

# GEORGIAN

YOUR COLLEGE · YOUR FUTURE

## GREAT LAKES INTERNATIONAL MARINE TRAINING AND RESEARCH CENTRE

### WHAT YOU NEED TO KNOW

This letter is designed to help prospective students understand the career, lifestyle, and education one would expect in choosing to come to Georgian College's cadet training program. Georgian College is the top supplier of Deck and Engineer Officers to the Great Lakes shipping industry. Our training leads to certification that is recognized worldwide!

### ADMISSION REQUIREMENTS

OSS curriculum

- OSSD or equivalent
  - Grade 12 English (C) or (U) (ENG4C, ENG4U)
  - Grade 12 college mathematics (MAP4C or MCT4C) or any Grade 12 University mathematics
  - Recommended subjects include: Physics (Grade 12 College or University: SPC 4C, SPH 4U) OR Chemistry (Grade 12 College or University: SCH 4C, SCH 4U, SCH 3U)

OR Academic Career Entrance Certificate (ACE) program with:

- Communications, business, and technical math (College Placement Assessment)

OR Mature applicant with standing in the required courses and/or mature student testing that meets the minimum standards for admission



Keep an eye out for our academic upgrading courses. For more information, contact Jean Kirby, Academic Coach at the Owen Sound campus: (519) 376 – 0840 ext. 2089 or [jkirby@georgianc.on.ca](mailto:jkirby@georgianc.on.ca)

- Applicants must provide a valid Transport Canada Marine Medical certificate stating “fit for sea service” or “fit for sea service with limitations.” In the case of an applicant with a certificate “fit for sea service with limitations,” the applicant will be reviewed for admission.



- A list of designated physicians can be found by going to the Transport Canada website (<http://www.tc.gc.ca>) and entering “Designated Physicians” into the search box.

- To get a marine medical, you must have a valid Candidate Documentation Number (CDN). For details, visit your local Transport Canada office.

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### EDUCATION & TRAINING

- *Co-operative Education* - The college offers a three year co-operative cadet training program combining the training listed below and co-op sea time. A diploma is granted to graduates who successfully complete the required courses and co-op sea time. Although some International co-ops may be available, our primary source of co-op sea time is aboard vessels sailing the Great Lakes and the St. Lawrence Seaway. This should not limit the International opportunities upon graduation.
- *Marine Emergency Duties Training* – Cadets will learn to fight fires, operate lifeboats and rafts, and care for injured personnel through MED's (STCW Basic Safety, Proficiency in Survival Craft, Advanced Fire Fighting, and Marine First Aid Courses).
- *Simulation* – Students learn to navigate ships or operate marine engines in the safety of an electronic environment using state-of-the-art simulators
- *Academic Courses* – Academic courses are developed to educate the students to the level of Captain or Chief Engineer: Math, Physics, Chemistry, Communications, Engineering, Navigation, Seamanship, Meteorology, Thermodynamics, Naval Architecture, etc.



### EXPECTATIONS

- The marine programs are intensive. Students can expect to spend up to 30 hours per week in classes and as many hours studying. For a complete course list, please see the program outline, which is also available online on the Georgian College website – <http://www.georgianc.on.ca>
  - Mathematics is an important component of the Marine Navigation and Marine Engineering Technology programs. All students will be expected to have functional technical math skills.
    - Talk to your high school guidance counselor. You may benefit from taking a Technical Math course, such as MCT4C. This course may be available online through the Independent Learning Centre at <http://www.ilc.org>
    - If you are 18 years of age or older and have been out of school for a minimum of one year, you may be eligible for our ACE (Academic and Career Entrance) program. For more information, contact Jean Kirby, Academic Coach, at (519) 376 – 0840 ext. 2089 or [jkirby@georgianc.on.ca](mailto:jkirby@georgianc.on.ca)
  - Attendance Policy – Georgian College & Transport Canada attendance policy requires 90% attendance for all courses
  - Support Available!
    - Testing Services
    - Special Needs & Peer Tutoring
    - Learning Strategies
    - First Generation Student Mentor
    - Job Coaches
    - Math / Writing Labs
- Counseling - Questions or concerns about the unique lifestyle associated with a career in marine? Faculty and counselors have both personal and professional experience and insights to help!*

## GREAT LAKES INTERNATIONAL MARINE TRAINING AND RESEARCH CENTRE

### CAREER PROFILES

DECK OFFICER PROFILE	ENGINEER OFFICER PROFILE
<ul style="list-style-type: none"> <li>Appeals to persons who want a career with a balance between technical expertise in navigation and practical seamanship; persons who enjoy taking responsibility, working with people in a physically active environment, and have the ability to focus on detailed administrative duties</li> <li>Deck Officers (also Navigation Officer, Watch Officer) are responsible, under the direction of the Captain, for the safe conduct of the vessel while at sea and in port</li> <li>Stand bridge watches, navigating the vessel safely while ensuring all domestic and international regulations are followed with regard to safety and environmental laws and regulations</li> <li>Direct unlicensed personnel in duties concerning the conduct and maintenance of the vessel and its cargo</li> <li>Expect extended periods away from home and family (up to 8 months as a deck cadet)</li> </ul>	<ul style="list-style-type: none"> <li>Appeals to persons who want a career with a balance between technical expertise in engineering and hands on mechanical work; persons who enjoy taking responsibility, working with people in a physically active environment, and have ability to focus on detailed administrative duties</li> <li>Engineer officers are responsible, under the direction of the Chief Engineer, for the safe maintenance and operation of the ship and its machinery while at sea and in port</li> <li>Stand engine watches, monitoring the condition and performance of the vessel's diesel or steam propulsion, electrical cargo handling machinery while ensuring all domestic and international regulations are followed with regard to safety and environmental laws and regulations</li> <li>Direct unlicensed personnel in duties concerning the conduct and maintenance of the machinery and machinery spaces</li> <li>Expect extended periods away from home and family (up to 4 months as an engine cadet)</li> </ul>
CAREER OPPORTUNITIES	CAREER OPPORTUNITIES
<ul style="list-style-type: none"> <li>Deck officers can progress up the ranks from 3<sup>rd</sup> officer to 2<sup>nd</sup> officer to Chief Officer and on to Captain</li> <li>As more experience is gained and higher licenses are obtained by the officer, more responsibility and the challenges that go with that responsibility are available</li> <li>With more responsibility comes greater salary</li> <li>Ship's Officers work on various types of vessels including ferries, bulk carriers, tankers, container ships, Coast Guard vessels, cruise ships, offshore, supply vessels, and tugs</li> </ul>	<ul style="list-style-type: none"> <li>Engineer officers can progress up the ranks from 4<sup>th</sup> engineer to 3<sup>rd</sup> engineer to 2<sup>nd</sup> engineer and onto Chief Engineer</li> <li>As more experience is gained and higher licenses are obtained by the officer, more responsibility and the challenges that go with that responsibility are available</li> <li>With more responsibility comes greater salary</li> <li>Ship's Officers work on various types of vessels including ferries, bulk carriers, tankers, container ships, Coast Guard vessels, cruise ships, offshore, supply vessels, and tugs</li> </ul>
OTHER MARINE CAREERS	OTHER MARINE CAREERS
<ul style="list-style-type: none"> <li>Deck Officers, after additional experience and training, are currently working as Harbour Pilots, Ice Pilots, Mooring Masters, oil rig workers in the offshore oil and gas industry, hydroelectric operators, college professors, superintendents, VP's and CEO's for shipping and cargo companies, marine surveyors and marine lawyers</li> </ul>	<ul style="list-style-type: none"> <li>Engineer Officers, after additional experience and training, are currently working as oil rig workers in the offshore oil and gas industry, stationary engineers in hospitals and large factories, hydroelectric operators, college professors, superintendents and technical directors, VP's and CEO's of shipping and cargo companies</li> </ul>

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### EDUCATIONAL PATHWAYS AFTER GRADUATION

The Marine Program has articulation agreements with:

- Memorial University in Newfoundland, which allows graduates of Georgian College's Marine Programs to complete a Bachelor of Maritime Studies Degree with an additional 1 year of studies in St. John's, Newfoundland (or via distance education)
- Davenport University in Michigan, which allows graduates of Georgian College's Marine Programs to complete a Bachelor of Applied Business with approximately one additional year of studies in Grand Rapids, Michigan

### COOPERATIVE EDUCATION

- The Marine Programs at Georgian College allow you to learn and train while on co-op sea terms aboard various types of vessels
- Georgian's placement rate is very high because of the strong support received from our partners in the Canadian shipping industry. Co-op placements are not guaranteed however you have access to a co op consultant who will assist in your search. Co-op is a requirement to graduate.
- Co-op employers review the students' resumes, conduct interviews at the College and offer employment to suitable candidates
- Most Georgian cadets complete their co-op work terms on the Great Lakes – St. Lawrence Seaway
- Most co-op placements are paid, and room and board is free on board ship

Work Term	Salary
One	\$1000 / month
Two	\$1250 / month
Three	\$1500 / month

- On co-op, Deck Cadets will be expected to assist with deck maintenance, cargo operations and navigation of the vessel. Training as a cadet will lead to the knowledge and experience required to assume the responsibilities of a deck officer
- On co-op, Engine Cadets will be expected to assist with engine and auxiliary systems care and maintenance and watch-keeping work. Training as a cadet will lead to the knowledge and experience required to assume the responsibilities of an Engineer Officer once a license is obtained
- Cadets may be subjected to adverse environment while on board – noise, dirt, dust, confined quarters and heavy lifting. Anyone with known allergies should consult with Georgian's Co-op department.

### QUALIFYING EXPERIENCE

- All sea time must be spent aboard a Transport Canada approved vessel
- Sea time graduation Requirements:
  - Marine Navigation cadets: 365 days of sea time, divided among three work terms
  - Marine Engineering cadets: 210 days of sea time, divided among 2 work terms

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### REQUIREMENTS & DOCUMENTATION

- Birth Certificate (You must turn 18 prior to the first co-op sea term)
- Candidate Documentation Number (CDN). This is an identification number that follows you throughout your marine career, and is required in order to get a Marine Medical (see below).
  - In order to apply for a CDN, you must bring two (2) documents (one as proof of identity and one as proof of citizenship) to your local Transport Canada office. For more information, visit the Transport Canada website (<http://www.tc.gc.ca>) and type in Candidate Documentation Number into the search box
- Transport Canada Marine Medical
  - Must be renewed every two years
  - Is a requirement to enter the program and is required to sail on a Canadian ship
  - Must be done by a Designated Physician (see the Transport Canada website for more details)
- Transport Canada Discharge Book and Record of Sea Service (the co-op office will help you obtain this)
- Canadian students will require a Canadian passport or Permanent Resident card plus D1 Visa
- Most employers require their vessels to enter the United States, so all cadets must be eligible to enter the U.S. If you have a criminal record, please contact the Marine Co-op Consultant for advice.

### WHAT TO EXPECT ON CO-OP

- Expect to work hard and “pay your dues”. If you do this, your supervising officers are more likely to provide you with a quality learning experience.
- Expect to be away from home for long periods of time. You will be on board for a minimum of four months and a maximum of eight (as a Navigation cadet)
- Expect to be out of touch with family and loved ones. There is a lack of Internet access and cell phone access is unreliable.
- Expect to spend at least four hours per day working on your log book. This is in addition to your on-duty shifts. You will learn more about your log book prior to going out on co-op.
- Expect to work shifts. You will be working nights and weekends.
- You will work with some wonderful people who will do their best to help you learn; however expect to encounter some “difficult” people. Just like any other job, there will be people you are working with that you won’t like. Remember that life as a cadet does not necessarily reflect life as an officer.
- Expect drug and alcohol testing while on board. The Great Lakes shipping industry has zero tolerance for drugs and alcohol.
- Expect an intense, challenging and rewarding living and working experience while on-board ship. This is not just a job, but a life style choice.



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### TRANSPORT CANADA LICENSES

- Transport Canada sets standards for training and certification based on both international and domestic requirements
- Georgian College is approved by Transport Canada to deliver education and training to cadets
- Upon successful completion of the education and co-op training, students are required to write Transport Canada examinations for either a Watchkeeping Mate Certificate for Navigators or a 4<sup>th</sup> Class Engineer Certificate for Engineers
- Georgian College can provide the students many exemptions for Transport Canada exams, provided marks of 70% or higher are maintained on certain subjects
- The licenses issued by Transport Canada are internationally recognized and qualify the holders to work on many different ships anywhere in the world.

### ADDITIONAL COSTS TO STUDENTS

- Aside from tuition, housing, and your personal expenses, there are some costs that Marine students incur:
  - Marine Engineering Technology
    - Toolkit – approximately \$300
    - Coveralls – approximately \$60
  - Marine Navigation Technology
    - Chartwork Tools – approximately \$50
  - Costs for both Marine Engineering Technology and Marine Navigation Technology (all approximate)
    - Textbooks – \$500 per year for three years
    - Parking – \$160 per semester
    - Transport Canada Simulator Exam - \$60
    - Steel-toed boots - \$125
    - Transport Canada Marine Medical - \$125
    - Transport Canada Discharge Book / Record of Sea Service - \$20
    - Cost of obtaining a US D-1 visa if student is a permanent resident of Canada
  - Marine Emergency Duties (MED's) are included in your tuition, saving you about \$3000. You are required to cover your own transportation, accommodation, and food. The Marine Emergency Duty Training Facility is in Port Colborne, ON. Allow for \$800 over the three year period.
    - The following MED courses will be taken on weekends within the three year program:
      - STCW Basic Safety Training – 2 nights' accommodation
      - Proficiency in Survival Craft – 3 nights' accommodation
      - Advanced Fire Fighting – 3 nights' accommodation



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### OWEN SOUND – LIVE & LEARN!

Owen Sound is a city of approximately 25000 people located on the shores of Georgian Bay. It has a proud marine heritage, including a marine museum, and is still an active port today. Typical of small towns in rural Ontario, there is a limited amount of night life activity. Students used to the hustle of the “big city” may experience an adjustment period, but there are lots of things to do if you look around.



In the winter months, hockey fans may wish to attend the OHL Owen Sound Attack or the Owen Sound Greys junior hockey games. Students with a love of the outdoors will enjoy the proximity to down-hill skiing and snowboarding (40 minutes to Blue Mountain or Talisman) and local cross country skiing and snowshoeing trails. There are also a number of local snowmobile trails. Ice fishing opportunities abound on the many local lakes and, most years, on Georgian Bay itself. During the warmer months, students can enjoy the local beaches at Kelso and Hibou or drive to one of the world’s longest freshwater sand beaches (30 minutes to Sauble, or 50 minutes to Wasaga). Many local rivers also offer excellent fishing, canoeing and kayaking opportunities. Summer, spring and fall offer shore or boat fishing on the bay or smaller lakes, golfing on the many area golf courses, not to mention hiking on the famous Bruce Trail along the Niagara Escarpment from where it passes through town. There are also several Provincial and National parks (including Fathom Five, Canada’s first national marine and underwater park) within a 45 minute drive north towards Tobermory. The city also has an active “small town” cultural life including a little theatre group, the Tom Thompson Art Gallery, and an excellent symphony orchestra. Visit <http://www.tourism.owensound.ca> to find out more about Owen Sound!

### HOUSING

Campus Living Centres, a privately operated company, owns a 65 bed residence. Check out <http://www.campusviewresidence.com> for more details, including application information.

Also check out our Off Campus Housing website at:  
<http://www.georgianc.on.ca/residence/off-campus-housing>

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