

# MARITIME - DECK OFFICER, BACHELOR OF SCIENCE

## Great Lakes Maritime Academy

### NMC Code 850

The Great Lakes Maritime Academy prepares students for the challenge of operating commercial ships of unlimited tonnage on the Great Lakes and oceans as merchant marine officers and business professionals. Deck officers train to become pilots and mates, navigating ships through open waters and narrow harbors — ships which may stretch to one thousand feet in length. Deck Officers manage the deck department and oversee loading and discharging of cargo, and are responsible for the ship's business.

All qualified deck cadets write the U.S. Coast Guard examination for licensing as a Third Mate Great Lakes and any Oceans Unlimited Tonnage and First Class Great Lakes Pilot. Graduates are fully compliant with STCW International Quality Standards. The four-year curriculum awards a Bachelor of Science Degree in Maritime Technology. For those entering with a bachelor's degree, an accelerated three-year program also awards the bachelor's degree.

## Requirements

### Major Requirements

Course	Title	Credits
<b>General Education Requirements</b>		
ENG 111	English Composition	4
ENG 112	English Composition	4
PHL 202	Contemporary Ethical Dilemmas	3
Any Group 1 Humanities course		3
Math Competency <sup>1</sup>		7
Group 1 Social Science		3
ENV 117	Meteorology & Climatology	4
PHY 105	Physics of the World Around Us	4
<b>Maritime Requirements</b>		
MDK 100	Survival at Sea	1
MDK 104	Rigging & Ship Maintenance Lab	1
MDK 106	Watchstanding I	1
MDK 112	Rules of the Nautical Road	2
MDK 121	Navigation I	3
MDK 122	Navigation I Lab	1
MDK 149	Damage Control & Safety	2
MDK 200	Ship Business & Labor Relation	3
MDK 206	Watchstanding II	1
MDK 210	Deck Sea Project I	6
MDK 221	Lakes Piloting	2
MDK 222	River Piloting	3
MDK 242	Ship Stability	3
MDK 311	Deck Sea Project II	6
MDK 312	Deck Sea Project III	6
MDK 324	Navigation III	3
MDK 330	Medical First Aid Provider	2

MDK 331	Electronic Navigation	3
MDK 332	Electronic Navigation Lab	1
MDK 333	Automatic Radar Plotting Aids	1
MDK 341	Ship Construction	2
MDK 345	Dry Cargo Stowage	3
MDK 404	Marine Supervisory Lab	1
MDK 411	Marine Communications	2
MDK 431	ECDIS	3
MDK 445	Liquid Cargo Stowage	2
MDK 450	Vessel & Port Security Officer	2
MDK 446	Bridge Resource Management	3
MDK 448	Pilot/Mate License Prep	4
MDK 454	GMDSS	3
MNG 100	Intro to Vessel Operations	1
MNG 105	Shipboard Information Systems	3
MNS 100	Naval Science	2
General Elective		3
<b>Occupational Specialty Requirements</b>		
MGT 241	Principles of Management	3
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Placement into MTH 141 Calculus I **or** higher, **or** completion of MTH 121 College Algebra and MTH 122 Trigonometry

## Course Sequence Guide 3 Year Deck Officer

*For those entering with a bachelor's degree*

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
MNS 100	Naval Science	2
MDK 104	Rigging & Ship Maintenance Lab	1
MNG 105	Shipboard Information Systems	3
MDK 106	Watchstanding I	1
MDK 149	Damage Control & Safety	2
MDK 330	Medical First Aid Provider	2
MTH 122	Trigonometry	3
PHY 105	Physics of the World Around Us	4
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
MDK 112	Rules of the Nautical Road	2
MDK 121	Navigation I	3
MDK 122	Navigation I Lab	1
MDK 331	Electronic Navigation	3
MDK 332	Electronic Navigation Lab	1
MDK 333	Automatic Radar Plotting Aids	1
MDK 341	Ship Construction	2
Group 1 Humanities Elective		3
<b>Credits</b>		<b>16</b>
<b>Summer</b>		
MDK 100	Survival at Sea	1

MNG 100	Intro to Vessel Operations	1
MDK 210	Deck Sea Project I <sup>2</sup>	6
<b>Credits</b>		<b>8</b>
<b>Second Year</b>		
<b>Fall</b>		
MDK 200	Ship Business & Labor Relation	3
MDK 221	Lakes Piloting (Nav II)	2
MDK 242	Ship Stability	3
MDK 404	Marine Supervisory Lab	1
MDK 411	Marine Communications	2
ENV 117	Meteorology & Climatology <sup>1</sup>	4
PHL 202	Contemporary Ethical Dilemmas	3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
MDK 206	Watchstanding II	1
MDK 222	River Piloting	3
MDK 324	Navigation III	3
MDK 345	Dry Cargo Stowage	3
MDK 445	Liquid Cargo Stowage	2
MDK 450	Vessel & Port Security Officer	2
MDK 454	GMDSS	3
<b>Credits</b>		<b>17</b>
<b>Summer</b>		
MDK 311	Deck Sea Project II <sup>2</sup>	6
<b>Credits</b>		<b>6</b>
<b>Third Year</b>		
<b>Fall</b>		
MDK 431	ECDIS	3
MDK 446	Bridge Resource Management	3
MDK 448	Pilot/Mate License Prep	4
MGT 241	Principles of Management	3
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
MDK 312	Deck Sea Project III <sup>2</sup>	6
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>102</b>

<sup>1</sup> General education classes

<sup>2</sup> Sailing projects on training or commercial ships

Course	Title	Credits
	GLMA approved transfer credits	18
	Maritime/Sea Projects Credit Hours	82
	NMC Credit Hours	20
BSMT Degree requires 120 credit hours. Classes indicated as tested out (TO) or waived (W) must be replaced with classes approved by department head.		
Cadets must earn a minimum of 2.0 grade in all Maritime, NMC and transfer classes.		
<b>Total Credits</b>		<b>120</b>

## Requirements/Certifications

- MARAD Basic and Advanced Firefighting
- Personal Safety & Social Responsibility Training
- Completed Sea Days (300 Required)
- In Port Sea Days (30 required)

## 4 Year Deck Officer

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
MNS 100	Naval Science	2
MDK 104	Rigging & Ship Maintenance Lab	1
MNG 105	Shipboard Information Systems	3
MDK 106	Watchstanding I	1
ENG 111	English Composition <sup>1</sup>	4
MTH 121	College Algebra <sup>1</sup>	4
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MDK 112	Rules of the Nautical Road	2
MDK 121	Navigation I	3
MDK 122	Navigation I Lab	1
MDK 149	Damage Control & Safety	2
ENG 112	English Composition <sup>1</sup>	4
MTH 122	Trigonometry <sup>1</sup>	3
<b>Credits</b>		<b>15</b>
<b>Summer</b>		
MDK 100	Survival at Sea	1
MNG 100	Intro to Vessel Operations	1
MDK 210	Deck Sea Project I <sup>2</sup>	6
<b>Credits</b>		<b>8</b>
<b>Second Year</b>		
<b>Fall</b>		
MDK 200	Ship Business & Labor Relation	3
MDK 221	Lakes Piloting (Nav II)	2
MDK 242	Ship Stability	3
MDK 404	Marine Supervisory Lab	1
PHY 105	Physics of the World Around Us <sup>1</sup>	4
PHY 105L	Physics/World Around Us Lab	0
<b>Credits</b>		<b>13</b>
<b>Spring</b>		
MDK 222	River Piloting	3
MDK 330	Medical First Aid Provider	2
MDK 331	Electronic Navigation	3
MDK 332	Electronic Navigation Lab	1
MDK 333	Automatic Radar Plotting Aids	1
MDK 345	Dry Cargo Stowage	3
MDK 445	Liquid Cargo Stowage	2
<b>Credits</b>		<b>15</b>
<b>Summer</b>		
TOAR / Pilots / Sea Days		
<b>Credits</b>		<b>0</b>

**Third Year****Fall**

MDK 311	Deck Sea Project II <sup>2</sup>	6
<b>Credits</b>		<b>6</b>

**Spring**

MDK 206	Watchstanding II	1
MDK 341	Ship Construction	2
MDK 324	Navigation III	3
ENV 117	Meteorology & Climatology <sup>1</sup>	4
ENV 117L	Meteorology & Climatology Lab	0
Group 1 Humanities Elective		3
Group 1 Social Science Elective		3
<b>Credits</b>		<b>16</b>

**Summer**

MDK 312	Deck Sea Project III <sup>2</sup>	6
<b>Credits</b>		<b>6</b>

**Fourth Year****Fall**

MDK 411	Marine Communications	2
MDK 431	ECDIS	3
MDK 446	Bridge Resource Management	3
MDK 448	Pilot/Mate License Prep	4
<b>Credits</b>		<b>12</b>

**Spring**

MDK 450	Vessel & Port Security Officer	2
MDK 454	GMDSS	3
PHL 202	Contemporary Ethical Dilemmas <sup>1</sup>	3
MGT 241	Principles of Management <sup>1</sup>	3
General Elective		3
<b>Credits</b>		<b>14</b>

<b>Total Credits</b>	<b>120</b>
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<sup>1</sup> General education classes<sup>2</sup> Sailing projects on training of commercial ships

Course	Title	Credits
	Maritime/Sea Projects Credit Hours	82
	NMC Credit Hours	38

BSMT Degree requires 120 credit hours. Classes indicated as tested out (TO) or waived (W) must be replaced with classes approved by department head.

Cadets must earn a minimum of 2.0 grade in all Maritime, NMC and transfer classes.

<b>Total Credits</b>	<b>120</b>
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**REQUIREMENTS/CERTIFICATIONS**

- First Aid/CPR/AED
- Firefighting
- Personal Safety & Social Responsibility Training
- Completed Sea Days
- In Port Sea Days (24 required)
- MDK 100 Survival at Sea completion date