



GREAT LAKES MARITIME ACADEMY

Patrick Podolan

Licensing and Internships

Northwestern Michigan College
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www.nmc.edu/maritime

Cabotage Laws

- Cabotage is commonly used as part of the term "cabotage rights," the right of a company from one country to trade in another country.
- In transportation it is the right to operate within the domestic borders of another country.

Passenger Vessel Services Act of 1886

- *No foreign vessels shall transport passengers between ports or places in the United States, either directly or by way of a foreign port, under a penalty of \$200 (now \$300) for each passenger so transported and landed.*

Merchant Marine Act of 1920

- A 1920 statute sponsored by Senator Wesley L. Jones of Washington, hence the term “Jones Act.”
- A United States federal statute that regulates maritime commerce in U.S. waters and between U.S. ports. Section 27, better known as the Jones Act, deals with cabotage and requires that all goods transported by water between U.S. ports be carried in U.S.-flag ships, constructed in the United States, owned by U.S. citizens, and crewed by U.S. citizens and U.S. permanent residents. The purpose of the law is to support the U.S. maritime industry.

Merchant Marine Act of 1936

- The Merchant Marine Act of 1936 is a United States federal law. Its purpose is "to further the development and maintenance of an adequate and well-balanced American merchant marine, to promote the commerce of the United States, to aid in the national defense, to repeal certain former legislation, and for other purposes."

Merchant Marine Act of 1936

- Specifically, it established the United States Maritime Commission, and required a United States Merchant Marine that:
 - can carry all domestic water-borne commerce,
 - can carry a substantial portion of foreign commerce,
 - serve as a naval auxiliary in time of war or national emergency,
 - owned/ operated under U.S. flag by U.S. citizens "insofar as may be practicable,"
 - is composed of the best-equipped, safest, and most suitable types of vessels,
 - consists of vessels constructed in the United States, and
 - consists of vessels be manned with a trained and efficient citizen personnel.
- Creation of USMMA King's Point NY

Merchant Marine Training in the United States

- Seven Maritime Academies
- One federal and six state
- All are regulated by the US Maritime Administration (MARAD)
- All fall under 46 CFR Subchapter 310
- Numerous other facilities, both public and private.

What 46 CFR 310 requires

- If operating with federal aid:
- Uniforms
- Regulations
- Must take, and pass license
- Must admit out of state students at in state rate (to at least 10% on incoming class)

Great Lakes Maritime Academy



Who we are

- One of only six State Maritime Academies in The United States.
- The only one where deck cadets earn both an unlimited tonnage ocean license and 1st class pilotage.
- This allows our graduates to sail as a deck officer on a U.S. Flag Merchant Vessel either on the Great Lakes or the oceans.
- Pilotage is a condition of graduation.

GLMA PROGRAM OF STUDY

- Bill 4496 signed by Governor Snyder on 28 December 2012.
- This bill authorized Michigan Community Colleges to offer bachelor's degrees in four disciplines: energy production, maritime technology, culinary, and cement technology. Bachelor's Degree in Maritime Technology accredited by the Higher Learning Commission in Nov 2013. MI
- GLMA awarded the first bachelor's degree from a Michigan community college in Jan 2014.
- All GLMA cadets are now enrolled in the Northwestern Michigan College bachelor's degree program; all will sit for either 3rd mate, ocean or 3rd AE.
- All deck cadets to sit for, and pass Great Lakes pilotage as a condition of graduation. Pilotage entails an additional 24 license modules on top of the third mate exams.
- Engine cadets are required to sit for and pass both steam and diesel endorsements.

Program of Study

- Deck and engine curriculum are both 120 credits.
- If a deck cadet arrives with a bachelor's degree he or she can complete the deck program in three years.
- The engine program is four years, but the final semester is general education. This allows cadets who arrive with substantial accredited coursework to complete the program in January of their fourth year.
- The only program that does not meet the 46 USC 51506 definition of a *merchant marine license preparation program* is Power Systems.
- Average age of an incoming cadet is 26, 30% of cadets are veterans, approximately 25% arrive holding a bachelor's degree.
- Goal is to enroll 60 cadets annually; 36 deck and 24 engine.
- Goal is to graduate 40 annually.
- Last year 56 graduated.

Infrastructure

- With exception of machine shop and welding all STCW courses are held on Northwestern Michigan College's Great Lakes campus.
- General Education, Financial Aid, Student Veterans' support contained on main campus.
- Machine shop and welding instruction takes place at Northwestern Michigan College's Parson-Stulen campus.
- *Training Ship State of Michigan* used as a lab during the academic year and docked at the Academy.
- Housing and dining facilities located on main campus.
- GLMA is a division of Northwestern Michigan College.

T/S State of Michigan



T/S State of Michigan

- Built in Tacoma, WA (1985)
- Ex USNS Persistent (T-AGOS-6) was a Stalwart class Modified Tactical Auxiliary General Ocean Surveillance Ship of the US Navy. originally designed to collect underwater acoustical data in support of Cold war anti-submarine warfare operations in the 1980s.
- 224' LOA, 43' Beam, 14' draft 4,000 BhP Diesel electric.

Cadet Life



Mates/Pilotage

- The job description of the Great Lakes Mate/Marine Pilot :
- The Great Lakes Mate Pilots the vessel from port to port
- The Great Lakes Mate directs both the loading of cargo and the discharge of cargo
- The Great Lakes Mate manages the crew that works for the deck department



SS4



SS3



Engineering

- A ship must be able to supply energy needs from sources such as:
- Main engines (steam or diesel) to move the ship
- Steam boilers to produce the heat energy for the steam turbine engines and the electrical generators
- Generators to produce the electricity for lights, motors, navigation equipment, communications, and hotel functions
- Pumps to move fuels, oils, and ballast
- Heating and ventilation systems for the health and comfort of the crew
- Large and complex unloading systems for moving thousands of tons of cargo per hour

Engineering Program

- Leads to a Coast Guard License as a Third Assistant Engineer (unlimited) steam and diesel.
- Engineering graduates are in particularly high demand, both for shipboard and shoreside employment.
- All GLMA engineering cadets required to sit for and pass both steam and diesel

Pre-fall/ Academics



Power Systems Program

- 4 year program
- Similar to the Marine Engineering Program
- Will prepare you for employment with public utilities as well as private and non-profit entities such as universities and hospitals that have their own power plants.
- Only non licensed curriculum, very few cadets enrolled, primarily for cadets who have disqualifying physical issues.

Sea Projects

- All cadets in the license program complete three sea projects.
- The first (usually) is on the *T/S State of Michigan*
- One will be on an ocean vessel
- One will be on a Great lakes vessel

1st Sea Project

T/S State of Michigan Retention Pilotage



2nd and 3rd Sea Projects



Naval Reserve

- All cadets must take two classes in Naval Science
- You may qualify for enrollment in the Student Incentive Program (SIP).
- Cadets enrolled in SIP \$8,000 stipend and are commissioned in the Naval Reserve upon graduation.

Career Options

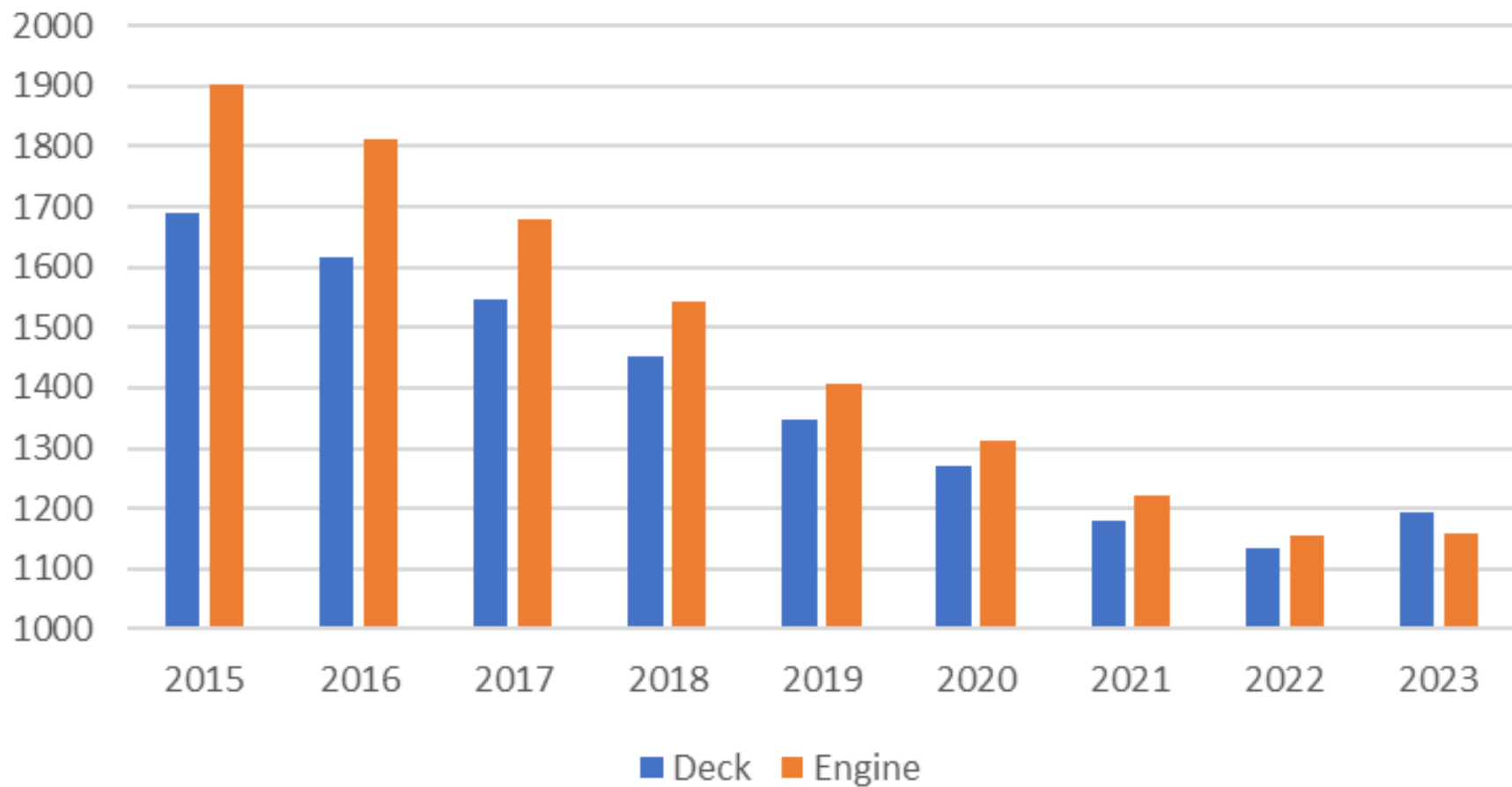
- A Merchant Marine License and a college degree opens many doors.
- The U.S. Coast Guard offers direct commissions and actively recruits for civilian positions.
- Railroads, hospital power plants, DEA, FBI, CBP also look for Merchant Marine Officers.



Some Demographics

- The average age of an incoming cadet is 26.
- Among our cadets have been: a retired USAF LCOL, 50+ year old Russian Orthodox Priest, attorneys and engineers.
- Over 20% of the cadets are veterans.
- We are proud of our designation as a “Military Friendly School.”

SMA License Enrollment 2015-2023





Why we lose cadets

- The number one reason we lose a cadet is finances.
- Not drugs, not conduct, not DUI.
- They are doing great things while simultaneously enrolled in a challenging academic program.
- Estimate that greater than 80% of cadets that enroll at GLMA earn a bachelor's degree and unlimited MMC within five years.
- GLMA may be most cost effective way to earn an unlimited license, but it still costs \$100K
- An 11 semester program (8 academic semesters/ 3 sea projects).
- Very limited ability to work part time/ earn funds for tuition while a cadet.
- In our world (Midwest) we lose cadets when their parents lose their jobs.



#2 in the Nation

- A 2022 study based on data from the U.S. Department of Education looks at the bachelor's degrees from public universities that pay an annual salary of at least \$100,000 three years after completion and have a 100% employment rate.
- #2 in the nation: GLMA \$112,111 in median earnings

Questions?

- RADM Achenbach (231) 995-1203
- gachenbach@nmc.edu



New Culinary/Maritime Program

- Program Enrollment is a fall semester start
- Program Completion in one year
- Well rounded culinary training
- Specialized Galley Cooking class on the T/S State of Michigan while docked
- Galley Cooking class allows student to learn how to efficiently work in the constraints of a small galley kitchen
- Learn while you earn internship on the T/S State of Michigan
- Certificate is stackable with the Culinary Arts Certificate Level 1, 3 and AAS
- Graduates with this certificate can sail as a certified mariner on U.S. flagged vessels in the steward department in positions equivalent to 2nd cook.