

State University of New York

MARITIME COLLEGE

DEGREE CURRICULA

For Students Entering
Maritime College
During
2008-2009 Academic Year

As of 1/15/2009

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 International Transportation and Trade (ITT) - Intern (common first two years)

ITT

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 Study Area Concentration - 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 Operations - Engine License

Bachelor of Science in Marine Transportation (MT) - Deck License (common first two years)

MT

MT - Ship Management Minor

Bachelor of Science in Maritime Studies - Intern Option

Associate in Applied Science in Marine Technology: Small Vessel Operations

SUNY Maritime College Degree Curricula Class of 2012 Last Revised: 1/15/2009

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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

Freshman Year

	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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC	101	for	NROTC/MMR	candidates
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	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	

ENGR 510	Summer Sea Term I	6	

Sophomore Year

	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	

Intern Option:

or

HIST 101	American Civilization I	3	

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 Cadet Observer still owes PE 411)

Total Lower Division Credits: 85

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	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	

or

Intern Option:

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Intern Option:

ENGR 525	Industrial Internship I	6		
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Bachelor of Engineering Deck License Lower Division

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

Freshman Year

	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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	

	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	
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Sophomore Year

	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	

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	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

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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 290	Electrical Engineering I	3	
ENGR 344	Thermodynamics	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	

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.

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SUNY Maritime College Degree Curricula Class of 2012 Last Revised: 1/15/2009

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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

Junior Year

	Fall Semester	cr.	
ENGR 383	Network Analysis	3	
ENGR 387	Electronics I	4	
ENGR 394	Electromagnetic Fields	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	Total Credits:	16	

	Spring Semester	cr.	
ENGR 380	Electrical Engineering II	3	
ENGR 388	Electronics II	4	
ENGR 452	Controls	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
NAUT 308	Nautical Operations: Safety	2	
	Total Credits:	18	

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

Senior Year

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

	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	
	Humanities/SS Elective	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

Freshman Year

	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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

Sophomore Year

	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	

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	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	

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ENGR 525	Industrial Internship I	6	

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.

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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	
ENGR 387	Electronics I	4	
ENGR 394	Electromagnetic Fields	3	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

	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	

ENGR 535 Industrial Internship II 6

Senior Year

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

	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.

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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

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	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	

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 (Continued on next page)

Degree Curricula Class of 2012

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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

Junior Year

	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 343	Engineering Analysis	3	
ENGR 344	Thermodynamics		
	or	3	
ENGR 244	Dynamics		
ENGR 380	Electrical Engineering II	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	Total Credits:	18	

	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	
HIST 102	American Civilization II	3	
NAUT 308	Nautical Operations: Safety	2	
		·	
	Total Credits:	20	

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

Senior Year

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

	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	
	Humanities/SS Elective	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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

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	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	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	
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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.

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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

Junior Year

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

	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	

ENGR 535 Industrial Internship II 6

Senior Year

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

	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		
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	

	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	101 Lifetime Fitness & Conditioning		
PHYS 102	Engineering Physics I	4	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

Sophomore Year

	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	

	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	

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

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.

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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 Year

	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	

	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	Electr Nav & Voyage Planning	4	
	Total Credits:	18	

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

Senior Year

	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	

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	Spring Semester	cr.	
CS 490	Computer Engineering II	3	
ENGR 446	Mar. Eng. Theory & Application	3	
ENGR 452	Controls	3	
ENGR 489	Electrical Design II	4	
MT 322	Marine Cargo Operations	3	
PE 20x	Lifetime Sports	1	
	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: 178

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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

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	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	

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 (Continued on next page)

Degree Curricula Class of 2012

(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

Junior Year

	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	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	
HIST 101	American Civilization I	3	
NAUT 308	Nautical Operations: Safety	2	
	Total Credits:	20	

	Spring Semester	cr.	
ENGR 343	Engineering Analysis	3	
ENGR 348	Strength of Materials Lab	1	
ENGR 351	Heat Transfer	3	
ENGR 354	Marine Engineering Design I	3	
ENGR 390	Electrical Engineering III	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
	Total Credits:	19	

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

Senior Year

	Fall Semester	cr.	
ENGR 371	Applied Naval Architecture	3	
ENGR 440	Marine Engineering Design II	3	
ENGR 443	Engineering Economics	3	
ENGR 452	Controls	3	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective A	3	
	Humanities/SS Elective	3	
	Total Credits:	19	

	Spring Semester	cr.	
ENGR 349	Transport Processes Laboratory	1	
ENGR 450	Marine Engineering Design III	3	
ENGR 453	Modern Concepts	3	
ENGR 495	Marine Electrical Systems	3	
	Engr/Sci Elective B	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

Total Credits for Degree: 165

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 & PINY	Maditipen Gelle Study in Engr. I	3	ENGR 602	Independent Study in Engr. II	3

Degree Curricula Class of 2012

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	1	
MATH 101	Calculus I	4	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
PS 111	Professional Studies	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	

Sophomore Year

	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	

I cai			
	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	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			

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 (Continued on next page)

Degree Curricula Class of 2012

(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

Junior Year

	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	
HIST 101	American Civilization I	3	
	Total Credits:	18	

	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	
HIST 102	American Civilization II	3	
	Total Credits:	20	

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

Senior Year

	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 443	Engineering Economics	3	
ENGR 418	Mechanical Engineering Design	[4	
PE 20x	Lifetime Sports	1	
	Engr/Sci Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	17	

	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	
	Humanities/SS Elective	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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

<u>1 Cai</u>			
	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	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		
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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 junio

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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

Junior Year

	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	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	18	

	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	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	18	

ENGR 535 Industrial Internship II 6

Senior Year

	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 443	Engineering Economics	3	
ENGR 418	Mechanical Engineering Design	[4	
PE 20x	Lifetime Sports	1	
	Applied Engineering Elective	3	
	Engr/Sci Elective	3	
	Total Credits:	17	

	Spring Semester	cr.	
ENGR 348	Strength of Materials Lab		
ENGR 349	Transport Processes Laboratory	1	
ENGR 351	Heat Transfer	3	
ENGR 419	GR 419 Mechanical Engineering Design II		
	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.

SUNY Maritime College Degree Curricula Class of 2012 Last Revised: 1/15/2009

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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	19	

	Spring Semester	cr.	
CS 101	Computer Laboratory		
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	PHYS 102 Engineering Physics I		
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

MT 51) Su	mmer Sea Term I	6	
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Sophomore Year

	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	

	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	

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

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 junio

(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

Junior Year

	Fall Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 347	Strength of Materials	3	
ENGR 363	Ship Statics	3	
ENGR 365	Ship Form and Graphics	3	
HIST 101	American Civilization I	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
	Total Credits:	20	

	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	Electr Nav & Voyage Planning	4	
	Total Credits:	20	

MT 530	Summer Sea Term III	5	

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PE 411	Medical Care Provider	1

Senior Year

	Fall Semester	cr.	
ENGR 290	Electrical Engineering I		
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	

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	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	

	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 & Comparison or mathematics approved by the Science Department.

Degree Curricula Class of 2012

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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

	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	

	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	

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*

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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

Junior Year

	Fall Semester	cr.	
ENGR 344	Thermodynamics		
	or	3	
ENGR 244	Dynamics		
ENGR 347	Strength of Materials	3	
ENGR 363	Ship Statics	3	
ENGR 365	Ship Form and Graphics	3	
ENGR 380	Electrical Engineering II	3	
ENGR 543	Ship Systems III	3	
HIST 101	American Civilization I	3	
	Total Credits:	21	

	Spring Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 366	Ship Structure	3	
ENGR 368	Ship Design I	3	
ENGR 443	Engineering Economics	3	
ENGR 544	Ship Systems IV	3	
HIST 102	American Civilization II	3	
NAUT 308	Nautical Operations: Safety	2	
	Total Credits:	20	

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

Senior Year

	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	

	Spring Semester	cr.	
ENGR 354	Marine Engineering Design I	3	
ENGR 390	Electrical Engineering III	3	
ENGR 471	Ship Design III	4	
ENGR 473	Ship Dynamics	3	
	Humanities/SS Elective	3	
	Total Credits:	16	

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 2012 Last Revised: 1/15/2009

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	2	
PS 112	Basic Safety Training	2	
	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	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

Fall Semester	cr.	
Statics	3	
American Civilization I	3	
Humanities I	3	
Calculus III	4	
Engineering Physics II	4	
Engineering Physics Lab	1	
Total Credits:	18	
	Statics American Civilization I Humanities I Calculus III Engineering Physics II Engineering Physics Lab	Statics 3 American Civilization I 3 Humanities I 3 Calculus III 4 Engineering Physics II 4 Engineering Physics Lab 1

<u> </u>			
	Spring Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 244	Dynamics		
	or	3	
ENGR 344	Thermodynamics		
ENGR 290	Electrical Engineering I	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		
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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*

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(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

Junior Year

			o u
	Fall Semester	cr.	
ENGR 347	Strength of Materials	3	
ENGR 363	Ship Statics	3	
ENGR 365	Ship Form and Graphics	3	
ENGR 380	Electrical Engineering II	3	
ENGR 551	Designated Duty Engineer I	4	
	Humanities/SS Elective	3	
	Total Credits:	19	

	Spring Semester	cr.	
ENGR 341	Fluid Mechanics	3	
ENGR 344	Thermodynamics		
	or	3	
ENGR 244	Dynamics		
ENGR 366	Ship Structure	3	
ENGR 368	Ship Design I	3	
ENGR 443	Engineering Economics	3	
ENGR 552	Designated Duty Engineer II	4	
	Total Credits:	19	

ENGR 535 Industrial Internship II 6

Senior Year

	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	
ENGR 472	Sail Boat Principles & Design	3	
PE 20x	Lifetime Sports	1	
	Applied Engineering Elective	3	
	Total Credits:	18	

	Spring Semester	cr.	
ENGR 354	Marine Engineering Design I	3	
ENGR 471	Ship Design III	4	
ENGR 473	Ship Dynamics	3	
ENGR 476	Power Boat Principles & Design	3	
	Applied Engineering Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	19	

Total Credits for Degree: 166

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

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 90	Intro. to College Mathematics		
	or	4	
MATH 111	Applied Calculus I		
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies	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	

Sophomore Year

	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

Lower Division Competency Requirement

ITT students must satisfy a lower division competency requirement in order to register for upper division major courses. Competency is defined as having achieved a GPA of 2.5 in each of two groups of courses:

ENGL 101, MATH 90 or 111, MATH 251; GBUS 100, GBEC 121, GBEC 122, GBAC 311, BGAC 315.

^{*}NVSC 101 for NROTC/MMR candidates

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 90	Intro. to College Mathematics		
	or		
MATH 111	Applied Calculus I		
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies	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	

Sophomore Year

	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

Lower Division Competency Requirement

ITT students must satisfy a lower division competency requirement in order to register for upper division major courses. Competency is defined as having achieved a GPA of 2.5 in each of two groups of courses:

ENGL 101, MATH 90 or 111, MATH 251; GBUS 100, GBEC 121, GBEC 122, GBAC 311, BGAC 315.

^{*}NVSC 101 for NROTC/MMR candidates

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	

	Spring Semester		
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	

GBUS 525 | ITT Internship / Work Exp. 6

Senior Year

	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	
	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

	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 90	Intro. to College Mathematics		
	or	4	
MATH 111	Applied Calculus I		
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies	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	

Sophomore Year

	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

Lower Division Competency Requirement

ITT students must satisfy a lower division competency requirement in order to register for upper division major courses. Competency is defined as having achieved a GPA of 2.5 in each of two groups of courses:

ENGL 101, MATH 90 or 111, MATH 251; GBUS 100, GBEC 121, GBEC 122, GBAC 311, BGAC 315.

^{*}NVSC 101 for NROTC/MMR candidates

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

Junior Year

	Fall Semester	cr.	
GBLW 431	Business Law	3	
GBMG 341	Organizational Management	3	
GBMG 348	Business Ethics	3	
GBTT 251	Transportation Systems	3	
GBTT 451	Marine Insurance	3	
	Total Credits:	15	

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

GBUS 525 | ITT Internship / Work Exp. 6

Senior Year

	Fall Semester	cr.	
ENGL 456	Advanced Technical Writing	3	
GBEC 428	Economic Geography*	3	
GBLW 433	Admiralty Law*	3	
GBTT 453	Import/Export & Traffic Mgt.*	3	
GBTT 457	Port and Terminal Operations*	3	
	Total Credits:	15	

aı			
	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	
	Business Commun. Elective	3	
	Total Credits:	16	

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

3		Business Commun. Elective		
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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

SUNY Maritime College Degree Curricula Class of 2012

Bachelor of Science International Transportation and Trade - Intern Minor in Intermodal and Maritime Security 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 90	Intro. to College Mathematics		
	or	4	
MATH 111	Applied Calculus I		
NVSC 103	Basic Naval Science*	1	
PS 111	Professional Studies	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	

Sophomore Year

	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

Lower Division Competency Requirement

ITT students must satisfy a lower division competency requirement in order to register for upper division major courses. Competency is defined as having achieved a GPA of 2.5 in each of two groups of courses:

ENGL 101, MATH 90 or 111, MATH 251; GBUS 100, GBEC 121, GBEC 122, GBAC 311, BGAC 315.

^{*}NVSC 101 for NROTC/MMR candidates

Bachelor of Science International Transportation and Trade - Intern Minor in Intermodal and Maritime Security 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	
MT 435	Maritime Security	3	
	Total Credits:	15	

	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	

GBUS 525 | ITT Internship / Work Exp. | 6

Senior Year

	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	
GBTT 462	Sci & Tech Issues of Security	3	
	Total Credits:	15	

ar			
	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	
MT 430	Emergency Mgt. Systems	3	
PE 100	Swimming and Water Safety	1	
	Total Credits:	16	

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

GBTT 465	Contemporary Security Issues	3		ĺ
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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 intalics.

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.

	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 90, Intro to College Math or MATH 111, Applied Calculus	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

Lower Division Competency Requirement

ITT students must satisfy a lower division competency requirement in order to register for upper division major courses. Competency is defined as having achieved a GPA of 2.5 in each of two groups of courses:

ENGL 101, MATH 90 or 111, MATH 251; GBUS 100, GBEC 121, GBEC 122, GBAC 311, BGAC 315.

SUNY Maritime College Degree Curricula Class of 2012 Last Revised: 1/15/2009

Bachelor of Science Marine Business and Commerce - Deck License Humanities Study Area Concentration Lower Division

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

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	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
	T . 10 W	4.5
	Total Credits:	15

^{*}NVSC 101 in Fall semester for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	
1111 510	Dulling Dea Term I	U	

Sophomore Year

	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 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.

Junior Year

	Fall Semester	cr.	
ENGL 452	Technical Writing	3	
HIST 101	American Civilization I	3	
MT 321	Intro to Cargo Ops & Stability	3	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
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	Electr Nav & Voyage Planning	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

	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	

	Spring Semester	cr.	
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	

Total Credits for Degree: 160.5

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

	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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

*NVSC 101 for NROTC/MMR candidat

	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 License Only:

NAVG 112	Terrestrial Navigation	4	
	Total Credits:	18	

Deck License Only:

MT	510	Summer Sea Term I	6	
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Sophomore Year

	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:

	Total Credits:	18.5	
MT 250	Ship Construction & Stability	2	

Deck License Only:

	- 0		
MT 520	Summer Sea Term II		
	or	6	
MT 521	Cadet Observer		

Total Lower Division Credits

without license courses: 64 with license courses: 86

	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	

Deck License Only:

NAVG 212	Celestial Navigation	4	
	Total Credits:	19.5	

Bachelor of Science Marine Environmental Science - Deck License Marine Biology 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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

Spring Semester	cr.	
General Chemistry II	3	
General Chemistry II Laboratory	1	
Intro to Business Computing	2	
Computer Laboratory	1	
Freshman English II	3	
Applied Calc II (or MATH 102)	3	
Terrestrial Navigation	4	
Swimming and Water Safety	1	
Total Credits:	18	
	General Chemistry II General Chemistry II Laboratory Intro to Business Computing Computer Laboratory Freshman English II Applied Calc II (or MATH 102) Terrestrial Navigation Swimming and Water Safety	General Chemistry II 3 General Chemistry II Laboratory 1 Intro to Business Computing 2 Computer Laboratory 1 Freshman English II 3 Applied Calc II (or MATH 102) 3 Terrestrial Navigation 4 Swimming and Water Safety 1

*NVSC 101 for NROTC/MMR candidates

Sophomore Year

	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	

	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	

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

Total Lower Division Credits 86

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

Junior Year

	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	

	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	Electr Nav & Voyage Planning	4	
	Total Credits:	20	

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

Senior Year

	Fall Semester	cr.	
BIO 415	Ichthyology	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	

	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	

Total Credits for Degree: 171

MES Electives

	Marine Biology Minor	cr.
ES 410	Marine Microbiology	3
ES 430	Environmntl. Impact Assessment	3
	Alternatively, any course with the	prefix
	BIO. ES. METE or OCEA	3

Bachelor of Science Marine Environmental Science - Intern Marine Biology 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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

	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	

Sophomore Year

	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	

I cai			
	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	

^{*}NVSC 101 for NROTC/MMR candidates

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

Junior Year

	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	

	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	

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

Senior Year

	Fall Semester	cr.	
BIO 415	Ichthyology	3	
ES 420	Environmental Pollution	3	
GEOL 301	General Geology	3	
	Free Elective	3	
	Humanities/SS Elective	3	
	Total Credits:	15	

	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	

Total Credits for Degree: 133

MES Electives

ES 410 Marine Biology Minor cr.

ES 410 Marine Microbiology 3

ES 430 Environmntl. Impact Assessment 3

Alternatively, any course with the prefix

BIO, ES, METE or OCEA 3

Bachelor of Science Marine Environmental Science - Deck License 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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

	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

Sophomore Year

	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	

	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	

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

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

Junior Year

	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	

	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	Electr Nav & Voyage Planning	4	
OCEA 308	Dynamic Oceanography	3	
	Total Credits:	19	

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

Senior Year

	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	

	Spring Semester	cr.	
GBLW 435	Environmental Law & Policy	3	
METE 408	Dynamic Meteorology	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	

Total Credits for Degree: 171

MES Electives

	Mete. & Ocea. Minor	cr.
METE 402	Tropical Cyclones	3
METE 411	Marine Climatology	3
METE 422	Weather Forecasting	3
OCEA 402	Estuaries & Coastal Processes	3
OCEA 414	Marine Geology	3
	Alternatively, any course with the	ne prefix
	BIO, ES, METE or OCEA	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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	18	

	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	

Sophomore Year

	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	

I cai			
	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	

^{*}NVSC 101 for NROTC/MMR candidates

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

Junior Year

	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	

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

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

Senior Year

	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	

	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	

Total Credits for Degree: 133

MES Electives

	Mete. & Ocea. Minor	cr.
METE 402	Tropical Cyclones	3
METE 411	Marine Climatology	3
METE 422	Weather Forecasting	3
OCEA 402	Estuaries & Coastal Processes	3
OCEA 414	Marine Geology	3
	Alternatively, any course with t	he prefix
	BIO, ES, METE or OCEA	3

Bachelor of Science Marine Operations- 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	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

Spring Semester	cr.	
Freshman English II	3	
Intro to Business & Economics	3	
Applied Calculus II	3	
Terrestrial Navigation	4	
Basic Naval Science*	1	
Swimming and Water Safety	1	
Total Credits:	15	
	Freshman English II Intro to Business & Economics Applied Calculus II Terrestrial Navigation Basic Naval Science* Swimming and Water Safety	Freshman English II 3 Intro to Business & Economics 3 Applied Calculus II 3 Terrestrial Navigation 4 Basic Naval Science* 1 Swimming and Water Safety 1

^{*}NVSC 101 for NROTC/MMR candidates

MT 510	Summer Sea Term I	6	

Sophomore Year

	Fall Semester	cr.	
GBTT 251	Transportation Systems	3	
HIST 101	American Civilization I	3	
HUMN 201	Humanities I	3	
METE 201	Meteorology for Mariners	3	
MT 250	Ship Construction & Stability	2	
NAUT 307	Nautical Operations: Legal	2	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	19.5	

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGR 540	Intro to Ship Systems	3	
HIST 102	American Civilization II	3	
GBTT 252	Business of Shipping	3	
HUMN 202	Humanities II	3	
NAVG 212	Celestial Navigation	4	
PE 20x	Lifetime Sports	1	
	Total Credits:	20.0	

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

Bachelor of Science Marine Operations- Deck License Upper Division

Junior Year

	Fall Semester	cr.	
ENGR 541	Ship Systems I	3	
GBMG 341	Organizational Management	3	
MT 212	Ship Management	3	
MT 321	Intro to Cargo Ops & Stability	3	
NAUT 308	Nautical Operations: Safety	2	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
	Total Credits:	19	

	Spring Semester	cr.	
GBAC 311	Financial Accounting	3	
GBUS 300	International Business	3	
MATH 251	Statistics	3	
MT 322	Marine Cargo Operations	3	
NAUT 416	Bridge Watchstanding	3	
NAVG 312	Electr Nav & Voyage Planning	4	
	Total Credits:	19	

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

Senior Year

	Fall Semester	cr.	
GBTT 457	Port and Terminal Operations	3	
MT 408	International Safety Mgt	3	
MT 426	Maritime Communications	3	
NAUT 408	License Seminar	2	
NAVG 402	Advanced Marine Navigation	2	
	Humanities/SS elective	3	
	MT/GBAT Elective	3	
	Total Credits:	19	

	Spring Semester	cr.	
GBLW 435	Environmental Law and Policy	3	
MT 435	Maritime Security	3	
	Humanities/SS elective	3	
	MT/GBAT Elective	3	
	MT/GBAT Elective	3	
	Total Credits:	15	

Total Credits for Degree: 161

Bachelor of Science Marine Operations- Engine 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	
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:	17	

	Spring Semester	cr.	
CHEM 100	Introductory Chemistry	3	
ENGL 102	Freshman English II	3	
ENGR 540	Intro to Ship Systems	3	
ENGR 100	Engineering Graphics	1	
ENGR 102	Intro to Engineering	1	
GBUS 100	Intro to Business & Economics	3	
MATH 112	Applied Calculus II	3	
PE 100	Swimming and Water Safety	1	
	Total Credits:	18	

^{*}NVSC 101 for NROTC/MMR candidates

ENGR 510	Summer Sea Term I	6	
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Sophomore Year

ε · p.		1	
	Fall Semester	cr.	
CHEM 212	Materials Science	3	
ENGR 503	Manufacturing Process I	1	
ENGR 541	Ship Systems I	2	
GBTT 251	Transportation Systems	3	
HIST 101	American Civilization I	3	
HUMN 201	Humanities I	3	
PHYS 211	General Physics I	3	
PHYS 213	General Physics I Lab	0.5	
	Total Credits:	18.5	

	Spring Semester	cr.	
ENGR 504	Manufacturing Process II	1	
ENGR 542	Intro to Ship Systems II	3	
HIST 102	American Civilization II	3	
GBTT 252	The Business of Shipping	3	
HUMN 202	Humanities II	3	
PHYS 214	General Physics II	4	
PHYS 216	General Physics Lab	0.5	
	Total Credits:	17.5	

ENGR 520	Summer Sea Term II	5	
PE 411	Medical Care Provider	1	
or			

or			
ENGR 521	Cadet Observer	6	

(student taking Cadet Observer still owes PE 411)

Bachelor of Science Marine Operations- Engine License Upper Division

Junior Year

	Fall Semester	cr.	
ENGR 242	Statics	3	
ENGR 290	Electrical Engineering I	3	
ENGR 243	Transport Processes	3	
ENGR 543	Ship Systems III	3	
GBMG 341	Organizational Management	3	
MT 212	Ship Management	3	
	Total Credits:	18	

	Spring Semester	cr.	
ENGR 371	Applied Naval Architecture	3	
ENGR 380	Electrical Engineering II	3	
ENGR 544	Ship Systems IV	3	
GBAC 311	Financial Accounting	3	
MATH 251	Statistics	3	
NAUT 308	Nautical Operations: Safety	2	
PE 20x	Lifetime Sports	1	
	Total Credits:	18	

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

Senior Year

	Fall Semester	cr.	
GBTT 457	Port and Terminal Operations	3	
GBUS 300	International Business	3	
MT 408	International Safety Mgt	3	
	Humanities/SS elective	3	
	MT/GBAT Elective	3	
	MT/GBAT elective	3	
	Total Credits:	18	

	Spring Semester	cr.	
ENGR 446	Marine Engine Theory & Appl.	3	
GBLW 435	Environmental Law and Policy	3	
MT 435	Maritime Security	3	
	Humanities/SS elective	3	
	MT/GBAT Elective	3	
	Total Credits:	15	

Total Credits for Degree: 158

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

	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	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	

Sophomore Year

			'P'
	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		

	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	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	
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Sophomore Year

	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		

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	

	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	Electr Nav & Voyage Planning	4	
	MT or GBAT Elective	3	
	Total Credits:	20	

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

Senior Year

	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	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

Sophomore Year

	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	
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		

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

Junior Year

	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 & Stability	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	

	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	Electr Nav & Voyage Planning	4	
	Total Credits:	20	

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

Senior Year

	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	

	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 Management	: 3	
	Humanities/SS Elective	3	
	MT Elective	3	
	Total Credits:	18	

Total Credits for Degree: 160.5

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	2	
	Total Credits:	17	

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business & Economics	3	
HIST 101	American Civilization I	3	
MATH 112	Applied Calculus II	3	
METE 201	Meteorology for Mariners	3	
NVSC 103	Basic Naval Science*	1	
PE 100	Swimming and Water Safety	1	
	_		
	Total Credits:	17	

^{*}NVSC 101 in Fall semester for NROTC/MMR candidates

Sophomore Year

	Fall Semester	cr.	
GBEC 121	Macroeconomics	3	
GBTT 251	Transportation Systems	3	
HIST 102	American Civilization II	3	
HUMN 201	Humanities I	3	
PE 101	Lifetime Fitness & Conditioning	1	
PHYS 211	General Physics I	3	
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	

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 505	Humanities Internship I	3	
	Humanities/SS Elective	3	
	Track Option Course	3	
	Track Option Course	3	
	Total Credits:	15	

	Spring Semester	cr.	
GBEC 424	Intl. Economics and Finance		
	or		
GBEC 428	Economic Geography	3	
	or		
GBMG 341	Organizational Management		
HUMN 490	Seminar in Maritime Studies	3	
HUMN 515	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

Topics in American Social Hist.

U.S. Maritime Hist. after 1865

U.S. Maritime Hist. to Civil War

Hist. of American Foreign Policy

Sea Power and Maritime Affairs

Vietnam and America

or. 3
3
5
3
3
3
3
3
3
3
3
3
3
3
cr.
3
3
3
3

HUMN 458 Moral Choices in Literature

HUMN 460 The Bible as/in Literature

Spanish I

Spanish II

Fund. of International Relations

HUMN 461 Religion

SPAN 101

SPAN 102

SS 400

3

3

3

FLC

SUNY Maritime College Degree Curricula Class of 2012 Last Revised: 1/15/2009

HIST 415

HIST 416 HIST 417

HIST 418

HIST 420

HIST 421

3

3

3

3

3

FLC

FLC

Associate in Applied Science Marine Technology/Small Vessel Operations

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 90	Intro to College Math	4	
PE 100	Swimming	1	
PS 111	Professional Studies	2	
PS 112	Basic Safety Training	2	
	Total Credits:	16	

	Spring Semester	cr.	
ENGL 102	Freshman English II	3	
GBUS 100	Intro to Business and Economics	3	
HIST 101	American Civilization I	3	
MT 250	Ship Construction & Stability	2	
NAVG 112	Terrestrial Navigation	4	
PE 101	Lifetime Fitness & Conditioning	1	
	Total Credits:	16	

MT 510	Summer Sea Term I	6	
MTDO 524	Cadet Observer Lim Tonnage I	2	

Sophomore Year

	Fall Semester	cr.	
METE 201	Meteorology for Mariners	3	
MT 321	Intro to Cargo Ops & Stability	3	
NAUT 307	Nautical Operations: Legal	2	
NAUT 308	Nautical Operations: Safety	2	
NAUT 314	Rules of the Road	2	
NAUT 315	Collision Avoidance	3	
NAUT 410	Tugs and Towing I	3	
	Total Credits:	18	

	Spring Semester	cr.	
MT 322	Marine Cargo Operations	3	
NAUT 411	Tugs & Towing II	3	
NAUT 416	Bridge Watchstanding	3	
NAVG 312	Electr Nav & Voyage Planning	4	
PE 411	Medical Care Provider	1	
	Total Credits:	14	
Ocean Endo	orsement Option:		
MT 426	Maritime Communications	3	
NAVG 212	Celestial Navigation	4	
	Total Credits:	21	

MTDO 525 Cadet Observer Lim Tonnage II	4	
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Total Credits for Degree 76
Ocean Endorsement 83