMENT

In the field, on land or offshore for the maritime industry.

POTENTIAL CAREERS

- Marine Safety Officer/ Inspector/Supervisor
- Fleet Safety Manager
- Port Authority Safety Coordinator
- Safety Policy Analyst
- National Marine Safety Management

SAMPLE COURSES

- Marine Environmental Management
- Human Factors in the Maritime Sector
- Risk Management in the Maritime Sector

TOTAL PROGRAM LENGTH

39 CREDIT HOURS Full-time and Part-time (online with select courses available on campus)

PRACTICAL EXPERIENCE

13 COURSES

WHAT ALUMNI SAYS

The Bachelor of Maritime Studies – Safety Management Program at MI has provided me with an opportunity to increase my knowledge of maritime studies and gain various professional skills for the industry. By completing the program through distance education, I can work full time while furthering my professional development."

Jill Balsom, BMS (Safety Management) graduate

WHAT ALUMNI SAY

"The course content was extensive and has played a pivotal role in my career success to date." **- Kirk Elliott, MI Graduate**

TECHNOLOGY

(ENGINEERING AND APPLIED SCIENCE)

BACHELOR DEGREE

Prepare for a career as a technology leader.

SKILLS & INTERESTS

You have a technologist background, now you're ready to develop the skills needed for supervisory positions.

WORK ENVIRONMENT

Management in a number of industries.

POTENTIAL CAREERS

- Technical Manager
- Project Manager
- Project Supervisor

SAMPLE COURSES

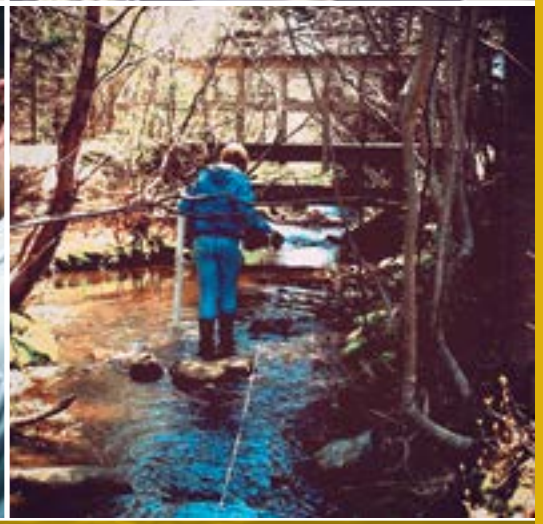
- Project Management
- Technology Assessment
- Quality Management

TOTAL PROGRAM LENGTH

39 CREDIT HOURS completed on a full-time and part time basis. Online Delivery with select courses available on campus.

PRACTICAL EXPERIENCE

13 COURSES



TECHNOLOGY

(HEALTH SCIENCE TECHNOLOGY)

BACHELOR DEGREE

Apply technology and business management principles to the health science field.

SKILLS & INTERESTS

You have a background in the health science field and want to advance to apply your human resource and business management knowledge.

WORK ENVIRONMENT

- Health Care
- Laboratories
- Testing Environment
- Health Care Information Systems

POTENTIAL CAREERS

- Project Manager
- Information Supervisor
- Laboratory Supervisor
- Policy Supervisor

SAMPLE COURSES

- Project Management
- Health Care Management
- Technical Operations Management

TOTAL PROGRAM LENGTH

39 CREDIT HOURS completed on a full-time and part time basis. Online Delivery with select courses available on campus.

PRACTICAL EXPERIENCE

13 COURSES

WHAT ALUMNI SAY

"I truly enjoy working in the field of Medical Laboratory Technology and the B. Tech (Health Science) program opens up management and other opportunities while giving me a sense of personal and professional accomplishment."
- Cindy Hann, MI Graduate

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LEADERSHIP

UNDERGRADUATE CERTIFICATE

Discover the leader within.

SKILLS & INTERESTS

You want to empower your career as an influential, dynamic leader in your field, demonstrating critical thinking and informed, strategic decision-making abilities.

WORK ENVIRONMENT

- Private, public and non-profit organizations
- government
- regulatory agencies
- academic institutions
- consulting

POTENTIAL CAREERS

- Management positions
- Leadership roles
- Consultant
- Advisor

SAMPLE COURSES

- Special Topics in Leadership
- Law, Governance, and Public Policy
- Introduction to Business in Society

TOTAL PROGRAM LENGTH

24 CREDIT HOURS (with a pass/fail 6-week intersession course that ends with a residency Leadership Seminar in St. John's, that is also available virtually to those who cannot attend in person).

PRACTICAL EXPERIENCE

LEADERSHIP KEYSTONE COURSE

FOOD SAFETY

ADVANCED DIPLOMA

Work on the front lines protecting the public from food-related issues.

SKILLS & INTERESTS

Apply your scientific and analytical abilities to protect the food we eat.

WORK ENVIRONMENT

Food-related facilities, analytical laboratories, government departments.

POTENTIAL CAREERS

- Food Safety Specialist
- Quality Assurance Manager
- Food Safety
- HACCP Coordinator
- Quality Control Specialist

SAMPLE COURSES

- Food Chemistry
- Food Microbiology
- Fundamentals of Food Law

TOTAL PROGRAM LENGTH

1 YEAR (ON CAMPUS)

PRACTICAL EXPERIENCE

1 WORK TERM

WHAT ALUMNI SAY

"The Advanced Diploma in Food Safety program is focused on how the food industry is managed and regulated and provides solid career skills for the manufacturing and processing side of the industry."
-Cherie King, MI Graduate

SUSTAINABLE AQUACULTURE

ADVANCED DIPLOMA

Train for a leading role in the global aquaculture industry.

SKILLS & INTERESTS

You want to feed the world through sustainable and healthy food production.

WORK ENVIRONMENT

- Marine and freshwater fish farms, hatcheries
- Government agencies
- Research institutes

POTENTIAL CAREERS

- Aquaculture Technician
- Aquaculture Site Manager
- Aquaculture Development Officer

SAMPLE COURSES

- Aquaculture and the Environment
- Aquaculture Engineering
- Finfish and Shellfish Culture

TOTAL PROGRAM LENGTH

1 YEAR (ON CAMPUS)

PRACTICAL EXPERIENCE

1 WORK TERM

WHAT ALUMNI SAY

"The Sustainable Aquaculture program provides a wide range of hands-on and classroom experiences in a communal, family-like setting; preparing students to make valuable contributions to the field of aquaculture and to support this vital method of food production." **- Max Licker, MI Graduate**

WATER QUALITY

ADVANCED DIPLOMA

Develop the skills and knowledge necessary for responsible utilization and treatment of water resources.

SKILLS & INTERESTS

You're thirsty for a career in the scientific, technical, and social aspects surrounding water resources.

WORK ENVIRONMENT

Field work, laboratory settings, water/ wastewater facilities, government departments, consulting and environmental firms.

POTENTIAL CAREERS

- Environmental Scientist
- GIS and Environmental Specialist
- Water Quality Treatment Supervisor

SAMPLE COURSES

- Water Chemistry
- Environmental Policy
- GIS and Remote Sensing

TOTAL PROGRAM LENGTH

1 YEAR (ON CAMPUS)

PRACTICAL EXPERIENCE

1 WORK TERM | **1 TECHNICAL SESSION**

WHAT ALUMNI SAY

"I would label my experience at the Marine Institute (MI) as life changing. The work term I obtained through the program was with my current employer. Had I not pursued the Water Quality program at the Marine Institute, I may have never obtained the job I have today." **- Natasha Warren, MI Graduate**

WHAT ALUMNI SAY

"I enjoyed every minute of the program. The instructors were great and I found the course material to be very relevant to my job." **- Paula Chaplin, MI Graduate**

QUALITY MANAGEMENT

POST-GRADUATE CERTIFICATE

Learn advanced management strategies that apply to any industry or sector.

SKILLS & INTERESTS

You are a busy professional desiring to build competencies in quality management and enhance personal productivity.

WORK ENVIRONMENT

Office and technical environments working with people, processes and quality systems.

POTENTIAL CAREERS

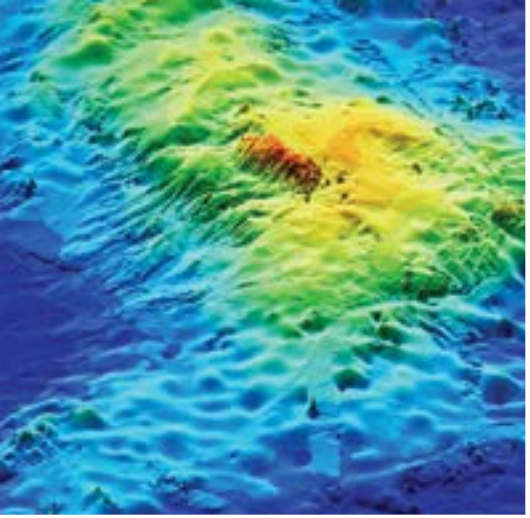
- Quality Management Systems Manager
- Quality Assurance Manager
- Project Manager

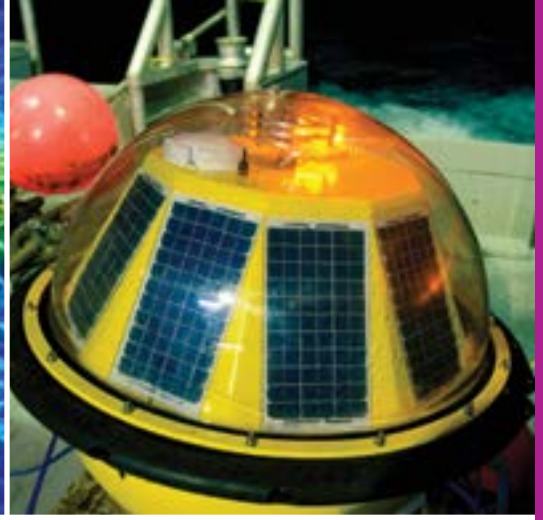
SAMPLE COURSES

- Quality Management
- Project Management
- ISO Management

TOTAL PROGRAM LENGTH

4 COURSES (ONLINE)





APPLIED OCEAN TECHNOLOGY (OCEAN MAPPING)

GRADUATE DIPLOMA

Develop the required level of technological literacy and competency to be an effective ocean mapper through advanced and applied technical training and applied research.

SKILLS & INTERESTS

You want to develop theoretical and highly-technical skills to enter the multi-disciplinary field of ocean mapping.

WORK ENVIRONMENT

Government agencies, surveying companies, engineering and environmental consultancies, intergovernmental bodies, Non-Governmental Organizations, not-for-profit organizations, university research teams.

POTENTIAL CAREERS

- Marine Surveyor
- Geospatial Specialist
- Data Analyst

SAMPLE COURSES

- Applied Hydrography
- Applied Geodesy and Positioning
- Ocean Mapping Field Course

TOTAL PROGRAM LENGTH

15 CREDIT HOURS (ON CAMPUS)

WHAT FACULTY SAY

"The Graduate Diploma of Applied Ocean Technology (Ocean Mapping) is ideal for those individuals who would like to enhance their technical skills to complement prior learning and work experiences, making them more employable within the multi-disciplinary, eclectic and diverse ocean technology sector."
– Paul Elliott, Academic Director, Marine Institute

MARINE STUDIES

(FISHERIES RESOURCE MANAGEMENT)

GRADUATE DIPLOMA

Broaden your insights and perspective on fishery issues from a variety of disciplines.

SKILLS & INTERESTS

You're a fisheries professional who's looking to enhance your perspective on fishery issues and the interconnected, economic, political, ecological and oceanographic challenges of fisheries management.

WORK ENVIRONMENT

- Fish harvesting companies
- Government institutes
- International agencies and policy organizations

POTENTIAL CAREERS

- Fisheries Officer
- Fisheries Consultant
- Fisheries Policy Analyst

SAMPLE COURSES

- Overview of World Fisheries
- Fisheries Resource Assessment Strategies
- Fisheries Economics

WHAT ALUMNI SAY

"The diverse curriculum in this program taught me how complex and inter-twined social, political, economic, and ecological factors are in affecting outcomes of the fisheries ecosystem, and it taught me how to assist in the management of fish and fish harvesters within context of the "fisheries ecosystem."
- Darrell Mullowney, MI Graduate

TOTAL PROGRAM LENGTH

18 CREDIT HOURS (ONLINE)

APPLIED OCEAN TECHNOLOGY (OCEAN MAPPING)

MASTER'S DEGREE

Acquire, analyze, manage and communicate ocean data to develop real-world solutions for the sustainable management of our ocean resources.

SKILLS & INTERESTS

You want to develop theoretical and highly-technical skills to enter the multi-disciplinary field of ocean mapping.

WORK ENVIRONMENT

Government agencies, surveying companies, engineering and environmental consultancies, intergovernmental bodies, Non-Governmental Organizations, not-for-profit organizations, university research teams

POTENTIAL CAREERS

- Geospatial Specialist
- Hydrographer
- Ocean Technologist

SAMPLE COURSES

- Applied Underwater Acoustics
- Marine Geology and Geophysics
- Introduction to Marine Renewable Energy

TOTAL PROGRAM LENGTH

30 CREDIT HOURS (ON CAMPUS)

WHAT FACULTY SAYS

"The Master of Applied Ocean Technology (Ocean Mapping) is unique, multi-disciplinary, industry-relevant, technical and applied by design. It fosters the development of enhanced technological literacy and competency within a student-centered, transformational learning environment that links the knowing with the doing and assists in making the transition from academia to industry as seamless as possible."
– Paul Elliott, Academic Director, Marine Institute

MARINE STUDIES

(FISHERIES RESOURCE MANAGEMENT)

MASTER'S DEGREE

Gain a multidisciplinary graduate degree in the entire range of fisheries management issues.

SKILLS & INTERESTS

You want to delve deeper into the interconnected economic, political, ecological and oceanographic challenges of fisheries management.

WORK ENVIRONMENT

- Fish harvesting companies
- Government institutes
- International agencies and policy organizations.

POTENTIAL CAREERS

- Fisheries Management
- Fisheries Consultant
- Fisheries Policy Analyst

SAMPLE COURSES

- Fisheries Ecology
- Fisheries Policy and Planning
- Fisheries Economics

TOTAL PROGRAM LENGTH

30 CREDIT HOURS OR **24 CREDIT HOURS** + MAJOR PAPER (ONLINE)

WHAT ALUMNI SAY

"The Fisheries Resource Management program gave me a great understanding of how our ocean resources are managed and the steps that are taken to ensure sustainability. Course instructors all have practical experience in their subject areas and were able to easily relate the material alongside current and past events. I highly recommend the program to anyone who envisions a career in protecting, sustaining and becoming involved in fisheries." **- Sheamus MacDonald, MI Graduate**

MARINE STUDIES

(MARINE SPATIAL PLANNING & MANAGEMENT)

MASTER'S DEGREE

Influence, lead, and provide decision making support for the management and planning of coastal and marine spaces.

SKILLS & INTERESTS

You want to work collaboratively to analyze how development impacts the ecological, economic, social and cultural aspects of coastal and marine areas and deliver sustainable solutions.

WORK ENVIRONMENT

Government agencies, eNGOs, coastal and ocean industry sectors, consulting companies.

POTENTIAL CAREERS

- Marine Spatial Planning Officer/Specialist
- Marine Planner
- Coastal and Marine Manager

SAMPLE COURSES

- Geospatial Analysis for Marine Spatial Planning
- Marine Protected Areas
- Communication and Conflict Resolution

WHAT ALUMNI SAY

I'm thankful to have had the opportunity to take the MMS (MSPM) program. The program provides the core foundations required to understand, practice and implement the increasingly important field of marine spatial planning and management. It also aligns with the current trajectory of local, national and global demand for this innovative ocean management approach."
- Matthew King, MI Graduate

TOTAL PROGRAM LENGTH

30 CREDIT HOURS + INTERNSHIP **OR** **RESEARCH PAPER** (ONLINE WITH THREE WEEK RESIDENCY AT MI)

MARITIME MANAGEMENT

MASTER'S DEGREE

Learn advanced management strategies that apply to any industry or sector.

SKILLS & INTERESTS

You're preparing for a management career in the maritime industry and want to develop your knowledge of international best practices and the structure and function of marine based operations.

WORK ENVIRONMENT

Maritime-related industries and government agencies

POTENTIAL CAREERS

- Senior-level management positions

SAMPLE COURSES

- Business of Shipping
- Marine Policy
- Marine Law

WHAT ALUMNI SAY

"I had a very positive experience and got a lot out of it. I would recommend it to others involved in the marine industry." **- Captain Stephen Coady, MI Graduate**

TOTAL PROGRAM LENGTH

30 CREDIT HOURS (8 COURSES + PROJECT OR 10 COURSES)

MASTER OF SCIENCE IN MARITIME STUDIES

(SAFETY: THE HUMAN ELEMENT)

MASTER'S DEGREE

Learn how to conduct and communicate publication-quality research in maritime safety and survival.

SKILLS & INTERESTS

You're driven to protect the safety and survival of those working in the maritime sectors with strong evidence-based research and applied industry experience.

WORK ENVIRONMENT

Academic institutions, researcher in marine-based industries, marine transport, firefighting, search and rescue, government, regulatory agencies, non-governmental organizations, or consulting.

POTENTIAL CAREERS

- Human Factors Researcher
- Safety and Survival Consultant

SAMPLE COURSES

- Introduction to Maritime Safety and Survival Research
- Human Factors in Safety and Survival
- Science Communication for Maritime Studies

TOTAL PROGRAM LENGTH

15 CREDIT HOURS + THESIS
(ONLINE OR ON CAMPUS)

WHAT FACULTY SAYS

The field of maritime safety and survival is critical to the health and lives of workers in the maritime context, as well as to the protection of assets. There are numerous industry and regulatory bodies that standardize the safety requirements and training required to work on the ocean. Graduates of the SMS programs will contribute to the evidence base upon which these safety and training decisions are being made.
- Dr. Heather Carnahan

MASTER OF SCIENCE IN FISHERIES SCIENCE

(FISHERIES SCIENCE AND TECHNOLOGY)

MASTER'S DEGREE

Become a world-class researcher while doing applied work that will impact the management and practice of fisheries.

SKILLS & INTERESTS

You want to serve as a resource that can positively contribute to fisheries science and management through the mobilization and communication of original research.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry.

POTENTIAL CAREERS

- Fisheries Scientist
- Fisheries Management Consultant

SAMPLE COURSES

- Science Communication for Fisheries
- Ecology, Management, and Practice of North Atlantic Fisheries
- Data Collection, Management and Display

TOTAL PROGRAM LENGTH

12 CREDIT HOURS + THESIS
(ON CAMPUS)

WHAT RESEARCHERS SAY

"Graduate students enrolled in this program will receive access to world-class facilities, scientists, and research opportunities. It's a truly unique program dedicated to producing professional fisheries scientists for the future."
- Dr. Paul Winger

MASTER OF SCIENCE IN FISHERIES SCIENCE

(STOCK ASSESSMENT)

MASTER'S DEGREE

Page 70 - Develop and apply expert mathematical and statistical skills vital to the sustainable management of marine fisheries.

SKILLS & INTERESTS

You want to apply your mathematics and statistics expertise to construct models that inform stakeholders about biomass of organisms in the ocean and how to harvest sustainably.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry.

POTENTIAL CAREERS

- Stock Assessment Researcher
- Policy Advisor
- Fisheries Consultant

SAMPLE COURSES

- Overview of Statistical Stock Assessment
- Advanced Statistical Stock Assessment
- Science Communication for Fisheries

WHAT RESEARCHERS SAY

Fisheries stock assessment scientists are in high demand in Canada and internationally. This one of a kind program will train the next generation of researchers that manage sustainable fisheries for future generations."
- Thomas Brown

TOTAL PROGRAM LENGTH

12 CREDIT HOURS + THESIS
(ON CAMPUS)

TECHNOLOGY MANAGEMENT

(ENGINEERING TECHNOLOGY AND APPLIED SCIENCE)

MASTER'S DEGREE

Understand processes in technology-based organizations.

SKILLS & INTERESTS

You have a technology background and are ready to manage the challenges and dynamics of industries driven by technological innovation.

WORK ENVIRONMENT

- Technology-based organizations
- Government agencies
- Health, science, oil and gas, engineering technology

POTENTIAL CAREERS

- Chief Technology Officer
- VP Technology Innovation
- Director of Operations

SAMPLE COURSES

- Management of Technology Innovation
- Intellectual Property Management
- Project Management

TOTAL PROGRAM LENGTH

30 CREDIT HOURS (8 COURSES + PROJECT OR 10 COURSES)

WHAT ALUMNI SAY

"What a fabulous program MTM was! I've been working in Technology for 25 years and after reviewing the syllabus I thought the MTM program was exactly what I was looking for. The case study format was thought-provoking and the ability to select my own project guided me in learning. I found each course supported my own organization strategy, plus it helped me to be a valuable contributor to our future."
Linda Gallus – MTM Graduate

FISHERIES SCIENCE

DOCTOR OF PHILOSOPHY (PH.D.)

Conduct and translate world class fisheries research through quantitative techniques, study design and science communication.

SKILLS & INTERESTS

You want to participate in the development of new fisheries science knowledge.

WORK ENVIRONMENT

Academia, government agencies, NGOS, international management bodies, seafood industry.

POTENTIAL CAREERS

- Fisheries Scientist
- Professor
- Fisheries Management Consultant

SAMPLE COURSES

- Ecology, Management and Practice of North Atlantic Fisheries
- Statistics and Study Design for Fisheries Science
- Overview of Statistical Stock Assessment

WHAT RESEARCHERS SAY

"This program trains students to be great scientists that are also great at mobilizing knowledge to improve humanity's relationship with the oceans."
- Dr. Brett Favaro

TOTAL PROGRAM LENGTH

4 YEARS (ON CAMPUS)

MARITIME STUDIES

DOCTOR OF PHILOSOPHY (PH.D.)

Participate in the development of new maritime studies knowledge in the area of safety and survival.

SKILLS & INTERESTS

You will conduct and share original research to improve approaches to safety and survival for the global maritime industries.

WORK ENVIRONMENT

Academic institution, researcher in marine-based industries, marine transport, firefighting, search and rescue, government, regulatory agencies, non-governmental organizations, or consulting.

POTENTIAL CAREERS

- Human Factors Researcher
- Safety and Survival Consultant

SAMPLE COURSES

- Human Factors in Safety and Survival
- Introduction to Maritime Safety and Survival Research
- Science Communication of Maritime Studies

TOTAL PROGRAM LENGTH

4 YEARS (ONLINE AND CAMPUS)

WHAT RESEARCHERS SAY

"The faculty and team involved in the program are exceptional. The scientific approach to understanding the complex issues facing the maritime sector are both exciting and innovative." **- Cody Garlie, Ph.D. Student**

GRADUATE RESOURCES

FOR GRADUATE DIPLOMA, MASTERS AND PH.D. DEGREES

School of Graduate Studies

In addition to the wide variety of on-campus support for graduate students, the Marine Institute works closely with Memorial University's School of Graduate Studies (SGS). SGS is the central academic support unit for approximately 3,800 graduate students enrolled in over 100 graduate diploma, master's, and doctoral degree programs. SGS aspires to provide best-in-Canada supports for graduate students throughout all stages of their programs, from admissions and orientation to progress completion, and beyond. Through its network of academic and service unit partners, SGS is also responsible for graduate enrollment management, graduate student services and skills training, internationalization, faculty supervisor training and supports, administration of graduate student funding and awards, timely completion of graduate programs, and preparation for life and success after graduate school.

Office of Research and Development

A variety of resources are available through the Marine Institute's Office of Research and Development to support graduate student research, including proposal development, identifying funding opportunities and completing ethics applications to help you get your research career off to the right start.

Research Supervisors

Graduate students in research-intensive programs (i.e., one that requires a thesis) will often need a research supervisor. We strongly encourage you to check your graduate program to see if a supervisor is needed, and find a supervisor at the time of application if necessary. This will increase your chances of admission and allow for a better and more productive graduate student experience.

There are a few ways you can find a supervisor:

- Consult www.mi.mun.ca/researchsupervisors for the current list of eligible supervisors, and their research areas of interest.
- Do a search using www.yaffle.ca using the key words that best describe your research interests. The search results should yield several names of faculty members in your area of interest along with their contact information.
- Contact our Graduate Recruitment Officer for suggestions on research supervisors who might be looking for students.
- When contacting potential supervisors, it is important to make a good first impression.

  We suggest you take the following steps:
- Review the researcher's information online and become familiar with their research.
- Write a concise email to the faculty member you would like to work with. Introduce yourself, your academic credentials (GPA, academic awards, research experience, etc.), and the kind of research you would like to pursue and the reason for it.
- Advise them you have applied for a graduate program at Memorial University, note the intended start date, and ask if they might be interested in serving as your supervisor for a program

Graduate Funding

Memorial University offers competitive funding packages to academically eligible full-time graduate students, both Canadian and International, in all eligible research programs. Student funding can come from multiple sources in the form of supervisor research grants, internal and external scholarships School of Graduate Studies fellowships, and assistantships. For information about funding opportunities, please refer to www.mun.ca/become/graduate

Internships

Internships may be a part of any student's research program, provided the supervisor and supervisory committee approve. The Marine Institute's Office of Career Integrated Learning is a resource available to assist students or they can seek internships themselves with the support of their mentorship team.

WHAT YOU NEED TO KNOW

Centre for Innovation in Teaching and Learning - Online Courses

Online courses are fully supported by Memorial University's Centre for Innovation in Teaching and Learning (CITL). For online courses, Brightspace is the virtual learning platform used as the main content delivery system and provides a virtual classroom for each program course. Students can avail of the services and support offered by the Marine Institute and Memorial University, including access to the extensive University Library System resources and to Help Desk support available through CITL for technical issues related to Brightspace.

Tuition and Fees

Students in bachelor degree programs should consult www.mun.ca/finance/fees/tuition_fees/undergrad.php for information about tuition and fees related to their program of study.

Students in advanced diploma and post-graduate certificate programs should consult www.mi.mun.ca/programsandcourses/programsandfees/ for information about tuition and fees related to their program of study.

Graduate tuition fees at Memorial University are charged on a semester-by-semester basis and reflect the cost of the graduate program not the number of required courses. Memorial has three semesters per academic year: Fall (September - December), Winter (January - April), and Spring (May - August). Program fees are to be paid each semester. For information about tuition and fees for graduate diploma, masters and PhD programs, please refer to www.mun.ca/become/graduate.

For online courses, there are administrative fees which are charged in addition to the tuition fees for these courses. These fees cover the cost of course materials (excluding textbooks), rental of video and audio tapes and management of web courses.

Books and Supplies

You should be prepared to meet an expenditure to cover the cost of textbooks and supplies each semester. Make sure to consult with your professors before purchasing any new or used textbooks or laboratory manuals.

MARINE INSTITUTE

WANT TO KNOW MORE ABOUT LEARNING AT MI?

Explore how you can become a future MI grad.

LearnatMI.ca offers ways to see what MI students experience in the field, at sea and in their classroom and labs with instructors and mentors from industry.

You also have an opportunity to visit with us virtually, participate in a live presentation or chat with our recruiters to ask questions and get more information about student supports, admission requirements and applying this year.

MARINE INSTITUTE

MEMORIAL UNIVERSITY

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This document is for reference only.
Follow the University Calendar for descriptions and regulations for your program.
The information provided here is subject to change.
The University Calendar is the final authority on university and program regulations.

MARINE INSTITUTE

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