

## Articulation Agreement

Northwestern Michigan College's Great Lakes Maritime Academy  
Muskegon Community College

Bachelor's of Science in Maritime Technology – Engineering Officer Program (BSMT- Engine Officer).

This agreement is between Northwestern Michigan College's Great Lakes Maritime Academy (GLMA) and Muskegon Community College, a Michigan Community College (Muskegon CC).

### Intent:

The intent of this agreement is to create a pathway that will allow students to attend Muskegon CC for one year and then transfer to the GLMA. During their time at GLMA students will receive an Associate in General Studies (AGS) Degree from Muskegon CC via a reverse transfer agreement. Additionally, these Students will have the ability to complete GLMA program requirements and earn the degree of BSMT-Engine Officer and an unlimited horsepower merchant marine officer's license within thirty-six (36) months of entering the GLMA program.

### Terms and Conditions:

Detailed procedures and general policies, reviewed and approved by each party, are outlined and contained within this articulation agreement.

- Muskegon CC students must meet the admission requirements of Northwestern Michigan College/ GLMA. Students must apply to GLMA by 01 March to be given first consideration for this program. Applications received after this date will be addressed on a case-by-case basis. Muskegon CC students will follow the course sequence that is contained in the *Muskegon Community College/ Great Lakes Maritime Academy Engineering Officer's Curriculum Guide*. All maritime courses, and all STCW seminars and competencies must be completed while enrolled at GLMA.
- Student Advising: Advising of Muskegon CC students who are interested in this program will be the responsibility of the GLMA admissions office and Muskegon CC. Each institution will monitor the academic performance of GLMA candidates and identify problems that may interfere with the successful completion of courses at both institutions.
- Communication - Each institution agrees to cooperate in communicating with each other and with their common and respective publics concerning the established relationship between the two institutions.
  - Any marketing of the agreement in print will be subject to the prior approval of all parties. Each institution will assume responsibility for appropriate marketing to reach their respective student and faculty population. Any marketing of this Agreement or Program Agreements must comply with Higher Learning Commission requirements.
  - Each party agrees it will not use the other party's name(s), mark(s), or logo(s) in any advertising, promotional material, press release, publication, public announcement, or through other media, whether written, oral, or otherwise without the prior written consent of the other party. Prior written consent will not be required for use of the other party's name in the context of factual or descriptive statements regarding the subject matter of this Agreement.

- Faculty and staff at all institutions will communicate information about this agreement to students and prospective cadets.
- Each institution will provide, at its website, a link to the program information and requirements of the partner institution.
- Each institution will provide in its college catalog, program information and requirements.
- Length of Agreement - This agreement will become effective upon the execution of signatures by the responsible authority for each institution and will remain in effect until the time it is terminated. All institutions agree to provide written notice of at least one full academic year in advance of termination.
- Should this Agreement be terminated or significantly changed prior to the ending date, Muskegon CC students participating in this Agreement will be permitted to complete the program requirements provided the students apply to and are admitted by GLMA within five years from the date they entered the program.
- Review and Modification of the Agreement - Each institution will notify the other of any curricular changes that would affect the specifics of this agreement.
- Financial Aid – Applicants may take courses at either institution, as well as have access to advising and other services at all institutions. However, federal regulations require that cadets receive financial aid from only a single college from which courses are taken during a given semester. Advisors should recommend that financial aid recipients take all their courses in a given semester at either Northwestern Michigan College/GLMA or Muskegon CC. Muskegon CC will provide financial aid to eligible applicants/students while they complete their Muskegon CC course work provided, they are enrolled in a financial aid eligible program. Students interested in pursuing a financial aid eligible program should meet with a MCC counselor. Once the student transfers to Northwestern Michigan College’s Great Lakes Maritime Academy, financial aid will become the responsibility of Northwestern Michigan College.

**Compliance with laws, policies, and statutes:**

- This Agreement shall be governed by and construed in accordance with the laws of Michigan applicable to contracts made and to be enforced wholly within the State of Michigan.
- The Parties shall be separately responsible for compliance with all laws, including anti-discrimination laws, which may be applicable to their respective activities under this Agreement.
- The Parties will abide by confidentiality requirements set forth in the Family Education Rights and Privacy Act (20 USC § 1232g (“FERPA”) and other applicable laws.
- To the extent permitted by the Family Education Rights and Privacy Act (FERPA), Muskegon and NMC/GLMA agree to share data on student achievement for purposes of assessing program effectiveness. Any exchange by the institutions of student record information protected by the Family Education Rights and Privacy Act (20 USC § 1232g) and implementing regulations (34 CFR Part 99) (“FERPA”) shall occur only in full compliance with FERPA, including, without limitation, committing the receiving institution to limit the use of such information to the purposes for which the disclosure was

made, and to impose such limits on any re-disclosure, and the institutions agree to comply with all applicable statutory and regulatory provisions, including, without limitation 34 CFR 99.31, 99.32, 99.33, 99.34 and 99.35. Data provided by Northwestern Michigan College/GLMA as noted in this Agreement will include student performance, utilization of the Agreement by the annual number of students enrolled in the corresponding major/ program upon transfer and the number of graduates annually. This information will assist with identifying potential shortcomings of Muskegon CC coursework and the merit of the Agreement that may be shared with stakeholders.

**Indemnification:**

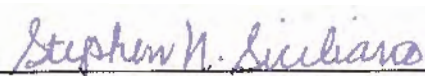
Statutory and common law theories and principles of indemnification, contribution, and equitable restitution shall govern and apply to claims, actions, causes of action, costs, expenses and losses (including attorneys' fees) resulting from or caused by the actions or omissions of the Parties or their respective employees and students pursuant to this Agreement.

The following parties agree to abide by the terms and conditions of this Articulation Agreement as outlined above. The Chief Academic Officer, Superintendent of the Maritime Academy and the designee of the collaborating institutions shall be responsible for implementing this agreement, identifying and incorporating any changes into subsequent agreements, and for conducting a periodic review of this agreement.

**All Communications Regarding This Agreement Should be Addressed to**

**Northwestern Michigan College**

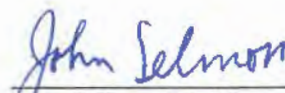
Stephen N. Siciliano, Ph.D.  
Vice President for Educational Services  
170 I E. Front Street  
Traverse City, MI 49686-3061  
231-995-1373  
ssiciliano@nmc.edu



Stephen N. Siciliano, Ph.D.  
Vice President for Educational Services

**Muskegon Community College**

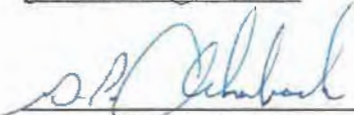
John Selmon, EdD.  
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[john.selmon@muskegoncc.edu](mailto:john.selmon@muskegoncc.edu)



John Selmon, EdD  
President, Muskegon Community College

**Great Lakes Maritime Academy**

G. P. Achenbach, Ed.D.  
Rear Admiral, U.S. Maritime Service  
1701 E. Front Street  
Traverse City, MI. 49686-3061  
231-995-1203  
[gachenbach@nmc.edu](mailto:gachenbach@nmc.edu)

A handwritten signature in blue ink, appearing to read "G. P. Achenbach", is written over a horizontal line.

G. P. Achenbach, Ed.D.  
Rear Admiral, U.S. Maritime Service

**Muskegon Community College/ Great Lakes Maritime Academy Engineering Officers Curriculum Guide**

The same course may not be used to satisfy two groups. Student must complete at least 30 credits, or the last 15 credits, at Muskegon Community College to meet the degree residency requirements. A minimum cumulative 2.0 GPA is required for the AGS Degree.

<b>First Year (fall) at Muskegon CC</b>	<b>Credits</b>	<b>First Year (winter) at Muskegon CC</b>	<b>Credits</b>	<b>First year summer</b>	<b>Credits</b>
ENG-101 <i>[Fulfills one of two Communication requirements for the MCC AGS Degree]</i>	3	ENG-102 <i>[Fulfills one of two Communication requirements for the MCC AGS Degree]</i>	3	Choose from, PHIL 204 or PHIL 205 <b>and</b> one of the following: ENG-216, 223 PHIL-101, 102, 104, 202, or 207 <i>[Fulfills Ethical Reasoning and Creativity for the MCC AGS Degree]</i>	6
MATH-121 <i>[Fulfills Problem Solving for the MCC AGS Degree, credited as a GLMA program elective]</i>	4	MATH 141 and One MCC course which is a GLMA approved elective.  (Any course not used to fulfill another AGS category.)	6-8	HUM-195 or any History that meets Northwestern Michigan College Grp 1 Humanities  <i>[Fulfills Personal, Social, and Cultural Awareness for the MCC AGS Degree]</i>	3
PSCI 111, and one MCC course which is a GLMA approved elective.  (Any course not used to fulfill another AGS category.)	6-8	CHEM 100A/100LEC  <i>[Fulfills Science and Technology for the MCC AGS Degree]</i>	5	<b>Physical Education and Health – minimum 2 credits.</b> Choose ONE of the following options: <b>Option 1: Physical Education</b> Choose one of the following: 101A, 103, 104A, 118, 201 <b>and</b> any Physical Education, Dance, or Physical Education Professional 200  <b>Option 2: Physical Education 121</b> (3 credit hours)  <i>[Fulfills Physical Ed. for the MCC AGS Degree]</i>	2-3
<b>Total Credit Hours:</b>	<b>13-15</b>	<b>Total Credit Hours:</b>	<b>14-16</b>	<b>Total Credit Hours:</b>	<b>11-12</b>

<b>Second Year (fall) GLMA</b>	<b>Credits</b>	<b>Second Year (spring) GLMA</b>	<b>Credits</b>	<b>Second Summer</b>	<b>Credits</b>
MDK 149 Damage Control & Safety STCW	2	MDK 341 Ship Construction STCW	2	MNG 317 Sea Project I STCW	3
MTH 122 Trigonometry	3	MNG 234 Electronic Fundamentals STCW	4	MDK 100 Survival at Sea STCW	1
MNG 104 Engine System Graphics STCW	3	MNG 314 Diesel Engineering STCW	7	MNG 100 Intro to Vessel Operations	1
MNG 110 Engineering Mechanics STCW	3	MDK 330 Medical First Aid Provider STCW	2		
MNS 100 Naval Science	2				
<b>Total Credit Hours:</b>	<b>13</b>	<b>Total Credit Hours:</b>	<b>15</b>	<b>Total Credit Hours:</b>	<b>5</b>
<b>Third Year (fall) GLMA</b>	<b>Credits</b>	<b>Third Year (spring) GLMA</b>	<b>Credits</b>	<b>Third Summer</b>	<b>Credits</b>
MDK 250 Stability for Engineer	1	MNG 105 Shipboard Information Systems	3	MNG 318 Sea Project II STCW	6
MNG 250 Fluid Systems	3	MNG 271 Maritime Welding STCW	2		
MNG 260 Maritime Machining	2	MNG 275 Refrigeration STCW	3		
MNG 335 Elec Machines & Controls STCW	4	MNG 321 Marine Boilers STCW	3.5		
MNG 336 Elec Mach & Controls Lab STCW	2	MNG 322 Marine Turbines STCW	2.5		
GLMA Pgm Elective	3	MNG 323 Marine Steam Lab STCW	1		
<b>Total Credit Hours:</b>	<b>15</b>	<b>Total Credit Hours:</b>	<b>15</b>	<b>Total Credit Hours:</b>	<b>6</b>
<b>Fourth Year (fall) GLMA</b>	<b>Credits</b>	<b>Fourth Year (spring) GLMA</b>	<b>Credits</b>		
MNG 455 Eng Rm Resource	2	MNG 319 Sea Project III	6		

Management					
MNG 466 Engine Room Business	2				
MNG 496 License Prep	2				
GLMA Approved Program Elective	3				
GLMA Approved Program Elective	3				
<b>Total Credit Hours:</b>	<b>12</b>	<b>Total Credit Hours:</b>	<b>6</b>		

Total credits taken at Muskegon CC: 38-43\*\*

Total credits taken at NMC/ GLMA: 87

Total credit hours for BSMT: 120

Grand total of credit hours: 121

\*\*In combination with equated MCC courses and GLMA approved electives, students can reverse transfer credits to meet the 60 credits required for Associate in General Studies.

**Note: The degree of BSMT - Engineering Officer requires completion of 120 credits. Unless specifically approved in advance by GLMA, no Muskegon CC PE classes can be applied to the BSMT - Engineering Officer program requirements. In no case can more than one PE credit be applied to the GLMA bachelor's degree requirement.**

Muskegon Community College will accept the following courses transferred from GLMA as elective courses to fulfill the Associate in General Studies as equated/noted below:

GLMA (Northwestern Michigan College)

- MNG-104 (3 cr.) Engine System Graphics STCW
- MDK 250 (1 cr.) Stability for Engineering
- MNG 260 (2 cr.) Maritime Machining
- MNG 335 (4 cr.) Elec Machines & Controls
- MNG 336 (2 cr.) Elec Mach & Controls Lab STCW
- MNG 234 (4 cr.) Electronic Fund. STCW
- MNG 271 (2 cr.) Maritime Welding STCW

Muskegon Community College

- CAD-150 (3 cr.) Blueprint Reading
- HP-101 (3 cr.) Hydraulics/Pneumatics
- MT-101B (4 cr.) Basic Machining
- ELTC-150 (3 cr.) Industrial Electricity
- ELTR-202B (4 cr.) Industrial Elec Sys
- ELTC-101AL&L (4 cr.) Electricity Basic
- W-101A (3 cr.) Basic Welding

In addition to the courses noted during year one (e.g. Social Relationships), and exclusive of those listed above, the following Muskegon CC courses will be accepted as GLMA Approved Program Electives. Other courses can be applied as GLMA Program Electives if approved by an adviser.

ARE 115	Wind Turbine & Solar Array Installation	3
AMT 129A	Introduction to Technology	3
BUS 114	Personal Finance	3
BUS 222	Fundamentals of Organizational Behavior	3
BUS 273A	Human Resources Management	3
CHEM (any course)	Chemistry	3-4
CAD (any course)	Computer-Aided Drafting and Design	1-6
CIS (any course)	Computer Information Systems	1-3
ECON 101A or 102A	Economics	4
ELTC (any course)	Electricity	3-4
ELTC 160L&L and 203 Strongly recommended	Programmable Controllers	3
ENGR (any course)	Engineering	3
ENG (any course)	English	4
ENV 110 & Lab	Environmental Science	3
HIST (any course)	History	3
HUM 195	Introduction to Humanities	3
HP 101	Hydraulics/ Pneumatics	3
HP 201	Advanced Hydraulics	4
MT (any course)	Machining Technology	3-4
MET (any course)	Materials Technology	3
MATH (any course)	Mathematics	0.5-4
PHIL (any course)	Philosophy	3
PE (any course, a maximum of one credit can be applied to NMC bachelor's degree)	Physical Education	1



TECH 200	Applied Alternative and Renewable Energy	3
TECH 201A	Intro to Mechatronics	3
TMAT (any course)	Technical Math	3
W (any course)	Welding	3