

State University of New York

MARITIME COLLEGE

DEGREE CURRICULA

For Students Entering Maritime College During 2007-2008 Academic Year

As of 01/21/2008

LINKS TO THE MARITIME COLLEGE DEGREE CURRICULA

(left click on link to jump to desired degree curriculum)

Bachelor of Engineering (common first two years)
Electrical Engineering - Engine License
Electrical Engineering - Intern Option
Facilities Engineering - Engine License
Facilities Engineering - Intern Option
Marine Electrical and Electronic Systems - Deck License
Marine Engineering - Engine License
Mechanical Engineering - Engine License
Mechanical Engineering - Intern Option
Naval Architecture - Deck License
Naval Architecture - Engine License
Naval Architecture - Intern Option
Bachelor of Science in General Engineering - Engine License (common first two years)
Computer and Information Technology Minor
Environmental Science Minor
Humanities Minor
Management Minor
Bachelor of Science in International Transportation and Trade (ITT) - Intern (common first two years)
ITT with Minor in Business Communications
ITT with Minor in Intermodal and Maritime Security
ITT 2-year program for transfer students
Bachelor of Science in Marine Business and Commerce with Humanities Minor - Deck License
Bachelor of Science in Marine Environmental Science (MES) (common first two years)
MES - Marine Biology Minor - Deck License
MES - Marine Biology Minor - Intern Option
MES - Meteorology & Oceanography Minor - Deck License
MES - Meteorology & Oceanography Minor - Intern Option
Bachelor of Science in Marine Operations - Deck License
Bachelor of Science in Marine Transportation (MT) - Deck License (common first two years)
<u>MT</u>
MT - Ship Management Minor
Bachelor of Science in Maritime Studies - Intern Option

Associate in Applied Science in Marine Technology: Small Vessel Operations

Bachelor of Engineering Engine License / Intern Option Lower Division

This page shows the first two years for all Bachelor of Engineering students taking Engine License or Intern Optio

		-	L L CO
	Fall Semester	cr.	
CHEM 121	General Chemistry 1	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	
	*NUCC 101 for NDOTC/MMD condide		•

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

			<u> </u>
	Fall Semester	cr.	
ENGR 242	Statics	3	
HUMN 201	Humanities I	3	
MATH 211	Calculus III	4	
PHYS 201	Engineering Physics II	4	
PHYS 202	Engineering Physics Lab	1	

Engine License:

ENGR 503	Manufacturing Processes I	1			
ENGR 541	Ship Systems I	2			
or					
Intern Option:					

|--|

Total Credits:

18

Engine License:

ENGR 520	Summer Sea Term II	5		
PE 411	Medical Care Provider	1		
or				
ENGR 521	Cadet Observer	6		
(student taking Codet Observer still owes DE (11)				

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Sophomore Year

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics*		
ENGR 290	Electrical Engineering I	3	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations	4	

* prospective Electrical Engineering majors are required to take ENGR 344

Engine License:

ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	

Intern Option:

A			
HIST 102	American Civilization II	3	

Total Credits:

or Intern Option:

or

ENGR 525	Industrial Internship I	6		
-----------------	-------------------------	---	--	--

19

Bachelor of Engineering Deck License Lower Division

This page shows the first two years for all Bachelor of Engineering students taking Deck Licens

		_	L L C
	Fall Semester	cr.	
CHEM 121	General Chemistry 1	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 100	Engineering Graphics	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	
	*NVSC 101 for NROTC/MMR candid	ates	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 102	Intro to Engineering	1	
MATH 102	Calculus II	4	
NAVG 112	Terrestrial Navigation	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

6

		Se	ophomore Year
	Fall Semester	cr.	
ENGR 242	Statics	3	CHE
HUMN 201	Humanities I	3	ENG
MATH 211	Calculus III	4	
METE 201	Meteorology for Mariners	3	ENG
PHYS 201	Engineering Physics II	4	ENG
PHYS 202	Engineering Physics Lab	1	HUM
			MAT
			NAV
	Total Credits:	18	

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics*		
	or	3	
ENGR 290	Electrical Engineering I*		
ENGR 344	Thermodynamics	3	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations	4	
NAVG 212	Celestial Navigation	4	
	Total Credits:	20	

* Naval Architecture Deck take ENGR 244 Marine Electrical/Electronic Systems take ENGR 290

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 87

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Bachelor of Engineering Electrical Engineering - Engine License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
ENGR 510	Summer Sea Term I	6	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

Spring Semester

Thermodynamics

Manufacturing Processes II

CHEM 212 Materials Science

ENGR 542 Ship Systems II

HUMN 202 Humanities II

ENGR 344

ENGR 504

ENGR 290 Electrical Engineering I

MATH 212 Differential Equations

Total Credits:

cr.

3

3

3

1

2

3

4

19

Sophomore Year

3		opno	
	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 503	Manufacturing Processes I	1	
ENGR 541	Ship Systems I	2	
HUMN 201	Humanities I	3	
MATH 211	Calculus III	4	
PHYS 201	Engineering Physics II	4	
PHYS 202	Engineering Physics Lab	1	
	Total Credits:	18	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	
() 1) 1 1 1		1.1.1.	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*
·	

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Electrical Engineering - Engine License Upper Division

			Jur
	Fall Semester	cr.	
ENGR 383	Network Analysis	3	
ENGR 387	Electronics I	4	
ENGR 394	Electromagnetic Fields	3	
ENGR 543	Ship Systems III	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.
ENGR 380	Electrical Engineering II	3
ENGR 388	Electronics II	4
ENGR 452	Controls	3
ENGR 544	Ship Systems IV	3
NAUT 308	Nautical Operations: Safety	2
	Humanities/SS Elective	3
	Total Credits:	18

			Se
	Fall Semester	cr.	
CS 480	Computer Engineering I	3	
ENGR 481	Communications Theory	3	
ENGR 488	Electrical Design I	4	
HIST 101	American Civilization I	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective	3	
	Total Credits:	17	

Senior	Year

	Spring Semester	cr.	
CS 490	Computer Engineering II	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 443	Engineering Economics	3	
ENGR 489	Electrical Design II	4	
ENGR 495	Marine Electrical Systems	3	
HIST 102	American Civilization II	3	
	Total Credits:	19	

Total Credits for Degree: 161

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Engineering Electrical Engineering - Intern Lower Division

Fres	hman	Y	ear

	Fall Semester	cr.	
CHEM 121	General Chemistry 1	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	
	*NVSC 101 for NROTC/MMR candida	ates	

NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
----------	-------------------	---	--

		S	oph
	Fall Semester	cr.	
ENGR 242	Statics	3	
HIST 101	American Civilization I	3	
HUMN 201	Humanities I	3	
MATH 211	Calculus III	4	
PHYS 201	Engineering Physics II	4	
PHYS 202	Engineering Physics Lab	1	
	Total Credits:	18	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
		10	
	Total Credits:	18	

e <u>Year</u>		
	Spring Semester	cr.
CHEM 212	Materials Science	3
ENGR 290	Electrical Engineering I	3
ENGR 344	Thermodynamics	3
HIST 102	American Civilization II	3
HUMN 202	Humanities II	3
MATH 212	Differential Equations	4
	Total Credits:	19

ENGR 525 Industrial Internship I 6

> 85 **Total Lower Division Credits:**

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities: Mathematics: Science:

ENGL101, ENGL102; HUMN201, HUMN202 MATH101, MATH102, MATH211, MATH212 PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212

Engineering: ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Electrical Engineering - Intern Upper Division

			Junior Year
	Fall Semester	cr.	
ENGR 383	Network Analysis	3	E
ENGR 387	Electronics I	4	E
ENGR 394	Electromagnetic Fields	3	E
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

-a1			
	Spring Semester	cr.	
ENGR 380	Electrical Engineering II	3	
ENGR 388	Electronics II	4	
ENGR 452	Controls	3	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

			Se	nior Year
	Fall Semester	cr.		
CS 480	Computer Engineering I	3		CS
ENGR 481	Communications Theory	3		EN
ENGR 488	Electrical Design I	4		EN
PE 20x	Lifetime Sports	1		EN
	Applied Engineering Elective	3		
	Engr/Sci Elective	3		
	Total Credits:	17		

ENGR 535 Industrial Internship II

	Spring Semester	cr.
CS 490	Computer Engineering II	3
ENGR 443	Engineering Economics	3
ENGR 489	Electrical Design II	4
ENGR 495	Marine Electrical Systems	3
	Applied Engineering Elective	3
	Engr/Sci Elective	3
	Total Credits:	19

~

Total Credits for Degree: 159

Applied Engineering Elective Any ENGR course numbered 300 or above.

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

6

Bachelor of Engineering Facilities Engineering - Engine License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
ENGK 510	Summer Sea Term I	0	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

		So	oph
	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 503	Manufacturing Processes I	1	
ENGR 541	Ship Systems I	2	
HUMN 201	Humanities I	3	
MATH 211	Calculus III	4	
PHYS 201	Engineering Physics II	4	
PHYS 202	Engineering Physics Lab	1	
	Total Credits:	18	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:
Mathematics:
Science:
Engineering:

ENGL101, ENGL102; HUMN201, HUMN202 MATH101, MATH102, MATH211, MATH212 PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212 ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work. (Continued on next page)

SUNY Maritime College Degree Curricula Class of 2011

Class of 2011 Last Revsied: 01/21/2008

Sophomore Year

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics	Dynamics	
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	3	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations 4		
	Total Credits:	19	

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Facilities Engineering - Engine License Upper Division

			Ju	nior Year
	Fall Semester	cr.		
ENGR 341	Fluid Mechanics	3		EN
ENGR 343	Engineering Analysis	3		EN
ENGR 344	Thermodynamics			EN
	or	3		EN
ENGR 244	Dynamics			EN
ENGR 380	Electrical Engineering II	3		NA
ENGR 543	Ship Systems III	3		
	Humanities/SS Elective	3		
	Total Credits:	18		

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.	
ENGR 347	Strength of Materials	3	
ENGR 351	Heat Transfer	3	
ENGR 354	Marine Engineering Design I	3	
ENGR 390	Electrical Engineering III	3	
ENGR 544	Ship Systems IV	3	
NAUT 308	Nautical Operations: Safety	2	
	Humanities/SS Elective	3	
	Total Credits:	20	

			Sei
	Fall Semester	cr.	
ENGR 421	Plant Facilities Design I	4	
ENGR 443	Engineering Economics	3	
ENGR 453	Modern Concepts	3	
HIST 101	American Civilization I	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective	3	
	Total Credits:	17	

Senior Year

	Spring Somestor	01	
	Spring Semester	cr.	
ENGR 348	Strength of Materials Lab	1	
ENGR 349	Transport Processes Laboratory	1	
ENGR 371	Applied Naval Architecture	3	
ENGR 422	Plant Facilities Design II	4	
ENGR 452	Controls	3	
HIST 102	American Civilization II	3	
	Total Credits:	15	

Total Credits for Degree: 161

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Engineering Facilities Engineering - Intern Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510 Summer Sea Term I 6		1
------------------------------	--	---

	Spring Semester	cr.
CS 101	Computer Laboratory	1
ENGL 102	Freshman English II	3
ENGR 100	Engineering Graphics	1
ENGR 102	Intro to Engineering	1
ENGR 540	Intro to Ship Systems	3
MATH 102	Calculus II	4
PE 101	Lifetime Fitness & Conditioning	1
PHYS 102	Engineering Physics I	4
	Total Credits:	18

Sophomore Year

	Fall Semester	cr.	Spring Semester
ENGR 242	Statics	3	CHEM 212 Materials Science
HIST 101	American Civilization I	3	ENGR 244 Dynamics
HUMN 201	Humanities I	3	or
MATH 211	Calculus III	4	ENGR 344 Thermodynamics
PHYS 201	Engineering Physics II	4	ENGR 290 Electrical Engineering I
PHYS 202	Engineering Physics Lab	1	HIST 102 American Civilization II
			HUMN 202 Humanities II
			MATH 212 Differential Equations
	Total Credits:	18	Total Credits:

ENGR 525 Industrial Internship I

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*

6

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

cr. 3

3

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Facilities Engineering - Intern Upper Division

			Ju	nior Year
	Fall Semester	cr.		
ENGR 341	Fluid Mechanics	3		EN
ENGR 343	Engineering Analysis	3		EN
ENGR 344	Thermodynamics			EN
	or	3		EN
ENGR 244	Dynamics			
ENGR 380	Electrical Engineering II	3		
	Applied Engineering Elective	3		
	Humanities/SS Elective	3		
	Total Credits:	18		
	•			

ENGR 535Industrial Internship II6

	Spring Semester	cr.	
ENGR 347	Strength of Materials	3	
ENGR 351	Heat Transfer	3	
ENGR 354	Marine Engineering Design I	3	
ENGR 390	Electrical Engineering III	3	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	18	

		Sei	nior Year
Fall Semester	cr.		
Plant Facilities Design I	4		EN
Engineering Economics	3		EN
Modern Concepts	3		EN
Lifetime Sports	1		EN
Applied Engineering Elective	3		
Engr/Sci Elective	3		
Total Credits:	17		
	Plant Facilities Design I Engineering Economics Modern Concepts Lifetime Sports Applied Engineering Elective Engr/Sci Elective	Plant Facilities Design I4Engineering Economics3Modern Concepts3Lifetime Sports1Applied Engineering Elective3Engr/Sci Elective3	Fall Semestercr.Plant Facilities Design I4Engineering Economics3Modern Concepts3Lifetime Sports1Applied Engineering Elective3Engr/Sci Elective3

	Spring Semester	cr.	
ENGR 348	Strength of Materials Lab	1	
ENGR 349	Transport Processes Laboratory	1	
ENGR 422	Plant Facilities Design II	4	
ENGR 452	Controls	3	
	Applied Engineering Elective	3	
	Engr/Sci Elective	3	
	Total Credits:	15	

Total Credits for Degree: 159

Applied Engineering Elective Any ENGR course numbered 300 or above.

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Engineering Marine Electrical and Electronic Systems - Deck License Lower Division

Freshman	Year
----------	------

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 100	Engineering Graphics	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	
	*NVSC 101 for NPOTC/MMP condide		

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 102	Intro to Engineering	1	
MATH 102	Calculus II	4	
NAVG 112	Terrestrial Navigation	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	
--------	-------------------	---	--

So	phomore	Vear
50	υποπισι σ	

		1
	Fall Semester	cr.
ENGR 242	Statics	3
HUMN 201	Humanities I	3
MATH 211	Calculus III	4
METE 201	Meteorology for Mariners	3
PHYS 201	Engineering Physics II	4
PHYS 202	Engineering Physics Lab	1
	Total Credits:	18

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

C	Ital			
		Spring Semester	cr.	
	CHEM 212	Materials Science	3	
	ENGR 290	Electrical Engineering I	3	
	ENGR 344	Thermodynamics	3	
	HUMN 202	Humanities II	3	
	MATH 212	Differential Equations	4	
	NAVG 212	Celestial Navigation	4	
		Total Credits:	20	

Total Lower Division Credits: 87

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Marine Electrical and Electronic Systems - Deck License Upper Division

Junior Y	'ear
-----------------	------

	Fall Semester	cr.	
ENGR 371	Applied Naval Architecture	3	
ENGR 383	Network Analysis	3	
ENGR 387	Electronics I	4	
HIST 101	American Civilization I	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
	Total Credits:	18	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

	Spring Semester	cr.	
ENGR 388	Electronics II	4	
ENGR 443	Engineering Economics	3	
HIST 102	American Civilization II	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
	Total Credits:	18	

			36
	Fall Semester	cr.	
CS 480	Computer Engineering I	3	
ENGR 380	Electrical Engineering II	3	
ENGR 481	Communications Theory	3	
ENGR 488	Electrical Design I	4	
MT 321	Intro to Cargo Ops & Stability	3	
	Total Credits:	16	

	9th Semester	cr.	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAUT 416	Bridge Watchstanding	3	
NAVG 402	Advanced Navigation	2	
	Humanities/SS Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree: 178

Spring Semester cr. CS 490 Computer Engineering II 3 ENGR 446 Mar. Eng. Theory & Application 3 ENGR 452 Controls 3 ENGR 489 4 Electrical Design II MT 322 Marine Cargo Operations 3 PE 20x Lifetime Sports 1 **Total Credits:** 17

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Senior Year

Bachelor of Engineering Marine Engineering - Engine License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
ENGROID	Summer Sea Term I	0	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

		So	phomore Year
	Fall Semester	cr.	
ENGR 242	Statics	3	CHEI
ENGR 503	Manufacturing Processes I	1	ENG
ENGR 541	Ship Systems I	2	
HUMN 201	Humanities I	3	ENG
MATH 211	Calculus III	4	ENG
PHYS 201	Engineering Physics II	4	ENG
PHYS 202	Engineering Physics Lab	1	ENG
			HUM
			MAT
	Total Credits:	18	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:ENGL101, ENGL102; HUMN201, HUMN202Mathematics:MATH101, MATH102, MATH211, MATH212Science:PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212Engineering:ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

SUNY Maritime College Degree Curricula

Last Revsied: 01/21/2008

Class of 2011

(Continued on next page)

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	3	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations	4	
	Total Credits:	19	

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Marine Engineering - Engine License Upper Division

_			Ju	nior Year
	Fall Semester	cr.		
ENGR 341	Fluid Mechanics	3		EN
ENGR 344	Thermodynamics			EN
	or	3		EN
ENGR 244	Dynamics			EN
ENGR 347	Strength of Materials	3		EN
ENGR 380	Electrical Engineering II	3		EN
ENGR 543	Ship Systems III	3		HI
HIST 101	American Civilization I	3		
NAUT 308	Nautical Operations: Safety	2		
	Total Credits:	20		

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.	
ENGR 348	Strength of Materials Lab	1	
ENGR 354	Marine Engineering Design I	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 390	Electrical Engineering III	3	
ENGR 443	Engineering Economics	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
	Total Credits:	19	

			Sei
	Fall Semester	cr.	
ENGR 343	Engineering Analysis	3	
ENGR 351	Heat Transfer	3	
ENGR 440	Marine Engineering Design II	3	
ENGR 453	Modern Concepts	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective A	3	
	Humanities/SS Elective	3	
	Total Credits:	19	

Senior Year

	Spring Semester	cr.	
ENGR 349	Transport Processes Laboratory	1	
ENGR 450	Marine Engineering Design III	3	
ENGR 452	Controls	3	
ENGR 495	Marine Electrical Systems	3	
	Engr/Sci Elective B	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree:

Courses currently offered for Engr/Sci Electives A/B sequence in senior year

Engr/Sci Elective A			Engr/Sci Elective B	
CS 480 Computer Engineering I	3	CS 490	Computer Engineering II	3
ENGR 311 Kinematics	3	ENGR 312	Machine Design	3
ENGR 387 Electronics I	4	ENGR 481	Communications Theory	3
ENGR SONY Mater Control of the Engr. I Degree Curricula Class of 2011	3	ENGR 602	Independent Study in Engr. II	3
Last Revsied: 01/21/2008				

165

16

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Bachelor of Engineering Mechanical Engineering - Engine License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience		
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
ENGROID	Summer Sea Term I	0	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

		So	phomore Year
	Fall Semester	cr.	
ENGR 242	Statics	3	CHE
ENGR 503	Manufacturing Processes I	1	ENG
ENGR 541	Ship Systems I	2	
HUMN 201	Humanities I	3	ENG
MATH 211	Calculus III	4	ENG
PHYS 201	Engineering Physics II	4	ENG
PHYS 202	Engineering Physics Lab	1	ENG
			HUM
			MAT
	Total Credits:	18	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

SUNY Maritime College Degree Curricula

Last Revsied: 01/21/2008

Class of 2011

(Continued on next page)

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	3	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations	4	
	Total Credits:	19	

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Mechanical Engineering - Engine License Upper Division

			Ju
	Fall Semester	cr.	
ENGR 343	Engineering Analysis	3	
ENGR 344	Thermodynamics		
	or	3	
ENGR 244	Dynamics		
ENGR 347	Strength of Materials	3	
ENGR 380	Electrical Engineering II	3	
ENGR 543	Ship Systems III	3	
	Humanities/SS Elective	3	
	Total Credits:	18	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

nior Year					
	Spring Semester	cr.			
ENGR 311	Kinematics	3			
ENGR 312	Machine Design	3			
ENGR 354	Marine Engineering Design I	3			
ENGR 390	Electrical Engineering III	3			
ENGR 544	Ship Systems IV	3			
NAUT 308	Nautical Operations: Safety	2			
	Humanities/SS Elective	3			
	Total Credits:	20			

			Sei
	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 443	Engineering Economics	3	
ENGR 418	Mechanical Engineering Design	[4]	
HIST 101	American Civilization I	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective	3	
	Total Credits:	17	

Senior Year

	Spring Semester	cr.	
ENGR 348	Strength of Materials Lab	1	
ENGR 349	Transport Processes Laboratory	1	
ENGR 351	Heat Transfer	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 419	Mechanical Engineering Design II	4	
HIST 102	American Civilization II	3	
	Total Credits:	15	

Total Credits for Degree: 161

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Engineering Mechanical Engineering - Intern Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510 Summer Sea Term I 6		
------------------------------	--	--

	Spring Semester	cr.		
CS 101	CS 101 Computer Laboratory			
ENGL 102	Freshman English II	3		
ENGR 100	Engineering Graphics	1		
ENGR 102	Intro to Engineering	1		
ENGR 540	Intro to Ship Systems	3		
MATH 102	Calculus II	4		
PE 101	Lifetime Fitness & Conditioning	1		
PHYS 102	Engineering Physics I	4		
	Total Credits:	18		

Sophomore Year

	Fall Semester	cr.		Spring Semester	cr.
ENGR 242	Statics	3	CHEM 212	Materials Science	3
HIST 101	American Civilization I	3	ENGR 244	Dynamics	
HUMN 201	Humanities I	3		or	3
MATH 211	Calculus III	4	ENGR 344	Thermodynamics	
PHYS 201	Engineering Physics II	4	ENGR 290	Electrical Engineering I	3
PHYS 202	Engineering Physics Lab	1	HIST 102	American Civilization II	3
			HUMN 202	Humanities II	3
			MATH 212	Differential Equations	4
	Total Credits:	18		Total Credits:	19

ENGR 525 Industrial Internship I

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

U	
Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*
cific courses may be e	voluded from subset GPA calculation if the student's engineering program does n

6

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Mechanical Engineering - Intern Upper Division

			or Year	
	Fall Semester	cr.	Spring Semeste	er cr.
ENGR 343	Engineering Analysis	3	ENGR 311 Kinematics	3
ENGR 344	Thermodynamics		ENGR 312 Machine Design	3
	or	3	ENGR 354 Marine Enginee	ring Design I 3
ENGR 244	Dynamics		ENGR 390 Electrical Engin	eering III 3
ENGR 347	Strength of Materials	3	Applied Engine	ering Elective 3
ENGR 380	Electrical Engineering II	3	Humanities/SS	Elective 3
	Applied Engineering Elective	3		
	Humanities/SS Elective	3		
	Total Credits:	18	Total Credits:	18

ENGR 535Industrial Internship II6

Senior Y

	Fall Semester	cr.		Spring Semester	cr.	
ENGR 341	Fluid Mechanics	3	ENGR 348	Strength of Materials Lab	1	
ENGR 443	Engineering Economics	3	ENGR 349	Transport Processes Laboratory	1	
ENGR 418	Mechanical Engineering Design	[4	ENGR 351	Heat Transfer	3	
PE 20x	Lifetime Sports	1	ENGR 419	Mechanical Engineering Design II	4	
	Applied Engineering Elective	3		Applied Engineering Elective	3	
	Engr/Sci Elective	3		Engr/Sci Elective	3	
	Total Credits:	17		Total Credits:	15	

Total Credits for Degree: 159

Applied Engineering Elective: Any ENGR course numbered 300 or above.

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Engineering Naval Architecture - Deck License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 100	Engineering Graphics	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	
	*NVSC 101 for NDOTC/MMD condide		

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 102	Intro to Engineering	1	
MATH 102	Calculus II	4	
NAVG 112	Terrestrial Navigation	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	
--------	-------------------	---	--

So	phomore	Year
30	DHOMOre	rear

		1
	Fall Semester	cr.
ENGR 242	Statics	3
HUMN 201	Humanities I	3
MATH 211	Calculus III	4
METE 201	Meteorology for Mariners	3
PHYS 201	Engineering Physics II	4
PHYS 202	Engineering Physics Lab	1
	Total Credits:	18

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

•	I CUI			
		Spring Semester	cr.	
	CHEM 212	Materials Science	3	
	ENGR 244	Dynamics	3	
	ENGR 344	Thermodynamics	3	
	HUMN 202	Humanities II	3	
	MATH 212	Differential Equations	4	
	NAVG 212	Celestial Navigation	4	
		Total Credits:	20	

Total Lower Division Credits: 87

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Naval Architecture - Deck License Upper Division

			Ju	nior Year
	Fall Semester	cr.		
ENGR 341	Fluid Mechanics	3		EN
ENGR 347	Strength of Materials	3		EN
ENGR 363	Ship Statics	3		EN
ENGR 365	Ship Form and Graphics	3		HI
HIST 101	American Civilization I	3		NA
NAUT 314	Rules of the Road	2		NA
NAUT 315	Collision Avoidance	3		NA
	Total Credits:	20		
MT 530	Summer Sea Term III	5		PE

	Spring Semester	cr.
ENGR 366	Ship Structure	3
ENGR 368	Ship Design I	3
ENGR 443	Engineering Economics	3
HIST 102	American Civilization II	3
NAUT 307	Nautical Operations: Legal	2
NAUT 308	Nautical Operations: Safety	2
NAVG 312	Electronic Navigation Systems	4
	Total Credits:	20

1

PE 411 Medical Care Provider

			ben
	Fall Semester	cr.	
ENGR 290	Electrical Engineering I	3	
ENGR 343	Engineering Analysis	3	
ENGR 348	Strength of Materials Lab	1	
ENGR 461	Ship Design II	4	
ENGR 462	Ship Resistance and Propulsion	3	
MT 321	Intro to Cargo Ops & Stability	3	
	Total Credits:	17	

	9th Semester	cr.	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAUT 416	Bridge Watchstanding	3	
NAVG 402	Advanced Navigation	2	
	Humanities/SS Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree: 183

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, SUNY Maritime Coleanography or mathematics approved by the Science Department. Degree Curricula

Class of 2011 Last Revsied: 01/21/2008

Seni	or Y	'ear

ui			
	Spring Semester	cr.	
ENGR 471	Ship Design III	4	
ENGR 354	Marine Engineering Design I	3	
ENGR 473	Ship Dynamics	3	
MT 322	Marine Cargo Operations	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective	3	
	Total Credits:	17	

Bachelor of Engineering Naval Architecture - Engine License Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
LINOK JIU		0	

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

		Sop
	Fall Semester	cr.
ENGR 242	Statics	3
ENGR 503	Manufacturing Processes I	1
ENGR 541	Ship Systems I	2
HUMN 201	Humanities I	3
MATH 211	Calculus III	4
PHYS 201	Engineering Physics II	4
PHYS 202	Engineering Physics Lab	1
-	Total Credits:	18

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*
acific courses may be a	valuded from subset CBA calculation if the student's angingering program does not require

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work. SUNX Maritime College (Continued on next page)

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Sophomore Year

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	3	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 212	Differential Equations	4	
	Total Credits:	19	

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to 'test out' of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Naval Architecture - Engine License Upper Division

ENGR 341 ENGR 366

ENGR 368

ENGR 390

ENGR 443

ENGR 544

NAUT 308

			Jur	ior Ye <u>ar</u>
	Fall Semester	cr.		
ENGR 344	Thermodynamics			EN
	or	3		EN
ENGR 244	Dynamics			EN
ENGR 347	Strength of Materials	3		EN
ENGR 363	Ship Statics	3		EN
ENGR 365	Ship Form and Graphics	3		EN
ENGR 380	Electrical Engineering II	3		NA
ENGR 543	Ship Systems III	3		
HIST 101	American Civilization I	3		
	Total Credits:	21		

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Fall Semester	cr.
ENGR 343	Engineering Analysis	3
ENGR 348	Strength of Materials Lab	1
ENGR 461	Ship Design II	4
ENGR 462	Ship Resistance and Propulsion	3
PE 20x	Lifetime Sports	1
	Engr/Sci Elective	3
	Humanities/SS Elective	3
	Total Credits:	18

ior Year

ar			
	Spring Semester	cr.	
ENGR 354	Marine Engineering Design I	3	
ENGR 471	Ship Design III	4	
ENGR 473	Ship Dynamics	3	
HIST 102	American Civilization II	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Spring Semester

Fluid Mechanics

Electrical Engineering III

Engineering Economics

Nautical Operations: Safety

Ship Structure

Ship Design I

Ship Systems IV

Total Credits:

cr. 3

> 3 3

3

3

3

2

20

Total Credits for Degree:

166

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

Bachelor of Engineering Naval Architecture - Intern Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidates

ENGR 510 Summer Sea Term I 6	ĺ	
------------------------------	---	--

	Spring Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
ENGR 540	Intro to Ship Systems	3	
MATH 102	Calculus II	4	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

Sophomore Year

	Fall Semester	cr.	Spring Semester	cr.
ENGR 242	Statics	3	CHEM 212 Materials Science	3
HIST 101	American Civilization I	3	ENGR 244 Dynamics	
HUMN 201	Humanities I	3	or	3
MATH 211	Calculus III	4	ENGR 344 Thermodynamics	
PHYS 201	Engineering Physics II	4	ENGR 290 Electrical Engineering I	3
PHYS 202	Engineering Physics Lab	1	HIST 102 American Civilization II	3
			HUMN 202 Humanities II	3
			MATH 212 Differential Equations	4
	Total Credits:	18	Total Credits:	19

ENGR 525 Industrial Internship I

Total Lower Division Credits: 85

Engineering Department Lower Division Competency Requirement

B.E. Engineering students must satisfy a lower division competency requirement. Students must achieve a minimum mastery level in defined subject areas prior to achieving the status of matriculated upper division student. The required standard is a 2.0 GPA in each of the following lower division subsets.

0	
Humanities:	ENGL101, ENGL102; HUMN201, HUMN202
Mathematics:	MATH101, MATH102, MATH211, MATH212
Science:	PHYS102, PHYS201, PHYS202, CHEM121, CHEM122, CHEM212
Engineering:	ENGR242, ENGR244*, ENGR290*
acific courses may be eve	luded from subset GPA calculation if the student's engineering program does n

6

*Specific courses may be excluded from subset GPA calculation if the student's engineering program does not require the courses for junior level work.

(Continued on next page)

(Continued)

Students who do not achieve the minimum subset GPA should expect to be required to remediate in subset area(s) prior to becoming eligible for removal from remediation status. Students in remediation status must have a corrective program developed in conjunction with their faculty advisor and approved by the respective area Chair and the Engineering Department Chair. Students who at any time have a subset average between 1.7 and 2.0 may be given a subset warning and; should expect to be required to repeat one or more subset courses as part of the remediation process. Students with subset averages below 1.7 will be required to repeat one or more subset courses as part of the remediation process. At the discretion of the Engineering Department chair students may be allowed to "test out" of remediation status. Students in remediation status will not be allowed to register for upper division courses in their major. Additional registration restrictions will be imposed on students on academic probation or restricted registration status.

Bachelor of Engineering Naval Architecture - Intern Upper Division

			Jur	nior Year				
	Fall Semester	cr.				Spring Semester	cr.	
ENGR 347	Strength of Materials	3		ENGR (341	Fluid Mechanics	3	
ENGR 363	Ship Statics	3		ENGR (344	Thermodynamics		
ENGR 365	Ship Form and Graphics	3				or	3	
ENGR 380	Electrical Engineering II	3		ENGR	244	Dynamics		
ENGR 551	Designated Duty Engineer I	4		ENGR (366	Ship Structure	3	
	Humanities/SS Elective	3		ENGR (368	Ship Design I	3	
				ENGR 4	443	Engineering Economics	3	
				ENGR :	552	Designated Duty Engineer II	4	
	Total Credits:	19				Total Credits:	19	
	•	•	·			•	-	
ENGR 535	Industrial Internship II	6						

LINGR 555	muusunai muunismp n	
		Ī

Senior Y	Year
----------	------

	Fall Semester	cr.	Spring Semester	cr.
ENGR 343	Engineering Analysis	3	ENGR 354 Marine Engineering Design I	3
ENGR 348	Strength of Materials Lab	1	ENGR 471 Ship Design III	4
ENGR 461	Ship Design II	4	ENGR 473 Ship Dynamics	3
ENGR 462	Ship Resistance and Propulsion	3	ENGR 476 Power Boat Principles & Design	3
ENGR 472	Sail Boat Principles & Design	3	Applied Engineering Elective	3
PE 20x	Lifetime Sports	1	Humanities/SS Elective	3
	Applied Engineering Elective	3		
	Total Credits:	18	Total Credits:	19

Total Credits for Degree:

166

Applied Engineering Elective: Any ENGR course numbered 300 or above.

Bachelor of Science General Engineering - Engine License Lower Division

This page shows the first two years for all students majoring in General Engineering.

]	Fre	shman `	Year
	Fall Semester	cr.]	
CS 101	Computer Laboratory	1			CHE
ENGL 101	Freshman English I	3			ENG
ENGR 102	Intro to Engineering	1			ENG
LEAD 101	Leadership/Maritime Experience	1			ENG
MATH 90	Intro to College Math	4			GBU
NVSC 103	Basic Naval Science*	1			MAT
PE 100	Swimming and Water Safety	1			PE 1
PS 111	Professional Studies I	2			
PS 112	Basic Safety Training	2			
	Total Credits:	16		1	
	*NVSC 101 for NPOTC/MMP candid	atas		-	

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 540	Intro to Ship Systems	3	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Total Credits:	17	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6

	Fall Semester	cr.
CHEM 212	Materials Science	3
ENGR 503	Manufacturing Processes I	1
ENGR 541	Ship Systems I	2
HUMN 201	Humanities I	3
MATH 111	Applied Calculus I	4
PHYS 211	General Physics I	3
PHYS 213	General Physics I Lab	0.5
	Total Credits:	16.5

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 77

1 eal			
	Spring Semester	cr.	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 112	Applied Calculus II	3	
NAUT 308	Nautical Operations: Safety	2	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	15.5	

Bachelor of Science General Engineering - Engine License Computer & Information Technology Minor Lower Division

]	Fres	hman`	Year
	Fall Semester	cr.			
CS 101	Computer Laboratory	1			CHE
ENGL 101	Freshman English I	3			ENG
ENGR 102	Intro to Engineering	1			ENG
LEAD 101	Leadership/Maritime Experience	1			ENG
MATH 90	Intro to College Math	4			GBU
NVSC 103	Basic Naval Science*	1			MAT
PE 100	Swimming and Water Safety	1			PE 1
PS 111	Professional Studies I	2			
PS 112	Basic Safety Training	2			
	Total Credits:	16			
	*NUSC 101 for NDOTC/MMD condid	ataa			

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 540	Intro to Ship Systems	3	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Total Credits:	17	

*NVSC 101 for NROTC/MMR candidates

ENGR 510 Summer Sea Term I	6
----------------------------	---

6	

		So	phomore Year
	Fall Semester	cr.	
CHEM 212	Materials Science	3	ENG
ENGR 503	Manufacturing Processes I	1	ENG
ENGR 541	Ship Systems I	2	HUM
HUMN 201	Humanities I	3	MAT
MATH 111	Applied Calculus I	4	NAU
PHYS 211	General Physics I	3	PHYS
PHYS 213	General Physics I Lab	0.5	PHYS
	Total Credits:	16.5	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 77

e	rear			
		Spring Semester	cr.	
	ENGR 504	Manufacturing Processes II	1	
	ENGR 542	Ship Systems II	2	
	HUMN 202	Humanities II	3	
	MATH 112	Applied Calculus II	3	
	NAUT 308	Nautical Operations: Safety	2	
	PHYS 214	General Physics II	4	
	PHYS 216	General Physics II Lab	0.5	
		Total Credits:	15.5	

Bachelor of Science General Engineering - Engine License Computer & Information Technology Minor Upper Division

Junior Year

	Fall Semester	cr.	
CS 131	Intro to Computer Programming	3	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	Total Credits:	15	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.	
CS 301	Data Structures	3	
ENGR 243	Transport Processes	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 380	Electrical Engineering II	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
	Total Credits:	18	

Senior Year

	Fall Semester	cr.	
ENGR 390	Electrical Engineering III	3	
ENGR 430	Data Networks	3	
ENGR 443	Engineering Economics	3	
ENGR 446	Mar. Eng. Theory & Application	3	
PE 20x	Lifetime Sports	1	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree:

150

	Spring Semester	cr.	
CS 401	Database Systems	3	
ENGR 432	Information Assurance	3	
MATH 446	Operations Research	3	
	Engr/Sci Elective	3	
	Engr/Sci Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	18	

Bachelor of Science General Engineering - Engine License Environmental Science Minor Lower Division

]	Fre	shman `	Year
	Fall Semester	cr.			
CS 101	Computer Laboratory	1			CHE
ENGL 101	Freshman English I	3			ENG
ENGR 102	Intro to Engineering	1			ENG
LEAD 101	Leadership/Maritime Experience	1			ENG
MATH 90	Intro to College Math	4			GBU
NVSC 103	Basic Naval Science*	1			MAT
PE 100	Swimming and Water Safety	1			PE 10
PS 111	Professional Studies I	2			
PS 112	Basic Safety Training	2			
	Total Credits:	16			
	*NVSC 101 for NROTC/MMR candida	ates		-	

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 540	Intro to Ship Systems	3	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Total Credits:	17	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6
----------	-------------------	---

			o Pi
	Fall Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 503	Manufacturing Processes I	1	
ENGR 541	Ship Systems I	2	
HUMN 201	Humanities I	3	
MATH 111	Applied Calculus I	4	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	16.5	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 77

e	rear			
		Spring Semester	cr.	
	ENGR 504	Manufacturing Processes II	1	
	ENGR 542	Ship Systems II	2	
	HUMN 202	Humanities II	3	
	MATH 112	Applied Calculus II	3	
	NAUT 308	Nautical Operations: Safety	2	
	PHYS 214	General Physics II	4	
	PHYS 216	General Physics II Lab	0.5	
		Total Credits:	15.5	

Bachelor of Science General Engineering - Engine License Environmental Science Minor Upper Division

Junior Year

	Fall Semester	cr.	
CHEM 220	Environmental Chemistry	3	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	MES Foundation Course*	3	
	Total Credits:	18	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.	
ENGR 243	Transport Processes	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 380	Electrical Engineering II	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
METE 201	Meteorology for Mariners	3	
	Total Credits:	18	

Senior Year

	Fall Semester	cr.		Spring Semester	cr.
ES 420	Environmental Pollution	3	GBLW 435	Environmental Law & Policy	3
ENGR 390	Electrical Engineering III	3	MATH 446	Operations Research	3
ENGR 446	Mar. Eng. Theory & Application	3		Engr/Sci Elective	3
PE 20x	Lifetime Sports	1		Humanities/SS Elective	3
	Humanities/SS Elective	3		MES Elective II*	3
	MES Elective I*	4			
	Total Credits:	17		Total Credits:	15

Total Credits for Degree: 151

* MES Electives: Students must choose and complete one of three track sequences. (credits in parentheses)

Track I		Track II	Track III
	Oceanography	Meteorology	Biology
Foundation	GEOL 301 General Geology (3)	GEOL 301 General Geology (3)	BIO 201 General Biology (4)
Elective I	OCEA 303 General Oceanography (4)	METE 350 Synoptic Meteorology (4)	BIO 315 Marine Geology (3)
Elective II	OCEA 308 Dynamic Oceanography (3)	METE 308 Dynamic Meterology (3)	BIO 210 Ecology (3)

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science, oceanography or mathematics approved by the Science Department.

Bachelor of Science General Engineering - Engine License Humanities Minor Lower Division

Freshman	Year
----------	------

	Fall Semester	cr.	
CS 101	Computer Laboratory		
ENGL 101	Freshman English I	3	
ENGR 102	Intro to Engineering	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 90	Intro to College Math	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	
	*NVSC 101 for NDOTC/MMD condid		

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
ENGR 540	Intro to Ship Systems	3	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Total Credits:	17	

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6
----------	-------------------	---

		0
	Fall Semester	cr.
CHEM 212	Materials Science	3
ENGR 503	Manufacturing Processes I	1
ENGR 541	Ship Systems I	2
HUMN 201	Humanities I	3
MATH 111	Applied Calculus I	4
PHYS 211	General Physics I	3
PHYS 213	General Physics I Lab	0.5
	Total Credits:	16.5

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 77

rear			
	Spring Semester	cr.	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 112	Applied Calculus II	3	
NAUT 308	Nautical Operations: Safety	2	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	15.5	

Bachelor of Science General Engineering - Engine License Humanities Minor Upper Division

Junior Year

	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	Humanities Minor Elective	3	
	Humanities Minor Elective	3	
	Total Credits:	18	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

	Spring Semester	cr.	
ENGR 243	Transport Processes	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 380	Electrical Engineering II	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
	Humanities Minor Elective	3	
	Total Credits:	18	

Senior Year

	Fall Semester	cr.	
ENGR 390	Electrical Engineering III	3	
ENGR 446	Mar. Eng. Theory & Application	3	
PE 20x Lifetime Sports		1	
	Humanities Minor Elective	3	
	Humanities Minor Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree:

150

	Spring Semester	cr.	
MATH 446	Operations Research	3	
	Engr/Sci Elective	3	
	Humanities Minor Elective		
	Humanities Minor Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	15	

Bachelor of Science General Engineering - Engine License Management Minor Lower Division

]	Fres
	Fall Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 102	Intro to Engineering	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 90	Intro to College Math	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	
	*NVSC 101 for NPOTC/MMP candid	atas	

	Spring Semester	cr.
CHEM 100	Introductory Chemistry	3
ENGL 102	Freshman English II	3
ENGR 100	Engineering Graphics	1
ENGR 540	Intro to Ship Systems	3
GBUS 100	Intro to Business & Economics	3
MATH 251	Statistics	3
PE 101	Lifetime Fitness & Conditioning	1
	Total Credits:	17

*NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6
----------	-------------------	---

Sophomore Year	Sor	ohomore	Year
----------------	-----	---------	------

		50
	Fall Semester	cr.
CHEM 212	Materials Science	3
ENGR 503	Manufacturing Processes I	1
ENGR 541	Ship Systems I	2
HUMN 201	Humanities I	3
MATH 111	Applied Calculus I	4
PHYS 211	General Physics I	3
PHYS 213	General Physics I Lab	0.5
	Total Credits:	16.5

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Total Lower Division Credits: 77

I Cal			
	Spring Semester	cr.	
ENGR 504	Manufacturing Processes II	1	
ENGR 542	Ship Systems II	2	
HUMN 202	Humanities II	3	
MATH 112	Applied Calculus II	3	
NAUT 308	Nautical Operations: Safety	2	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	15.5	

Bachelor of Science General Engineering - Engine License Management Minor Upper Division

Junior Year

	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 543	Ship Systems III	3	
GBAC 311	Financial Accounting	3	
GBMG 341	Organizational Management	3	
HIST 101	American Civilization I	3	
	Total Credits:	18	

ENGR 530	Summer Sea Term III	6	
ENGR 516	Engine License Seminar	0	

GBMG 440 Seminar in Strategy and Policy

Humanities/SS Elective

Lifetime Sports

Total Credits:

GBLW 431 Business Law

ENGR 390

ENGR 446

PE 20x

	Spring Semester	cr.	
ENGR 243	Transport Processes	3	
ENGR 371	Applied Naval Architecture	3	
ENGR 380	Electrical Engineering II	3	
ENGR 443	Engineering Economics	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
	Total Credits:	18	

			Senior Ye		
	Fall Semester	cr.			
	Electrical Engineering III	3			EN
	Mar. Eng. Theory & Application	3			GE

3 3

1

3

16

	Spring Semester	cr.	
ENGR 444	Engineering Project Managemen	3	
GBMG 345	Fundamentals of Marketing	3	
MATH 446	Operations Research	3	
	Engr/Sci Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	15	

Total Credits for Degree: 150

Engr/Sci Elective: any ENGR course numbered 300, 400 or 600 or any course in computer science,

Bachelor of Science International Transportation and Trade - Intern Lower Division

This page shows the first two years for all students majoring in International Transportation and Trade

Freshman Year

			• •
	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
GBUS 100	Intro to Business & Economics	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies I	2	
	Total Credits:	17	

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBEC 121	Macroeconomics	3	
HIST 101	American Civilization I	3	
	Laboratory Science Elective	4	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

*NVSC 101 for NROTC/MMR candidates

Sophomore Year

		b	opin
	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBAC 311	Financial Accounting	3	
HIST 102	American Civilization II	3	
HUMN 201	Humanities I	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

	Spring Semester	cr.	
GBAC 315	Managerial Accounting	3	
GBEC 122	Microeconomics	3	
HUMN 202	Humanities II	3	
HUMN 4xx	General Education - The Arts	3	
MATH 251	Statistics	3	
PE 20x	Lifetime Sports	1	
	Total Credits:	16	

Total Lower Division Credits: 65

Bachelor of Science International Transportation and Trade - Intern Lower Division

Freshman Year

	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
GBUS 100	Intro to Business & Economics	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies I	2	
	Total Credits:	17	

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBEC 121	Macroeconomics	3	
HIST 101	American Civilization I	3	
	Laboratory Science Elective	4	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

cr.

3 3

3 3

3

1

16

*NVSC 101 for NROTC/MMR candidates

Sophomore Year

GBAC 315

GBEC 122

		~	op.
	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBAC 311	Financial Accounting	3	
HIST 102	American Civilization II	3	
HUMN 201	Humanities I	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

Total Lower Division Credits: 65

HUMN 4xxGeneral Education -The ArtsMATH 251StatisticsPE 20xLifetime SportsTotal Credits:

Spring Semester

Microeconomics

HUMN 202 Humanities II

Managerial Accounting

Bachelor of Science International Transportation and Trade - Intern Upper Division

Junior	Year
--------	------

	Fall Semester	cr.	
GBLW 431	Business Law	3	
GBMG 341	Organizational Management	3	
GBTT 251	Transportation Systems	3	
GBTT 451	Marine Insurance	3	
	International Studies Elective	3	
	Total Credits:	15	

GBUS 502 ITT Internship / Work Exp.

	Spring Semester	cr.	
GBEC 424	Intl. Economics and Finance	3	
GBEC 427	Financial Management	3	
GBMG 345	Fundamentals of Marketing	3	
GBTT 252	Business of Shipping	3	
	GBAT Elective	3	
	Total Credits:	15	

Senior Year

6

			Sen	101	1(a
	Fall Semester	cr.				
GBEC 428	Economic Geography	3				(
GBLW 433	Admiralty Law	3				
GBTT 453	Import/Export & Traffic Mgt.	3				(
GBTT 457	Port and Terminal Operations	3				(
	International Studies Elective	3				(
						(
						F
	Total Credits:	15				

	Spring Semester	cr.	
GBEC 429	Seminar: Transport. Economics		
	or	3	
GBMG 440	Seminar: Strategy and Policy		
GBMG 446	Operations Research	3	
GBTT 351	International Logistics	3	
GBUS 300	International Business	3	
PE 100	Swimming and Water Safety	1	
	GBAT Elective	3	
	Total Credits:	16	

Total Upper Division Credits: 67

Total Credits for Degree: 132

Electives

	GBAT Electives	cr.	International Studies Electives cr.
GBLW 435	Environmental Law & Policy	3	ENGL 416 Literature of the Sea 3
GBLW 437	International Law	3	HIST 416 U.S. Maritime Hist. to Civil War 3
GBMG 442	International Marketing Mgt.	3	HIST 417 U.S. Maritime Hist. since 1865 3
GBMG 443	Cross-Cultural Management	3	HIST 418 Hist. of American Foreign Policy 3
GBTT 455	Advanced Transportation Mgt.	3	HIST 440 Hist. of American Enterprise I 3
			HIST 441 Hist. of American Enterprise II 3
			SS 400 Fund. of International Relations 3

Bachelor of Science International Transportation and Trade - Intern Minor in Business Communications Lower Division

Freshman Year		Freshn	nan	Year
---------------	--	--------	-----	------

			L'I Ca
	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
GBUS 100	Intro to Business & Economics	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies I	2	
	Total Credits:	17	

tal			
	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBEC 121	Macroeconomics	3	
HIST 101	American Civilization I	3	
	Laboratory Science Elective	4	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

*NVSC 101 for NROTC/MMR candidates

Sophomore Year

		2	<u>opn</u>
	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBAC 311	Financial Accounting	3	
HIST 102	American Civilization II	3	
HUMN 201	Humanities I	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

Total Lower Division Credits: 65

Spring Semester cr. GBAC 315 Managerial Accounting 3 GBEC 122 Microeconomics 3 HUMN 202 Humanities II 3 HUMN 4xx General Education - The Arts 3 MATH 251 Statistics 3 PE 20x Lifetime Sports 1 **Total Credits:** 16

Bachelor of Science International Transportation and Trade - Intern Minor in Business Communications Upper Division

Fall Semester	cr.	
Business Law	3	
Organizational Management	3	
Business Ethics	3	
Transportation Systems	3	
Marine Insurance	3	
Total Credits:	15	
]	Organizational Management Business Ethics Transportation Systems Marine Insurance	Organizational Management3Business Ethics3Transportation Systems3Marine Insurance3

GBUS 502ITT Internship / Work Exp.6

r Year			
	Spring Semester	cr.	I
ENGL 450	Speech	3	Ī
GBEC 424	Intl. Economics and Finance	3	Ī
GBEC 427	Financial Management	3	Ī
GBMG 345	Fundamentals of Marketing	3	I
GBTT 252	Business of Shipping	3	Ī
	Total Credits:	15	Ī

Senior Year

	Fall Semester	cr.		Spring Semester	cr.	
ENGL 456	Advanced Technical Writing	3	GBEC 429	Seminar: Transport. Economics		
GBEC 428	Economic Geography*	3		or	3	
GBLW 433	Admiralty Law*	3	GBMG 440	Seminar: Strategy and Policy		
GBTT 453	Import/Export & Traffic Mgt.*	3	GBMG 446	Operations Research	3	
GBTT 457	Port and Terminal Operations*	3	GBTT 351	International Logistics*	3	
			GBUS 300	International Business*	3	
			PE 100	Swimming and Water Safety	1	
				Business Commun. Elective	3	
	Total Credits:	15		Total Credits:	16	

* Students will meet with advisor to replace one of these courses by

Business Commun. Elective	3	
---------------------------	---	--

Total Upper Division Credits: 67

Total Credits for Degree: 132

Business Communications Electives (choose two)

ENGL 454	Journalism	3
GBLW 437	International Law	3
GBMG 347	Entr. in Intern. Transp. & Trade	3
HIST 425	History of Technology	3
HIST 440	History of Amer. Enterprise I	3
HIST 441	History of Amer. Enterprise II	3
HUMN 402	Images of Men, Women, Mach.	3

Bachelor of Science International Transportation and Trade - Intern Minor in Intermodal and Maritime Security Lower Division

Freshman Y	'ear
------------	------

			L'I Ca
	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
GBUS 100	Intro to Business & Economics	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies I	2	
	Total Credits:	17	

tai			
	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBEC 121	Macroeconomics	3	
HIST 101	American Civilization I	3	
	Laboratory Science Elective	4	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

*NVSC 101 for NROTC/MMR candidates

Sophomore Year

		D	opin
	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBAC 311	Financial Accounting	3	
HIST 102	American Civilization II	3	
HUMN 201	Humanities I	3	
PE 101	Lifetime Fitness & Conditioning	1	
	Liberal Arts & Sciences Elective	3	
	Total Credits:	16	

Total Lower Division Credits: 65

Spring Semester cr. GBAC 315 Managerial Accounting 3 GBEC 122 Microeconomics 3 HUMN 202 Humanities II 3 HUMN 4xx General Education - The Arts 3 MATH 251 Statistics 3 PE 20x Lifetime Sports 1 **Total Credits:** 16

Bachelor of Science International Transportation and Trade - Intern Minor in Intermodal and Maritime Security Upper Division

			Jur
	Fall Semester	cr.	
GBLW 431	Business Law	3	
GBMG 341	Organizational Management	3	
GBTT 251	Transportation Systems	3	
GBTT 451	Marine Insurance	3	
MT 435	Maritime Security	3	
	Total Credits:	15	

GBUS 502ITT Internship / Work Exp.6

	Spring Semester	cr.
GBEC 424	Intl. Economics and Finance	3
GBEC 427	Financial Management	3
GBMG 345	Fundamentals of Marketing	3
GBTT 252	Business of Shipping	3
GBTT 460	Global Supply Chain Security	3
	Total Credits:	15

Senior Year

	Fall Semester	cr.			Spring Semester	cr.	
GBEC 428	Economic Geography*	3		GBEC 429	Seminar: Transport. Economics		
GBLW 433	Admiralty Law*	3			or	3	
GBTT 453	Import/Export & Traffic Mgt.*	3		GBMG 440	Seminar: Strategy and Policy		
GBTT 457	Port and Terminal Operations*	3		GBMG 446	Operations Research	3	
GBTT 462	Sci & Tech Issues of Security	3		GBTT 351	International Logistics*	3	
				GBUS 300	International Business*	3	
				MT 430	Emergency Mgt. Systems	3	
				PE 100	Swimming and Water Safety	1	
	Total Credits:	15			Total Credits:	16	

* Students will meet with advisor to replace one of these courses by

GBTT 465 Contemporary Security Issues

Total Upper Division Credits: 67

Total Credits for Degree: 132

Requirements for the Minor:

- (i) For acceptance in the Minor, generally students must be of senior standing and have a GPA of 3.0 or greater.
- (ii) The student's cumulative GPA for the five Minor courses must be 3.0 for the Minor to be transcripted on the record. The courses constituting the Minor are listed above in*talics*.

3

Bachelor of Science International Transportation and Trade - Intern 2-Year Program Lower Division Transfer Requirements

Maritime College's B.S. in International Transportation and Trade (ITT) welcomes well-qualified transfer students. In order to complete the upper division work in two years of full-time study, a student must take the appropriate courses during his/her first two years. While students who do not fulfill all the lower division transfer requirements will still be considered for admission into the ITT program, it may not be possible to complete the work in the two-year time frame. An overall GPA of 2.5 is required to transfer into the ITT program.

Students should take courses that correspond as closely as possible to the following list. Note: The SUNY General Education category is listed in parentheses, where applicable.

Tote. The Servi Scheral Education category is listed in parentheses, where appreade.	cr.
ENGL 101, Freshman English I - Composition (Gen Ed: Basic Communications)	3
ENGL 102, Freshman English II - Literature	3
HUMN 201/202, Humanities I & II (Gen Ed: Western and Other Civilizations)	6
ENGL 452, Technical Writing	3
MATH 111, Applied Calculus (Gen Ed: Mathematics)	4
MATH 251, Statistics	3
HIST 101/102, American Civilization I&II (Gen Ed: American History)	6
CS 100/101, Introduction to Business Computing & Computer Laboratory	3
Laboratory Science (Gen Ed: Science)	4
HUMN 400+, The Arts (Gen Ed: The Arts)	3
GBUS 100, Introduction to Business & Economics	3
GBEC 121, Macroeconomics (Gen Ed: Social Sciences)	3
GBEC 122, Microeconomics	3
GBAC 311, Financial Accounting	3
GBAC 315, Managerial Accounting	3
Liberal Arts and Sciences	9
Total Lower Division Transfer Credits:	62

Total Upper Division Program (found on previous pages) Credits: 67

Total Credits for Degree: 129

Bachelor of Science Marine Business and Commerce - Deck License Humanities Minor Lower Division

The first two years of this curriculum are identical to those of the Marine Transportation curriculum.

]	Fresh
	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

	Spring Semester	cr.
ENGL 102	Freshman English II	3
GBUS 100	Intro to Business & Economics	3
MATH 112	Applied Calculus II	3
NAVG 112	Terrestrial Navigation	4
NVSC 103	Basic Naval Science*	1
PE 100	Swimming and Water Safety	1
	Total Credits:	15

*NVSC 101 in Fall semester for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	
--------	-------------------	---	--

		2	U
	Fall Semester	cr.	
GBEC 121	Macroeconomics	3	
GBTT 251	Transportation Systems	3	
HUMN 201	Humanities I	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	17.5	

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 79.5

Sophomore Year

	Spring Semester	cr.
GBAC 311	Financial Accounting	3
GBEC 122	Microeconomics	3
GBTT 252	Business of Shipping	3
HUMN 202	Humanities II	3
MATH 251	Statistics	3
NAVG 212	Celestial Navigation	4
	Total Credits:	19

Bachelor of Science Marine Business and Commerce - Deck License Humanities Minor Upper Division

Each semester below includes a group of Humanities Minor Electives. These courses are to be chosen in consultation with student's advisor.

_			Ju	nior Year
	Fall Semester	cr.		
ENGL 452	Technical Writing	3		HI
HIST 101	American Civilization I	3		M
MT 321	Intro to Cargo Ops & Stabilityera	3		NA
NAUT 314	Rules of the Road	2		NA
NAUT 315	Collision Avoidance	3		NA
PE 20x	Lifetime Sports	1		
	Humanities Minor Elective	3		
	Humanities Minor Elective	3		
	Total Credits:	21		

	Spring Semester	cr.	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
	Humanities Minor Elective	3	
	Humanities Minor Elective	3	
	Total Credits:	20	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

Senior Year

			50
	Fall Semester	cr.	
GBLW 431	Business Law	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities Minor Elective	3	
	Humanities Minor Elective	3	
	Humanities Minor Elective	3	
	Total Credits:	16	

Total Credits for Degree: 160.5

GBEC 427 **Financial Management** 3 MT 426 Maritime Communications 3 NAUT 416 Bridge Watchstanding 3 Humanities Minor Elective 3 Humanities Minor Elective 3 Humanities Minor Elective 3 **Total Credits:** 18

Spring Semester

cr.

Bachelor of Science Marine Environmental Science Lower Division

This page shows the first two years for all students majoring in Marine Environmental Science

Freshman	Year
----------	------

		-	10
	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calc I (or MATH 101)	4	
NVSC 103	Basic Naval Science*	1	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	
	*NUSC 101 for NDOTC/MMD condide	atac	

*NVSC 101 for NROTC/MMR candidates

Deck License Only:

MT 510 Summer Sea Term I 6	ĺ	MT 510	Summer Sea Term I	6	
----------------------------	---	--------	-------------------	---	--

	Spring Semester	cr.	
CHEM 123	General Chemistry II	3	
CHEM 124	General Chemistry II Laboratory	1	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
MATH 112	Applied Calc II (or MATH 102)	3	
PE 100	Swimming and Water Safety	1	
	Total Credits:	14	
Deck Licens	se Only:		
NAVC 112	Tamastrial Navisation	4	

NAVG 112	Terrestrial Navigation	4	
	Total Credits:	18	

cr.

3

3

1

3

Sophomore Year

BIO 210

	Fall Semester	cr.	
BIO 201	General Biology	4	
HUMN 201	Humanities I	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	16.5	

Deck License Only:

MT 250	Ship Construction & Stability	2	
	Total Credits:	18.5	

Deck License Only:

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits

without license courses:	64
with license courses:	86

SUNY Maritime College Degree Curricula Class of 2011 Last Revsied: 01/21/2008

PE 20x	Lifetime Sports	1
PHYS 214	General Physics II	4
PHYS 216	General Physics II Lab	0.5
	Total Credits:	15.5
Deck Licen	se Only:	15.5
		4

Spring Semester

CHEM 222 Organic Chemistry Laboratory

Ecology

CHEM 221 Organic Chemistry

HUMN 202 Humanities II

Bachelor of Science Marine Environmental Science - Deck License Marine Biology Minor Lower Division

		Fr	res
	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calc I (or MATH 101)	4	
NVSC 103	Basic Naval Science*	1	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	
	*NVSC 101 for NPOTC/MMP condide	tas	

	Spring Semester	cr
CHEM 123	General Chemistry II	3
CHEM 124	General Chemistry II Laboratory	1
CS 100	Intro to Business Computing	2
CS 101	Computer Laboratory	1
ENGL 102	Freshman English II	3
MATH 112	Applied Calc II (or MATH 102)	3
NAVG 112	Terrestrial Navigation	4
PE 100	Swimming and Water Safety	1
	Total Credits:	18

*NVSC 101 for NROTC/MMR candidates

MT 510	Summer Sea Term I	6
--------	-------------------	---

		5	opn
	Fall Semester	cr.	
BIO 201	General Biology	4	
HUMN 201	Humanities I	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	18.5	

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits 86

	Spring Semester	cr.		
BIO 210	Ecology	3		
CHEM 221	Organic Chemistry	3		
CHEM 222	Organic Chemistry Laboratory	1		
HUMN 202	Humanities II	3		
NAVG 212	Celestial Navigation	4		
PE 20x	Lifetime Sports	1		
PHYS 214	General Physics II	4		
PHYS 216	General Physics II Lab	0.5		
	Total Credits:	19.5		

Bachelor of Science Marine Environmental Science - Deck License Marine Biology Minor Upper Division

			Ju	nior Year
	Fall Semester	cr.		
BIO 315	Marine Biology	3		BIO
CHEM 220	Environmental Chemistry	3		ES
HIST 101	American Civilization I	3		HIS
MT 321	Intro to Cargo Ops & Stabilityera	3		МТ
NAUT 314	Rules of the Road	2		NA
NAUT 315	Collision Avoidance	3		NA
OCEA 303	General Oceanography	4		NA
	Total Credits:	21		
	•			
			1	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	
	•	•	

	Spring Semester	cr.	
BIO 320	Invertebrate Zoology	4	
ES 304	Remote Sensing	2	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
	Total Credits:	20	

Se	enior	Year

			50
	Fall Semester	cr.	
BIO 415	Icthyology	3	
ES 420	Environmental Pollution	3	
GEOL 301	General Geology	3	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities/SS Elective	3	
	Total Credits:	19	

Total Credits for Degree: 171

MES Electives

Recommended for Marine Biology minor		cr.
BIO 420	Ecotoxicology	4
ES 410	Marine Microbiology	3
ES 430	Environmntl. Impact Assessment	3

eal			
	Spring Semester	cr.	
BIO 416	Fisheries Science	3	
GBLW 435	Environmental Law & Policy	3	
NAUT 416	Bridge Watchstanding	3	
OCEA 415	Marine Biogeochemistry	3	
OCEA 416	Marine Biogeochemistry Lab	1	
	Humanities/SS Elective	3	
	MES Elective	3	
	Total Credits:	19	

Bachelor of Science Marine Environmental Science - Intern Marine Biology Minor Lower Division

	Freshman Yes			Year	
	Fall Semester	cr.			
CHEM 121	General Chemistry I	3			CHI
CHEM 122	General Chemistry I Laboratory	1			CHI
ENGL 101	Freshman English I	3]	CS 1

1

4

1

1

2

2

18

r ear			
	Spring Semester	cr.	
CHEM 123	General Chemistry II	3	
CHEM 124	General Chemistry II Laboratory	1	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
MATH 112	Applied Calc II (or MATH 102)	3	
PE 100	Swimming and Water Safety	1	
	Total Credits:	14	

*NVSC 101 for NROTC/MMR candidates

Leadership/Maritime Experience

Lifetime Fitness & Conditioning

MATH 111 Applied Calc I (or MATH 101)

Basic Naval Science*

Professional Studies I

Basic Safety Training

Total Credits:

LEAD 101

NVSC 103

PE 101

PS 111

PS 112

Sophomore	Year
-----------	------

			T
	Fall Semester	cr.	
BIO 201	General Biology	4	
HUMN 201	Humanities I	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	16.5	

	Spring Semester	cr.	
BIO 210	Ecology	3	
CHEM 221	Organic Chemistry	3	
CHEM 222	Organic Chemistry Laboratory	1	
HUMN 202	Humanities II	3	
PE 20x	Lifetime Sports	1	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	15.5	

Total Lower Division Credits 64

Bachelor of Science Marine Environmental Science - Intern Marine Biology Minor Upper Division

			Junior Year
	Fall Semester	cr.	
BIO 315	Marine Biology	3	BI
CHEM 220	Environmental Chemistry	3	ES
HIST 101	American Civilization I	3	HI
OCEA 303	General Oceanography	4	
PE 411	Medical Care Provider	1	
	Total Credits:	14	

ES 505	Environmental Sci. Internship I	3	
ES 515	Environmental Sci. Internship II	3	

		1	1
	Spring Semester	cr.	
BIO 320	Invertebrate Zoology	4	
ES 304	Remote Sensing	2	
HIST 102	American Civilization II	3	
	Free Elective	3	
	MES elective	3	
	Science/Mathematics Elective	3	
	Total Credits:	18	

Senior Year

		36
Fall Semester	cr.	
Icthyology	3	
Environmental Pollution	3	
General Geology	3	
Free Elective	3	
Humanities/SS Elective	3	
Total Credits:	15	
	Icthyology Environmental Pollution General Geology Free Elective	Icthyology3Environmental Pollution3General Geology3Free Elective3Humanities/SS Elective3

Total Credits for Degree: 133

MES Electives

Recommen	nded for Marine Biology minor	cr.
BIO 420	Ecotoxicology	4
ES 410	Marine Microbiology	3
		-

ES 430	Environmntl. Impact Assessment	3
--------	--------------------------------	---

	Spring Semester	cr.	
BIO 416	Fisheries Science	3	
GBLW 435	Environmental Law & Policy	3	
OCEA 415	Marine Biogeochemistry	3	
OCEA 416	Marine Biogeochemistry Lab	1	
	Humanities/SS Elective	3	
	MES Elective	3	
	Total Credits:	16	

Bachelor of Science Marine Environmental Science - Deck License Meteorology and Oceanography Minor Lower Division

			Fres
	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calc I (or MATH 101)	4	
NVSC 103	Basic Naval Science*	1	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	
	*NVSC 101 for NPOTC/MMP condide	atos	

	Spring Semester	cr.
CHEM 123	General Chemistry II	3
CHEM 124	General Chemistry II Laboratory	1
CS 100	Intro to Business Computing	2
CS 101	Computer Laboratory	1
ENGL 102	Freshman English II	3
MATH 112	Applied Calc II (or MATH 102)	3
NAVG 112	Terrestrial Navigation	4
PE 100	Swimming and Water Safety	1
	Total Credits:	18

*NVSC 101 for NROTC/MMR candidates

MT 510	Summer Sea Term I	6
--------	-------------------	---

Sophomore Year

			opn
	Fall Semester	cr.	
BIO 201	General Biology	4	
HUMN 201	Humanities I	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	18.5	

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits 86

	Spring Semester	cr.	
BIO 210	Ecology	3	
CHEM 221	Organic Chemistry	3	
CHEM 222	Organic Chemistry Laboratory	1	
HUMN 202	Humanities II	3	
NAVG 212	Celestial Navigation	4	
PE 20x	Lifetime Sports	1	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	19.5	

Bachelor of Science Marine Environmental Science - Deck License Meteorology and Oceanography Minor Upper Division

	Fall Semester	cr.	
BIO 315	Marine Biology	3	
CHEM 220	Environmental Chemistry	3	
HIST 101	American Civilization I	3	
MT 321	Intro to Cargo Ops & Stabilityera	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
OCEA 303	General Oceanography	4	
	Total Credits:	21	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

ai			
	Spring Semester	cr.	
ES 304	Remote Sensing	2	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
OCEA 308	Dynamic Oceanography	3	
	Total Credits:	19	

Sei	nior	Ye	ar

	Fall Semester	cr.	
ES 420	Environmental Pollution	3	
GEOL 301	General Geology	3	
METE 350	Synoptic Meteorology	4	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities/SS Elective	3	
	Total Credits:	20	

Total Credits for Degree: 171

-

MES Electives

Recommen	ded for Mete. & Ocea. minor	cr.
METE 402	Tropical Cyclones	3
METE 410	Marine Climatology	2
METE 422	Weather Forecasting	3
OCEA 402	Estuaries & Coastal Processes	3
OCEA 414	Marine Geology	3
OCEA 425	Marine Environmental Issues	3

cr.	
3	
3	
3	
3	
1	
3	
3	
19	
	3 1 3 3

Bachelor of Science Marine Environmental Science - Intern Meteorology and Oceanography Minor Lower Division

Freshman	Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calc I (or MATH 101)	4	
NVSC 103	Basic Naval Science*	1	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

rear			
	Spring Semester	cr.	
CHEM 123	General Chemistry II	3	
CHEM 124	General Chemistry II Laboratory	1	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 102	Freshman English II	3	
MATH 112	Applied Calc II (or MATH 102)	3	
PE 100	Swimming and Water Safety	1	
	Total Credits:	14	

*NVSC 101 for NROTC/MMR candidates

Sophomore	Year
-----------	------

		- I .	
	Fall Semester	cr.	
BIO 201	General Biology	4	
HUMN 201	Humanities I	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	16.5	

	cr.		
BIO 210	Ecology	3	
CHEM 221	Organic Chemistry	3	
CHEM 222	Organic Chemistry Laboratory	1	
HUMN 202	Humanities II	3	
PE 20x	Lifetime Sports	1	
PHYS 214	General Physics II	4	
PHYS 216	General Physics II Lab	0.5	
	Total Credits:	15.5	

Total Lower Division Credits64

Bachelor of Science Marine Environmental Science - Intern Meteorology and Oceanography Minor Upper Division

Junior	Year
--------	------

			Ju
	Fall Semester	cr.	
BIO 315	Marine Biology	3	
CHEM 220	Environmental Chemistry	3	
HIST 101	American Civilization I	3	
OCEA 303	General Oceanography	4	
PE 411	Medical Care Provider	1	
	Total Credits:	14	

ES 505	Environmental Sci. Internship I	3	
ES 515	Environmental Sci. Internship II	3	

	Spring Semester	cr.	
ES 304	Remote Sensing	2	
HIST 102	American Civilization II	3	
OCEA 308	EA 308 Dynamic Oceanography		
	Free Elective	3	
	MES Elective	3	
	Science/Mathematics Elective	3	
	Total Credits:	17	

Senior Year

			SC
	Fall Semester	cr.	
ES 420	Environmental Pollution	3	
GEOL 301	General Geology	3	
METE 350	Synoptic Meteorology	4	
	Free Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree: 1

133

MES Electives

Recommended for Mete. & Ocea. minor		
METE 402	Tropical Cyclones	3
METE 410	Marine Climatology	2
METE 422	Weather Forecasting	3
OCEA 402	Estuaries & Coastal Processes	3
OCEA 414	Marine Geology	3
OCEA 425	Marine Environmental Issues	3

Spring Semester		cr.	
GBLW 435	Environmental Law & Policy	3	
METE 408	Dynamic Meteorology	3	
OCEA 415	Marine Biogeochemistry	3	
OCEA 416	Marine Biogeochemistry Lab	1	
	Humanities/SS Elective	3	
	MES Elective	3	
	Total Credits:	16	

Bachelor of Science Marine Operations - Deck License Lower Division

Freshman Year

	Fall Semester	cr.	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 102	Intro to Engineering	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 90	Intro to College Math	4	
NVSC 103	Basic Naval Science*		
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training		
	Total Credits:	16	

*NVSC 101 for NROTC/MMR candidates

MT 510 Summer Sea Term I 6

	cr.		
CHEM 100	Spring Semester EM 100 Introductory Chemistry		
ENGL 102	Freshman English II	3	
ENGR 100	Engineering Graphics	1	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
NAVG 112	Terrestrial Navigation	4	
PE 100	Swimming and Water Safety	1	
	Total Credits:	18	

S	oph	omore	Year

Fall Semester	cr.				Spring Ser
Humanities I	3			ENGR 540	Intro to Shi
Applied Calculus I	4			HUMN 202	Humanities
Meteorology for Mariners	3			MATH 112	Applied Ca
Ship Construction & Stability	2			NAVG 212	Celestial N
Lifetime Sports	1			PHYS 214	General Ph
General Physics I	3			PHYS 216	General Ph
General Physics I Lab	0.5				
Total Credits:	16.5				Total Cred
	Humanities I Applied Calculus I Meteorology for Mariners Ship Construction & Stability Lifetime Sports General Physics I General Physics I Lab	Humanities I3Applied Calculus I4Meteorology for Mariners3Ship Construction & Stability2Lifetime Sports1General Physics I3General Physics I Lab0.5	Humanities I3Applied Calculus I4Meteorology for Mariners3Ship Construction & Stability2Lifetime Sports1General Physics I3General Physics I Lab0.5	Humanities I3Applied Calculus I4Meteorology for Mariners3Ship Construction & Stability2Lifetime Sports1General Physics I3General Physics I Lab0.5	Humanities I3Applied Calculus I4Meteorology for Mariners3Ship Construction & Stability2Lifetime Sports1General Physics I3General Physics I Lab0.5

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 80

emester cr. nip Systems 3 3 es II Calculus II 3 Navigation 4 hysics II 4 hysics II Lab 0.5 edits: 17.5

Bachelor of Science Marine Operations - Deck License Upper Division

Junior Year

	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 541	Ship Systems I	2	
HIST 101	American Civilization I	3	
MT 321	Intro to Cargo Ops & Stabilityera	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
	Total Credits:	19	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

	Spring Semester	cr.	
ENGR 243	Transport Processes	3	
ENGR 542	Ship Systems II	2	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
	Total Credits:	19	

Senior Year Fall Semester cr. Manufacturing Processes I ENGR 503 1 Designated Duty Engineer I ENGR 551 4 3 MT 426 Maritime Communications 2 NAUT 408 License Seminar NAUT 410 Tugs and Towing I 3 NAVG 402 Advanced Marine Navigation 2 Humanities/SS Elective 3 **Total Credits:** 18

Total Credits for Degree:

159

al			
	Spring Semester	cr.	
ENGR 446	Mar. Eng. Theory & Application	3	
ENGR 504	Manufacturing Processes II	1	
ENGR 552	Designated Duty Engineer II	4	
NAUT 411	Tugs and Towing II	3	
NAUT 416	Bridge Watchstanding	3	
	Humanities/SS Elective	3	
	Total Credits:	17	

Bachelor of Science Marine Transportation - Deck License Lower Division

This page shows the first two years for all students majoring in Marine Transportation

Freshman Year

		-	10
	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

l cal			
	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business & Economics	3	
MATH 112	Applied Calculus II	3	
NAVG 112	Terrestrial Navigation	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
	Total Credits:	15	

*NVSC 101 in Fall semester for NROTC/MMR candidates

		S	oph
	Fall Semester	cr.	
GBEC 121	Macroeconomics	3	
GBTT 251	Transportation Systems	3	
HUMN 201	Humanities I	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	17.5	

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 79.5

Sophomore Year

	Spring Semester	cr.
GBAC 311	Financial Accounting	3
GBEC 122	Microeconomics	3
GBTT 252	Business of Shipping	
	or	3
MT 212	Ship Management*	
HUMN 202	Humanities II	3
MATH 251	Statistics	3
NAVG 212	Celestial Navigation	4
	Total Credits:	19

* for students pursuing minor in Ship Management

Bachelor of Science Marine Transportation - Deck License Lower Division

Freshman Year

	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business & Economics	3	
MATH 112	Applied Calculus II	3	
NAVG 112	Terrestrial Navigation	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
	Total Credits:	15	

*NVSC 101 in Fall semester for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	
--------	-------------------	---	--

		S	oph
	Fall Semester	cr.	
GBEC 121	Macroeconomics	3	
GBTT 251	Transportation Systems	3	
HUMN 201	Humanities I	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	17.5	

	Spring Semester	cr.
GBAC 311	Financial Accounting	3
GBEC 122	Microeconomics	3
GBTT 252	Business of Shipping	3
HUMN 202	Humanities II	3
MATH 251	Statistics	3
NAVG 212	Celestial Navigation	4
	Total Credits:	19

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 79.5

Bachelor of Science Marine Transportation - Deck License Upper Division

Junior Year

	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBMG 341	Organizational Management	3	
GBUS 300	International Business	3	
HIST 101	American Civilization I	3	
MT 321	Intro to Cargo Ops & Stabilityera	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
PE 20x	Lifetime Sports	1	
	Total Credits:	21	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

	Spring Semester	cr.	
GBEC 427	Financial Management	3	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAVG 312	Electronic Navigation Systems	4	
	MT or GBAT Elective	3	
	Total Credits:	20	

			Senior Y
	Fall Semester	cr.	
GBLW 431	Business Law	3	
GBMG 345	Fundamentals of Marketing	3	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities/SS Elective	3	
	Total Credits:	16	

	Spring Semester	cr.
GBEC 429	Seminar: Transport. Economics	
	or	3
GBMG 440	Seminar: Strategy and Policy	
GBMG 446	Operations Research	3
NAUT 416	Bridge Watchstanding	3
	Humanities/SS Elective	3
	MT Elective	3
	MT Elective	3
	Total Credits:	18

Total Credits for Degree:

160.5

Bachelor of Science Marine Transportation - Deck License Ship Management Minor **Lower Division**

Freshman Year

	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

tal			
	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business & Economics	3	
MATH 112	Applied Calculus II	3	
NAVG 112	Terrestrial Navigation	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
	Total Credits:	15	

*NVSC 101 in Fall semester for NROTC/MMR candidates

MT 510 Summer Sea Term I 6

		S	oph	omore <u>Year</u>
	Fall Semester	cr.		
GBEC 121	Macroeconomics	3		GBA
GBTT 251	Transportation Systems	3		GBE
HUMN 201	Humanities I	3		MT
METE 201	Meteorology for Mariners	3		HUN
MT 250	Ship Construction & Stability	2		MAT
PHYS 211	General Physics I	3		NAV
PHYS 213	General Physics I Lab	0.5		
	Total Credits:	17.5		

	Spring Semester	cr.
GBAC 311	Financial Accounting	3
GBEC 122	Microeconomics	3
MT 212	Ship Management	3
HUMN 202	Humanities II	3
MATH 251	Statistics	3
NAVG 212	Celestial Navigation	4
	Total Credits:	19

MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits: 79.5

Bachelor of Science Marine Transportation - Deck License Ship Management Minor Upper Division

Junior	Year
--------	------

			σι
	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
GBMG 341	Organizational Management	3	
HIST 101	American Civilization I	3	
MT 321	Intro to Cargo Ops & Stabilityera	3	
MT 426	Maritime Communications	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
PE 20x	Lifetime Sports	1	
	Total Credits:	21	

MT 530	Summer Sea Term III	5	
PE 411	Medical Care Provider	1	

ai			
	Spring Semester	cr.	
GBEC 427	Financial Management	3	
HIST 102	American Civilization II	3	
MT 322	Marine Cargo Operations	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAUT 416	Bridge Watchstanding	3	
NAVG 312	Electronic Navigation Systems	4	
	Total Credits:	20	

			Sei
	Fall Semester	cr.	
GBLW 431	Business Law	3	
GBMG 443	Cross-Cultural Management	3	
GBUS 300	International Business	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree:160.5

Senior Year

ai			
	Spring Semester	cr.	
GBEC 429	Seminar: Transport. Economics		
	or	3	
GBMG 440	Seminar: Strategy and Policy		
GBMG 446	Operations Research	3	
MT 404	Environmental Management	3	
MT 408	International Safety Managemen	t 3	
	Humanities/SS Elective	3	
	MT Elective	3	
	Total Credits:	18	

Bachelor of Science Maritime Studies - Intern Lower Division

Freshman Year

	Fall Semester	cr.	
CHEM 121	General Chemistry I	3	
CHEM 122	General Chemistry I Laboratory	1	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
LEAD 101	Leadership/Maritime Experience	1	
MATH 111	Applied Calculus I	4	
PS 111	Professional Studies I	2	
	Total Credits:	17	

Spring Semester	cr.	
Freshman English II	3	
Intro to Business & Economics	3	
American Civilization I	3	
Applied Calculus II	3	
Meteorology for Mariners	3	
Basic Naval Science*	1	
Swimming and Water Safety	1	
Total Credits:	17	
	Freshman English II Intro to Business & Economics American Civilization I Applied Calculus II Meteorology for Mariners Basic Naval Science* Swimming and Water Safety Total Credits:	Freshman English II3Intro to Business & Economics3American Civilization I3Applied Calculus II3Meteorology for Mariners3Basic Naval Science*1Swimming and Water Safety1

*NVSC 101 in Fall semester for NROTC/MMR candidates

		S	oph	omore Y	Yea
	Fall Semester	cr.			
GBEC 121	Macroeconomics	3		-	EN
GBTT 251	Transportation Systems	3		1	GB
HIST 102	American Civilization II	3		1	GB
HUMN 201	Humanities I	3			HU
PE 101	Lifetime Fitness & Conditioning	1		-	MA
PHYS 211	General Physics I	3			PE
PHYS 213	General Physics I Lab	0.5			
	Total Credits:	16.5			

	Spring Semester	cr.	
ENGL 452	Technical Writing	3	
GBEC 122	Microeconomics	3	
GBTT 252	Business of Shipping	3	
HUMN 202	Humanities II	3	
MATH 251	Statistics	3	
PE 20x	Lifetime Sports	1	
	Total Credits:	16	

Total Lower Division Credits: 66.5

Bachelor of Science Maritime Studies - Intern Upper Division

Junior Year

	Fall Semester	cr.	
BIO 201	General Biology		
	or	4	
OCEA 303	General Oceanography		
GBLW 4xx	Law Elective	3	
	Foreign Language/Culture I	3	
	Track Option Course	3	
	Track Option Course	3	
	Total Credits:	16	

	Spring Semester	cr.	
BIO 210	Ecology		
	or		
HIST 465	History of Science	3	
	or		
OCEA xxx	Oceanography Elective		
GBLW 4xx	Law Elective	3	
	Foreign Language/Culture II	3	
	Track Option Course	3	
	Track Option Course	3	
	Total Credits:	15	

Senior Year

	Fall Semester	cr.
ENGL 456	Advanced Techical Writing	
	or	3
HUMN 465	Humanities Research Methods	
HUMN 601	Humanities Internship I	3
	Humanities/SS Elective	3
	Track Option Course	3
	Track Option Course	3
	Total Credits:	15

	Spring Semester	cr.	
GBEC 424	BEC 424 Intl. Economics and Finance		
	or		
GBEC 428	Economic Geography	3	
	or		
GBMG 341	Organizational Management		
HUMN 490	Seminar in Maritime Studies	3	
HUMN 602	Humanities Internship II		
	or	3	
	Free Elective		
	Humanities/SS Elective	3	
	Track Option Course	3	
	Total Credits:	15	

Total Credits for Degree: 127.5

Bachelor of Science Maritime Studies Track Option Courses

All students take a total of 7 courses, with 3 or 4 courses from each track. Courses with indication of FLC are Foreign Language/Culture Electives.

TRACK I: THE ARTS

		cr.				cr.	
ENGL 407	Poetry	3		ENGL 468	Biography/Autobiography	3	
ENGL 408	Modern Poetry	3		ENGL 470	Major British Authors	3	
ENGL 409	Drama	3		ENGL 471	Major American Authors	3	
ENGL 410	Greek Drama	3		ENGL 474	Film I	3	
ENGL 411	The Novel I	3		ENGL 475	Film II	3	
ENGL 412	The Novel II	3		ENGL 477	Film and Fiction Studies	3	
ENGL 413	Novels of Latin America	3	FLC	HUMN 300	Humanities III	3	
ENGL 415	Literature of Colonialism	3		HUMN 400	History of Art	3	
ENGL 418	Contemporary Literature	3		HUMN 401	Studio Drawing and Painting	3	
ENGL 420	Comedy	3		HUMN 402	Images of Men, Women, Machines	3	
ENGL 423	Shakespeare	3		HUMN 403	A History of Western Music	3	
ENGL 426	Science and Literature	3		HUMN 404	Art and Technology	3	
ENGL 453	Creative Writing	3					

TRACK II: THE HUMANITIES

		cr.				cr.	
ENGL 416	Literature of the Sea	3		HIST 422	Turning Points in U.S. History	3	
ENGL 450	Speech	3		HIST 425	History of Technology	3	
HIST 401	Topics in European Civil. I	3		HUMN 407	Literature of Leadership	3	
HIST 402	Topics in European Civil. II	3		HUMN 412	Models for Decision Making	3	
HIST 415	Topics in American Social Hist.	3		HUMN 458	Moral Choices in Literature	3	
HIST 416	U.S. Maritime Hist. to Civil War	3		HUMN 460	The Bible as/in Literature	3	
HIST 417	U.S. Maritime Hist. after 1865	3		HUMN 461	Religion	3	
HIST 418	Hist. of American Foreign Policy	3		SPAN 101	Spanish I	3	FLC
HIST 420	Sea Power and Maritime Affairs	3		SPAN 102	Spanish II	3	FLC
HIST 421	Vietnam and America	3	FLC	SS 400	Fund. of International Relations	3	

Associate in Applied Science Marine Technology: Small Vessel Operations

Freshman Year

6

	Fall Semester	cr.	
CS 100	Intro to Business Computing	2	
CS 101	Computer Laboratory	1	
ENGL 101	Freshman English I	3	
ENGR 503	Manufacturing Processes I	1	
LEAD 101	Leadership/Maritime Experience	1	
MATH 90	Intro to College Mathematics	4	
PE 101	Lifetime Fitness & Conditioning	1	
PS 111	Professional Studies I	2	
PS 112	Basic Safety Training	2	
	Total Credits:	17	

Summer Sea Term I

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business & Economics	3	
MATH 251	Statistics	3	
METE 201	Meteorology for Mariners	3	
NAVG 112	Terrestrial Navigation	4	
PE 100	Swimming and Water Safety	1	
	Total Credits:	17	

		S	ophomore Year	
	Fall Semester	cr.		
MT 250	Ship Construction & Stability	2	HIST	
NAUT 307	Nautical Operations: Legal 2			
NAUT 308	Nautical Operations: Safety	2	NAU	
NAUT 314	Rules of the Road	2	NAU	
NAUT 315	Collision Avoidance	3	NAV	
NAUT 410	Tugs and Towing I	3	PE 41	
	Total Credits:	14		

Spring Semester cr. HIST 101 American Civilization I 3 MT 322 Marine Cargo Operations 3 NAUT 411 Tugs and Towing II 3 3 NAUT 416 Bridge Watchstanding NAVG 312 Electronic Navigation Systems 4 PE 411 Medical Care Provider 1 **Total Credits:** 17

Ocean Endorsement Option:

MT 510

MT 426	Maritime Communications	3	
	Total Credits:	17	

MT 523	Cadet Observer in	
	Limited Tonnage Operations	6

Total Credits for Degreewithout Ocean Endorsement:77with Ocean Endorsement:84

Ocean Endorsement Option:

NAVG 212	Celestial Navigation	4	
	Total Credits:	21	

ion Competency Requirement

d)

o be required to remediate in subset area(s) prior to becoming atus must have a corrective program developed in conjunction i the Engineering Department Chair. Students who at any time ning and; should expect to be required to repeat one or more et averages below 1.7 will be required to repeat one or more the Engineering Department chair students may be allowed to be allowed to register for upper division courses in their major. emic probation or restricted registration status.