Course Change Request

Date Submitted: 10/25/18 4:27 pm

Viewing: **MARA 301 : Ocean Transportation I**

Last edit: 10/30/18 4:01 pm

Changes proposed by: knoxj

<table>
<thead>
<tr>
<th>Contact(s)</th>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course

**The proposed changes are part of a routine curriculum review.**

Course prefix       MARA  
Course number       301

Department          Maritime Administration
College/School      Galveston Campus
Academic Level      Undergraduate

Undergraduate course level justification (Select One)

**Prerequisites**

All prerequisites will be enforced through COMPASS.

Academic Level (alternate)  Graduate

Effective term       2019-2020 Galveston

Complete Course Title       Ocean Transportation I

Abbreviated Course Title       OCEAN TRANSPORTATION I

Catalog course description

Examination of theory and practice in the management of transportation logistics, labor, rate-making, role of government, international conventions and treaties. Exposure to current trends and developments in shipping. **MARA students - MARA 205, ECON 202 or ECON 203.**

Prerequisites and Restrictions

**MARA majors - MART students - MARA 205; MGMT 211, ACCT 230, and MARA 250, MART 103, ECON 202 or concurrent enrollment; admission to upper division in Maritime Administration; MART majors - MART 103; ECON 202 or ECON 203.**

Concurrent Enrollment       No
Should catalog prerequisites / Yes
Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
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<td>Or</td>
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<td>And</td>
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<tr>
<td>Or</td>
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Crosslistings: No  Crosslisted With: No
Stacked: No  Stacked with: No

Semester: 3  Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 3  Lab: 0  Other: 0  Total: 3
Repeatable for credit? No  Three-peat? No
CIP/Fund Code: 4903090116
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

**Required (select program)**

<table>
<thead>
<tr>
<th>Program(s)</th>
</tr>
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<tbody>
<tr>
<td>(BS-MARA) Maritime Administration - BS</td>
</tr>
<tr>
<td>(BS-MART) Marine Transportation - BS</td>
</tr>
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</table>

**Elective (select program)**
Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for ICD or CD consideration? No

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation No

Additional information

Reviewer Comments

Terra Bissett (t.bissett) (10/26/18 1:28 pm): Minor edits made to prerequisites to comply with catalog style guide.

Terra Bissett (t.bissett) (12/10/18 10:02 am): UCC approved December 2018.

Reported to state? No
Course Change Request

Date Submitted: 10/29/18 11:34 am

Viewing: **MARA 363 : The Management Process**

Last edit: 10/30/18 4:01 pm

Changes proposed by: knoxj

<table>
<thead>
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<th>Faculty Senate Number</th>
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</table>

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Rationale for Course Edit

The proposed changes are part of a routine curriculum review.

<table>
<thead>
<tr>
<th>Course prefix</th>
<th>MARA</th>
<th>Course number</th>
<th>363</th>
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<tbody>
<tr>
<td>Department</td>
<td>Maritime Administration</td>
<td></td>
<td></td>
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<tr>
<td>College/School</td>
<td>Galveston Campus</td>
<td></td>
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<tr>
<td>Academic Level</td>
<td>Undergraduate</td>
<td></td>
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</table>

Undergraduate course level justification (Select One)

<table>
<thead>
<tr>
<th>Academic Level (alternate)</th>
<th>Graduate</th>
</tr>
</thead>
</table>

Effective term 2019-2020 Galveston

Complete Course Title The Management Process

Abbreviated Course Title MANAGEMENT PROCESS

Catalog course description

Management as an academic discipline; goal setting; planning, controlling and decision-making; models for thinking about organizations; organization design; organization change; models for understanding individual behavior; job performance and job satisfaction; interpersonal behavior, motivation and leadership, behavior in work groups; careers in management, ethics and international management.

Prerequisites and Restrictions

MARA majors - MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; MART majors - MART 200 and junior or senior classification; MELP majors - PHIL 314 and junior or senior classification.

Concurrent Enrollment No

Approval Path

1. 10/27/18 4:38 pm João Mileski (mileskij): Approved for MARA Department Head
2. 10/29/18 11:29 am Terra Bissett (t.bissett): Rollback to Initiator
3. 10/29/18 11:51 am João Mileski (mileskij): Approved for MARA Department Head
4. 10/29/18 12:03 pm Terra Bissett (t.bissett): Approved for Curricular Services Review
5. 10/29/18 4:51 pm Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
6. 11/06/18 3:43 pm Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
7. 11/07/18 3:35 pm Donna Lang (langd): Approved for GV College Dean UG
8. 11/08/18 8:24 am Sandra Williams (sandra-williams): Approved for UCC Preparer
9. 12/10/18 10:02 am Terra Bissett (t.bissett):
Should catalog prerequisites / concurrent enrollment be enforced?  
Yes  No

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
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<tr>
<td>And</td>
<td>MGMT 211</td>
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<td>Or</td>
<td>PHIL 314</td>
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<td>UG</td>
<td>No</td>
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Crosslistings: No  Crosslisted With: No
Stacked: No  Stacked with: No

Semester: 3  Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 3  Lab: 0  Other: 0  Total: 3
Repeatable for credit? No  Three-peat? No
CIP/Fund Code: 520211016
Default Grade Mode: Letter Grade (G)  Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes
This will be a required course or an elective course for the following programs:
Required (select program)
Elective (select program)
Has/will this course be(en) submitted for core curriculum consideration? No
Has/will this course be(submitted for Writing or Communication consideration? No
Has/will this course be(submitted for ICD or CD consideration? No

**Course Syllabus**

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments
- Terra Bissett (t.bissett) (10/29/18 11:29 am): Rollback: Rolling back as requested.
- Terra Bissett (t.bissett) (12/10/18 10:02 am): UCC approved December 2018.

Reported to state? No
## Course Change Request

**Date Submitted:** 10/27/18 12:12 pm  
**Viewing:** MARA 401: Brokerage and Chartering  
**Last edit:** 10/27/18 12:12 pm  
**Changes proposed by:** knoxj

**Contact(s)**

<table>
<thead>
<tr>
<th>Name</th>
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<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

**Rationale for Course**

The proposed changes are part of a routine curriculum review.

**Course prefix**  
MARA

**Course number**  
401

**Department**  
Maritime Administration

**College/School**  
Galveston Campus

**Academic Level**  
Undergraduate

**Effective term**  
2019-2020 Galveston

**Catalog course description**

Operational and legal environment of ship brokerage and chartering; responsibilities of owner and charterer under various charter forms; American, British and Canadian acts governing charters and bills of lading; rules and regulations concerning loading and discharging. Senior classification.

**Prerequisites and Restrictions**

MARA 301 and senior classification. MARA 205, MARA 301.

**Should catalog prerequisites / concurrent enrollment be enforced?**  
Yes

**Catalog Pages referencing this course**

- Department of Maritime Administration
- MARA - Maritime Administration (MARA)

**Programs referencing this course**

- BS-MARA: Maritime Administration - BS
- BS-MART: Marine Transportation - BS
- MINOR-MARA: Maritime Administration - Minor
- BS/MML-MARA/MAAL-GAD: Maritime Administration - 5-year Bachelor of

**In Workflow**

1. MARA Department Head  
2. Curricular Services Review  
3. GV Committee Preparer UG  
4. GV Committee Chair UG  
5. GV College Dean UG  
6. UCC Preparer  
7. UCC Chair  
8. Faculty Senate Preparer  
9. Faculty Senate  
10. Provost II  
11. President  
12. Curricular Services  
13. Banner

**Approval Path**

1. 10/27/18 4:39 pm  
   Joan Mileski (mileskij): Approved for MARA Department Head

2. 10/29/18 11:52 am  
   Terra Bissett (t.bissett): Approved for Curricular Services Review

3. 10/29/18 4:57 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

4. 11/06/18 3:39 pm  
   Sandra Williams (sandra-williams): Approved for UCC Preparer

5. 11/07/18 3:36 pm  
   Donna Lang (langd): Approved for GV College Dean UG

6. 11/08/18 8:24 am  
   Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/10/18 10:02 am  
   Terra Bissett (t.bissett): Approved for UCC Chair
| Course | Semester | Credit | Lecture | Lab | Other | Total | Repeatable for credit? | CIP/Fund Code | Default Grade Mode | Method of instruction | Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) | Will this course be taught as a distance education course? | Is 100% of this course going to be taught in Texas? | Will classroom space be needed for this course? | This will be a required course or an elective course for the following programs:

Required (select program)
Elective (select program)
Has/will this course be(en) submitted for core curriculum consideration? | Has/will this course be(en) submitted for Writing or Communication consideration? | Has/will this course be(en) submitted for ICD or CD consideration? |
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**Course Syllabus**

Syllabus: Upload syllabus
<table>
<thead>
<tr>
<th>Upload syllabus</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Letters of support or other documentation</td>
<td>No</td>
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<td>Additional information</td>
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<tr>
<td>Reviewer Comments:</td>
<td>Terra Bissett (t.bissett) (12/10/18 10:02 am): UCC approved December 2018.</td>
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</table>
Course Change Request

Date Submitted: 11/06/18 4:30 pm

Viewing: MARA 402: Inland Waterways

Last approved: 02/09/18 3:25 am

Last edit: 11/07/18 8:15 am

Changes proposed by: knoxj

Catalog Pages referencing this course

Department of Maritime Administration
MARA - Maritime Administration (MARA)

Programs referencing this course

BS-MARA: Maritime Administration - BS
BS-MART: Marine Transportation - BS
MINOR-MARA: Maritime Administration - Minor
BS/MM-MARA/MAAL-GAD: Maritime Administration - 5-year Bachelor of

Faculty Senate Number: FS.35.009

Contact(s)

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<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course Edit

The proposed changes are part of a routine curriculum review.

Course prefix: MARA
Course number: 402

Department: Maritime Administration

College/School: Galveston Campus

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level (alternate): Graduate


Galveston

Complete Course Title

Inland Waterways

Abbreviated Course Title

INLAND WATERWAYS

Catalog course description

Development of inland waterways of the U.S. and federal policies relating to them; port and terminal development, competition with other transportation forms, manpower, rates, environmental concerns and the impact of waterway systems on regional economies.

Prerequisites and Restrictions

ECON 202, MARA 301; ECON 202 301 and junior or ECON 203; junior or senior classification.

Concurrent Enrollment: No

In Workflow

1. MARA Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Provost II
10. President
11. Curricular Services
12. Banner

Approval Path

1. 11/06/18 4:50 pm
   Kris Knox (knoxj): Approved for MARA Department Head
2. 11/07/18 8:16 am
   Terra Bisse (t.bisse): Approved for Curricular Services Review
3. 11/07/18 8:57 am
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/07/18 3:29 pm
   Donna Lang (langd): Approved for GV Committee Chair UG
5. 11/07/18 3:36 pm
   Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:24 am
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/10/18 10:03 am
   Terra Bisse (t.bisse): Approved for UCC Chair
8. 11/08/18 3:29 pm
   Donna Lang (langd): Approved for GV College Dean UG
9. 11/08/18 3:36 pm
   Donna Lang (langd): Approved for GV College Dean UG
10. 11/08/18 8:24 am
    Sandra Williams (sandra-williams): Approved for UCC Preparer
11. 12/10/18 10:03 am
    Terra Bisse (t.bisse): Approved for UCC Chair
12. 11/08/18 3:29 pm
    Donna Lang (langd): Approved for GV College Dean UG
13. 11/08/18 3:36 pm
    Donna Lang (langd): Approved for GV College Dean UG
14. 11/08/18 8:24 am
    Sandra Williams (sandra-williams): Approved for UCC Preparer
15. 12/10/18 10:03 am
    Terra Bisse (t.bisse): Approved for UCC Chair
16. 11/08/18 3:29 pm
    Donna Lang (langd): Approved for GV College Dean UG
17. 11/08/18 3:36 pm
    Donna Lang (langd): Approved for GV College Dean UG
18. 11/08/18 8:24 am
    Sandra Williams (sandra-williams): Approved for UCC Preparer
19. 12/10/18 10:03 am
    Terra Bisse (t.bisse): Approved for UCC Chair
20. 11/08/18 3:29 pm
    Donna Lang (langd): Approved for GV College Dean UG
21. 11/08/18 3:36 pm
    Donna Lang (langd): Approved for GV College Dean UG
22. 11/08/18 8:24 am
    Sandra Williams (sandra-williams): Approved for UCC Preparer
23. 12/10/18 10:03 am
    Terra Bisse (t.bisse): Approved for UCC Chair

History

1. Feb 9, 2018 by Kris Knox (knoxj)
Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
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<tr>
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<td>ECON 203</td>
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Crosslistings No

Semester 3
Credit Contact Hour(s) Lecture: 3 Lab: 0 Other: 0 Total 3
Hour(s)
Repeatable for credit? No
Three-peat? No
CIP/Fund Code 5202091116
Default Grade Mode Letter Grade (G)
Alternate Grade Modes Satisfactory/Unsatisfactory
Method of instruction Lecture

Will this course be taught as a distance education course? No

Will 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration? No
### Course Syllabus

<table>
<thead>
<tr>
<th>Syllabus:</th>
<th>Upload syllabus</th>
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</thead>
<tbody>
<tr>
<td>Letters of support or other documentation</td>
<td>No Yes</td>
</tr>
<tr>
<td>Additional information</td>
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<tr>
<td>Reviewer Comments</td>
<td>Terra Bissett (t.bissett) (12/10/18 10:03 am): UCC approved December 2018.</td>
</tr>
<tr>
<td>Reported to state?</td>
<td>No</td>
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</tbody>
</table>
Course Change Request

Date Submitted: 10/27/18 12:18 pm

Viewing: MARA 416: Port Operations, Administration and Economics

Last edit: 10/27/18 12:18 pm
Changes proposed by: knox

Contact(s)

<table>
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Rationale for Course

The proposed changes are part of a routine curriculum review.

Course prefix  MARA  Course number  416

Department  Maritime Administration
College/School  Galveston Campus
Academic Level  Undergraduate
Undergraduate course level justification (Select One)

Effective term  2019-2020 Galveston

Complete Course Title  Port Operations, Administration and Economics
Abbreviated Course  PORT OPRTNS ADMNTN & ECO
Title

Catalog course description

Concepts of the port and methods of intermodal transfer. Port functions divided and analyzed along business lines: economics, management, finance, accounting, and marketing. Cost studies. Junior or senior classification.

Prerequisites and Restrictions

MARA 301, and junior or senior classification. MARA 301.

Should catalog prerequisites / concurrent enrollment be enforced?

Enforced Prerequisites / Concurrent Enrollment

<table>
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In Workflow

1. MARA Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services
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Approval Path

1. 10/27/18 4:39 pm  
   Joan Mileski (mileskij): Approved for MARA Department Head
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7. 12/10/18 10:03 am  
   Terra Bisse (t.bisse): Approved for UCC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/?role=Faculty%20Senate
MARA 416: Port Operations, Administration and Economics

Crosslistings: No
Crosslisted With: 

Stacked: No
Stacked With: 

<table>
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<th>Semester</th>
<th>Credit</th>
<th>Contact Hour(s)</th>
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<th>Lab:</th>
<th>Other:</th>
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<td>(per week):</td>
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Repeatable for credit: No

CIP/Fund Code: 5202090016

Default Grade Mode: Letter Grade (G)

Method of instruction: Lecture

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No

Will this course be taught as a distance education course: No

Is 100% of this course going to be taught in Texas: Yes

Will classroom space be needed for this course: Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration: No

Has/will this course be(en) submitted for Writing or Communication consideration: No

Has/will this course be(en) submitted for ICD or CD consideration: No

Course Syllabus

Syllabus: Upload syllabus
Upload syllabus
<table>
<thead>
<tr>
<th>Letters of support or other documentation</th>
<th>No</th>
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<tr>
<td>Additional information</td>
<td>Terra Bissett (t.bissett) (12/10/18 10:03 am): UCC approved December 2018.</td>
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Key: 9634
Course Change Request

Viewing: MARA 421 : Admiralty Law

Last approved: 02/08/18 3:24 am
Last edit: 10/30/18 4:02 pm

Changes proposed by: knoxj

Catalog Pages referencing this course
- Department of Maritime Administration
- MARA - Maritime Administration (MARA)

Programs referencing this course
- BS-MARA: Maritime Administration - BS
- BS-MART: Marine Transportation - BS
- BS-USGA-MLP*: University Studies - BS, Marine Environmental Law and Policy Concentration

Faculty Senate Number: FS.34.337

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course

Edt
The proposed changes are part of a routine curriculum review.

Course prefix: MARA  
Course number: 421

Department: Maritime Administration
College/School: Galveston Campus
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Academic Level (alternate): Graduate


Complete Course Title: Admiralty Law
Abbreviated Course Title: ADMIRALTY LAW

Catalog course description
Essential principles of admiralty, general maritime, and international law as applicable to the marine industry and ocean shipping. Evolution and state of the law concerning maritime liens, ship mortgages, rights of seamen and harbor workers, limitation of liability, bills of lading and cargo carriage, collision liability, general average, marine salvage, charter parties, and international rights and responsibilities of ships and shipping.

Prerequisites and Restrictions

MARA majors - MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; MART majors - MART 200 and junior or senior classification; MELP majors - PHIL 314 and junior or senior classification.
MARA 421: Admiralty Law

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced? Yes No

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
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<th>Min Grade/Score</th>
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<td>PHIL 314</td>
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Crosslistings: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 3, Lab: 0, Other: 0, Total: 3
Repeatable for credit? No
Three-peat? No
CIP/Fund Code: 5202090116
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for

Program(s)

(BS-MART) Marine Transportation - BS
core curriculum consideration?

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for ICD or CD consideration? No

**Course Syllabus**

Syllabus: Upload syllabus

Letters of support or other documentation No

Additional information

Reviewer Comments

Terra Bissett (t.bissett) (10/29/18 11:30 am): Rollback: Rolling back as requested.
Terra Bissett (t.bissett) (12/10/18 10:03 am): UCC approved December 2018.

Reported to state? No

Key: 9695
Course Change Request

Date Submitted: 10/27/18 1:37 pm

Viewing: MARA 424 : Economics of Transportation

Last approved: 02/08/18 3:24 am
Last edit: 10/30/18 4:02 pm
Changes proposed by: knoxj

Catalog Pages referencing this course

Department of Maritime Administration
MARA - Maritime Administration (MARA)

Programs referencing this course

B-S-MARA: Maritime Administration - BS
B-S-MART: Marine Transportation - BS
MINOR-MARA: Maritime Administration - Minor
B-S/MMI-MARA/MAAL-GAD: Maritime Administration - 5-year Bachelor of

Faculty Senate Number: FS.34.337

Contact(s)

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<tr>
<th>Name</th>
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<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
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</table>

Rationale for Course

Edit

The proposed changes are part of a routine curriculum review.

Course prefix       MARA  Course number       424
Department          Maritime Administration
College/School      Galveston Campus
Academic Level      Undergraduate
Undergraduate course level justification (Select One)

Academic Level (alternate)

Graduate

Effective term

2019-2020 2018-2019

Galveston

Complete Course Title

Economics of Transportation

Abbreviated Course Title

ECON OF TRANSPORTATION

Catalog course description

Historical development, structure, function, and regulation of highway, rail, water, pipeline, and air transportation systems.
Application of economic concepts and principles to transportation development and operations.

Prerequisites and Restrictions

MARA majors - MGMT 211, ACCT 230, ECON 203 and MARA 250, junior or concurrent enrollment; admission to upper division in Maritime Administration; MART majors - MART 200; ECON 203 and junior or senior classification.

Concurrent Enrollment

No

Should catalog prerequisites /

Yes

In Workflow

1. MARA Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Provost II
10. President
11. Curricular Services
12. Banner

Approval Path

1. 10/27/18 4:40 pm
   Joan Mileksi (mileskij): Approved for MARA Department Head
2. 10/29/18 12:07 pm
   Terra Bissett (t.bissett): Approved for Curricular Services Review
3. 10/29/18 5:12 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/06/18 3:47 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
5. 11/07/18 3:36 pm
   Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:25 am
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/10/18 10:03 am
   Terra Bissett (t.bissett): Approved for UCC Chair

History

1. Feb 8, 2018 by Kris Knox (knoxj)
Enforced Prerequisites / Concurrent Enrollment

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Crosslistings: No
Crosslisted With: No
Stacked: No
Stacked with: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s): 3
Lecture: 3
Lab: 0
Other: 0
Total: 3
Repeatable for credit: No
Three-peat: No
CIP/Fund Code: 5202091116
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes
This will be a required course or an elective course for the following programs:
Required (select program)
Elective (select program)
Has/will this course be(en) submitted for core curriculum consideration? No
Has/will this course be(en) submitted for Writing or
Communication consideration?

Has/will this course be(en) submitted for ICD or CD consideration?  No

---

## Course Syllabus

<table>
<thead>
<tr>
<th>Syllabus: Upload syllabus</th>
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<th>Terra Bissett (t.bissett) (12/10/18 10:03 am): UCC approved December 2018.</th>
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Course Change Request

Date Submitted: 10/29/18 12:24 pm

Viewing: MARA 435: Labor Law and Policy

Last approved: 02/24/18 3:29 am

Last edit: 10/30/18 4:02 pm

Changes proposed by: knoxj

Catalog Pages referencing this course

- Department of Maritime Administration
- MARA - Maritime Administration (MARA)

Programs referencing this course

- BS-MARA: Maritime Administration - BS
- BS-USGA-MLP*: University Studies - BS, Marine Environmental Law and Policy Concentration
- BS-USGA-MPC*: University Studies - BS, Maritime Public Policy and Communication

Faculty Senate Number: FS.35.114

Contact(s)

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course

Edit

The proposed changes are part of a routine curriculum review.

Course prefix: MARA

Course number: 435

Department: Maritime Administration

College/School: Galveston Campus

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.


Galveston

Complete Course Title

Labor Law and Policy

Abbreviated Course Title

LABOR LAW & POLICY

Catalog course description

Federal and state public policy and laws regulating human resource management including National Labor Relations Act, Railway Labor Act, Fair Labor Standards Act, employment discrimination statutes, statutes regarding public sector unionization, and other relevant legal authorities; various forms of dispute settlement including litigation, mediation, fact finding and arbitration; legal ramifications of strategic human resource management decision making.

Prerequisites and Restrictions

MARA majors - MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; MART majors - MART 200 and junior or senior classification; MPPC majors - POLS 232 and junior or senior

In Workflow

1. MARA Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Provost II
10. President
11. Curricular Services
12. Banner

Approval Path

1. 10/27/18 4:41 pm
   - Joan Mileski (mileskij): Approved for MARA Department Head

2. 10/29/18 12:16 pm
   - Terra Bissett (t.bissett): Rollback to Initiator

3. 10/29/18 1:25 pm
   - Joan Mileski (mileskij): Approved for MARA Department Head

4. 10/29/18 5:19 pm
   - Terra Bissett (t.bissett): Approved for Curricular Services Review

5. 10/29/18 5:25 pm
   - Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

6. 11/06/18 3:48 pm
   - Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG

7. 11/07/18 3:36 pm
   - Donna Lang (langd): Approved for GV College Dean UG

8. 11/08/18 8:25 am
   - Sandra Williams (sandra-williams): Approved for UCC Preparer

9. 12/10/18 10:04 am
   - Terra Bissett (t.bissett):
**MARA 435: Labor Law and Policy**

Concurrent Enrollment  
No

Should catalog prerequisites / concurrent enrollment be enforced?  
Yes No

### Enforced Prerequisites / Concurrent Enrollment

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Crosslistings  
No

Crosslisted With

Stacked  
No

Stacked with

#### Semester

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</table>

Repeatability for credit?

Three-peat?

No

CIP/Fund Code  
5210020016

Default Grade Mode  
Letter Grade (G)

Alternate Grade Modes  
Satisfactory/Unsatisfactory

Method of instruction  
Lecture

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)

No

Will this course be taught as a distance education course?

No

Is 100% of this course going to be taught in Texas?

Yes

Will classroom space be needed for this course?

Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

**Program(s)**

Approved for UCC Chair

History

1. Jun 19, 2017 by Peggy Rutkowski (rutkowski)
2. Feb 24, 2018 by Kris Knox (knox)
Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for ICD or CD consideration? No

Course Syllabus

Syllabus: Upload syllabus

Letters of support or other documentation: No Yes

Additional information: We are removing the prerequisite of MARA 212 and keeping the junior or senior classification to allow more flexibility for marine transportation and university studies majors to use the course for their respective directed electives.

Reviewer Comments

Terra Bissett (t.bissett) (10/29/18 12:16 pm): Rollback: Course prerequisite listed for MPPC Students - please include within enforced prerequisite table.

Terra Bissett (t.bissett) (10/29/18 5:18 pm): Update received.

Terra Bissett (t.bissett) (12/10/18 10:03 am): UCC approved December 2018.

Reported to state?: No

Key: 9699
Course Change Request

Date Submitted: 10/27/18 2:13 pm

Viewing: MARA 440 : Global Economy and Enterprise Management

Last approved: 06/12/18 3:26 am

Last edit: 10/30/18 4:03 pm

Changes proposed by: knoxj

Catalog Pages referencing this course
- Department of Maritime Administration
- International and Cultural Diversity Requirements
- MARA - Maritime Administration (MARA)

Programs referencing this course
- BS-MARA: Maritime Administration - BS
- BS-MART: Marine Transportation - BS
- BS-USGA-MPC*: University Studies - BS, Maritime Public Policy and Communication Concentration

Faculty Senate Number: FS.36.012

Contact(s)

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<thead>
<tr>
<th>Name</th>
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<tbody>
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<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course Edit

The proposed changes are part of a routine curriculum review.

Course prefix: MARA
Course number: 440

Department: Maritime Administration
College/School: Galveston Campus
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level (alternate): Graduate


Complete Course Title
Global Economy and Enterprise Management

Abbreviated Course Title
GLOBAL ECON & ENTER MGMT

Catalog course description
Economic, political, social and ethical environments of international business including the determinants of trade and investment patterns and the logic of government interventions in both trade and capital markets; structure, strategy and operations of the international firm.

Prerequisites and Restrictions

Approval Path
1. 10/27/18 4:41 pm
   Joan Mileski (mileskij): Approved for MARA Department Head
2. 10/29/18 12:54 pm
   Terra Bisse (t.bisse): Approved for Curricular Services Review
3. 10/29/18 5:14 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/06/18 3:48 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
5. 11/07/18 3:36 pm
   Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:25 am
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/10/18 10:04 am
   Terra Bisse (t.bisse): Approved for UCC Chair

History
1. Feb 9, 2018 by Kris Knox (knox)
ECON 203, MARA majors - MARA 281; MGMT 211, ACCT 230, 281 and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration and senior classification; MPPC majors - POLS 232; ECON 203 and senior classification.

Concurrent Enrollment: No
Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
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Crosslistings: No
Stacked: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 3, Lab: 0, Other: 0, Total: 3
Repeatable for credit? No
Three-peat? No
CIP/Fund Code: 5211010016
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) Yes

Learning Outcomes:
Meets traditional face-to-face learning outcomes.

Describe how learning outcomes are met or provide justification why they are not met.
Students are required to satisfy the same course requirements as face-to-face sections of MARA 440 including papers and exams.

Hours:
Meets traditional face-to-face hours.

Describe how hours are met or provide justification why they are not met.
Students are held to the same standards and rigor as face-to-face sections of MARA 440.

Will this course be taught as a distance education course? Yes
I verify that I have reviewed the FAQ for Export Control Basics for Distance Education.

Is 100% of this course going to be taught in Texas?

Will classroom space be needed for this course?

This will be a required course or an elective course for the following programs:

<table>
<thead>
<tr>
<th>Required (select program)</th>
<th>Program(s)</th>
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<tr>
<td>(BS-MARA) Maritime Administration - BS</td>
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<tr>
<td>Has/will this course be(en) submitted for core curriculum consideration?</td>
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| Has/will this course be(en) submitted for Writing or Communication consideration? |
| Yes |

| Has/will this course be(en) submitted for ICD or CD consideration? |
| Yes |

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus: MARA 440-900 SYLLABUS.pdf

Letters of support or other documentation

No

Yes

Additional information: MARA 440 has traditionally been taught through face-to-face teaching. This request is to approve MARA 440 for on-line instruction.

Reviewer Comments

Terra Bissett (t.bissett) (10/29/18 12:52 pm): Syllabus not required for this type of change.

Terra Bissett (t.bissett) (12/10/18 10:04 am): UCC approved December 2018.

Reported to state?

No
Course Change Request

Viewing: MARA 470: Environmental Law

Last approved: 02/08/18 3:24 am
Last edit: 10/30/18 4:03 pm
Changes proposed by: knoxj

Catalog Pages referencing this course
- Department of Maritime Administration
  MARA - Maritime Administration (MARA)

Programs referencing this course
- BS-OCRE: Ocean and Coastal Resources - BS
- BS-MARA: Maritime Administration - BS
- BS-USGA-MLP*: University Studies - BS, Marine Environmental Law and Policy Concentration

Faculty Senate Number: FS.34.337

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course Edit:
The proposed changes are part of a routine curriculum review.

Course prefix: MARA  
Course number: 470

Department: Maritime Administration
College/School: Galveston Campus
Academic Level: Undergraduate
Undergraduate course level justification (Select One)
- Prerequisites

All prerequisites will be enforced through COMPASS.


Complete Course Title: Environmental Law
Abbreviated Course Title: ENVIRONMENTAL LAW

Catalog course description:
- Broad background of basic statutes, regulations and cases dealing with the major issues in international and federal environmental law; focus on pragmatic training in statutory, regulatory and treaty reading and interpretation; analysis of administrative and legislative intent for law.

Prerequisites and Restrictions:
- MARA majors - MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; MPPC majors - POLS 232 and junior or senior classification; MELP majors - PHIL 314 and junior or senior classification; junior or senior classification.

In Workflow
1. MARA Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Provost II
10. President
11. Curricular Services
12. Banner

Approval Path
1. 10/27/18 4:42 pm  
   Joan Mileski (mileskij): Approved for MARA Department Head
2. 10/29/18 12:57 pm  
   Terra Bissett (t.bissett): Approved for Curricular Services Review
3. 10/29/18 5:15 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/06/18 3:50 pm  
   Sandra Williams (sandra-williams): Approved for GV Committee Chair UG
5. 11/07/18 3:36 pm  
   Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:25 am  
   Terra Bissett (t.bissett): Approved for UCC Preparer
7. 12/10/18 10:04 am  
   Terra Bissett (t.bissett): Approved for UCC Chair

History
1. Feb 8, 2018 by Kris Knox (knoxj)
Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
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Crosslistings: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s): 3
Lecture: 3
Lab: 0
Other: 0
Total: 3
Repeatable for credit: No
Three-peat: No
CIP/Fund Code: 5202992116
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Program(s)

- (BS-USGA-MLP*) University Studies - BS, Marine Environmental Law and Policy Concentration
- (BS-USGA-MPC*) University Studies - BS, Maritime Public Policy and Communication Concentration
- (BS-MARA) Maritime Administration - BS
| Has/will this course be(submitted for core curriculum consideration? | No |
| Has/will this course be(submitted for Writing or Communication consideration? | No |
| Has/will this course be(submitted for ICD or CD consideration? | No |

**Course Syllabus**

Has/will this course be(submitted for core curriculum consideration? | No |
Has/will this course be(submitted for Writing or Communication consideration? | No |
Has/will this course be(submitted for ICD or CD consideration? | No |

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments: **Terra Bissett** (t.bissett) **(12/10/18 10:04 am)**: UCC approved December 2018.

Reported to state? | No

Key: 9704
Course Change Request

Date Submitted: 11/06/18 4:30 pm

Viewing: MARA 475 : Business Leadership

Last approved: 02/14/18 3:29 am
Last edit: 11/07/18 8:17 am

Changes proposed by: knoxj

Catalog Pages referencing this course
Department of Maritime Administration
MARA - Maritime Administration (MARA)

Programs referencing this course
BS-MARA: Maritime Administration - BS
MINOR-MARA: Maritime Administration - Minor
BS/MM-A MARA/MAAL-GAD: Maritime Administration - 5-year Bachelor of Science/Master of Maritime Administration and Logistics

Faculty Senate Number

Contact(s)

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<th>Name</th>
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<tr>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
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Rationale for Course

Edit
The proposed changes are part of a routine curriculum review.

Course prefix MARA
Course number 475

Department Maritime Administration
College/School Galveston Campus
Academic Level Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level (alternate) Graduate

Effective term 2019-2020 2018-2019
Galveston

Complete Course Title Business Leadership

Abbreviated Course Title BUSINESS LEADERSHIP

Catalog course description
Focus on theory and practice of leadership; familiarize with components, theory and models of leadership; compare/contrast styles; review leadership/followership relationship as a collaborative activity resulting in achieved goals; analyze cultural and global components and ethical issues associated with leadership.

Prerequisites and Restrictions

MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; junior or senior classification, junior or senior classification or approval of instructor.

Concurrent Enrollment No

Approval Path
1. 11/06/18 4:50 pm Kris Knox (knoxj): Approved for MARA Department Head
2. 11/07/18 8:21 am Terra Bisse (t.bisse): Approved for Curricular Services Review
3. 11/07/18 8:57 am Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/07/18 3:29 pm Donna Lang (langd): Approved for GV Committee Chair UG
5. 11/07/18 3:37 pm Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:25 am Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/10/18 10:04 am Terra Bisse (t.bisse): Approved for UCC Chair

History
1. Jan 19, 2018 by Donna Mancuso (donnaman)
Should catalog prerequisites / concurrent enrollment be enforced?  

Yes No

Enforced Prerequisites / Concurrent Enrollment

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Crosslistings: No  
Stacked: No

Semester: 3  
Credit Hour(s): 3  
Contact Hour(s): (per week): Lecture: 3  
Lab: 0  
Other: 0  
Total: 3

Repeatable for credit?: No  
Three-peat?: No

CIP/Fund Code: 5211010016  
Default Grade Mode: Letter Grade (G)

Alternate Grade Modes: Satisfactory/Unsatisfactory

Method of instruction: Lecture

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) Yes

Learning Outcomes

Meets traditional face-to-face learning outcomes.

Describe how learning outcomes are met or provide justification why they are not met.

Approved previously via memo (Spring 2018)

Hours

Meets traditional face-to-face hours.

Describe how hours are met or provide justification why they are not met.

Approved previously via memo (Spring 2018)

Will this course be taught as a distance education course? Yes

I verify that I have reviewed the FAQ for Export Control Basics for Distance Education. Yes

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? No

This will be a required course or an elective course for the following programs:
### Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation

No

Additional information

Reviewer Comments

Terra Bissett (t.bissett) (12/10/18 10:04 am): UCC approved December 2018.

Reported to state?

No

---

**Program(s)**

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<td>(BS-MARA) Maritime Administration - BS</td>
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Has/will this course be(en) submitted for core curriculum consideration?

No

Has/will this course be(en) submitted for Writing or Communication consideration?

No

Has/will this course be(en) submitted for ICD or CD consideration?

No
Course Change Request

Date Submitted: 10/27/18 2:32 pm

Viewing: **MARA 485: Directed Studies**

Last approved: 03/30/17 3:16 am
Last edit: 10/30/18 3:14 pm
Changes proposed by: knoxj

| Faculty Senate Number |

<table>
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<tr>
<th>Name</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Kris Knox</td>
<td><a href="mailto:knoxj@tamug.edu">knoxj@tamug.edu</a></td>
<td>409-740-4442</td>
</tr>
</tbody>
</table>

Rationale for Course Edit

The proposed changes are part of a routine curriculum review.

Course prefix: MARA  
Course number: 485

Department: Maritime Administration
College/School: Galveston Campus
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level (alternate): Graduate

Effective term: 2019-2020 2016-2017

Galveston

Complete Course Title: Directed Studies

Abbreviated Course Title: DIRECTED STUDIES PROBLEMS

Catalog course description

Directed study on selected problems in the area of maritime administration not covered in other courses. Approval of instructor and MARA department head.

Prerequisites and Restrictions

MGMT 211, ACCT 230, and MARA 250, Cumulative GPA of 2.5 or concurrent enrollment; admission to upper division in Maritime Administration; cumulative GPA of 2.5 or higher.

Concurrent Enrollment: No

Approval Path

1. 10/27/18 4:42 pm  
   Joan Mileski (mileskij): Approved for MARA Department Head

2. 10/30/18 3:14 pm  
   Terra Bissett (t.bissett): Approved for Curricular Services Review

3. 10/30/18 5:02 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

4. 11/06/18 3:50 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG

5. 11/07/18 3:37 pm  
   Donna Lang (langd): Approved for GV College Dean UG

6. 11/08/18 8:25 am  
   Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/10/18 10:05 am  
   Terra Bissett (t.bissett): Approved for UCC Chair

History

1. Mar 30, 2017 by sarah.gordon

Catalog Pages referencing this course

Department of Maritime Administration
MARA - Maritime Administration (MARA)

Programs referencing this course

BS-MARA: Maritime Administration – BS
MINOR-MARA: Maritime Administration - Minor
BS/MML-MARA/MAAL-GAD: Maritime Administration - 5-year Bachelor of Science/Master of Maritime Administration and Logistics
### Should catalog prerequisites / concurrent enrollment be enforced?

Yes  No

### Enforced Prerequisites / Concurrent Enrollment

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<th>Min Grade/Score</th>
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### Crosslistings

No  Crosslisted With

### Stacked

No  Stacked with

### Semester

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### Contact Hour(s)

| (per week): Lecture: | 0 |
| Lab:               | 0 |
| Other:             | 1-4 |
| Total              | 1-4 |

### Repeatable for credit?

Yes

### Number of times repeated for credit

- OR -

### Maximum number of hours

16

### When will this course be repeated?

Within a student's career

### Three-peat?

Yes

### CIP/Fund Code

5202091016

### Default Grade Mode

Letter Grade (G)

### Alternate Grade Modes

Satisfactory/Unsatisfactory

### Method of instruction

Independent Study

### Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)

No

### Will this course be taught as a distance education course?

Yes

### Is 100% of this course going to be taught in Texas?

Yes

### Will classroom space be needed for this course?

Yes

### This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration?

No
| Has/will this course been submitted for Writing or Communication consideration? | No |
| Has/will this course been submitted for ICD or CD consideration? | No |

## Course Syllabus

| Syllabus: | Upload syllabus |
| Letters of support or other documentation | No |

Additional information

**Reviewer Comments**
- Terra Bissett (t.bissett) (10/30/18 3:13 pm): Updated abbreviated course title to match complete course title.
- Terra Bissett (t.bissett) (12/10/18 10:04 am): UCC approved December 2018.

**Reported to state?**
- Change
- GV
Course Change Request

Date Submitted: 10/27/18 2:36 pm

Viewing: MARA 489: Special Topics in...

Last edit: 10/30/18 3:15 pm
Changes proposed by: knoxj

Rationale for Course
The proposed changes are part of a routine curriculum review.

Course prefix MARA Course number 489

Department Maritime Administration
College/School Galveston Campus
Academic Level Undergraduate
Undergraduate course level justification (Select One)

Academic Level Graduate
Effective term 2019-2020 Galveston

Complete Course Title Special Topics in...
Abbreviated Course Title SPECIAL TOPICS IN

Catalog course description
Study of selected topics in an identified area of maritime administration.

Prerequisites and Restrictions
MGMT 211, ACCT 230, and MARA 250, or concurrent enrollment; admission to upper division in Maritime Administration; approval of instructor. Approval of instructor.

Concurrent Enrollment No
Should catalog prerequisites / concurrent enrollment be enforced? No
**Enforced Prerequisites / Concurrent Enrollment**

<table>
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**Crosslistings**

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**Repeatable for credit?** Yes

- Number of times repeated for credit: - OR -
- Maximum number of hours: 16
- When will this course be repeated? Within a student’s career
- Three-peat? Yes

**CIP/Fund Code** 5202091116

**Default Grade Mode** Letter Grade (G)

**Alternate Grade Modes** Satisfactory/Unsatisfactory

**Method of instruction** Lecture

Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)

| No |

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

- Required (select program)
- Elective (select program)
- Has/will this course be(en) submitted for core curriculum consideration? No
- Has/will this course be(en) submitted for Writing or Communication consideration? No
Has/will this course be(en) submitted for ICD or CD consideration?  
No

## Course Syllabus

Syllabus:  
Upload syllabus

Letters of support or other documentation  
No

Additional information

Reviewer Comments  
**Terra Bissett (t.bissett) (10/30/18 3:16 pm):** Updated complete course title to be consistent with X89 course titles.

**Terra Bissett (t.bissett) (12/10/18 10:05 am):** UCC approved December 2018.

Reported to state?  
No
**Course Change Request**

Date Submitted: 11/20/18 4:20 pm

**Viewing: MARB 340 : Tropical Marine Ecology**

Last approved: 04/18/18 3:26 am  
Last edit: 12/10/18 4:22 pm  
Changes proposed by: ballr

---

### Catalog Pages referencing this course
- Department of Marine Biology
- MARB - Marine Biology (MARB)

### Programs referencing this course
- BS-OCRE: Ocean and Coastal Resources - BS
- MINOR-DVTM: Diving Technology and Methods - Minor
- BS/MMR-OCRE/MARM-GMR: Ocean and Coastal Resources - 5-year Bachelor of Science/Master of Marine Resources Management

---

### Faculty Senate Number

### Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Rachel Ball</td>
<td><a href="mailto:ballr@tamug.edu">ballr@tamug.edu</a></td>
<td>409-740-4531</td>
</tr>
</tbody>
</table>

---

### Rationale for Course

**Edit**

The proposed changes are part of a routine curriculum review.

---

### Course Information

- **Course prefix**: MARB  
- **Course number**: 340  
- **Department**: Marine Biology  
- **College/School**: Galveston Campus  
- **Academic Level**: Undergraduate  
- **Undergraduate course level justification (Select One)**
  - Prerequisites

  *All prerequisites will be enforced through COMPASS.*

- **Effective term**: 2019-2020, 2018-2019  
- **Complete Course Title**: Tropical Marine Ecology  
- **Abbreviated Course Title**: TROPICAL MARINE ECOLOGY

---

### Catalog course description

(1-9).This course provides for field-oriented experience in coral reef, mangrove, sea grass and other tropical marine ecosystems. Special emphasis will be placed on biodiversity, ecology and conservation issues specific to Yucatan Peninsula of Mexico. All students who dive must either be a current AAUS scientific diver or present a current medical examination (which will be provided by the Diving Safety Officer or instructor) completed within the past 12 months and signed by a doctor, to the instructor before class participation in the pool will be allowed. Prior to using scuba equipment, all students must provide proof of open water certification or equivalent diving experience (advanced certification recommended). Permission of the instructor and the Diving Safety Officer is required before any pool activity takes place. Divers Alert Network insurance, or equivalent, is required.

---

**Approval Path**

1. 11/21/18 10:57 am  
   Jaime Alvarado-Bremer (jaimeab): Approved for MARB Department Head  
2. 11/21/18 11:06 am  
   Terra Bisse (t.bisse): Approved for Curricular Services Review  
3. 11/29/18 12:53 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG  
4. 12/03/18 2:19 pm  
   Donna Lang (langd): Approved for GV Committee Chair UG  
5. 12/03/18 2:20 pm  
   Donna Lang (langd): Approved for GV College Dean UG  
6. 12/10/18 9:13 am  
   Sandra Williams (sandra-williams): Approved for UCC Preparer  
7. 12/10/18 9:14 am  
   Sandra Williams (sandra-williams): Rollback to UCC Chair  
8. 12/10/18 9:29 am  
   Sandra Williams (sandra-williams): Approved for UCC Chair  
9. 12/10/18 9:29 am  
   Sandra Williams (sandra-williams): Rolled back to UCC Chair
Prerequisites and Restrictions
BIOL 112.

Concurrent Enrollment
No

Should catalog prerequisites / concurrent enrollment be enforced?
Yes

Enforced Prerequisites / Concurrent Enrollment

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Crosslistings
No

Crosslisted With

Stacked
No

Stacked with

Semester
4

Credit Hour(s)
Contact Hour(s) (per week):
Lecture: 3
Lab: 3
Other: 0
Total: 6

Repeatable for credit?
No

Three-peat?
No

CIP/Fund Code
2613010002

Default Grade Mode
Letter Grade (G)

Alternate Grade Modes
Satisfactory/Unsatisfactory

Method of instruction
Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)
Yes

Learning Outcomes
Meet traditional face-to-face learning outcomes.

Describe how learning outcomes are met or provide justification why they are not met.

Students will learn about marine species identification before, during and after the trip to Mexico. The instructors will cover the taxonomy of fish and invertebrate species in the classroom before the trip. In Mexico, students will be using field ID guides to and enter their data into a citizen science database. After the trip, students will assemble a picture ID guide using their own photographs as a class assignment. Environmental issues such as the impacts of climate change, coastal development and plastic waste will be discussed in the classroom before the trip. In the field, students will be directly exposed to these issues and will participate in guided discussion sessions with the instructors and TAs every day. They will also interact with local resource managers (e.g., sea turtle patrol) and will reflect on possible solutions in online assignments after the trip.

Hours
Meet traditional face-to-face hours.

Describe how hours are met or provide justification why they are not met.

Three full days of classroom sessions and one day diving experience at the Moody Gardens aquarium will precede the travel. The travel will cover 15 days, including two travel days. After the travel, contact hours will be shifted to an online format and will include online discussion, assigned readings and individual written assignments.
Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? No

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

<table>
<thead>
<tr>
<th>Required (select program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective (select program)</td>
</tr>
<tr>
<td>(BS-MARB) Marine Biology - BS</td>
</tr>
<tr>
<td>(BS-MARF) Marine Fisheries - BS</td>
</tr>
</tbody>
</table>

Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for ICD or CD consideration? Yes No

---

**Course Syllabus**

Syllabus: Upload syllabus

Upload syllabus Marb 340 Syllabus 2019 Dec10 update.docx

Letters of support or other documentation: No

Additional information: Justifying the non-traditional format of the course. 04.17.2018—edits made to enforce prerequisite table to comply with UCC policy to enforce listed catalog prerequisites, effective fall 2018—sw

Sandra Williams (sandra-williams) (12/10/18 4:23 pm): Concerns addressed. Update received. UCC approved December 2018.

Reported to state? No
MARB 340: Tropical Marine Ecology – Summer 2019

Dr. Anja Schulze, Course Instructor
Rm. 258, OCSB – (409) 740-4540; E-mail: schulzea@tamug.edu
Dr. Ron Eytan, Course Instructor
Rm. 254, OCSB – (409) 740-4527; E-mail: eytanr@tamug.edu
TAs: Fernando Calderón Gutiérrez, 409 740-4875, fercg12@tamu.edu

Course Web Site: http://www.tamug.edu/diving/TropMarineEcology.html

Catalog description: This course provides for field-oriented experience in coral reef, mangrove, sea grass and other tropical marine ecosystems. Special emphasis will be placed on biodiversity, ecology and conservation issues specific to Yucatan Peninsula of Mexico.

Prerequisites: Prerequisites: BIOL 112. All students who dive must either be a current AAUS scientific diver or present a current medical examination (which will be provided by the Diving Safety Officer or instructor) completed within the past 12 months and signed by a doctor, to the instructor before class participation in the pool will be allowed. Prior to using scuba equipment, all students must provide proof of open water certification or equivalent diving experience (advanced certification recommended). Permission of the instructor and the Diving Safety Officer is required before any pool activity takes place. Divers Alert Network insurance, or equivalent, is required.

Expanded description: (4 credits). This Study Abroad course provides for field-oriented experience in coral reef, mangrove, sea grass, cave and other tropical marine ecosystems. Special emphasis will be placed on biodiversity, ecology and conservation issues specific to the Yucatan Peninsula of Mexico. The course consists of 1 week of lecture in Galveston, 2 weeks of fieldwork in the Yucatan Peninsula, and 1 week of post course readings and web based discussion.

Learning Outcomes: At the conclusion of the class, students will be able to identify the principal species of fish, corals and invertebrates inhabiting coral reefs and other tropical marine habitats; recognize and interpret environmental issues relating to coral reefs including coral diseases, human impact and climate change; and construct and justify plans that would help to protect and preserve coral reef communities and other tropical marine habitats.

International and Cultural Diversity learning outcomes: During this course, students will live and work in a diverse multi-cultural community from the Yucatan Peninsula of Mexico. Extended discussions on global perspectives will compare and contrast views of Mexican and US citizens. Students will have ample opportunities to converse with local people and tour World Heritage Sites such as the Mayan city of Chichen Itza, led by local guides.


This course involves a 2-week field trip to Akumal on the Caribbean coast of the Yucatan Peninsula. Students will be charged a field trip fee ($2200) which will cover airfare, accommodations, meals, diving and transportation in Mexico. This field trip fee is in addition to normal tuition and fees for a 4-credit course. Space in the course is limited and students who make an $850 deposit starting Jan. 14 will be given preference. Dormitory space is available at the TAMU-Galveston campus for the first week of the course, while housing in Yucatan will be at the Vista del Mar condominiums in Akumal, Quintana Roo, Mexico.

Classroom and fieldwork participation:
Schedule (field activities are subject to change depending on local conditions)

<table>
<thead>
<tr>
<th>Day</th>
<th>Location</th>
<th>Agenda</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1</td>
<td>Galveston</td>
<td>PT, Intro. Lecture, Yucatan geography, coral ecology lectures, Swim test,</td>
</tr>
<tr>
<td>Day 2</td>
<td>Galveston</td>
<td>PT, Cenotes, fish, sea turtles lectures, Scuba checkout in pool</td>
</tr>
<tr>
<td>Day 3</td>
<td>Galveston</td>
<td>Moody Gardens rainforest, mangroves, sea grass lectures, Scuba in pool</td>
</tr>
<tr>
<td>Day 4</td>
<td>Galveston</td>
<td>Free day</td>
</tr>
<tr>
<td>Day 5</td>
<td>Galveston</td>
<td>Free day</td>
</tr>
<tr>
<td>Day 6</td>
<td>Galveston</td>
<td>Moody Aquarium fish count, exam, final packing &amp; checking of gear</td>
</tr>
<tr>
<td>Day 7</td>
<td>Travel day</td>
<td>Depart Galveston, fly from Houston to Cancun, van to Akumal</td>
</tr>
<tr>
<td>Day 8</td>
<td>Akumal</td>
<td>General orientation, snorkeling trip to reefs and sea grass beds</td>
</tr>
<tr>
<td>Day 9</td>
<td>Akumal</td>
<td>Shore dives - back reef area (reef structure and biodiversity)</td>
</tr>
<tr>
<td>Day 10</td>
<td>Akumal</td>
<td>Boat dives - barrier reef (reef fish identification)</td>
</tr>
<tr>
<td>Day 11</td>
<td>Akumal</td>
<td>Boat dives - barrier reef (% coral coverage &amp; coral diseases)</td>
</tr>
<tr>
<td>Day 12</td>
<td>Akumal</td>
<td>Trip to Mayan ruins at Chichen Itza (Mayan history and civilization)</td>
</tr>
<tr>
<td>Day 13</td>
<td>Akumal</td>
<td>Mangroves, sea grass studies (zonation, species composition)</td>
</tr>
<tr>
<td>Day 14</td>
<td>Akumal</td>
<td>Rocky shoreline and sandy beach ecology</td>
</tr>
<tr>
<td>Day 15</td>
<td>Akumal</td>
<td>Boat dives - fish census (transect &amp; stationary counts)</td>
</tr>
<tr>
<td>Day 16</td>
<td>Akumal</td>
<td>Boat dives - deep reef (spur &amp; groove structure)</td>
</tr>
<tr>
<td>Day 17</td>
<td>Akumal</td>
<td>Cenote dives (hydrology, speleogenesis, biology)</td>
</tr>
<tr>
<td>Day 18</td>
<td>Akumal</td>
<td>Cenote dives (hydrology, speleogenesis, biology)</td>
</tr>
<tr>
<td>Day 19</td>
<td>Akumal</td>
<td>Trip to Mayan ruins at Tulum, Coba (Mayan history and civilization)</td>
</tr>
<tr>
<td>Day 20</td>
<td>Akumal</td>
<td>Offshore trip to swim with whale sharks</td>
</tr>
<tr>
<td>Day 21</td>
<td>Travel day</td>
<td>Van to Cancun, fly to Houston, return to Galveston</td>
</tr>
<tr>
<td>Day 22-28</td>
<td></td>
<td>Post course readings and web based discussions</td>
</tr>
</tbody>
</table>

**Grading:** Classroom and fieldwork participation 25%
Fieldwork research reports 25%
Lecture exam 30%
Online discussion questions 20%
Classroom and Fieldwork participation: Each day, students will complete worksheets to document completion of assigned tasks and to describe their observations. The answers will be discussed in daily de-brief sessions. Each student is expected to communicate their answers to the class. Grading will be based on 1) completeness of the worksheet (10%) and 2) accuracy of the answers (10%) and 3) effective communication to the class (5%).

Grading Scale:
A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = <60

Statement on Absences (Attendance):
Information concerning absences is contained in the University Student Rules Section 7 (http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

Make-up Policy:
If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for the absence. Reasons for absences that are considered excused by the university are found in Student Rule 7 (http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/Disabilities.html.

Academic Integrity
For additional information please visit: http://www.tamug.edu/HonorSystem

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
**Course Change Request**

**Viewing: MARB 400: Biology of Marine Mammals**

Last approved: 04/18/18 3:26 am  
Last edit: 10/10/18 5:05 pm

Changes proposed by: ballr

Catalog Pages referencing this course:
- Department of Marine Biology
- MARB - Marine Biology (MARB)

Programs referencing this course:
- BS-MARB: Marine Biology - BS
- MINOR-MARB: Marine Biology - Minor

**Faculty Senate Number**

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandra Williams</td>
<td><a href="mailto:sandra-williams@tamu.edu">sandra-williams@tamu.edu</a></td>
<td>409-740-4531</td>
</tr>
</tbody>
</table>

Rationale for Course

**Edit**  
The proposed changes are part of a routine curriculum review.

**Course prefix** MARB  
**Course number** 400

**Department** Marine Biology  
**College/School** Galveston Campus  
**Academic Level** Undergraduate  
**Undergraduate course level justification (Select One)**  
**Prerequisites**

*All prerequisites will be enforced through COMPASS.*

**Academic Level (alternate)** Graduate  
**Effective term** 2019-2020 Galveston

**Complete Course Title** Biology of Marine Mammals  
**Abbreviated Course Title** BIOLOGY OF MARINE MAMMAL

Catalog course description:
A broad-spectrum course on the taxonomy, evolution, morphology, behavior, and ecology of marine mammals, including sirenians, carnivores, baleen and toothed whales and dolphins. Junior or senior classification or approval of instructor.

**Prerequisites and Restrictions**
- BIOL 112, MARB 315.

**Concurrent Enrollment** No
Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
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<tr>
<td>And</td>
<td>MARB 315</td>
<td>D</td>
<td>UG</td>
<td>No</td>
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<tr>
<td>And</td>
<td>BIOL 111</td>
<td>D</td>
<td>UG</td>
<td>No</td>
</tr>
</tbody>
</table>

Crosslistings No

Stacked No

Semester 4
Credit 4
Contact Hour(s) 3
Lecture: 3
Lab: 3
Other: 0
Total 6

Repeatable for credit? No
Three-peat? No

CIP/Fund Code 2607010005
Default Grade Mode Letter Grade (G)
Alternate Grade Modes Satisfactory/Unsatisfactory

Method of instruction Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information: Updating Prerequisites and catalog description.

04.17.2018 - edits made to enforce prerequisite table to comply with UCC policy to enforce listed catalog prerequisites, effective fall 2018. -sw

Reviewer Comments:

Terra Bissett (t.bissett) (10/10/18 5:05 pm): Syllabus not required for this type of change.

Terra Bissett (t.bissett) (12/10/18 10:05 am): UCC approved December 2018.

Reported to state: No
Course Change Request

Date Submitted: 08/10/18 2:33 pm

Viewing: **MARB 433 : Applied Bioinformatics**

Last approved: 06/23/17 3:17 am

Last edit: 12/12/18 2:50 pm

Changes proposed by: ballr

Catalog Pages referencing this course:

<table>
<thead>
<tr>
<th>Department of Marine Biology</th>
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</thead>
<tbody>
<tr>
<td>MARB - Marine Biology (MARB)</td>
</tr>
</tbody>
</table>

**Contact(s)**

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel Ball</td>
<td><a href="mailto:ballr@tamug.edu">ballr@tamug.edu</a></td>
<td>409-740-4531</td>
</tr>
</tbody>
</table>

**Rationale for Course**

**Edit**

*The proposed changes are part of a routine curriculum review.*

*The proposed changes are to meet the demand/interest of students.*

**Course prefix**  MARB  **Course number**  433

**Department**  Marine Biology

**College/School**  Galveston Campus

**Academic Level**  Undergraduate

**Undergraduate course level justification (Select One)**

**Prerequisites**

*All prerequisites will be enforced through COMPASS.*

**Effective term**

2019-2020 2017-2018

**Complete Course Title**

Applied Bioinformatics

**Abbreviated Course Title**

APPLIED BIOINFORMATICS

**Catalog course description**

Fundamental concepts and methods in bioinformatics using sequence analysis and practical applications; includes biological databases, sequence and structure alignments, structural bioinformatics, gene prediction and genome analysis; emphasis on understanding and application of these concepts.

**Prerequisites and Restrictions**

MARB 301; junior or senior classification or approval of instructor.

**Should catalog prerequisites / concurrent enrollment be enforced?**

Yes
### Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrently With</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>MARB 301</td>
<td>D</td>
<td>UG</td>
<td></td>
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</table>

Crosslisted With

Stacked With MARB 633 - Applied Bioinformatics

<table>
<thead>
<tr>
<th>Semester Credit Hour(s)</th>
<th>Contact Hour(s) (per week):</th>
<th>Lecture: 3</th>
<th>Lab: 3</th>
<th>Other: 0</th>
<th>Total: 6</th>
</tr>
</thead>
</table>

Repeatable for credit? No

CIP/Fund Code 2611030002

Default Grade Mode Letter Grade (G)

Method of instruction Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

- Required (select program)
Elective (select program)

<table>
<thead>
<tr>
<th>Program(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BS-MARF) Marine Fisheries - BS</td>
</tr>
<tr>
<td>(BS-MARB) Marine Biology - BS</td>
</tr>
</tbody>
</table>

Has/will this course be (en) submitted for core curriculum consideration? No

Has/will this course be (en) submitted for Writing or Communication consideration? No

Has/will this course be (en) submitted for ICD or CD consideration? No

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

- MARB-433- Bioinformatics_Syllabus (Spring 2018).pdf

Letters of support or other documentation No Yes

Additional information Updated syllabus now attached.

Adding lab to course to go from 3 credit hours to 4 credit hours.

Reviewer Comments

Terra Bissett (t.bissett) (08/09/18 3:34 pm): Rollback: Syllabus: Please include reference to university excused absences under later submission penalty.

Terra Bissett (t.bissett) (08/13/18 9:03 am): Updates received.

Sandra Williams (sandra-williams) (11/05/18 2:46 pm): UCC approved November 2018.

Betsy Peterson (betsypeterson) (12/12/18 2:50 pm): Rollback: Left off of December agenda; needs to be on January 2019 agenda.
FYI

John R. Schwarz, Regents Professor and Head
Department of Marine Biology
Director, Seafood Safety Laboratory
Texas A&M University, Galveston Campus
P.O. Box 1675, OCSB Room 268
Galveston, Texas 77553-1675

(409) 740-4453 (voice)
(409) 740-5001 (fax)
schwarzj@tamug.edu

“There is no medicine like hope, no incentive so great and no tonic so powerful as the expectation of something better tomorrow” Anonymous

Dear Professor Schwarz,

I examined the syllabus for your proposed course and the course seems to have very little overlap with the material covered in the bioinformatics course taught in our department. Thus, the Department of Statistics has no objection to the course, Applied Bioinformatics, to be offered by your department.

Best,

Michael

Dr. Michael Longnecker
Professor/Associate Department Head
Holder of the George P. Mitchell ’40 Chair in Statistics
Department of Statistics
Texas A&M University-CS
979-845-3141
Drs. Johnson and Longnecker,

The Marine Biology Department is proposing to offer a new course(s), “Applied Bioinformatics”, at both the undergraduate (MARB 433) and graduate (MARB 633) levels. If approved, these stacked courses would officially be offered in FY 2018. The courses primarily emphasize analysis and application of data and not statistical theory. A syllabus for each course is attached for your review. Your Department’s comments are requested.

Please contact me should clarification be needed.

Regards,

John R. Schwarz, Regents Professor and Head
Department of Marine Biology
Director, Seafood Safety Laboratory
Texas A&M University, Galveston Campus
P.O. Box 1675, OCSB Room 268
Galveston, Texas 77553-1675

(409) 740-4453 (voice)
(409) 740-5001 (fax)
schwarzj@tamug.edu

“There is no medicine like hope, no incentive so great and no tonic so powerful as the expectation of something better tomorrow” Anonymous
Thanks for reaching out to Wayne, John. As long as Biology has no objection, I certainly don’t.

Best,

Tim

Dear Dr. Schwarz,

Thank you for your descriptions of the MARB 433/633 courses and the expected student clientele. I also appreciate the background information on how courses are reviewed/approved at our sister campuses. The Department of Biology will have no objection to your offering these courses.

Best regards,
Wayne Versaw

Wayne K. Versaw
Associate Head for Academic Affairs
Department of Biology
Texas A&M University
3258 TAMU
College Station, TX 77843-3258

Tel: 979-847-8587
Fax: 979-845-2891
wversaw@tamu.edu
Course title and number: MARB 433 – Applied Bioinformatics
Term: Spring 2020
Meeting times and location:
- Tuesday and Thursday, 9:35-10:50 am, CLB 112 (lectures)
- Wednesday 2:00-4:50, PMEC 242 (lab)

Course Description and Prerequisites

Fundamental concepts and methods in bioinformatics using sequence analysis and practical applications; includes biological databases, sequence and structure alignments, structural bioinformatics, gene prediction and genome analysis; emphasis on the understanding and application of these concepts.

With growing amount of sequence data generated, the main objective of this course is to help the students in being able to use cutting-edge bioinformatics tools to solve problems from their own research and in their professional work.

For the assignments, graduate students will have the opportunity to work with their own sequence data to advance their research project instead of the provided data.

Prerequisites: MARB 301; Junior or Senior classification or approval of instructor

This course does assume that the students have some familiarity with the use of computers and the internet.

Learning Outcomes or Course Objectives

1. Identify the challenges and opportunities in bioinformatics applications.
2. Use computational tools to study biological systems.
3. Apply different computer programs and methodologies for various biological analyzes.
4. Describe and differentiate common algorithms for studying and processing biological sequence data.
5. Define the corresponding data needed for addressing specific bioinformatics questions.
6. Analyze and discuss the results for biological applications.

Instructor Information

Name: Dr. Jessica Labonté
Telephone number: (409) 740-4921
Email address: labontej@tamug.edu
Office hours: Anytime, by appointment
Office location: OSCB 267
Textbook and/or Resource Material

There are no required textbooks for this course. Weekly readings will be posted on eCampus at least the week before class.

Suggested textbooks:

Grading Policies

<table>
<thead>
<tr>
<th>Assignment</th>
<th>%</th>
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<tbody>
<tr>
<td>Assignment #1 (BLAST, multiple sequence alignment, and phylogenetic analysis)</td>
<td>15</td>
</tr>
<tr>
<td>Assignment #2 (Community analysis)</td>
<td>15</td>
</tr>
<tr>
<td>Assignment #3 (Gene syntheny)</td>
<td>10</td>
</tr>
<tr>
<td>Assignment #4 (Protein structure)</td>
<td>10</td>
</tr>
<tr>
<td>Exercises</td>
<td>5</td>
</tr>
<tr>
<td>Group project (laboratory)</td>
<td>25</td>
</tr>
<tr>
<td>Final examination</td>
<td>20</td>
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<table>
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<th>A: 90-100</th>
<th>B: 80-89</th>
<th>C: 70-79</th>
<th>D: 60-69</th>
<th>F: &lt;60</th>
</tr>
</thead>
</table>

Late submissions for any assignment incur a 10% penalty for each day the submission is late. Please see the Make-Up Policy listed below.
<table>
<thead>
<tr>
<th>Week</th>
<th>Topic - Lectures</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Syllabus, Introduction and getting familiar with computer environments Linux and R</td>
<td>Exercise on Linux</td>
</tr>
<tr>
<td>2</td>
<td>Linux and R part 2 Biological databases</td>
<td>Exercise on R</td>
</tr>
<tr>
<td>3</td>
<td>Pairwise sequence alignment Database similarity searching</td>
<td>Exercise on database and similarity searching</td>
</tr>
<tr>
<td>4</td>
<td>Multiple sequence alignment</td>
<td>Exercise on multiple sequence alignment</td>
</tr>
<tr>
<td>5</td>
<td>Phylogenetic reconstruction methods</td>
<td>Exercises on phylogeny</td>
</tr>
<tr>
<td>6</td>
<td>Sequencing technologies and handling sequence data Metagenomics and transcriptomics (functional genomics)</td>
<td>Group Project - session #1 (Identify the objectives and hypotheses)</td>
</tr>
<tr>
<td></td>
<td><strong>Assignment #1 is due by Friday</strong></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>How to install softwares Community diversity analysis</td>
<td>Group Project – Session #2 Data handling and quality control</td>
</tr>
<tr>
<td>8</td>
<td>Genome mapping and assembly</td>
<td>Group Project – Session #3 Assembly</td>
</tr>
<tr>
<td></td>
<td><strong>Assignment #2 is due by Friday</strong></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Gene syntheny and horizontal gene transfer Exercise on gene syntheny</td>
<td>Group Project – Session #4 Binning</td>
</tr>
<tr>
<td>10</td>
<td>Gene prediction</td>
<td>Group project – Session #5 Gene prediction and annotations</td>
</tr>
<tr>
<td></td>
<td><strong>Assignment #3 is due by Friday</strong></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Protein structure Protein structure and visualization</td>
<td>Exercise on protein structure</td>
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<tr>
<td>12</td>
<td>Finding motifs Promoter and regulatory elements prediction</td>
<td>Group Project - Session #6 Data analysis part I</td>
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<td><strong>Assignment #4 is due by Friday</strong></td>
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<td>13</td>
<td>RNA structure prediction</td>
<td>Group project – Session #7 Data analysis part II</td>
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<tr>
<td>14</td>
<td>Group Project final presentations</td>
<td>Exercise on RNA structure prediction</td>
</tr>
<tr>
<td></td>
<td><strong>Final report for the Group Project is due by Friday</strong></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Review for final examination</td>
<td></td>
</tr>
</tbody>
</table>

*This schedule is subject to minor changes, depending on the progression of the class.*
Attendance and make-up policies

Information concerning absences is contained in the University Student Rules Section 7 (http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

Make-up Policy

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class for which a University excused absence has been issued by the Vice President for Academic Affairs.
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days:
      Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days:
      Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:
      (i) Texas A&M University Explanatory Statement for Absence from Class form available at http://www.tamug.edu/stulife/Absence%20Statement.pdf or (ii) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation.
Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit [http://www.tamug.edu/counsel/Disabilities.html](http://www.tamug.edu/counsel/Disabilities.html).

Academic Integrity

For additional information please visit: [http://www.tamug.edu/HonorSystem](http://www.tamug.edu/HonorSystem)

“An Aggie does not lie, cheat, or steal, or tolerate those who do.”
MEMORANDUM

TO: Mr. Michael K. Young  
President

FROM: Dr. Karan L. Watson  
Provost and Executive Vice President

SUBJECT: December 12, 2016 Faculty Senate Items

All of the attached December 2016 Faculty Senate items have been reviewed and approved by college, university curriculum, Faculty Senate and Office of the Provost.

New Course Requests, Course Change Requests, Course Withdrawal Requests, Change in Curriculum Requests, W-Courses

Approval recommended. FS.34.141; FS.34.142; FS.34.143; FS.34.145; FS.34.146; FS.34.147; FS.34.148; FS.34.160; FS.34.161; FS.34.162; FS.34.163; FS.24.164; FS.34.165; FS.34.166; FS.34.167; FS.34.168; FS.34.169; FS.34.170; FS.34.171; FS.34.172; FS.34.173; FS.34.174; FS.34.175; FS.34.176; FS.34.181; FS.34.182; FS.34.183; FS.34.184; FS.34.185; FS.34.186; FS.34.187; FS.34.188; FS.34.189; FS.34.190; FS.34.191; FS.34.192; FS.34.193; FS.34.194; FS.34.195; FS.34.196; FS.34.197; FS.34.198; FS.34.199; FS.34.200; FS.34.201; FS.34.202; FS.34.203; FS.34.204; FS.34.205; FS.34.206; FS.34.207; FS.34.208; FS.34.209; FS.34.210; FS.34.211; FS.34.212; FS.34.213; FS.34.214; FS.34.215; FS.34.216; FS.34.217; FS.34.218; FS.34.219; FS.34.220; FS.34.221; FS.34.222; FS.34.238; FS.34.240; FS.34.242; FS.34.243.

FS.34.144: Approval recommended. Course Inactivation’s—The focus for the graduate program that required these courses has changed to research.

FS.34.149: Approval recommended. New graduate certificate request. School of Public Health, Certificate for Health Coaching for Chronic Disease Prevention and Management requires 12 SCH, on-campus and 100% distance delivery. Per Texas Administrative Code [TAC] Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.150: Approval recommended. New graduate certificate request. Mays Business School, Certificate in Data Analysis requires 12 SCH, on-campus delivery. Per Texas Administrative Code [TAC] Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.151: Approval recommended. New graduate certificate request. Mays Business School, Certificate in Finance requires 12 SCH, on-campus delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.
FS.34.152: Approval recommended. New graduate certificate request. Mays Business School, Certificate in Marketing requires 12 SCH, on-campus delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.153: Approval recommended. New graduate certificate request. Mays Business School, Certificate in Supply Chain and Operations requires 12 SCH, on-campus delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.154: Approval recommended. New graduate certificate request. College of Agriculture and Life Sciences, Certificate in Extension Education requires 14 SCH, on-campus and 80% DE/Internet delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.155: Approval recommended. New graduate certificate request. College of Agriculture and Life Sciences, Certificate in Advanced Pedagogy in Agriculture requires 14 SCH, on-campus and 100% DE/Internet delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum SCH that require THECB approval. Effective fall 2017.

FS.34.156: Approval recommended. New graduate certificate request. College of Engineering, Certificate in Nuclear Security requires 12 SCH, on-campus and 80% DE/Internet delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.157: Approval recommended. New graduate certificate request. College of Liberal Arts, Certificate in International Communication and Public Diplomacy requires 12 SCH, on-campus delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.158: Approval recommended. New graduate certificate request. Mays Business School, Certificate in Business Intelligence and Analytics requires 12 SCH, on-campus delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.159: Approval recommended. New graduate certificate request. Bush School of Government & Public Service, Certificate in Public Management requires 12 SCH, on-campus and 100% DE/Internet delivery. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. Effective fall 2017. No action required.

FS.34.177: Approval recommended. Request to add a concentration. College of Agriculture & Life Sciences, BS in Agricultural Economics-Food Marketing Systems Concentration. Request does not change total SCH [120]. No action required.

FS.34.178: Approval recommended. Request to add an option. College of Agriculture & Life Sciences, BS in Agricultural Economics-Finance & Real Estate Option. Request does not change total SCH [120]. No action required.
FS.34.179: Approval recommended. Request to add an option. College of Agriculture & Life Sciences, BS in Policy and Economic Analysis Option. Request does not change total SCH [120]. No action required.

FS.34.180: Approval recommended. Request to add an option. College of Agriculture & Life Sciences, BS in Rural Entrepreneurship Option. Request does not change total SCH [120]. No action required.

FS.34.223: Approval recommended. Request to add a new concentration. College of Liberal Arts, BS in University Studies–Health Humanities Concentration. Request does not change total SCH [120]. No action required.

FS.34.224: Approval recommended. New undergraduate certificate. College of Liberal Arts, Certificate in Healthy Development requires 15 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. No action required.

FS.34.225: Approval recommended. New undergraduate certificate. College of Engineering, Certificate in Zachry Leadership requires 15 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. No action required.

FS.34.226: Approval recommended. New undergraduate certificate. College of Liberal Arts, Certificate in Work and Organizations requires 15 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. No action required.

FS.34.227: Approval recommended. New undergraduate certificate. College of Liberal Arts, Certificate in Applied Behavioral Health requires 15 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. No action required.

FS.34.228: Approval recommended. New undergraduate certificate. College of Engineering, Certificate in Petroleum Ventures requires 25 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate surpasses the maximum allowed SCH.

**EXTERNAL ACTION:** A 50-mile notification will be sent and the THECB *New Program Request Form for Certificate Programs* will be submitted to the System by the Office of the Provost after approval.

FS.34.229: Approval recommended. New undergraduate certificate. College of Liberal Arts, Certificate in Psychology of Diversity requires 15 SCH. Per TAC Title 19, Chapter 5, Subchapter C, Rule §5.48 the certificate does not surpass the maximum allowed SCH. No action required.

FS.34.230: Approval recommended. New undergraduate minor. College of Agriculture & Life Sciences, Minor in AgriFood Sales requires 16 SCH. Does not surpass maximum allowed. No action required.


FS.34.233: Approval recommended. College of Liberal Arts, proposal to inactivate Gender and Leadership Certificate. There are four students currently enrolled in the program with a projected graduation date of 5/2018.
EXTERNAL ACTION: Send notification to SACSCOC.

FS.34.234: Approval recommended. College of Liberal Arts, proposal to inactivate Global Perspectives in Liberal Arts Certificate. Program inactivation due to lack of interest. There are no students currently enrolled in the program.
EXTERNAL ACTION: Send notification to SACSCOC.

FS.34.235: Approval recommended. College of Liberal Arts, proposal to inactivate Global Sociology Certificate. Program inactivation due to lack of interest. There are two students currently enrolled in the program with a graduation date of 5/2018.
EXTERNAL ACTION: Send notification to SACSCOC.

FS.34.236: Approval recommended. College of Liberal Arts, proposal to inactivate Sociology of Gender Certificate. Program inactivation due to lack of interest. There are three students currently enrolled in the program with a graduation date of 5/2018.
EXTERNAL ACTION: Send notification to SACSCOC.

FS.34.237: Approval recommended. College of Liberal Arts, proposal to Inactivate Sociology of Race and Ethnicity Certificate. Program inactivation due to lack of interest. There are two students currently enrolled in the program with a graduation date of 5/2018.
EXTERNAL ACTION: Send notification to SACSCOC.

FS.34.239: Approval recommended. Six courses for Core Curriculum Language, Philosophy and Culture foundational component; two courses for Creative Arts foundational component; one course for Life and Physical Sciences foundational component; two International and Cultural Diversity designation; and seven courses submitted for recertification as Core Curriculum.

FS.34.241: Approval recommended. School of Law special consideration regarding Pass/Fail grading. Request establishes a new grading scheme for electives to better reflect the rigor demanded without lowering the standards for classes that students elect to take on a pass/fail basis. The grading scheme will be a grading option for all elective Law School courses and only applies to the Juris Doctor Program.

FS.34.244: Approval recommended. College of Veterinary Medicine & Biomedical Sciences, curriculum change for the Doctor of Veterinary Medicine in Veterinary Medicine. The request will balance out a discrepancy in SCH between the catalog, COMPASS, and the THECB Program Inventory.
EXTERNAL ACTION: A Request to Change the Semester Hours form will be submitted to the THECB.

FS.34.245: Approval recommended. Student Rule 14.1—Degree requirements.

FS.24.246: Review Only: Certification of December 2016 Graduates

Attachments
Course Change Request

Date Submitted: 10/22/18 4:58 pm

Viewing: MARB 460: Fisheries Population Dynamics

Last approved: 04/18/18 3:26 am
Last edit: 10/23/18 4:18 pm

Changes proposed by: ballr

Catalog Pages referencing this course:
- Department of Marine Biology
- MARB - Marine Biology (MARB)

Programs referencing this course:
- BS-MARF: Marine Fisheries - BS

Rationale for Course

The proposed changes are part of a routine curriculum review.

Course prefix: MARB  Course number: 460

Department: Marine Biology
College/School: Galveston Campus
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Prerequisites: All prerequisites will be enforced through COMPASS.

Academic Level (alternate)
- Graduate

Effective term:
- 2019-2020
- 2018-2019

Galveston

Complete Course Title
- Fisheries Population Dynamics

Abbreviated Course Title
- FISHERIES POPULATION DYN

Catalog course description
- An introduction to the behavior of populations. Classical and recent population theories will be discussed in lecture. Principles in lab, extant and concepts of population dynamics related programs written by students will be used to fish; methods of estimating abundance, mortality, recruitment and sustainable harvest levels; introduction to models for population analysis with emphasis on stock assessments and quantitative fisheries; basic computer programming to explore population behavior and interactions. Senior classification or approval of instructor.

Prerequisites and Restrictions
- MATH 142, MATH 147, or MATH 151; MARB 311 or approval of instructor. MATH 151 is recommended.

Faculty Senate Number

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
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<tbody>
<tr>
<td>Rachel Ball</td>
<td><a href="mailto:ballr@tamug.edu">ballr@tamug.edu</a></td>
<td>409-740-4531</td>
</tr>
</tbody>
</table>

Approval Path

1. 10/22/18 5:15 pm
   Jaime Alvarado-Bremer (jaimeab): Approved for MARB Department Head

2. 10/23/18 4:19 pm
   Terra Bissett (t.bissett): Approved for Curricular Services Review

3. 10/30/18 2:30 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

4. 11/06/18 3:23 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG

5. 11/07/18 3:38 pm
   Donna Lang (langd): Approved for GV College Dean UG

6. 11/08/18 8:25 am
   Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/10/18 10:05 am
   Terra Bissett (t.bissett): Approved for UCC Chair

History

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History
Concurrent Enrollment: No
Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
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<tbody>
<tr>
<td>And</td>
<td>MATH 142</td>
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<tr>
<td>Or</td>
<td>MATH 147</td>
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<tr>
<td>Or</td>
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<tr>
<td>And</td>
<td>MARB 311</td>
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<td>UG</td>
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</tbody>
</table>

Crosslistings: No
Stacked: No

Semester: 4
Credit Hour(s): 4
Contact Hour(s) (per week): Lecture: 3, Lab: 3, Other: 0, Total: 6
Repeatable for credit? No
Three-peat? No
CIP/Fund Code: 0303010005
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture and Laboratory
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No

Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

<table>
<thead>
<tr>
<th>Program(s)</th>
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<tbody>
<tr>
<td>(BS-MARF) Marine Fisheries - BS</td>
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</table>

Elective (select program)

<table>
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<td>(BS-MARB) Marine Biology - BS</td>
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</table>

Has/will this course be(e)n submitted for core curriculum consideration? No
Course Syllabus

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation: No

Additional information: 04.17.2018—edits made to enforce prerequisite table to comply with UCC policy to enforce listed catalog prerequisites, effective fall 2018. sw


Reported to state: No
Course Change Request

 Viewing: MARE 313 : Heat Transfer

Contact(s)

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Matthew Kane</td>
<td><a href="mailto:kanem@tamug.edu">kanem@tamug.edu</a></td>
<td>409-740-4878</td>
</tr>
<tr>
<td>Matthew Carroll</td>
<td><a href="mailto:carrollm@tamug.edu">carrollm@tamug.edu</a></td>
<td>409-740-4473</td>
</tr>
</tbody>
</table>

Rationale for Course Edit

The proposed changes are part of a routine curriculum review.

Course prefix   MARE  
Course number   313  
Department      Marine Engineering Technology  
College/School  Galveston Campus  
Academic Level  Undergraduate  

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Effective term  2019-2020 Galveston

Complete Course Title  Heat Transfer

Abbreviated Course Title  HEAT TRANSFER

Catalog course description

Fundamentals of introduction to heat transfer; basic heat transfer modes and different solution techniques; introduction to 1-D and 2-D heat conduction in transient and steady state conditions; fundamentals of convection heat transfer under different flow conditions; forced convection in internal and external flows; analysis and selection of heat exchangers; and, introduction to thermal radiation heat transfer.

Prerequisites and Restrictions

MARE 202, 261 and MARE 261, and MARE 305 or concurrent enrollment.

Should catalog prerequisites / concurrent enrollment be enforced?  Yes

Catalog Pages referencing this course

Department of Marine Engineering Technology
MARE - Marine Engr Technology (MARE)

Programs referencing this course

BS-MARR: Marine Engineering Technology - BS
BS-MARR-LIO: Marine Engineering Technology - BS, License Option

As A Banner Prerequisite:

In Workflow

1. MARE Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate Chair
10. Provost II
11. President
12. Curricular Services
13. Banner

Approval Path

1. 10/24/18 10:06 am  
   Matt Kane (kanem): Approved for MARE Department Head
2. 10/24/18 11:40 am  
   Terra Bisset (t.bisset): Rollback to Initiator
3. 11/02/18 7:29 am  
   Matthew Carroll (carrollm): Approved for MARE Department Head
4. 11/02/18 8:40 am  
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
5. 11/02/18 11:29 am  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
6. 11/02/18 11:30 am  
   Meredith Zalesak (zalesakm): Rollback to GV Committee Preparer UG for GV Committee Chair UG
7. 11/02/18 2:06 pm  
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
8. 11/06/18 3:16 pm  
   Meredith Zalesak (zalesakm): Approved
Enforced Prerequisites / Concurrent Enrollment

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<td>D</td>
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<tr>
<td>And</td>
<td>MARE 261</td>
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<tr>
<td>And</td>
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</tbody>
</table>

Crosslistings: No
Crosslisted With: No
Stacked: No
Stacked with: No

Semester: 3
Credit: 3
Hour(s): (per week):
Lecture: 3
Lab: 0
Other: 0
Total: 3

Repeatable for credit?: No
CIP/Fund Code: 1412010006
Default Grade Mode: Letter Grade (G)
Method of instruction:
- Lecture
- Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No

Will this course be taught as a distance education course?: No

Is 100% of this course going to be taught in Texas?: Yes

Will classroom space be needed for this course?: Yes

This will be a required course or an elective course for the following programs:

<table>
<thead>
<tr>
<th>Program(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BS-MARR) Marine Engineering Technology - BS</td>
</tr>
<tr>
<td>(BS-MARR-LIO) Marine Engineering Technology - BS, License Option</td>
</tr>
</tbody>
</table>
### Course Syllabus

<table>
<thead>
<tr>
<th>Syllabus:</th>
<th>Upload syllabus</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>![MARE 313 Syllabus _1.pdf](MARE 313 Syllabus _1.pdf)</td>
</tr>
</tbody>
</table>

| Letters of support or other documentation | No |

| Additional information | Changing course to 3 hours of lecture, 0 of lab to reflect preferences of current instructor; shifting lab hours to MARE 402 |

| Reviewer Comments | Terra Bissett (t.bissett) (10/24/18 11:40 am): Rollback: Please attach updated syllabus.  
Sandra Williams (sandra-williams) (11/02/18 8:40 am): Update received. Moving forward, however, committee may want "Introduction" removed from the description as this is a 300-level course.  
Meredith Zalesak (zalesakm) (11/02/18 11:30 am): Rollback: Edit catalog description.  
Meredith Zalesak (zalesakm) (11/02/18 2:06 pm): Edited Course Description and Updated Syllabus.  
Terra Bissett (t.bissett) (12/10/18 10:05 am): UCC approved December 2018. |
MARE 313
Heat Transfer Course Syllabus

MARE 313  Heat Transfer - Fall 2018
Lecture MWF 3:00 PM to 3:50 PM; PMEC Room 146; Labs will be held in both PMEC Room 146 and PMEC Room 172 (Further Information concerning Heat Transfer Labs will be discussed in Class as briefly noted in this syllabus)

Outline: Introduction to heat transfer; basic heat transfer modes and different solution techniques. Introduction to one dimensional, two dimensional, and introduction to three dimensional states of heat transfer. These dimensional geometrical states will be applied to heat conduction as it relates to steady state and transient state heat transfer; fundamentals of forced convection for internal and external flows, concerning both laminar and turbulent fluid states; natural convection heat transfer; condensation and boiling heat transfer; thermal design, analysis, rating and selection of heat exchangers; and finally introduction to thermal radiation heat transfer. Heat transfer methods of analysis that will be used for solving heat transfer problems will consist of conventional closed form analytical engineering mathematical methods, empirical engineering mathematical methods, and engineering mathematical numerical methods.

Catalog Description
Fundamentals of heat transfer modes and different solution techniques; 1-D and 2-D heat conduction in transient and steady state conditions; convection heat transfer under different flow conditions; forced convection in internal and external flows; analysis and selection of heat exchangers; and, thermal radiation heat transfer.

Learning Outcomes: This course is intended to introduce the students to the fundamentals of heat transfer, recognition of heat transfer modes and apply analytical and numerical techniques to solve heat transfer problems that they encounter in their career as an engineer. ABET Criterion met by MARE 313 “Heat Transfer”; Outcome A, Tool A3; Outcome B, Tool B1, B3; outcome O, Tool O3: Course Credit: 3 Hours

Outcomes: Upon completion of this course, students will be able to identify the heat transfer problem, distinguish between the different modes of heat transfer and identify the best possible solution techniques to maximize the performance of thermal systems subject to heat transfer affects.

Prerequisites: MARE 202, MARE 261 and MARE 305 or concurrent enrollment

Co-requisite: MARE 305 (Fluid Mechanics)

### Chapter Number | Weeks | Topics to be Covered
--- | --- | ---
1 | 1 | **Chapter 1**: Introduction:  
   a. Conduction Heat Transfer  
   b. Thermal Conductivity  
   c. Convection Heat Transfer  
   d. Radiation Heat Transfer

2,3,4 | 2-5 | **Chapter 2**: Steady State Conduction Heat Transfer (One Dimensional):  
   a. The Plane wall  
   b. Insulation and the R values  
   c. Radial Systems – Cylinders  
   d. Overall Heat Transfer Coefficient (U)  
   e. Critical thickness of Insulation  
   f. Heat source systems  
   g. Conduction / Convection systems  
   h. Fins (i.e.) Extended Surfaces  
   i. Thermal Contact Resistance

2,3,4 | 2-5 | **Chapter 3**: Steady State conduction in Multiple Directions  
   a. Mathematical analysis of two dimensional heat conduction  
   b. Graphical Analysis and Methods  
   c. The conduction shaper factors  
   d. Numerical method of analysis

2,3,4 | 2-5 | **Chapter 4**: Unsteady Heat Transfer  
   a. Lumped Heat Capacity Method or Lumped Sum Heat Capacity Method  
   b. Convection boundary conditions and the Heisler Charts  
   c. Multidimensional systems

5,6,7 | 6-9 | **Chapter 5**: Principles of convection  
   a. Viscous flow  
   b. Inviscid flow  
   c. Laminar boundary layer on a flat plate  
   d. Energy equation of the boundary layer  
   e. The thermal boundary layer  
   f. The relations between fluid friction and heat transfer  
   g. Turbulent boundary layer thickness  
   h. Heat transfer in laminar tube flow  
   i. Turbulent flow in a tube
<table>
<thead>
<tr>
<th>Chapter 6: Empirical and Practical relations for forced convection heat transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Empirical relations for pipe and tube flow</td>
</tr>
<tr>
<td>b. Flow across cylinders and spheres</td>
</tr>
<tr>
<td>c. Flow across tube banks</td>
</tr>
<tr>
<td><strong>Chapter 7:</strong> Natural convection systems</td>
</tr>
<tr>
<td>a. Free convection on a vertical flat plate</td>
</tr>
<tr>
<td>b. Empirical relations for free convection</td>
</tr>
<tr>
<td>c. Free convection from vertical planes and cylinders</td>
</tr>
<tr>
<td>d. Free convection from horizontal cylinders</td>
</tr>
<tr>
<td>e. Free convection from horizontal plates</td>
</tr>
<tr>
<td>f. Free convection from inclined surfaces</td>
</tr>
</tbody>
</table>

| 9, 10 | 10-12 | **Special Note:** We will cover the last three (3) Heat Transfer book chapters in the following order of Chapter 10, then Chapter 9 and finally Chapter 8 |

<table>
<thead>
<tr>
<th>Chapter 10: Heat Exchangers</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. The Overall heat transfer coefficient</td>
</tr>
<tr>
<td>b. Fouling Factors</td>
</tr>
<tr>
<td>c. Types of Heat Exchangers</td>
</tr>
<tr>
<td>d. The log mean temperature difference</td>
</tr>
<tr>
<td>e. Effective NTU (Number of Transfer Units) method</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter 9: Condensation and boiling heat transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Condensation heat transfer phenomena</td>
</tr>
<tr>
<td>b. The condensation number</td>
</tr>
<tr>
<td>c. Film condensation inside horizontal tubes</td>
</tr>
<tr>
<td>d. Boiling heat transfer</td>
</tr>
<tr>
<td>e.</td>
</tr>
</tbody>
</table>

| 8 | 13-14 | Chapter 8: Radiation Heat Transfer |
|------------------------------------|
| a. Physical mechanism              |
| b. Radiation properties            |
| c. Radiation shape factor           |
| d. Relations between shape factors  |
| e. Heat exchange between nonblack bodies | |

Note that there may be some variations in the length of the time for topic coverage as declared in the chart of “Topics to be Covered” which appears above.

**Text Reading:** Assigned such as to correlate with lecture

**Note:** There will be no formerly graded homework assignments. Recommended problems from the text will be assigned and it is the responsibility of the student to work on those assigned heat transfer problems. The best way to master the subject matter of heat transfer is by solving a multitude of problems where the theoretical and applied nature of heat transfer becomes part of your intellectual
engineering knowledge base. Further, in order to master the subject matter of Heat Transfer, it is imperative that you study with focused attentions the section in Dr. Holman’s Heat Transfer text that I cover in class and the many problems that I will solve in the class lecture series!!!!!!!!!

**Laboratory Experiments:** Information concerning laboratory experiments will be discussed in class

**Exams:** Exams will consist of two (2) exams and a final exam. Exam dates will be scheduled two (2) weeks prior to the exam and posted on the lecture black board or dry eraser board.

**Grading Criteria:**

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>33.33%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>33.33%</td>
</tr>
<tr>
<td>Final exam</td>
<td>33.33%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>≈100</strong></td>
</tr>
</tbody>
</table>

**Numerical Grading Scheme:**

A (100-90), B (89-80), C (79-70), D (69-60), F (59 and below)

**Other Course Syllabus Criteria**

**Absences**
Information concerning absences can be found in the University Student Rules Section 7. The university views class attendance as an individual student responsibility. **All students are expected to attend class and to complete all assignments.**

Criteria as dictated by the Texas A&M System that may appear in literature for the course:

**Americans with Disabilities Act (ADA) Policy Statement**
The Americans with Disabilities Act (ADA) is a federal non-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this law requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit [http://www.tamug.edu/counsel/Disabilities.html](http://www.tamug.edu/counsel/Disabilities.html)
**Academic Integrity Statement and Policy**

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

All syllabi should contain a section that states the above Aggie Honor Code and refers the student to the Honor Council Rules and Procedures on the web: [http://www.tamug.edu/HonorSystem](http://www.tamug.edu/HonorSystem).

It is further recommended that instructors print the following on assignment and examinations:

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”

[Signature of the Student]

**Statement on Absences**

Information concerning absences is contained in the University Student Rules Section 7. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

[http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html](http://www.tamug.edu/stulife/Academic_Rules/7_Attendance.html)

**Statement on the Family Educational Rights and Privacy Act (FERPA)**

FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office.

Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

**Statement on Course Evaluations**

The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at [http://pica.tamu.edu](http://pica.tamu.edu), your howdy portal, or by scanning

**Student Rules**

[http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)
Course Change Request

Date Submitted: 10/25/18 12:57 pm

Viewing: **MARE 402: Shipboard Automation and Control**

Last approved: 04/18/18 3:26 am

Last edit: 10/25/18 12:57 pm

Changes proposed by: carrollm

<table>
<thead>
<tr>
<th>Catalog Pages referencing this course</th>
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<tbody>
<tr>
<td>Department of Marine Engineering Technology</td>
</tr>
<tr>
<td>MARE - Marine Engr Technology (MARE)</td>
</tr>
</tbody>
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<table>
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</tr>
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</table>

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matthew Kane</td>
<td><a href="mailto:kanem@tamug.edu">kanem@tamug.edu</a></td>
<td>409-740-4878</td>
</tr>
<tr>
<td>Matthew Carroll</td>
<td><a href="mailto:carrollm@tamug.edu">carrollm@tamug.edu</a></td>
<td>409-740-4473</td>
</tr>
</tbody>
</table>

Rationale for Course

Edit

This proposed changes are to meet professional certification requirements.

Course prefix MARE Course number 402

Department Marine Engineering Technology

College/School Galveston Campus

Academic Level Undergraduate

Undergraduate course level justification (Select One)

Effective term **2019-2020 2018-2019**

Galveston

Complete Course Title Shipboard Automation and Control

Abbreviated Course Title

SHIPBOARD AUTOMATION

Catalog course description

Study of automation in marine power plants; including electronic and pneumatic proportional, integral and derivative control elements; applications in boiler combustion and water level control; engine speed control; remote sensing and performance monitoring systems. Junior or senior classification or approval of instructor.

Prerequisites and Restrictions

MARE 307, MARE 307, 311, 312.

Should catalog prerequisites / concurrent enrollment be enforced? Yes

In Workflow

1. MARE Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services
13. Banner

Approval Path

1. 10/24/18 10:06 am
   Matt Kane (kanem): Approved for MARE Department Head
2. 10/24/18 11:41 am
   Terra Bissett (t.bisset): Rollback to Initiator
3. 10/24/18 11:15 pm
   Matthew Carroll (carrollm): Approved for MARE Department Head
4. 10/25/18 11:27 am
   Terra Bissett (t.bisset): Rollback to Initiator
5. 10/25/18 12:58 pm
   Matthew Carroll (carrollm): Approved for MARE Department Head
6. 10/25/18 1:20 pm
   Terra Bissett (t.bisset): Approved for Curricular Services Review
7. 10/25/18 5:32 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
8. 11/06/18 3:17 pm
   Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG
9. 11/07/18 3:39 pm
   Donna Lang (langd):...
Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>)</th>
<th>Concurrency?</th>
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<tbody>
<tr>
<td>And</td>
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<td>D</td>
<td>UG</td>
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<tr>
<td>And</td>
<td>MARE 311</td>
<td>D</td>
<td>UG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>And</td>
<td>MARE 312</td>
<td>D</td>
<td>UG</td>
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</tr>
</tbody>
</table>

Crosslistings: No
Stacked: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s): 3
Lecture: 2
Lab: 3
Other: 0
Total: 0

Repeatable for credit: No
CIP/Fund Code: 1504040019
Default Grade Mode: Letter Grade (G)
Method of instruction: Lecture
Lecture and Laboratory

Will this course be taught as a distance education course? No
Will this course be taught as non-traditional? (i.e., parts of term, distance education) No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? No

This will be a required course or an elective course for the following programs:

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<tbody>
<tr>
<td>(BS-MARR) Marine Engineering Technology - BS</td>
</tr>
</tbody>
</table>
Program(s)

| (BS-MARR-LIO) Marine Engineering Technology - BS, License Option |

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration?  
No

Has/will this course be(en) submitted for Writing or Communication consideration?  
No

Has/will this course be(en) submitted for ICD or CD consideration?  
No

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus  
MARE 402 Syllabus Spring 2020.pdf

Letters of support or other documentation  
No

Additional information  
Deleted unnecessary prerequisites and changes to 2-3 course to allow for additional workshop skills hours needed for STCW certification.  
04.17.2018 - edits made to enforce prerequisite table to comply with UCC policy to enforce listed catalog prerequisites, effective fall 2018.-sw

Reviewer Comments  
Terra Bissett (t.bissett) (10/24/18 11:41 am): Rollback: Please attach updated syllabus.
Terra Bissett (t.bissett) (10/25/18 10:52 am): Update received.
Terra Bissett (t.bissett) (10/25/18 11:27 am): Rollback: Syllabus: please include correct links to student rule 7 and Disability Services; committees will want to see make-up/late-work policy included; update course prefix on last page.
Terra Bissett (t.bissett) (10/25/18 1:20 pm): Updates received.
Terra Bissett (t.bissett) (12/10/18 10:06 am): UCC approved December 2018.

Key: 9866
MARE 402 Shipboard Automation and Control
Course Syllabus
Spring 2020

Catalog Entry: Shipboard Automation and Control (2-3, 3 Credits)

Study of automation in marine power plants, including electronic and pneumatic proportional, integral, and derivative control elements; applications in boiler combustion and water level control; engine speed control; remote sensing and performance monitoring systems.

Prerequisites: MARE 307 Marine Electronics

Course Content:

The classroom part of the course covers the “theoretical” aspects of shipboard automation and control. Topics covered include instrumentation, measurement systems and their applications, control system theory and description, process controllers with correction elements, programmable logic controllers, and system modeling using techniques such as the transfer function.

The laboratory part covers the “practical” aspects of shipboard instrumentation. About half of the overall course concerns this topic. This is where the textbook and associated workbook will be incorporated into the course. Both textbook and workbook are required for the students. Many of the workbook exercises will be completed and turned in at some point during the course. All major types of general instrumentation will be covered, and, where possible, applied to shipboard applications.

Course Goal:

The overall goal for this course is to give the students an understanding of instrumentation and control systems, as applied to shipboard applications, with particular emphasis on the use of programmable logic controllers.

Learning Outcomes:

At the completion of this course, students will be able to

1. read and interpret performance terminology used in instrumentation specifications,
2. describe and evaluate sensors and associated instrumentation involved in the measurement of position, linear and rotational speed, temperature, pressure, flow rate, and liquid level,
3. describe and evaluate methods used for signal processing and display,
4. describe using examples the basic structure and operation of open-loop and closed-loop control systems, and explain the differences between them,
5. describe the application of proportional, derivative, and integral controllers to the control of an industrial or related process,
6. explain the functions of logic gates and the use of truth tables,
(7) describe the basic elements involved with PLC systems, and devise programs to enable PLCs to carry out simple control tasks, and
(8) construct system models using block diagrams and transfer functions.

**Instructor:**
Name: Matthew C. Carroll  
Office: Engineering Building (PMEC), Room 219  
Phone: (409) 740-4473  
E-mail: carrollm@tamug.edu

**Meeting Times:** To Be Determined
**Meeting Location:** To Be Determined
**Office Hours:** To Be Determined


**Materials:** CD/RW or USB Storage Device

**Grading Scale:**

\[
\begin{align*}
90 \leq \text{Grade} &\leq 100 & \text{A} \\
80 \leq \text{Grade} &\leq 90 & \text{B} \\
70 \leq \text{Grade} &\leq 80 & \text{C} \\
60 \leq \text{Grade} &\leq 70 & \text{D} \\
0 \leq \text{Grade} &\leq 60 & \text{F}
\end{align*}
\]

No grades are given in the ranges \(-\infty < \text{Grade} < 0\). Grades in the range \(100 < \text{Grade} < +\infty\) receive an A.

**Grading Policies:**

Overall grades will be determined by assigning points to each class activity and examination, and determining a total point score at the end of the semester. Grades will be at least as high as the grading score above as applied to the percentage of total points possible, but may be higher depending on the difficulty of the examinations and exercises. Approximately 50% of the total points (400) are given for examinations, with the balance given for other class work.
Approximate point values are as follows:

Homework Assignments, Class Exercises 250 points
PLC Group Project 150 points
First Examination 100 points
Second Examination 100 points
Final Examination 200 points

Total 800 points

For more information on overall grading policies, please refer to:

http://www.tamug.edu/studentrules/academicrules.html

Statement on Absences:

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences are located on-line at

http://student-rules.tamu.edu/rule07

Make-up work is always given full credit for excused absences. Late work without a valid excuse on the part of the student is generally given 50% credit, provided class attendance was not required in order to complete the assignments.

Statement on American Disabilities Act:

The American Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409) 740-4587.

For additional information visit:

http://disability.tamu.edu..
Academic Integrity Statement and Policy:

An Aggie does not lie, cheat, or steal nor tolerate those who do.

As such, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty. The Aggie Code of Honor and the Scholastic Dishonesty sections in the TAMUG University Rules Handbook will be the standards upon which scholastic integrity is maintained. For all course work, assignments and examinations, the following Honor Pledge will be added by the student and signed:

On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.

Any specific questions regarding this can be resolved by consulting the Honor Council Rules and Procedures on the web:


Family Educational and Rights to Privacy Act (FERPA):

FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.
# MARE 402 Shipboard Automation and Control

Calendar of Activities, Major Assignments, Test Dates  
Spring 2020 (this is subject to some modification)

<table>
<thead>
<tr>
<th>Week (Dates)</th>
<th>Classroom</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/17/2020-1/19/2020</td>
<td>Measurement Systems Instrumentation</td>
<td>Instrumentation/Measurement Shipboard Applications</td>
</tr>
<tr>
<td>2 1/24/2020-1/26/2020</td>
<td>Instrumentation</td>
<td>Instrumentation/Measurement Shipboard Applications</td>
</tr>
<tr>
<td>3 1/31/2020-2/2/2020</td>
<td>Instrumentation Measurement Applications</td>
<td>Instrumentation/Measurement Shipboard Applications</td>
</tr>
<tr>
<td>4 2/7/2020-2/9/2020</td>
<td>Control Systems</td>
<td>Control Systems Shipboard Applications</td>
</tr>
<tr>
<td>5 2/14/2020-2/16/2020</td>
<td>FIRST EXAM (Two Parts)</td>
<td>Control Systems Shipboard Applications</td>
</tr>
<tr>
<td>6 2/21/2020-2/23/2020</td>
<td>Programmable Logic Controllers</td>
<td>Control Systems Shipboard Applications</td>
</tr>
<tr>
<td>7 2/28/2020-3/2/2020</td>
<td>Programmable Logic Controllers</td>
<td>Control Systems Shipboard Applications</td>
</tr>
<tr>
<td>8 3/7/2020-3/9/2020</td>
<td>PLC Group Formation PLC Demonstration</td>
<td>Programmable Logic Controllers Lighting Project Work</td>
</tr>
<tr>
<td>11 4/4/2020-4/6/2020</td>
<td>SECOND EXAM (Two Parts)</td>
<td>Programmable Logic Controllers Lighting Project Work</td>
</tr>
<tr>
<td>13 4/18/2020-4/20/2020</td>
<td>Transfer Function</td>
<td>Programmable Logic Controllers Lighting Project Work</td>
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Course Change Request

Date Submitted: 10/23/18 12:31 pm

Viewing: **MARE 459 : Mechanical Vibrations** **MECHANICAL VIBRATION**

Last edit: 10/24/18 12:36 pm
Changes proposed by: carrollm

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<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Matthew Kane</td>
<td><a href="mailto:kanem@tamug.edu">kanem@tamug.edu</a></td>
<td>409-740-4878</td>
</tr>
<tr>
<td></td>
<td>Matthew Carroll</td>
<td><a href="mailto:carrollm@tamug.edu">carrollm@tamug.edu</a></td>
<td>409-740-4473</td>
</tr>
</tbody>
</table>

Rationale for Course

The proposed changes are to meet the demand/interest of students.

The proposed changes are the result of teaching the maximum allowed times for a temporary course.

Course prefix MARE  
Course number 459

Department Marine Engineering Technology

College/School Galveston Campus

Academic Level Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level Graduate

Effective term 2019-2020 Galveston

Complete Course Title Mechanical Vibrations **MECHANICAL VIBRATION**

Abbreviated Course Title MECHANICAL VIBRATIONS VIBRATION

Catalog course description

Basic theory of vibrating systems with single and multiple degrees of freedom and principles of transmission and isolation of vibrations.

Prerequisites and Restrictions

MARE 206; MARE 261.

Concurrent Enrollment No

Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
</tr>
</thead>
</table>

Approval Path

1. 10/23/18 12:40 pm Matthew Carroll (carrollm): Approved for MARE Department Head
2. 10/24/18 12:38 pm Terra Bisse (t.bisse): Approved for Curricular Services Review
3. 10/30/18 2:38 pm Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG
4. 11/06/18 3:19 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
5. 11/07/18 3:39 pm Donna Lang (langd): Approved for GV College Dean UG
6. 11/08/18 8:31 am Terra Bissett (t.bissett): Approved for UCC Chair
<table>
<thead>
<tr>
<th>Semester</th>
<th>Credit</th>
<th>Contact Hour(s) (per week):</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td>Lecture: 3 Lab: 0 Other: 0 Total: 0</td>
</tr>
</tbody>
</table>

Repeatable for credit? No
Three-peat? No

CIP/Fund Code: 1419010006
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No

Will this course be taught as a distance education course? No

Is 100% of this course going to be taught in Texas? Yes

Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

<table>
<thead>
<tr>
<th>Program(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(BS/MML-MARR/MAAL-GAD) Marine Engineering Technology- 5-year Bachelor of Science/Master of Maritime Admin &amp; Logistics</td>
</tr>
<tr>
<td>(BS-MARR) Marine Engineering Technology - BS</td>
</tr>
<tr>
<td>(BS-MARR-LIO) Marine Engineering Technology - BS, License Option</td>
</tr>
</tbody>
</table>

Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for
Course Syllabus

Syllabus:  
1. Upload syllabus  
2. Use course syllabus form

Meeting times and locations:  
To Be Determined

Learning outcomes

Learning Outcome

Upon completion of this course, students will be able to:

1. describe the fundamental aspects of the various states of vibration analysis
2. develop methodologies for determining and analyzing the vibration systems of an engineering system
3. solve practical engineering vibration problems using analytical or numerical methods

Instructor information

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
<th>E-mail</th>
<th>Office hours</th>
<th>Office location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rudy Marnez</td>
<td>409-740-4506</td>
<td><a href="mailto:marner@tamug.edu">marner@tamug.edu</a></td>
<td>1:00 - 2:00 p.m.</td>
<td>Powell Engineering Complex Room 215</td>
</tr>
</tbody>
</table>

Textbook and/or Resource Material


Grading scale

A: 90-100  B: 80-89  C: 70-79  D: 60-69  F: 0-59

Grading Policies

<table>
<thead>
<tr>
<th>Activity</th>
<th>Weight</th>
<th>How is grade determined</th>
<th>Additional work for graduate students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>33.33%</td>
<td>Test given at end of 6th week.</td>
<td></td>
</tr>
<tr>
<td>Exam 2</td>
<td>33.33%</td>
<td>Test given at end of 11th week.</td>
<td></td>
</tr>
<tr>
<td>Final Examination</td>
<td>33.34%</td>
<td>Test given during final exam period.</td>
<td></td>
</tr>
</tbody>
</table>

Attendance and Make-up Policies

University rules related to excused and unexcused absences are located on-line at Student Rule 7.

Class attendance is an individual student responsibility. All students are expected to attend all classes.

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Required readings</th>
<th>Assignment due date</th>
<th>Major exam date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction Harmonic Motion Frequency Domain Time Domain</td>
<td>text</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>2</td>
<td>Classification of Vibrations Harmonic Motion Vector Representation</td>
<td>text</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>3</td>
<td>Harmonic Motion Complex Representation Fourier Analysis</td>
<td>text</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>4</td>
<td>Frequency and Time Domain Representations</td>
<td>text</td>
<td>none</td>
<td>none</td>
</tr>
<tr>
<td>5</td>
<td>Single Degree of Freedom (SDOF) Systems</td>
<td>text</td>
<td>none</td>
<td>none</td>
</tr>
</tbody>
</table>
Please select the appropriate ADA statement for your location:

Texas A&M University at Galveston - Main Campus

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit [http://disability.tamu.edu](http://disability.tamu.edu).

(Galveston), please contact Student Services in building 3025, suite 115-119, or call (409) 740-4736. For additional information, visit [http://www.tamug.edu/counsel/Disabilities.html](http://www.tamug.edu/counsel/Disabilities.html).

Academic Integrity

"An Aggie does not lie, cheat, or steal, or tolerate those who do."

For additional information please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

(Galveston) For additional information please visit: [http://www.tamug.edu/honorsystem/index.html](http://www.tamug.edu/honorsystem/index.html)

Letters of support or other documentation

No

Additional information

MARE 459 is an INACTIVE course. We are reactivating it with the identical catalog entry, but with some changes to the course material as reflected in the course description above.

Reviewer Comments

Matthew Carroll (carrollm) (10/23/18 12:39 pm): Essentially the same course was taught as MARE 489 for a few semesters.

Terra Bissett (t.bissett) (10/24/18 12:37 pm): Added previously used CIP Code to form.

Terra Bissett (t.bissett) (12/10/18 10:06 am): UCC approved December 2018.

Reported to state?

Add

GV

Week | Topic | Required readings | Assignment due date | Major exam date |
--- | --- | --- | --- | --- |
6 | Self-Excitation Stability Analysis | text | none | last day of week 6 |
7 | Forced Vibrations | text | none | none |
8 | Vibration Measurements and Applications | text | none | none |
9 | Vibration Measurements and Applications | text | none | none |
10 | Two Degree of Freedom (2DOF) Systems | text | none | none |
11 | Multi-Degree of Freedom Systems | text | none | last day of week 11 |
12 | Continuous Systems Structural Health Monitoring (SHM) | text | none | none |
13 | Vibration Control | text | none | none |
14 | Vibration Control Review | text | none | none |
Course Change Request

Date Submitted: 10/11/18 11:34 am

Viewing: MARS 428: Coastal Development and Human Health

Last approved: 05/19/18 3:23 am

Changes proposed by: galanj

Catalog Pages referencing this course:
- Department of Marine Sciences
- MARS - Marine Science (MARS)

Programs referencing this course:
- BS-USGA-OOH*: University Studies - BS, Oceans and One Health Concentration

Faculty Senate Number

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jhenny Galan</td>
<td><a href="mailto:galanj@tamug.edu">galanj@tamug.edu</a></td>
<td>409-741-4326</td>
</tr>
</tbody>
</table>

Rationale for Course

Edit

Other

Explain other rationale

1) CHEM 102 changed to CHEM 120. Prerequisite is updated to match new course number in Chemistry.
2) MARS 210 is removed as a prerequisite. MARS 210 not a necessary requirement for students to be successful in this class. Basic background in chemistry and biology is what is more important.
3) BIOL 112 is added as a prerequisite. Basic knowledge in biology is required to understand health issues in a coastal environment.

Course prefix: MARS
Course number: 428
Department: Marine Sciences
College/School: Galveston Campus
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Academic Level (alternate): Graduate


Galveston

Complete Course Title:
Coastal Development and Human Health

Abbreviated Course Title:
COAST DEV AND HUMAN HEALTH

Catalog course description:
Exploration of public environmental health issues associated with urbanization in coastal areas; topics address population pressures on coasts, infectious and chronic disease, the natural and built environment, toxicology, toxicology, sanitation, forms and media of pollution, and the application of environmental health science to coastal zone management.
Prerequisites and Restrictions
CHEM 120 or equivalent; BIOL 112; MARS 210 or equivalent; junior or senior classification or approval of instructor; CHEM 383 and MARS 325 are recommended but not required.

Concurrent Enrollment
No

Should catalog prerequisites / concurrent enrollment be enforced?
Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
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<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
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<td>And</td>
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<tr>
<td>Or</td>
<td>MARS 210</td>
<td>D</td>
<td>UG</td>
<td></td>
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<tr>
<td>And</td>
<td>CHEM 102</td>
<td>D</td>
<td>UG</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td>BIOL 112</td>
<td>D</td>
<td>UG</td>
<td></td>
</tr>
</tbody>
</table>

Crosslistings
No

Semester
3

Credit Hour(s)
3

Contact Hour(s)
(per week):
Lecture: 2
Lab: 2
Other: 0
Total: 4

Repeatable for credit?
No

Three-peat?
No

CIP/Fund Code
0301040002

Default Grade Mode
Letter Grade (G)

Alternate Grade Modes
Satisfactory/Unsatisfactory

Method of instruction
Lecture and Laboratory

Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)
No

Will this course be taught as a distance education course?
No

Is 100% of this course going to be taught in Texas?
Yes

Will classroom space be needed for this course?
Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Program(s)

(USGA-OOH*) University Studies - BS, Oceans and One Health Concentration
Course Syllabus

Syllabus: Upload syllabus
Upload syllabus [MARS428_syllabus_CARS.doc]

Letters of support or other documentation: No

Additional information: 04.17.2018—edits made to enforce prerequisite table to comply with UCC policy to enforce listed catalog prerequisites, effective fall 2018. sw


Reported to state? No
Short Course Description
MARS 489. COASTAL DEVELOPMENT AND HUMAN HEALTH. (2-2). Credit 3. Exploration of environmental public health issues associated with urbanization in coastal areas. Lecture topics, case studies, and team projects address population pressures on coasts, infectious and chronic disease, the natural and built environment, toxicology, sanitation, forms and media of pollution, and application of environmental health science to coastal zone management. Prerequisites: CHEM 120 (or equiv); BIOL 112; Junior or senior classification or approval of instructor. CHEM 383 and MARS 325 are recommended but not required.

Who should take this course?
COASTAL DEVELOPMENT AND HUMAN HEALTH is relevant for upper division undergraduate students who are ready to learn how to synthesize and apply the scientific knowledge and skills learned from their other coursework in marine science, marine biology, ocean & coastal resources, as well as students who are considering pursuing a health professions graduate degree, to investigate the source(s) or cause(s) of human infectious and chronic diseases in marine coastal environments. The course is structured within the curriculum of environmental health science that is a multi- and cross-disciplinary application of basic science and engineering knowledge to the recognition, evaluation, and control of physical, chemical, and biological causes of human illness. Environmental health science principles and methods are also applicable to ecosystem and animal health studies.

Learning Outcomes
Upon completion of this course, the students will be able to:

1. Describe the interaction between the marine/coastal environment and human health
2. Identify the drivers that impact coastal environments and human health including socio-economic conditions, sectoral trends such as population growth, patterns in coastal and watershed land use, and growth and development in watershed industry sectors.
3. Describe how anthropogenic activities place a stress on the environments, specifically the marine ecosystem, such as fisheries, aquaculture, wastewater management, introduction of industrial contaminants, and agriculture.
4. Apply environmental health domain knowledge and methodologies to determine the indicators of the state of the environment
5. Describe, quantify, and analyze the impacts of environmental state on human health. For example, marine-vectorized diseases, or exposure to contaminants and toxins via fish and shellfish, or infections from recreational bathing waters.

6. Understand and quantify the sources of pathogens, toxins, and pollutants and how they are transported into marine environment.

**Reading Assignments:**
Periodically you will have articles to read for class. These assignments will be distributed through eCampus or in class.

**Homework/Case Studies:**
In class assignments will be in the form of case studies, investigations, and problem solving. Bring a laptop to every class.

**Presentations/Project:**
You will be assigned to a team early in the semester. Your team will select a topic from a list of topics prepared by your instructors. Presentations will be given the last four weeks of the semester.

**Exams:**
There will be three regular exams given during the semester. The exams will cover material presented in class, case studies, and assignments. Format will be open response. The final exam will incorporate information and methodology used throughout the semester. It will be administered through eCampus and you will have several days to do it.

**Schedule of Exams:**
Exam 1 2/5
Exam 2 3/5
Exam 3 4/16

**Course Grade:**
Exams: 45%
Final Exam: 10%
Case Studies and Assignments: 25%
Presentation/Project: 20%

**Letter Grades:**
A ≥ 90.00 %
B 79.95-89.94 %
C 69.95-79.94 %
D 59.95-69.94 %
F < 59.95 %

Please note that your grade depends only on your scores and **NOT** on the class average.

**List of Topics:**
1. Risk Assessment – Concepts and Methods
2. Epidemiology
3. Environmental toxicology
   a. Drinking water and wastewater management
   b. Industrial contaminants
   c. Fisheries and aquaculture
   d. Air pollution

**THERE WILL NO OTHER EXTRA CREDIT PROJECTS FOR THIS CLASS.**
4. Impacts on human health:
   a. Waterborne diseases
   b. Algal blooms – impacts
   c. Coastal diseases

5. Management and Recommendations

Field Trips: There will be field trips incorporated throughout the semester. They will be short and most likely take place during class time. Details TBA.

Electronic Resources: This course will be available online through eCampus. The web server will be used for posting lecture powerpoints, links to optional and supplemental materials. You can access eCampus through the Howdy portal.

Statement on Absences (Attendance): Information concerning absences is contained in the University Student Rules Section 7 http://www.tamug.edu/studentrules/Academic_Rules/7_Attendance.html

All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45).

Make-up Policy: If an absence is excused, the student will have an opportunity to make up the missed work within a timeframe agreed upon by the student and the instructor not to exceed 30 calendar days. The student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for the absence. Students are required to fill out a “reason for absence” and provide additional documentation. The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

Americans with Disabilities Act (ADA) Policy Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Counseling Office, Seibel Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/Disabilities.html.

Academic Integrity Statement and Policy: “An Aggie does not lie, cheat, or steal or tolerate those who do.”

As a Texas A&M at Galveston student, one immediately assumes a commitment to uphold the Honor Code written above, to accept responsibility for learning and follow the rules of the Honor System. For additional information on the Honor Code and the Honor Council Rules and Procedures please visit: http://www.tamug.edu/HonorSystem. On every exam, assignment and course-related work, the following Honor Pledge will be printed and signed by the student.

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”

Statement on the Family Educational Rights and Privacy Act (FERPA): FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records,
to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office.

Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

**Statement on Course Evaluations:** The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology.
Course Change Request

Date Submitted: 10/29/18 10:31 am

Viewing: MART 213 : Liquified Gas Tankers

Formerly known as: MART 407

Last approved: 06/15/18 3:36 am

Last edit: 10/30/18 4:03 pm

Changes proposed by: rotha

Catalog Pages

- Department of Maritime Transportation
- MART - Marine Transportation (MART)

Programs referencing this course

- MART 213:
  - BS-MART: Marine Transportation - BS

Faculty Senate Number: FS.36.012

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Augusta Roth</td>
<td><a href="mailto:rotha@tamug.edu">rotha@tamug.edu</a></td>
<td>409-740-4471</td>
</tr>
</tbody>
</table>

Rationale for Course

The proposed changes are to support major changes to an existing program.

Course prefix: MART

Course number: 213

Department: Marine Transportation

College/School: Galveston Campus

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

- Prerequisites

  All prerequisites will be enforced through COMPASS.

Academic Level (alternate): Graduate


Complete Course Title: Liquified Gas Tankers

Abbreviated Course Title: LIQUIFIED GAS TANKERS

Catalog course description

Preparation as cargo officer for loading, discharging and transit of liquefied gas cargoes; emphasis on physical and chemical properties, operations, safety, firefighting and pollution prevention.

Prerequisites and Restrictions

- MART majors - Grade of C or better in MART MART-200 or NAUT 200, or concurrent enrollment or approval of MART department head
- MARE majors - Grade of C or better in MARE 200 or MARR 200, or concurrent enrollment or approval of MART department head

In Workflow

1. MART Department Head
2. Curricular Services Review
3. GV Committee Preparer UG
4. GV Committee Chair UG
5. GV College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services
13. Banner

Approval Path

1. 10/29/18 10:48 am
   - Augusta Roth (rotha): Approved for MART Department Head

2. 10/30/18 3:45 pm
   - Terra Bisset (t.bisse): Approved for Curricular Services Review

3. 10/30/18 5:06 pm
   - Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

4. 11/06/18 3:22 pm
   - Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG

5. 11/07/18 3:42 pm
   - Donna Lang (langd): Approved for GV College Dean UG

6. 11/08/18 8:31 am
   - Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/10/18 10:07 am
   - Terra Bisset (t.bisse): Approved for UCC Chair

History

1. Aug 29, 2017 by sarah.gordon
### MART 213: Liquified Gas Tankers

**Concurrent Enrollment** No

**Should catalog prerequisites / concurrent enrollment be enforced?** Yes

### Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
<th>Concurrency?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Or</td>
<td>MART 200</td>
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<td>UG</td>
<td>Yes</td>
</tr>
<tr>
<td>Or</td>
<td>NAUT 200</td>
<td>C</td>
<td>UG</td>
<td>Yes</td>
</tr>
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<td>C</td>
<td>UG</td>
<td>Yes</td>
</tr>
<tr>
<td>Or</td>
<td>MARR 200</td>
<td>C</td>
<td>UG</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Crosslistings

- No

### Stacked

- No

### Semester

- 3

### Contact Hour(s)

- Lecture: 2
- Lab: 2
- Other: 0
- Total: 4

### Repeatable for credit?

- No

### Three-peat?

- No

### CIP/Fund Code

- 4903090012

### Default Grade Mode

- Letter Grade (G)

### Alternate Grade Modes

- Satisfactory/Unsatisfactory

### Method of instruction

- Lecture and Laboratory

### Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)

- No

### Will this course be taught as a distance education course?

- No

### Is 100% of this course going to be taught in Texas?

- Yes

### Will classroom space be needed for this course?

- Yes

### This will be a required course or an elective course for the following programs:

- Required (select program)
- Elective (select program)
- Has/will this course be(en) submitted for core curriculum consideration?

- No
### Course Syllabus

| Has/will this course be(eng) submitted for Writing or Communication consideration? | No |
| Has/will this course be(eng) submitted for ICD or CD consideration? | No |

---

**Syllabus:**

Upload syllabus

---

**Letters of support or other documentation:**

No

---

**Additional information:**

Please update to recognize old numbers.

---

**Reviewer Comments**

*Augusta Roth (rotha) [10/29/18 10:33 am]:* I forgot to add in the grade requirements for pre-reqs. Please add or kickback. C or better for MARR 200 or MARE 200 and or statement.

*Augusta Roth (rotha) [10/29/18 10:48 am]:* Added new prereqs for MARE majors

*Terra Bissett (t.bissett) [10/30/18 3:45 pm]:* Minor edits made to catalog prerequisites to comply with catalog style guide.

*Terra Bissett (t.bissett) [12/10/18 10:07 am]:* UCC approved December 2018.

---

** Reported to state?**

No
Course Change Request

Date Submitted: 10/29/18 10:40 am

Viewing: MART 308 : Fast Rescue Craft

Last approved: 06/15/18 3:36 am
Last edit: 10/30/18 4:11 pm

Changes proposed by: rotha

Faculty Senate Number FS.36.012

Contact(s)

<table>
<thead>
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<td>409-740-4471</td>
</tr>
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</table>

Rationale for Course

Edit

The proposed changes are to support major changes to an existing program.
This proposed changes are to meet professional certification requirements.
The proposed changes are part of a routine curriculum review.

Course prefix MART Course number 308

Department Marine Transportation
College/School Galveston Campus
Academic Level Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Academic Level Graduate

Effective term 2019-2020 2018-2019
Galveston

Complete Course Title Fast Rescue Craft

Abbreviated Course Title FAST RESCUE CRAFT

Catalog course description

Search and rescue techniques through fast rescue craft maneuvers and team management; description of various rescue craft and U.S. Coast Guard "Fast Rescue Craft" Standard of Watchkeeping endorsement.

Prerequisites and Restrictions

MART majors - Grade of C or better in MART MART-200 or NAUT 200; grade of C or better in MART 103, MART 105 or MART 115 or 203; MART 203, MART 201 and MART MART-204, or concurrent enrollment or approval of department head;
MART 308: Fast Rescue Craft

MARE majors - Grade of C or better in MARE 200 or MARR 200; grade of C or better in MART 103.

Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
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</table>

Crosslistings: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 2, Lab: 3, Other: 0, Total: 5
Repeatable for credit: No
Three-peat: No
CIP/Fund Code: 4903090012
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture and Laboratory
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No
Will this course be taught as a distance education course: No
Is 100% of this course going to be taught in Texas: Yes
Will classroom space be needed for this course: Yes
This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(submitted for core curriculum consideration? No

Has/will this course be(submitted for Writing or Communication consideration? No

Has/will this course be(submitted for ICD or CD consideration? No

**Course Syllabus**

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation No

Additional information Please approve updated pre-reqs to recognize old course numbers.

Reviewer Comments Terra Bissett (t.bissett) (10/30/18 4:05 pm): Minor edits made to catalog prerequisites and enforced prerequisites to comply with catalog style guide.

Terra Bissett (t.bissett) (12/10/18 10:07 am): UCC approved December 2018.

Reported to state? No

Key: 10016
Course Change Request

Date Submitted: 10/29/18 10:37 am

Viewing: MART 313: Marine Liquid Cargo Operations

Formerly known as: MART 406

Last approved: 06/15/18 3:36 am

Last edit: 10/30/18 4:14 pm

Changes proposed by: rotha

Catalog Pages referencing this course
- Department of Maritime Transportation
  - MART - Marine Transportation (MART)
- MART 406: Department of Maritime Transportation
  - MART - Marine Transportation (MART)

Programs referencing this course
- MART 313: BS-MART: Marine Transportation - BS

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Augusta Roth</td>
<td><a href="mailto:rotha@tamug.edu">rotha@tamug.edu</a></td>
<td>409-740-4471</td>
</tr>
</tbody>
</table>

Rationale for Course

The proposed changes are to support major changes to an existing program.

This proposed changes are to meet professional certification requirements.

Course prefix: MART

Course number: 313

Department: Marine Transportation

College/School: Galveston Campus

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Academic Level (alternate): Graduate


Galveston

Complete Course Title

Marine Liquid Cargo Operations

Abbreviated Course Title

MARINE LIQUID CARGO OPS

Catalog course description

Principles and practice of bulk liquid, gas handling and carriage by water craft; theoretical and practical problems involved in loading, stowing and discharging of petroleum, chemical, elevated temperature and cryogenic cargoes; marine pollution abatement, personnel safety and firefighting techniques and systems.

Prerequisites and Restrictions

MART majors - Grade of C or better in MART 200 or NAUT 200; grade of C or better in MART 103, MART 103, 115 or MART 115 or 203, MART 203, MART 201 and MART 204, or concurrent enrollment or approval of department head;
MART 313: Marine Liquid Cargo Operations

MARE majors - Grade of C or better in MARE 200 or MARR 200, MART 103, or concurrent enrollment or approval of MART department head.

Concurrent Enrollment: No
Should catalog prerequisites / concurrent enrollment be enforced? Yes

Enforced Prerequisites / Concurrent Enrollment

<table>
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<th>And/Or</th>
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Crosslistings: No
Stacked: No

Semester: 3
Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 2
Lab: 2
Other: 0
Total: 4

Repeatable for credit? No
Three-peat? No
CIP/Fund Code: 4903090012
Default Grade Mode: Letter Grade (G)
Alternate Grade Modes: Satisfactory/Unsatisfactory
Method of instruction: Lecture and Laboratory
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No
Will this course be taught as a distance education course? No
Is 100% of this course going to be taught in Texas? Yes
Will classroom space be needed for this course? Yes

This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

Has/will this course be(en) submitted for core curriculum consideration? No

Has/will this course be(en) submitted for Writing or Communication consideration? No

Has/will this course be(en) submitted for ICD or CD consideration? No

**Course Syllabus**

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation No

Additional information Please approve pre-req update to recognize old course numbers.

Reviewer Comments

Terra Bissett (t.bissett) (10/30/18 4:17 pm): Minor edits made to catalog prerequisites to comply with catalog style guide. Edits made to enforced prerequisites to reflect what is stated in catalog prerequisites.

Terra Bissett (t.bissett) (12/10/18 10:07 am): UCC approved December 2018.
Course Change Request

Viewing: MART 498 : Maritime Medical Care

Last approved: 08/29/17 3:15 am
Last edit: 11/05/18 2:55 pm
Changes proposed by: rotha

Contact(s)

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Augusta Dale Roth</td>
<td><a href="mailto:rotha@tamug.edu">rotha@tamug.edu</a></td>
<td>409-740-4471</td>
</tr>
</tbody>
</table>

Rationale for Course

Edit

This proposed changes are to meet professional certification requirements.

The proposed changes are to support major changes to an existing program.

The proposed changes are part of a routine curriculum review.

Course prefix

MART

Course number

498

Department

Marine Transportation

College/School

Galveston Campus

Academic Level

Undergraduate

Undergraduate course level justification (Select One)

Prerequisites

All prerequisites will be enforced through COMPASS.

Effective term

2019-2020

2017-2018

Galveston

Complete Course Title

Maritime Medical Care

Abbreviated Course Title

MARITIME MEDICAL CARE

Catalog course description

Basic and advanced training for medical care of the sick and injured in the maritime environment; fundamentals of identification and assessment of and appropriate interventions for life-threats and other medical or trauma related conditions commonly encountered at sea; must complete course within one year of graduation.

Prerequisites and Restrictions

MART majors - Grade 300 or MART 350 or NAUT 300, or concurrent enrollment, or approval of C or better in MART 300, MART 350, or NAUT 300, or concurrent enrollment or approval of MART department head; MARE majors - Grade of C or better in MARR 300, MARE 300, or MARE 350, or concurrent enrollment or approval of MART department head.

Should catalog prerequisites / Yes
concurrent enrollment be enforced?

Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
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<th>Min Grade/Score</th>
<th>Academic Level</th>
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Crosslistings: No

Stacked: No

Semester: 2
Credit Hour(s): 2
Contact Hour(s): (per week):
Lecture: 1
Lab: 3
Other: 0
Total: 4
Repeatable for credit: No
CIP/Fund Code: 4903090012
Default Grade Mode: Letter Grade (G)
Method of instruction: Lecture and Laboratory
Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education): No
Will this course be taught as a distance education course?: No
Is 100% of this course going to be taught in Texas?: No
Will classroom space be needed for this course?: No
This will be a required course or an elective course for the following programs:

Required (select program)

Elective (select program)

<table>
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<th>Program(s)</th>
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<tbody>
<tr>
<td>(BS-MART) Marine Transportation - BS</td>
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Has/will this course be(en) submitted for core curriculum consideration?: No

Has/will this course be(en) submitted for Writing or
## Course Syllabus

<table>
<thead>
<tr>
<th>Syllabus:</th>
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<tbody>
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<td>Upload syllabus</td>
<td>After MART 498_for_signatures-only.pdf</td>
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| Letters of support or other documentation | Yes |

| Additional information | Syllabus is not required for this type of change. Paper course form is attached to show approval/signatures. |

| Reviewer Comments | Terra Bissett (t.bissett) (10/30/18 4:19 pm): Minor edits made to catalog prerequisites and enforced prerequisites to comply with catalog style guide.  
|                   | Terra Bissett (t.bissett) (12/10/18 10:07 am): UCC approved December 2018. |

Key: 10036