GREAT LAKES MARITIME ACADEMY

4 YEAR ENGINEERING OFFICER CURRICULUM GUIDE

Bachelor of Science in Maritime Technology

	FIRST YEAR	
FALL		Credit
MNG 104	Engine System Graphics STCW	3
MNG 110	Engineering Mechanics STCW	3
ENG 111	English Composition	4
MTH 121	College Algebra	4
		14
SPRING		
MNS 100	Naval Science	2
MNG 234	Electronic Fundamentals STCW	4
MNG 314	Diesel Engineering STCW	7
MTH 122	Trigonometry	3
		16
SUMMER		
MNG 317	Sea Project I STCW	3
MDK 100	Survival at Sea STCW	1
MNG 100	Intro to Vessel Operations	1
		5

SECOND YEAR		
FALL		Credit
MNG 250	Fluid Systems STCW	3
MNG 260	Maritime Machining	2
MNG 335	Electric Mach & Controls STCW	4
MNG 336	Electric M & C Lab STCW	2
CHM 101	Intro to Chemistry	4
		15

	SECOND YEAR - cont'd	
SPRING		Credit
MNG 105	Shipboard Information Systems	3
MDK 149	Damage Control & Safety STCW	2
MNG 271	Maritime Welding	2
MNG 321	Marine Boilers STCW	3.5
MNG 322	Marine Turbines STCW	2.5
MNG 323	Marine Steam Lab STCW	1
ENG	ENG 220 or ENG 112	3
		17
SUMMER		
No Classes		

THIRD YEAR		
FALL		
MNG 318	Sea Project II STCW	6
SPRING		
MNG 275	Refrigeration STCW	3
MDK 341	Ship Construction STCW	2
GLMA	Program Elective	3
GLMA	Program Elective	3
GLMA	Program Elective	3
PHL 202	Cont. Ethical Dilemmas	_ 3
		17
SUMMER		
MNG 319	Sea Project III STCW	6

FOURTH YEAR		
FALL		Credit
MDK 250	Stability for Engineer	1
MDK 330	Medical First Aid Provider	2
MNG 455	Eng Rm Resource Mgmt	2
MNG 466	Engine Room Business	2
MNG 496	License Prep	2
GLMA	Program Elective	3
		12
SPRING		
PLS 101	Intro to American Pol	3
GLMA	Program Elective	3
GLMA	Program Elective	3
GLMA	Program Elective	3
		12

Maritime/Sea Projects Credit Hours	
NMC Credit Hours	
BSMT requires 120 credit hours. Courses in green are available for transfer. Some may also be tested out of through standardized tests.	

Add'l Requirements/Certifications	
First Aid/CPR/AED	
Firefighting	
Personal Safety & Social Responsibility	
VPDSD	
In Port Sea Days (30 required)	
Completed Sea Days (240 required)	

List of approved program electives (NMC course transfer or equivelant)

21 credit hours required

ACC 121	-	Accounting Principles I
BUS 231	-	Professional Communications
BUS 261	-	Business Law I
CIT 110	-	Programming Logic and Design
CIT 210	-	Microsoft Office – Excel
CIT 213	-	Networking Technologies
CIT 233	-	Project Management
COM 101	-	Introduction to Communication
COM 111	-	Public Speaking
DD 110	-	Basic Metallurgy
EET 221	-	Industrial Controls*
EET 232	-	Programmable Logic Controllers*
EET 304	-	Marine Electronics*
EGR 201	-	Statics*
EGR 202	-	Mechanics of Materials*
EGR 203	-	Dynamics*
HST 101	-	Western Civilization to 1500AD
HST 102	-	Western Civilization from 1500
HST 111	-	U S History to 1865

HST 211 - Native American History **HST 212** - African-American History **HST 213** - American Women's History HST 225 - American Civil War HST 228 - The Vietnam War **HST 230** - A History of Michigan **HST 235** - 20th Century Europe **HUM 101** - Introduction to Humanities **HUM 102** - Introduction to Humanities **HUM 116** - World Cultures MDK 445 - Liquid Cargo Stowage MFG 114 - Machining II* MFG 217 - CNC Operations – Lathe* MFG 304 - Marine Hydraulics **MGT 241** - Principles of Management MGT 251 - Human Resources Management MNS 200 - Naval Science II MNS 250 - Leadership and Ethics

MTH 141 - Calculus I* MTH 142 - Calculus II* **PHL 105** - Critical Thinking PHL 201 - Ethics PHL 203 - Environmental Ethics **PHY 105** - Physics of the World Around Us PHY 121 - General Physics I* PHY 122 - General Physics II* **PLS 132** - Comparative Politics **PLS 211** - International Relations **PLS 233** - U.S. Foreign Policy **PSY 101** - Introduction to Psychology **PSY 223** - Intro to Social Psychology* **PSY 231** - Psychology of Adjustment* RAM 155 - Microcontroller Programming **SOC 101** - Introduction to Sociology

SOC 211 - Marriage and the Family

SOC 231 - Deviance and Criminal Behavior

HST 112 - U S History Since 1865

MFG 114 and 217 are met by MNG 260 and may require an instructor signature EET 221, 232, and 234 are met by MNG 234 and may require an instructor signature All other courses with a required prerequisite must be met by the course(s) required in the catalog

MTH 116 - Intro to Computer Science

MTH 131 - Intro to Prob & Stats*

^{*}Prerequisite required: