B.E. Electrical Engineering - Deck License for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Edited 8/11/13

Fall 4th Class  Spring 4th Class  Fall 3rd Class  Spring 3rd Class  Fall 2nd Class  Spring 2nd Class  Fall 1st Class  Spring 1st Class  Fall 9th Semester

<table>
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<tbody>
<tr>
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<td>HIST 101</td>
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<td>PE 101</td>
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<td>PE 20x</td>
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<tr>
<td>HUMN / SocSci</td>
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</table>

Note: USCG Deck License Students must also take License courses as shown on the "USCG Deck License Courses for B.E. in Electrical Engineering" Flow sheet.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

C- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.

C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Deck License Courses for B.E. in Electrical Engineering for Students Starting in Fall, 2013

Fall
4th Class

PS 111
PS 112
MATH 101 (2)
PE 103

Spring
4th Class

NAUT 102
NAVG 112
MT 510

Summer
3rd Class

NAUT 102
NAVG 212 (4)
METE 20
MT 520
MT 521 (1)

Fall
3rd Class

MT 520
MT 530
NAVG 312
NAUT 314
NAUT 315

Spring
2nd Class

MT 510
MT 521 (1)

Summer
2nd Class

MT 530
NAVG 312
NAUT 314
NAUT 315

Fall
2nd Class

MT 521 (4)

Spring
1st Class

MT 322

Summer
1st Class

MT 321

Fall
1st Class

MT 322

Spring
9th Semester

MT 412

USCG exam

Notes

(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.

(2) Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

(3) Also listed on Marine Electrical and Electronic Deck Curriculum flow chart.

(4) Corequisite is MATH 90.

(5) Corequisite is MATH 90.

(4) Prerequisite for MT 322 is MT 250 or MT 321

(4) Prerequisite is MATH 90
Courses in **bold** are typically limited to the semester in which they appear.

**Fall 4th Class**
- ENGR 388
- ENGR 428

**Spring 4th Class**
- ENGR 387
- ENGR 481

**Fall 3rd Class**
- ENGR 395
- ENGR 488

**Spring 3rd Class**
- ENGR 384
- ENGR 489

**Fall 2nd Class**
- ENGR 383
- ENGR 495

**Spring 2nd Class**
- ENGR 394
- ENGR 483

**Fall 1st Class**
- ENGR 371
- ENGR 443

**Spring 1st Class**
- MATH 101
- MATH 102
- MATH 211
- MATH 212
- ENGR 200
- ENGR 345

**CHEM 121**
- CHEM 212

**CHEM 122**
- ENGL 101
- ENGL 103
- HUMN 201
- HIST 101
- HIST 102
- HUMN / SocSci
- HUMN / SocSci
- PE 101
- PE 20x

**Note:**
USCG Engine License Students must also take License courses as shown on the "USCG Engine License Courses for B.E. in Electrical Engineering" Flow sheet.

- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Engine License Courses for B.E. in Electrical Engineering for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/12/13

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<tr>
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<td>ENGR 100 (2)</td>
<td>ENGR 504</td>
<td>ENGR 503</td>
<td>ENGR 242 (2)</td>
<td>ENGR 371 (2)</td>
<td></td>
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</tr>
</tbody>
</table>

Notes

(1) ENGR 521 (Cadet Commercial Vessel Shipping) in lieu of ENGR 520.
(2) Also listed on Electrical Engineering Curriculum flow chart.

---

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
B.E. Electrical Engineering - Intern Option for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/11/13

**Fall**
- Freshman
- PS 111
- PS 112
- MATH 101
- CHEM 121
- CHEM 122
- ENGL 101
- LEAD 101
- PE 103

**Spring**
- Freshman
- PHYS 101
- PHYS 201
- MATH 102
- CHEM 211
- ENGR 100
- ENGR 290
- ENGR 200

**Summer**
- Sophomore
- PHYS 102
- PHYS 202
- MATH 212
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Fall**
- Sophomore
- PHYS 102
- PHYS 202
- MATH 212
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Spring**
- Sophomore
- PHYS 102
- PHYS 202
- MATH 212
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Summer**
- Junior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Fall**
- Junior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Spring**
- Junior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Summer**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Fall**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Spring**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Summer**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Fall**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Spring**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Summer**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Fall**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Spring**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

**Summer**
- Senior
- MATH 211
- CHEM 212
- ENGR 242
- ENGR 383
- ENGR 345

Note:
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

C-
- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.

(1) Engineering Students pursuing the Intern Option may substitute 6 credits - (Applied Engineering electives - typically in Jr., Sr. years) for ENGR 510. An Intern Option Student who is not in the Regiment is not permitted on the Training Ship and therefore must make this substitution.
Courses in **bold** are typically limited to the semester in which they appear.

Note: USCG Engine License Students must also take License courses as shown on the "USCG Engine License Courses for B.E. in Facilities Engineering" Flow sheet.

- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Engine License Courses for B.E. in Facilities Engineering for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Edited 8/12/13

Fall 4th Class
- PS 111
- ENGR 540
- ENGR 510
- ENGR 100 (2)
- PE 103

Spring 4th Class
- ENGR 541
- ENGR 542
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- ENGR 242 (2)

Summer 3rd Class

Fall 3rd Class
- ENGR 543
- ENGR 544
- ENGR 516
- ENGR 503
- ENGR 371 (2)

Spring 3rd Class

Summer 2nd Class
- NAUT 308
- PE 411

Fall 2nd Class

Spring 2nd Class

Summer 1st Class

Fall 1st Class

Spring 1st Class

Notes
(1) ENGR 521 (Cadet Commercial Vessel Shipping) in lieu of ENGR 520.
(2) Also listed on Facilities Engineering Curriculum flow chart.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
B.E. Facilities Engineering - Intern Option for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Edited 8/11/13

Fall Freshman
- PS 111
- PS 112
- PE 103

Spring Freshman
- ENGR 540
- ENGR 510

Sophomore
- PHYS 102
- PHYS 201
- ENGR 100
- CHEM 121
- CHEM 122
- ENGL 101
- LEAD 101

Junior
- PHYS 202
- ENGR 242
- MATH 102
- MATH 211
- ENGR 525

Senior
- MATH 212
- ENGR 450
- ENGR 443
- PE 101
- ENGR App.

Note:
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.

Engineering Students pursuing the Intern Option may substitute 6 credits (Applied Engineering electives - typically in Jr., Sr. years) for ENGR 510. An Intern Option Student who is not in the Regiment is not permitted on the Training Ship and therefore must make this substitution.
B.E. Marine Engineering - Engine License for 2016 Graduates
Courses in **bold** are typically limited to the semester in which they appear.

Fall 4th Class
- MATH 101
- PHYS 102
- CHEM 121
- ENGL 101
- LEAD 101
- PE 101

Spring 4th Class
- MATH 102
- PHYS 201
- CHEM 122
- ENGL 103
- HUMN 201

Fall 3rd Class
- MATH 211
- PHYS 202
- ENGR 100
- HIST 101
- HUMN / SocSci

Spring 3rd Class
- MATH 212
- ENGR 290
- ENGR 242
- HIST 102
- PE 20X

Fall 2nd Class
- ENGR 200
- ENGR 344
- ENGR 347
- ENGR /Sci-A
- HUMN / SocSci

Spring 2nd Class
- ENGR 351
- ENGR 345
- ENGR 348
- ENGR /Sci-B
- HUMN / SocSci

Fall 1st Class
- ENGR 443
- ENGR 453
- ENGR 440
- ENGR 450

Spring 1st Class
- ENGR 350
- ENGR 495

Notes:
1. ENGR 380 is the pre-requisite for ENGR 495.
2. Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
3. Students must also take Engine License courses as shown on the "USCG Engine License Courses for B.E. in Marine Engineering" Flow sheet.
4. C- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
5. C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Engine License Courses for B.E. in Marine Engineering for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/12/13

**Fall 4th Class**
- PS111
- ENGR540
- ENGR510 (2)
- ENGR242 (2)

**Spring 4th Class**
- PS112
- ENGR541
- ENGR542
- ENGR503

**Summer 3rd Class**
- ENGR504
- NAUT308
- PE411
- ENGR371 (2)

**Fall 3rd Class**
- ENGR520
- ENGR521 (1)
- ENGR516
- ENGR530

**Spring 3rd Class**
- ENGR543
- ENGR544
- PE103
- ENGR100 (2)

**Summer 2nd Class**
- ENGR100
- ENGR521
- ENGR520

**Fall 2nd Class**
- ENGR521
- ENGR520

**Spring 2nd Class**
- ENGR521
- ENGR520

**Summer 1st Class**
- ENGR521
- ENGR520

**Fall 1st Class**
- ENGR521
- ENGR520

**Spring 1st Class**
- ENGR521
- ENGR520

Notes:
1. ENGR521 (Cadet Commercial Vessel Shipping) in lieu of ENGR520.
2. Also listed on Marine Engineering Program Curriculum flow chart.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
Courses in **bold** are typically limited to the semester in which they appear.

Notes:
- USCG Engine License Students must also take License courses as shown on the "USCG Engine License Courses for B.E. in Mechanical Engineering" Flow sheet.
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Engine License Courses for B.E. in Mechanical Engineering for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/12/13

---

**Fall 4th Class**
- PS 111
- ENGR 540
- ENGR 541
- ENGR 542
- ENGR 543
- ENGR 544
- ENGR 510
- PE 103
- ENGR 100 (2)
- ENGR 503
- ENGR 242 (2)

**Spring 4th Class**
- PS 112
- ENGR 540

**Summer 3rd Class**
- ENGR 541

**Fall 3rd Class**
- ENGR 542
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- ENGR 503
- NAUT 308
- ENGR 242 (2)

**Spring 3rd Class**
- ENGR 543
- ENGR 544
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Summer 2nd Class**
- ENGR 516
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Fall 2nd Class**
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Spring 2nd Class**
- ENGR 516
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Summer 1st Class**
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Fall 1st Class**
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

**Spring 1st Class**
- ENGR 516
- ENGR 510
- ENGR 520
- ENGR 521 (1)
- ENGR 504
- NAUT 308
- PE 411
- ENGR 371 (2)

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**Notes**

(1) ENGR 521 (Cadet Commercial Vessel Shipping) in lieu of ENGR 520.

(2) Also listed on Mechanical Engineering Curriculum flow chart.

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Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
B.E. Mechanical Engineering - Intern Option for Students Starting in Fall, 2013
Courses in bold are typically limited to the semester in which they appear.

Edited 8/11/13

Notes:
--- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

C- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.

C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.

(1) Engineering Students pursuing the Intern Option may substitute 6 credits (Applied Engineering electives – typically in Jr., Sr. years) for ENGR 510. An Intern Option Student who is not in the Regiment is not permitted on the Training Ship and therefore must make this substitution.
B.E. Naval Architecture - Deck License for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Edited 8/11/13

Notes:

USCG Deck License Students must also take License courses as shown on the "USCG Deck License Courses for B.E. in Naval Architecture" flow sheet.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

C- Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.

C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Deck License Courses for B.E. in Naval Architecture for Students Starting in Fall, 2013

Edited 8/12/13

Fall 4th Class
- PS 111
- NAUT 102
- NAVS 112
- MATH 101 (2)
- PE 103

Spring 4th Class
- NAVG 112
- MT 510

Summer 3rd Class
- NAVG 215 (4)
- PE 103

Fall 3rd Class
- MATH 521 (1)
- NAVG 315

Spring 3rd Class
- NAVG 315

Summer 2nd Class
- NAUT 102
- NAVG 215 (4)

Fall 2nd Class
- MT 520 (3)
- MT 521 (1)

Spring 2nd Class
- MT 520 (3)

Summer 1st Class
- ENGR 363 (2)
- MT 321 (4)

Fall 1st Class
- MT 322

Spring 1st Class
- MT 412

Fall 9th Semester
- USCG exam

Notes:
1. MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
2. Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
3. Also listed on Naval Architecture Deck Curriculum flow chart.
4. Corequisite is MATH 90.
5. Prerequisite is MATH 90.
Courses in **bold** are typically limited to the semester in which they appear.

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**Notes:**

USCG Engine License Students must also take License courses as shown on the "USCG Engine License Courses for B.E. in Naval Architecture" Flow sheet.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

- **C-** Students must have a minimum grade of C- in MATH 101 as a pre-requisite for MATH 102.
- **C-** Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
USCG Engine License Courses for B.E. in Naval Architecture for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/12/13

Notes

(1) ENGR 521 (Cadet Commercial Vessel Shipping) in lieu of ENGR 520.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
Courses in **bold** are typically limited to the semester in which they appear.

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<th>Summer Sophomore</th>
<th>Fall Sophomore</th>
<th>Spring Sophomore</th>
<th>Summer Junior</th>
<th>Fall Junior</th>
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<th>Summer Senior</th>
<th>Fall Senior</th>
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<td>ENGR 347</td>
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<td>ENGR 472</td>
<td>ENGR 476</td>
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<td>ENGR 461</td>
<td>ENGR 462</td>
<td>ENGR 471</td>
<td>ENGR 472</td>
<td>ENGR 476</td>
<td>ENGR 473</td>
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<tr>
<td>ENGR 461</td>
<td>ENGR 462</td>
<td>ENGR 347</td>
<td>ENGR 461</td>
<td>ENGR 462</td>
<td>ENGR 471</td>
<td>ENGR 472</td>
<td>ENGR 476</td>
<td>ENGR 473</td>
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</table>

**Notes:**

- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- **C-** Students must have a minimum grade of **C-** in MATH 101 as a pre-requisite for MATH 102.
- **C-** Students must have a minimum grade of **C-** in PHYS 102 as a pre-requisite for PHYS 201.
- **(1)** Engineering Students pursuing the Intern Option may substitute 6 credits (Applied Engineering electives – typically in Jr., Sr. years) for ENGR 510. An Intern Option Student who is not in the Regiment is not permitted on the Training Ship and therefore must make this substitution.
Courses in **bold** are typically limited to the semester in which they appear.

Notes:  
(1) GBUS 526 ITT Study Abroad in lieu of GBUS 525
Courses in **bold** are typically limited to the semester in which they appear.

Notes:

1. Prerequisite is HUMN 201 or 202.

   * Students will meet with advisor to replace one of these courses by a Business Communications elective.
Courses in **bold** are typically limited to the semester in which they appear.

**Notes:**
- * Students will meet with advisor to replace one of these courses by GBTT 465.
Courses in **bold** are typically limited to the semester in which they appear.

### Notes
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- (1) Prerequisite for CHEM 100 is MATH 80
- (2) Corequisite is MATH 90
Marine Business & Commerce Humanities Minor Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/11/13

### Fall Freshman
- GBUS 100
- GBEC 121

### Spring Freshman
- GBEC 122
- CS 100
- GBTT 251

### Sophomore Fall
- GBTT 252
- CS 101
- MATH 251

### Sophomore Spring
- GBLW 431
- GBE 427
- GBAC 311

### Junior Fall
- MATH 111
- PHYS 211
- PHYS 213
- METE 201

### Junior Spring
- HUMN elective
- HUMN elective
- HUMN elective
- HUMN elective

### Senior Fall
- ENGL 452
- HUMN / SocSci
- HUMN 201
- HUMN 202

### Senior Spring
- HUMN 490*
- HIST 101
- HIST 102
- PE 20X

**Notes:**
- USCG Deck License Students must also take License courses as shown on the Marine Business & Commerce USCG Deck License Flow sheet.
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Prerequisite is MATH 90.

(1)
Marine Business & Commerce USCG Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Edited 8/12/13

Fall Freshman
- PS 112
- NAVG 112
- MATH 111 (2)
- PE 103

Spring Freshman
- MT 250
- NAUT 102

Summer Sophomore
- MT 435
- NAVG 212 (5)

Fall Sophomore
- NAVG 312
- PE 411
- NAUT 314
- NAUT 315

Spring Sophomore
- MT 510

Fall Junior
- MT 520
- MT 521 (1)
- MT 522

Summer Junior
- MT 530
- MT 412
- USCG exam

Fall Senior
- MT 420

Notes:
1. MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
2. Also listed on Marine Business & Commerce Humanities Minor Deck Course flow chart.
3. Corequisite is MATH 90.
4. Prerequisite for MT 322 is MT 250 or MT 321.
5. Prerequisite is MATH 90.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
Marine Operations Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Edited 8/11/13

<table>
<thead>
<tr>
<th>Fall Freshman</th>
<th>Spring Freshman</th>
<th>Fall Sophomore</th>
<th>Spring Sophomore</th>
<th>Fall Junior</th>
<th>Spring Junior</th>
<th>Fall Senior</th>
<th>Spring Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 435</td>
<td>GBUS 100</td>
<td>GBUS 300</td>
<td></td>
<td></td>
<td></td>
<td>GBLW 435</td>
<td></td>
</tr>
<tr>
<td>CS 100</td>
<td>GBTT 251</td>
<td>MT 212</td>
<td></td>
<td></td>
<td></td>
<td>MT 408</td>
<td></td>
</tr>
<tr>
<td>CS 101</td>
<td>MATH 251 (1)</td>
<td>GBTT 252</td>
<td></td>
<td></td>
<td></td>
<td>GBTT 457</td>
<td></td>
</tr>
<tr>
<td>MATH 111</td>
<td>PHYS 211</td>
<td>PHYS 213</td>
<td>MATH 111</td>
<td>(1)</td>
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<td>GBTT 457</td>
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<tr>
<td>ENGL 101</td>
<td>ENGL 102</td>
<td>ENGL 452</td>
<td>HUMN 201</td>
<td>HUMN 202</td>
<td>HUMN / SocSci</td>
<td>HUMN / SocSci</td>
<td></td>
</tr>
<tr>
<td>LEAD 101</td>
<td>HIST 101</td>
<td>HIST 102</td>
<td></td>
<td></td>
<td>GBEC or GBLW elective</td>
<td>MT/GBAT/PS elective</td>
<td>GBEC or GBLW elective</td>
</tr>
<tr>
<td>PE 101</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>PE 20X</td>
<td>Sci/Math elective</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
USCG Deck License students must also take License courses as shown on the "Marine Operations USCG Deck License Curriculum" Flow Chart.
Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(1) Prerequisite is MATH 90.
(2) Prerequisite is Second Class standing.
(3) Prerequisite is MATH 80.
Marine Operations USCG Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

Edited 8/12/13

Fall Freshman | Spring Freshman | Summer Sophomore | Fall Sophomore | Spring Sophomore | Summer Junior | Fall Junior | Spring Junior | Summer Senior | Fall Senior | Spring Senior
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
MT 250 (3) | NAUT 102 | ENGR 540 | NAVG 112 | NAVG 212 (5) | MT 520 | MT 321 (5) | MT 322 (4) | MT 520 | MT 520 | MT 520

Notes

(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
(2) Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(3) Also listed on Marine Operations Deck License Curriculum flow chart.
(4) Corequisite is MATH 90.
(5) Prerequisite for MT 322 is MT 250 or MT 321
(5) Prerequisite is MATH 90.
Marine Operations Engine License Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in bold are typically limited to the semester in which they appear.

Fall
Freshman

GBUS 100
CS 100

Spring
Freshman

GBTT 251
ENGR 100

Fall
Sophomore

GBTT 252
ENGR 101

Spring
Sophomore

MT 212
MATH 111

Fall
Junior

MT 212
MATH 112

Spring
Junior

MT 212
MATH 111

Fall
Senior

GBUS 300
GBTT 457

Spring
Senior

GBLT 435
MT 435

Notes:

USCG Deck License students must also take License courses as shown on the "Marine Operations Engine USCG License Flow Chart" Flow sheet.

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

(1) Prerequisite is MATH 90.
(2) Prerequisite is Second Class standing.
Marine Operations Engine USCG License Flow Chart for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

**Notes**

1. ENGR 521 (Cadet Commercial Vessel Shipping) in lieu of ENGR 520.
2. Also listed on Marine Operations Engineering Curriculum flow chart.

---

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
Maritime Studies - Intern Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>Freshman</td>
<td>Sophomore</td>
<td>Sophomore</td>
<td>Junior</td>
<td>Junior</td>
<td>Senior</td>
<td>Senior</td>
</tr>
</tbody>
</table>
Courses in **bold** are typically limited to the semester in which they appear.

**Notes:**

- USCG Deck License Students must also take License courses as shown on the "MES Marine Biology USCG Deck License Curriculum Flow Chart" sheet.
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
USCG Deck License Course Flow
MES Marine Biology USCG Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Edited 8/12/13

Fall
Freshman

PS 111

NAVG 112

MT 510

MT 250

MT 520

Notes
(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(2) Also listed on MES Marine Biology Deck Curriculum flow chart.
(3) Corequisite is MATH 90.
(4) Prerequisite is MATH 90.

Spring
Freshman

MT 250
(3)

NAV 212
(4)

MT 521
(1)

NAUT 308

NAUT 314

NAUT 315

MT 426

Spring
Sophomore

Fall
Sophomore

NAUT 102

MT 321
(4)

MT 322

NAUT 416

Fall
Junior

Spring
Junior

Summer
Junior

Summer
Senior

Fall
Senior

Summer
Senior

NAUT 307

MT 321

MT 312

MT 426
Courses in **bold** are typically limited to the semester in which they appear.

**Notes:**
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
Courses in **bold** are typically limited to the semester in which they appear.

**Notes:**
- USCG Deck License Students must also take License courses as shown on the "MES M&O Deck License Curriculum Flow Chart".
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
USCG Deck License Course Flow
MES M&O Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Edited 8/12/13

Notes
(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(2) Also listed on MES M&O Deck Course flow chart.
(3) Corequisite is MATH 90.
(4) Prerequisite is MATH 90.
MES M&O Intern Curriculum Flow Chart for Students Starting in Fall, 2013

Courses in **bold** are typically limited to the semester in which they appear.

**Fall Freshman**
- CHEM 121
- CHEM 122

**Spring Freshman**
- CS 101

**Fall Sophomore**
- MATH 111 or MATH 101
- PHYS 211

**Spring Sophomore**
- MATH 112 or MATH 102
- PHYS 214

**Fall Junior**
- PHYS 213
- PHYS 216

**Spring Junior**
- METE 201
- HIST 101

**Summer**
- ENGL 101 or LEAD 101
- HUMN 201
- MES elective

**Fall Senior**
- ENGL 102
- HUMN 202
- MES elective

**Spring Senior**
- HIST 102
- Elective

Notes:
- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- Prerequisite is MATH 90.
- Prerequisite is Junior standing.
- Odd years only
- Even years only

8/11/13
Courses in **bold** are typically limited to the semester in which they appear.

Marine Transportation Deck License Curriculum Flow Chart for Students Starting in Fall, 2013

Students must also take License courses as shown on the "MT USCG Deck License Flow Chart".

Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
MT USCG Deck License Flow Chart for Students Starting in Fall, 2013

Edited 8/12/13

Notes:
(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
(2) Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(3) Also listed on MT Deck Course flow chart.
(4) Co-requisite is MATH 90.
(5) Prerequisite for MT 322 is MT 250 or MT 321
(6) Prerequisite is MATH 90.
Courses in **bold** are typically limited to the semester in which they appear.

Students must also take License courses as shown on the "MT USCG Deck License Flow Chart". Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.

**Notes:**
MT USCG Deck License Ship Management Minor Flow Chart for Students Starting in Fall, 2013

Notes:
(1) MT 521 (Cadet Commercial Vessel Shipping) in lieu of MT 520.
(2) Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
(3) Also listed on MT Deck Course flow chart.
(4) Corequisite is MATH 90.
(5) Prerequisite for MT 322 is MT 250 or MT 321.
(6) Prerequisite is MATH 90.
<table>
<thead>
<tr>
<th>Fall Freshman</th>
<th>Spring Freshman</th>
<th>Summer Sophomore</th>
<th>Summer Sophomore</th>
<th>Fall Sophomore</th>
<th>Spring Sophomore</th>
<th>Summer Sophomore</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 100</td>
<td>CS 101</td>
<td>GBUS 100</td>
<td></td>
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<td>METE 201</td>
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<td></td>
<td>MT 250</td>
<td></td>
<td>MT 320</td>
<td>MT 322</td>
<td>MTDO 525</td>
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<td>MT 426</td>
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<tr>
<td>LEAD 101</td>
<td>HIST 101</td>
<td>PE 101</td>
<td>NAUT 308</td>
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<td>PS 411</td>
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</tbody>
</table>

**Notes**

- Indicates co-requisite where the course, at the end without an arrow point, is a co-requisite with the course which the arrow points to.
- (1) Ocean Endorsement Option
- (2) MT 520 Summer Sea Term II may be substituted for MTDO 524. Note that MT 520 has prerequisites of MT 510, METE 201, NAVG 212.
- (3) Prerequisite for MT 322 is MT 250 or MT 321
- (4) Corequisite is MATH 90.
- (5) Prerequisite is MATH 90.