2012-2013

Degree Curricula

Flow Charts
B.E. Electrical Engineering - Deck License for 2016 Graduates

Edited 8/5/12

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

ENGR 481  
ENGR 388  
ENGR 482

ENGR 348  
ENGR 389  
ENGR 481

ENGR 395  
ENGR 384  
ENGR 484

ENGR 394  
ENGR 383  
ENGR 483

PHYS 102  
PHYS 201  
ENGR 200

PHYS 202

MATH 100  
ENGR 242

MATH 102  
MATH 211

MATH 212

ENGR 209

CHEM 121  
CHEM 212

CHEM 122

ENGL 101  
ENGL 103

HUMN 201

HIST 101

LEAD 101

PE 101

PE 20x

HUMN / SocSci

C- PHYS 102

C- PHYS 201

C- PHYS 202

C- MATH 100

C- MATH 102

C- MATH 211

C- MATH 212

C- ENGR 200

C- CHEM 121

C- CHEM 212

C- ENGL 101

C- ENGL 103

C- HUMN 201

C- HIST 101

C- LEAD 101

C- PE 101

C- PE 20x

C- HUMN / SocSci

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 2016 Graduates

Edited 11/04/12

Notes

(1) MT 521 (Cadet Observer) 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) Prerequisite for MT 322 is MT 250 or MT 321
B.E. Electrical Engineering - Engine License for 2016 Graduates

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 2016 Graduates

Edited 8/5/12

Notes
(1) ENGR 521 (Cadet Observer) 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.
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.
- C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
B.E. Facilities Engineering - Engine License for 2016 Graduates

Edited 10/03/12

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

PHYS 201  ENGR 244  ENGR 345  ENGR 347  ENGR 425  ENGR 426  ENGR 423  ENGR 349

PHYS 202  ENGR 290  ENGR 380  ENGR 354  ENGR 350  ENGR 443  ENGR 444

MATH 211  MATH 212  MATH 102  MATH 101

CHEM 212  CHEM 122  CHEM 121


ENGL 103  ENGL 101

LEAD 101  PE 101  PE 20x

Note: USCGE 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.

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 Facilities Engineering for 2016 Graduates

Edited 8/5/12

Notes
(1) ENGR 521 (Cadet Observer) 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 2016 Graduates

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.
- C- Students must have a minimum grade of C- in PHYS 102 as a pre-requisite for PHYS 201.
B.E. Marine Engineering - Engine License for 2016 Graduates

Notes:
(1) ENGR 380 is the pre-requisite for ENGR 495.
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 also take Engine License courses as shown on the "USCG Engine License Courses for B.E. in Marine Engineering" Flow sheet.
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 Marine Engineering for 2016 Graduates

Edited 8/5/12

Notes
(1) ENGR521 (Cadet Observer) 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.
B.E. Mechanical Engineering - Engine License for 2016 Graduates

Fall 4th Class | Spring 4th Class | Fall 3rd Class | Spring 3rd Class | Fall 2nd Class | Spring 2nd Class | Fall 1st Class | Spring 1st Class
---|---|---|---|---|---|---|---
ENGR 100 | ENGR 242 | ENGR 348 | ENGR 371
| ENGR 244 | ENGR 347 | ENGR 312 | ENGR 418 | ENGR 419
| ENGR 200 | ENGR 344 | ENGR 354 | ENGR 454
| ENGR 345 | ENGR 354 | ENGR 443
| ENGR 244 | ENGR 454
| ENGR 349 | ENGR 351
| ENGR /Sci.
| CHEM 121 | CHEM 212
| CHEM 122 | CHEM 212
| ENGL 101 | ENGL 103 | HUMN 201 | HUMN 202
| LEAD 101 | PE 101
| HIST 101 | HIST 102
| HIST 101 | HIST 102
| HIST 101 | HIST 102
| HIST 101 | HIST 102
| HIST 101 | HIST 102

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 2016 Graduates

Fall 4th Class
PS 111
PS 112

Spring 4th Class
ENGR 540
ENGR 510
ENGR 100 (2)

Summer 3rd Class
ENGR 541
ENGR 542

Fall 3rd Class
ENGR 543
ENGR 544

Spring 3rd Class

Summer 2nd Class
ENGR 520
ENGR 521 (1)
ENGR 504
NAUT 308
ENGR 503

Fall 2nd Class
ENGR 242 (2)

Spring 2nd Class

Summer 1st Class
ENGR 516
ENGR 530

Fall 1st Class
ENGR 371 (2)

Spring 1st Class
USCG exam

Notes
(1) ENGR 521 (Cadet Observer) in lieu of ENGR 520.
(2) Also listed on Mechanical 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. Mechanical Engineering - Intern Option for 2016 Graduates

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.
- 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.
B.E. Naval Architecture - Deck License for 2016 Graduates

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 2016 Graduates

Notes:
(1) MT 521 (Cadet Observer) 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.
(3) Corequisite is MATH 90.
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 2016 Graduates

Edited 8/5/12

Notes

(1) ENGR 521 (Cadet Observer) 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.
B.E. Naval Architecture - Intern Option for 2016 Graduates

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.
- 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.
ITT Intern Curriculum Flow Chart for Class of 2016

Notes: (1) GBUS 526 ITT Study Abroad in lieu of GBUS 525
ITT Intern Business Communications Minor Curriculum Flow Chart for Class of 2016

Fall Freshman
- GBUS 100
- CS 100

Free elective
- ENGL 101
- LEAD 101

Notes:
(1) Prerequisite is HUMN 201 or 202.
* Students will meet with advisor to replace one of these courses by a Business Communications elective.
IT&T Intern Intermodal & Maritime Security Minor Curriculum Flow Chart for Class of 2016

Fall
Freshman

Freshman

Sophomore

Sophomore

Junior

Junior

Senior

Senior

GBUS 100

GBUS 100

CS 100

CS 100

GBEC 121

GBEC 121

MATH 90

or

MATH 111

MATH 251

MATH 251

ENGL 101

ENGL 101

ENGL 102

HIST 101

HIST 102

LEAD 101

PE 100

PE 101

PE 20X

Notes:

* Students will meet with advisor to replace one of these courses by GBTT 465.
Marine Technology: Assistant Engineer Limited License Curriculum Flow Chart for Class of 2014

Edited 8/5/12

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
Marine Business & Commerce Humanities Minor Deck License Curriculum Flow Chart for Class of 2016

Edited 8/4/12

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.

NAUT 315 removed as pre-requisite for NAUT 314
Marine Business & Commerce USCG Deck License Curriculum Flow Chart for Class of 2016

Notes
1. MT 521 (Cadet Observer) 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 Business & Commerce Humanities Minor Deck Course flow chart.
4. Corequisite is MATH 90.
5. Prerequisite for MT 322 is MT 250 or MT 321

Edited 11/04/12
Marine Operations Engine License Curriculum Flow Chart for Class of 2016

**Fall Freshman**
- GBUS 100
- CS 100
- MATH 111
- CHEM 100
- ENGL 101
- PE 101

**Spring Freshman**
- GBUS 100
- CS 100
- MATH 111
- CHEM 100
- ENGL 101
- PE 101

**Fall Sophomore**
- GBUS 200
- GBTT 251
- GBTT 252
- PHYS 211
- PHYS 213
- MATH 100
- GBUS 102
- ENGL 102
- ME 101
- PE 20X

**Spring Sophomore**
- GBUS 200
- GBTT 251
- GBTT 252
- PHYS 211
- PHYS 213
- MATH 100
- GBUS 102
- ENGL 102
- ME 101
- PE 20X

**Fall Junior**
- GBUS 300
- MT 212
- MATH 251
- GBTT 426
- PHYS 214
- MATH 251
- ENGR 242
- ENGR 371

**Spring Junior**
- GBUS 300
- MT 212
- MATH 251
- GBTT 426
- PHYS 214
- MATH 251
- ENGR 242
- ENGR 371

**Fall Senior**
- GBUS 435
- MT 436
- MATH 408
- ENGR 446

**Spring Senior**
- GBUS 435
- MT 436
- MATH 408
- ENGR 446

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**Notes:**
- USCQ Deck License students must also take License courses as shown on the "Marine Operations Engine USCQ 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.
- Prerequisite is MATH 90.
- Prerequisite is Second Class standing.
Marine Operations Engine USCG License Flow Chart for Class of 2016

Edited 8/4/12

Fall Freshman
PS 111
PE 103
ENGR 100
(2)

Spring Freshman
ENGR 540

Sophomore
ENGR 541
ENGR 510

Fall Sophomore
ENGR 542

Spring Sophomore
ENGR 520

Summer Sophomore
ENGR 521
(1)

Fall Junior
ENGR 543

Spring Junior
ENGR 544

Summer Junior
NAUT 308

Fall Senior
ENGR 516

Spring Senior
ENGR 530

Summer Senior
USCG exam

Notes
(1) ENGR 521 (Cadet Observer) 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.
Marine Operations Deck License Curriculum Flow Chart for Class of 2016

Fall Freshman
- GBUS 100
- CS 100
- MATH 111
- ENGL 101
- LEAD 101
- PE 101

Spring Freshman
- GBMG 341
- GBTT 251
- PHYS 211
- ENGL 102
- HIST 101
- PE 20X

Fall Sophomore
- GBUS 300
- MT 212
- CHEM 100
- HUMN 201
- HUMN 202

Spring Sophomore
- GBLW 435
- MBAC 311
- GBT 457

Fall Junior
- MT 408
- MT 435

Spring Junior
- MT/GBAT/PS elective
- MT/GBAT/PS elective

Fall Senior
- MT/GBAT/PS elective

Spring Senior
- MT/GBAT/PS elective

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.
Marine Operations USCG Deck License Curriculum Flow Chart for Class of 2016

Edited 11/04/12

Fall Freshman
PS 111
PS 112
MATH 111 (2)

Freshman
NAVT 100
NAVT 112

Sophomore
MT 510
MT 521 (1)
NAUT 300
NAUT 314
NAUT 315
MT 426
MT 520
MT 530
MT 510

Junior
MT 320
NAUT 309
NAUT 314
NAUT 315

MT 321
MT 322

Senior
MT 530
NAUT 402
NAUT 408
USCG exam
NAV 312
PE 411

Spring Senior
MT 520
MT 510
MT 521 (2)
MT 510
MT 521
NAVT 102
ENGR 540
NAVT 112
MT 250
NAUT 416
NAUT 416

Notes
(1) MT 521 (Cadet Observer) 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.
Maritime Studies - Intern Curriculum Flow Chart for Class of 2016

**Fall Freshman**
- GBUS 100
- CHEM 121
- CS 100

**Spring Freshman**
- GBEC 121
- GBTT 251
- CS 101

**Fall Sophomore**
- GBEC 122
- GBTT 252
- MATH 251
- PHYS 211
- PHYS 213
- METE 201
- ENGL 101
- LEAD 101
- HIST 101

**Spring Sophomore**
- BIO 201
- GBTT 253
- MATH 111
- ENGL 102
- HUMN 201
- HIST 102
- PE 100

**Fall Junior**
- BIO 210
- CHEM 122
- MATH 112
- ENGL 101
- HUMN 201
- HIST 102
- PE 101

**Spring Junior**
- HIST 465
- OCEA xxx
- GBLW 4xx
- HUMN 505
- ENGL 452
- For. Lang/Culture
- HUMN 201
- HIST 101

**Fall Senior**
- GBEC 424
- or
- GBMG 341
- or
- or
- or
- Free elective
- HUMN 515

**Spring Senior**
- HUMN 505
- or
- or
- or
- or
- or
- or
- or

**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 HUMN 201 or 202.
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 Class of 2016

Edited 11/4/12

Notes:
(1) MT 521 (Cadet Observer) 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 MES Marine Biology Deck Curriculum flow chart.

Corequisite is MATH 90.
MES Marine Biology Intern Curriculum Flow Chart for Class of 2016

Fall Freshman
- CHEM 121
  - CHEM 123
  - CHEM 122

Freshman
- OCEA 101
  - CHEM 220

Sophomore
- CHEM 221
  - CHEM 222

Sophomore
- BIO 201
  - BIO 210

Junior
- BIO 315
  - BIO 320
  - BIO 415

Senior
- ES 420
  - GEOL 301
  - OCEA 402

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.
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 Class of 2016

Notes
(1) MT 521 (Cadet Observer) 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 MES M&O Deck Course flow chart.
(3) Corequisite is MATH 90.
MES M&O Intern Curriculum Flow Chart for Class of 2016

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.

Edited 8/5/12
Marine Transportation Deck License Curriculum Flow Chart for Class of 2016

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 Class of 2016

Fall
MT 250

Freshman
PS 111

Spring
NAUT 102

Sophomore
MT 435

Sophomore
NAUT 112

MT 322

Sophomore
MT 321

Spring
MT 404

Junior
NAUT 416

Junior
MT 404

Junior
NAVG 112

Senior
NAVG 212

Senior
NAVG 402

Senior
MT 500

Senior
NAUT 408

Senior
USCG exam

Notes
(1) MT 521 (Cadet Observer) 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) Prerequisite for MT 322 is MT 250 or MT 321

(2) Corequisite is MATH 90.
Marine Transportation - Deck License - Ship Management Minor Curriculum Flow Chart for Class of 2016

Fall Freshman
- GBUS 100

Spring Freshman
- GBEC 121
- GBAC 311

Fall Sophomore
- GBEC 122
- GBLW 431

Spring Sophomore
- GBAC 311
- GBMG 443

Fall Junior
- GBEC 424
- GBLW 437

Spring Junior
- GBUS 300
- GBMG 440

Fall Senior
- GBEC 429

Spring Senior
- GBUS 400
- GBMG 450

Notes:
- 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 Ship Management Minor Flow Chart for Class of 2016

Edited 11/4/12

Notes

1. MT 521 (Cadet Observer) 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