Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 11:43 am

Viewing: **BMEN 231 : Foundations of Biomechanics**

Last edit: 10/06/17 11:43 am

Changes proposed by: mlyons

---

**Catalog Pages referencing this course**

- BMEN - Biomedical Engineering (BMEN)
- Department of Biomedical Engineering

---

**Contact(s)**

<table>
<thead>
<tr>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Maria Lyons</td>
<td><a href="mailto:mlyons@tamu.edu">mlyons@tamu.edu</a></td>
<td>9798452312</td>
</tr>
</tbody>
</table>

**Course prefix**: BMEN  
**Course number**: 231  
**Department**: Biomedical Engineering  
**College/School**: College of Engineering  
**Academic Level**: Undergraduate  
**Undergraduate course level justification (Select One)**

**Effective term**: 2018-2019  
**Complete Course Title**: Foundations of Biomechanics  
**Abbreviated Course Title**: FOUNDATIONS OF BIOMECHANICS

**Catalog course description**

Introduction of biomechanics in formulating and solving problems in basic science, medical device development, and clinical intervention. Emphasis on deriving differential equations in one spatial dimension for the five basic postulates of continuum biomechanics, identifying illustrative constitutive relations, and providing a unified approach to studying biosolid mechanics, biofluid mechanics, bioheat and mass transport, and biothermomechanics.

**Prerequisites and Restrictions**

Admitted to major degree sequence in biomedical engineering.

**Concurrent Enrollment**: No  
**Should catalog prerequisites/concurrent enrollment be enforced?**: No  
**Crosslistings**: No  
**Stacked**: No

---

In Workflow

1. BMEN Department Head  
2. Curricular Services Review  
3. EN Committee Preparer UG  
4. EN Committee Chair UG  
5. EN 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. 10/06/17 4:46 pm Michael McShane (mchesane): Approved for BMEN Department Head  
2. 10/08/17 2:19 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review  
3. 10/25/17 8:27 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG  
4. 10/27/17 8:45 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG  
5. 10/27/17 9:24 am Prasad Enjeti (enjeti): Approved for EN College Dean UG  
6. 11/13/17 4:56 pm Sandra Williams (sandra-williams): Approved for UCC Preparer  
7. 12/04/17 4:04 pm Sandra Williams (sandra-williams): Approved for UCC Chair
Semester: 3  
Credit Hour(s): 3  
Contact Hour(s): 
(per week): Lecture: 3  
Lab: 0  
Other: 0  
Total: 3

Repeatable for credit? No
CIP/Fund Code: 1405010006
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?

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?
No

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

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

Course Syllabus

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation
No

Additional information

Reviewer Comments
Sandra Williams (sandra-williams) [12/04/17 4:04 pm]: UCC approved in December.
| Justification for this request | This course was removed from our degree plan and replaced with BMEN 468 in 201331 (and now BMEN 452 as of 201731). |

Key: 2232
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 11:45 am

Viewing: BMEN 282 : Engineering Biology

Last edit: 10/06/17 11:45 am
Changes proposed by: mlyons

Other Courses referencing this course

Department of Biological and Agricultural Engineering
Department of Biomedical Engineering

As A Banner Prerequisite:
BAEN 431 : Fundamentals in Bioseparations
CHEN 431 : Fundamentals in Bioseparations

Contact(s)

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</table>

Course prefix    BMEN
Course number    282
Department        Biomedical Engineering
College/School    College of Engineering
Academic Level    Undergraduate
Undergraduate course level justification (Select One)

Effective term    2018-2019
Complete Course Title
Engineering Biology

Abbreviated Course Title
ENGINEERING BIOLOGY

Catalog course description
Application of engineering principles to biological function at the molecular and cellular level.

Prerequisites and Restrictions
Admitted to major degree sequence and CHEM 101 and CHEM 111 or CHEM 107 and CHEM 117.

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

Crosslisted  No
Crosslisted With

Stacked  No
Stacked with

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

In Workflow
1. BMEN Department Head
2. Curricular Services Review
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4. EN Committee Chair UG
5. EN College Dean UG
6. UCC Preparer
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7. 12/04/17 4:04 pm Sandra Williams (sandra-williams): Approved for UCC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/#
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments: Sandra Williams (sandra-williams) (12/04/17 4:04 pm); UCC approved in December.

Justification for this request: This course was removed from our required curriculum and replaced with CHEM 227.
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 11:45 am

Viewing: BMEN 306 : Biomeasurements Lab

Last edit: 10/06/17 11:45 am

Changes proposed by: mlyons

Catalog Pages referencing this course

BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

<table>
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</table>

Course prefix: BMEN  Course number: 306

Department: Biomedical Engineering
College/School: College of Engineering
Academic Level: Undergraduate
Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Biomeasurements Lab
Abbreviated Course Title: BIOMEASUREMENTS LAB

Catalog course description
Introduction into experimental methods useful in biomedical engineering; includes the role of empiricism in biomedical research and development; the differences between observation and experimentation; and how to acquire, reduce, interpret, and present data.

Prerequisites and Restrictions
Admitted to major degree sequence in biomedical engineering; BMEN 240 and BMEN 341.

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

Enforced Prerequisites / Concurrent Enrollment

https://nextcatalog.tamu.edu/courseleaf/approve/#
<table>
<thead>
<tr>
<th>And/Or</th>
<th></th>
<th>Course Prefix/Number</th>
<th>Min Grade/Score</th>
<th>Academic Level</th>
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<th>Concurrency?</th>
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<td>BMEN 240</td>
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<tr>
<td>And</td>
<td></td>
<td>BMEN 341</td>
<td>D</td>
<td>UG</td>
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</table>

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

Semester: 1
Credit: 1
Hour(s): Contact Hour(s) (per week):
Repeatable for credit?: No
CIP/Fund Code: 1405010006
Default Grade Mode: Letter Grade(G)
Method of instruction: 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?:
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?: No

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

Course Syllabus

Syllabus:  Upload syllabus
| Letters of support or other documentation | No |
| Additional information |  |
| Reviewer Comments | Sandra Williams (sandra-williams) (12/04/17 4:05 pm): UCC approved in December. |
| Justification for this request | This course was removed from our required curriculum and replaced with BMEN 345. |
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 11:50 am

Viewing: BMEN 310 : Clinical Engineering

Last edit: 10/06/17 11:50 am
Changes proposed by: mlyons

Catalog Pages referencing this course
BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

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</table>

Course prefix     BMEN  Course number    310
Department         Biomedical Engineering
College/School     College of Engineering
Academic Level     Undergraduate
Undergraduate course level justification (Select One)
Effective term     2018-2019
Complete Course Title
Clinical Engineering
Abbreviated Course Title
CLINICAL ENGR

Catalog course description
Equipment control concepts and techniques and their application in hospitals and in the medical profession; device evaluation specifications; preventative maintenance and service; calibration, regulation and medical product liability.

Prerequisites and Restrictions
Admitted to major degree sequence in biomedical engineering; BMEN 321.

Concurrent Enrollment No
Should catalog prerequisites / concurrent enrollment be enforced? No
Crosslistings No        Crosslisted With
Stacked No             Stacked with

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/06/17 4:47 pm Michael McShane (mcsanche): Approved for BMEN Department Head
2. 10/08/17 2:20 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:28 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:46 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:24 am Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:56 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:05 pm Sandra Williams (sandra-williams): Approved for UCC Chair
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation

No

Additional information

Reviewer Comments: Sandra Williams (sandra-williams) (12/04/17 4:05 pm): UCC approved in December.
| Justification for this request | Course is no longer offered and the expertise no longer exists within our department. |
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 11:52 am

Viewing: BMEN 342: Biomaterials and Medical Devices

Last edit: 10/06/17 11:52 am
Changes proposed by: mlyons

Catalog Pages referencing this course
- BMEN - Biomedical Engineering
- BMEN - Biomedical Engineering (BMEN)
- Department of Biomedical Engineering
- Department of Biomedical Engineering

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</tbody>
</table>

Course prefix: BMEN  Course number: 342

Department: Biomedical Engineering
College/School: College of Engineering
Academic Level: Undergraduate
Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Biomaterials and Medical Devices
Abbreviated Course Title: BIOMATLS & MED DEVICES

Catalog course description:
Selection and use of materials in implantable and tissue contacting medical devices; mass transport in medical devices; regulation and testing of medical devices.

Prerequisites and Restrictions:
VTPP 436 and BMEN 341; junior or senior classification.

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

Enforced Prerequisites / Concurrent Enrollment

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
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11. President
12. Curricular Services
13. Banner

Approval Path
1. 10/06/17 4:47 pm
   Michael McShane (mcshean): Approved for BMEN Department Head
2. 10/08/17 2:21 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:28 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:46 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:25 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:56 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:05 pm
   Sandra Williams (sandra-williams): Approved for UCC Chair
Course Syllabus

Syllabus:  Upload syllabus

https://nextcatalog.tamu.edu/courseleaf/approve# 2/3
<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Letters of support or other documentation</td>
<td>No</td>
</tr>
<tr>
<td>Additional information</td>
<td></td>
</tr>
<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) (12/04/17 4:05 pm): UCC approved in December.</td>
</tr>
<tr>
<td>Justification for this request</td>
<td>Class no longer in our required curriculum and replaced with BMEN 344.</td>
</tr>
</tbody>
</table>
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 12:22 pm

Viewing: BMEN 405 : Virtual Instrumentation Design for Medical Systems

Last edit: 10/06/17 12:22 pm
Changes proposed by: mlyons

Catalog Pages referencing this course

BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

<table>
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</tbody>
</table>

Course prefix    BMEN
Course number    405
Department        Biomedical Engineering
College/School    College of Engineering
Academic Level    Undergraduate
Undergraduate course level justification (Select One)

Effective term    2018-2019
Complete Course Title
Virtual Instrumentation Design for Medical Systems
Abbreviated Course Title
VIRTUAL DESN MED INSTR

Catalog course description
Design of medical systems using graphics programming language of LabVIEW including the designing and programming of three virtual systems as follows: cardiac monitor, electromyogram system for biomechanics, and sleep stage analyses from electroencephalograms.

Prerequisites and Restrictions
BMEN 321 and BMEN 322.

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

Crosslistings    No
Crosslisted With
Stacked    No
Stacked with

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/06/17 4:47 pm
   Michael McShane (mcschane): Approved for BMEN Department Head
2. 10/08/17 2:22 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:29 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:46 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:25 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:57 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:05 pm
   Sandra Williams (sandra-williams): Approved for UCC Chair
<table>
<thead>
<tr>
<th>Semester 3</th>
<th>Contact Hour(s) (per week):</th>
<th>Lecture: 2</th>
<th>Lab: 3</th>
<th>Other: 0</th>
<th>Total: 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hour(s)</td>
<td>Repeatable for credit? No</td>
<td>CIP/Fund Code 1410010006</td>
<td>Default Grade Mode Letter Grade(G)</td>
<td>Method of instruction Lecture and Laboratory</td>
<td>Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education) No</td>
</tr>
</tbody>
</table>

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)

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 consideration? No

**Course Syllabus**

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation No

Additional information

Reviewer Comments Sandra Williams (sandra-williams) [12/04/17 4:05 pm]: UCC approved in December.
<table>
<thead>
<tr>
<th>Justification for this request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course hasn’t been taught in several years and is no longer included in our communication with students.</td>
</tr>
</tbody>
</table>
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 12:23 pm

Viewing: BMEN 423 : Microscale Bio-Optic Applications

Last edit: 10/06/17 12:23 pm
Changes proposed by: mlyons

Catalog Pages referencing this course
BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

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</table>

Course prefix        BMEN
Department           Biomedical Engineering
College/School       College of Engineering
Academic Level       Undergraduate
Undergraduate course level justification (Select One)

Effective term       2018-2019

Course number        423
Complete Course Title Microscale Bio-Optic Applications
Abbreviated Course Title MICROSCALE BIO-OPTIC APP

Catalog course description
Introduction to biomedical applications of lasers to manipulation, detection and visualization on (sub-) cellular length scales; emphasis on the governing principles on which applications are founded; includes applications from recent literature.

Prerequisites and Restrictions
BMEN 306 and BMEN 322; junior or senior classification.

Concurrent Enrollment No
Should catalog prerequisites / concurrent enrollment be enforced? No
Crosslistings No
Crosslisted With
Stacked No
Stacked with

Approval Path

1. 10/06/17 4:47 pm
   Michael McShane (mcsanche): Approved for BMEN Department Head

2. 10/08/17 2:23 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review

3. 10/25/17 8:29 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG

4. 10/27/17 8:47 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG

5. 10/27/17 9:25 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG

6. 11/13/17 4:56 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/04/17 4:06 pm
   Sandra Williams (sandra-williams): Approved for UCC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/
1/10/2018  

**BMEN 423: Microscale Bio-Optic Applications**

<table>
<thead>
<tr>
<th>Semester Credit Hour(s)</th>
<th>Contact Hour(s) (per week):</th>
<th>Lecture: 3</th>
<th>Lab: 0</th>
<th>Other: 0</th>
<th>Total: 3</th>
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</thead>
<tbody>
<tr>
<td>Repeatable for credit?</td>
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<td></td>
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<td></td>
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<tr>
<td>CIP/Fund Code</td>
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<tr>
<td>Default Grade Mode</td>
<td>Letter Grade(G)</td>
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<tr>
<td>Method of instruction</td>
<td>Lecture</td>
<td></td>
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<td>Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)</td>
<td>No</td>
<td></td>
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<td>Is 100% of this course going to be taught in Texas?</td>
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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 consideration? No

---

**Course Syllabus**

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation No

Additional information

Reviewer Comments: Sandra Williams [sandra-williams] (12/04/17 4:06 pm): UCC approved in December.
Justification for this request

Course hasn't been taught in several years and is no longer included in our communication with students.
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 12:24 pm

Viewing: BMEN 424: Biomedical Sensing and Imaging at the Nanoscale

Last edit: 10/06/17 12:24 pm
Changes proposed by: mlyons

Catalog Pages referencing this course

BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

<table>
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<th>Phone</th>
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<td><a href="mailto:mlyons@tamu.edu">mlyons@tamu.edu</a></td>
<td>9798452312</td>
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</table>

Course prefix: BMEN  Course number: 424

Department: Biomedical Engineering
College/School: College of Engineering
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title
Biomedical Sensing and Imaging at the Nanoscale

Abbreviated Course Title
NANO SENSING & IMAGING

Catalog course description
Introduction to nanotechnology with an emphasis on biomedical techniques and medical applications; basic physics of contrast agents to the engineering of current sensing and imaging systems applied at the nanoscale.

Prerequisites and Restrictions
Senior classification or approval of instructor.

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

Crosslistings: No
Crosslisted With: No

Stacked: No
Stacked with: No

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/06/17 4:47 pm Michael McShane (mcs Shane): Approved for BMEN Department Head
2. 10/08/17 2:23 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:29 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:47 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:25 am Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:57 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:06 pm Sandra Williams (sandra-williams): Approved for UCC Chair

https://nextcatalog.tamu.edu/courseleaf/approve#
<table>
<thead>
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<th>Semester Credit Hour(s)</th>
<th>Contact Hour(s) (per week):</th>
<th>Lecture: 3</th>
<th>Lab: 0</th>
<th>Other: 0</th>
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<tr>
<td>Default Grade Mode</td>
<td>Letter Grade(G)</td>
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<td>Method of instruction</td>
<td>Lecture</td>
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</table>

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?

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?

No

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

No

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

No

**Course Syllabus**

Upload syllabus

Letters of support or other documentation

No

Additional information

Reviewer Comments: Sandra Williams (sandra-williams) [12/04/17 4:06 pm]: UCC approved in December.
| Justification for this request | Course hasn't been taught in several years and is no longer included in our communication with students. |
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 12:24 pm

Viewing: BMEN 426: Optical Biosensors

Last edit: 10/06/17 12:24 pm
Changes proposed by: mlyons

Catalog Pages referencing this course
- BMEN - Biomedical Engineering (BMEN)
- Department of Biomedical Engineering

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maria Lyons</td>
<td><a href="mailto:mlyons@tamu.edu">mlyons@tamu.edu</a></td>
<td>9798452312</td>
</tr>
</tbody>
</table>

Course prefix: BMEN
Course number: 426
Department: Biomedical Engineering
College/School: College of Engineering
Academic Level: Undergraduate
Undergraduate course level justification (Select One)
- Effective term: 2018-2019

Complete Course Title
- Optical Biosensors
Abbreviated Course Title
- OPTICAL BIOSENSORS

Catalog course description
- Biosensing principles and detailed analysis of optical methods for transduction; fluorescence-based transduction; molecular recognition of targets; immobilization of sensing reagents; quantitative analysis of sensing systems; design and characterization of sensing assays and associated measurement systems; review of historical and current trends in optical biosensors.

Prerequisites and Restrictions
- Senior classification or approval of instructor.
Concurrent Enrollment: No
Should catalog prerequisites/concurrent enrollment be enforced? No
Crosslistings: No
Crosslisted With
Stacked: No
Stacked with

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/06/17 4:47 pm
   Michael McShane (mcsbrane): Approved for BMEN Department Head
2. 10/08/17 2:23 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:30 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:47 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:25 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:57 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:06 pm
   Sandra Williams (sandra-williams): Approved for UCC Chair
Semester Credit Hour(s) 3
Contact Hour(s) (per week): Lecture: 3 Lab: 0 Other: 0 Total 3

Repeatable for credit? No
CIP/Fund Code 1405010006
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)

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)

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 consideration? No

Course Syllabus

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation No

Additional information
Reviewer Comments Sandra Williams (sandra-williams) (12/04/17 4:06 pm): UCC approved in December.
Justification for this request: Course hasn't been taught in several years and is no longer included in our communication with students.
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 12:25 pm

Viewing: BMEN 430 : Medical Device Regulation

Last edit: 10/06/17 12:25 pm
Changes proposed by: mlyons

Catalog Pages
referencing this course
BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

<table>
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</table>

Course prefix    BMEN    Course number  430
Department        Biomedical Engineering
College/School    College of Engineering
Academic Level    Undergraduate
Undergraduate course level justification (Select One)

Effective term    2018-2019
Complete Course Title    Medical Device Regulation
Abbreviated Course Title    MEDICAL DEVICE REGULATN

Catalog course description
Introduction to the regulations of the U.S. Food and Drug Administration pertaining to testing and marketing medical devices.

Prerequisites and Restrictions
BMEN 310; junior or senior classification.

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

Crosslistings    No    Crosslisted With
Stacked    No    Stacked with

Semester Credit 3 Contact Hour(s) (per week): Lecture 3 Lab 0 Other 0 Total 3
Hour(s)          No
Repeatability for credit?       No
CIP/Fund Code       1405010006
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?  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)
Has/will this course be(e)n submitted for core curriculum consideration?  No
Has/will this course be(e)n submitted for Writing or Communication consideration?  No
Has/will this course be(e)n submitted for ICD consideration?  No

Course Syllabus

Syllabus:      Upload syllabus
Upload syllabus

Letters of support or other documentation  No

Additional information
Reviewer Comments  Sandra Williams (sandra-williams) (12/04/17 4:06 pm): UCC approved in December.

Justification for this request  Content combined into other existing BMEN courses.

https://nextcatalog.tamu.edu/courseleaf/approve/
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 12:26 pm

Viewing: BMEN 440 : Design of Medical Devices

Last edit: 10/06/17 12:25 pm
Changes proposed by: mlyons

Catalog Pages
referencing this course:

- BMEN - Biomedical Engineering (BMEN)
  Department of Biomedical Engineering

Contact(s)

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</table>

Course prefix: BMEN
Course number: 440

Department: Biomedical Engineering
College/School: College of Engineering
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Design of Medical Devices
Abbreviated Course Title: DSN OF MEDICAL DEVICES

Catalog course description:
Overview of the multiple issues in designing a marketable medical device, including the design process from clinical problem definition through prototype and clinical testing to market readiness; includes FDA regulation, human factors and system safety considerations and medical product liability.

Prerequisites and Restrictions:
- BMEN 342; senior classification in engineering.

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced?

Crosslistings: No

Stacked: No

In Workflow
1. BMEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/06/17 4:47 pm Michael McShane (mcsanche): Approved for BMEN Department Head
2. 10/08/17 2:23 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:29 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 8:47 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:25 am Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 4:57 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/04/17 4:06 pm Sandra Williams (sandra-williams): Approved for UCC Chair

https://nextcatalog.tamu.edu/courseleaf/approve/
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments: Sandra Williams (sandra-williams) (12/04/17 4:06 pm): UCC approved in December.
| Justification for this request | Content combined into other existing classes. |
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 12:31 pm

Viewing: BMEN 460 : Vascular Mechanics

Last edit: 10/06/17 12:31 pm
Changes proposed by: mlyons

Catalog Pages referencing this course
BMEN - Biomedical Engineering (BMEN)
Department of Biomedical Engineering

Contact(s)

<table>
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</table>

Course prefix          BMEN  Course number   460
Department              Biomedical Engineering
College/School          College of Engineering
Academic Level          Undergraduate
Undergraduate course level justification (Select One)
Effective term          2018-2019
Complete Course Title   Vascular Mechanics
Abbreviated Course Title VASCULAR MECHANICS

Catalog course description
Application of continuum mechanics to the study of the heart arteries; emphasis on the measurement and quantification of material properties, and the calculation of vascular stresses; analysis of several cardiovascular devices to reinforce the need for careful analysis in the device design.

Prerequisites and Restrictions
BMEN 240.
Concurrent Enrollment   No
Should catalog prerequisites / concurrent enrollment be enforced? No
Crosslistings           No
Crosslisted With
Stacked                 No
Stacked with

Approval Path

1. 10/06/17 4:47 pm
   Michael McShane
   (mcsanche): Approved for BMEN Department Head

2. 10/08/17 2:23 pm
   Sandra Williams
   (sandra-williams): Approved for Curricular Services Review

3. 10/25/17 8:29 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG

4. 10/27/17 8:47 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG

5. 10/27/17 9:25 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG

6. 11/13/17 4:57 pm
   Sandra Williams
   (sandra-williams): Approved for UCC Preparer

7. 12/04/17 4:06 pm
   Sandra Williams
   (sandra-williams): Approved for UCC Chair
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments: Sandra Williams (sandra-williams) (12/04/17 4:06 pm): UCC approved in December.
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/06/17 12:32 pm

Viewing: BMEN 462 : Vascular Fluid Mechanics

Last edit: 10/06/17 12:32 pm

Changes proposed by: mlyons

Contact(s)

<table>
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<td>9798452312</td>
</tr>
</tbody>
</table>

Course prefix     BMEN       Course number  462
Department        Biomedical Engineering
College/School    College of Engineering
Academic Level    Undergraduate
Undergraduate course level justification (Select One)

Effective term    2018-2019
Complete Course Title
Vascular Fluid Mechanics
Abbreviated Course Title VASCULAR FLUID MECHANICS

Catalog course description
Bio-fluid mechanics of the human circulatory system including examination of disease development and medical treatments.

Prerequisites and Restrictions
BMEN 240 or equivalent; junior or senior classification.

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

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: 3  Credit Hour(s): 3
Contact Hour(s) (per week): Lecture: 3  Lab: 0  Other: 0  Total: 3
Repeatable for credit: No
CIP/Fund Code: 1405010006
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? 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)

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

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

Has/will this course be(e)n submitted for ICD 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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<tbody>
<tr>
<td>Additional information</td>
<td></td>
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<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) (12/04/17 4:07 pm): UCC approved in December.</td>
</tr>
<tr>
<td>Justification for this request</td>
<td>Course hasn't been taught in several years and is no longer included in our communication with students.</td>
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</table>
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/06/17 12:32 pm

Viewing: BMEN 470: Introduction of Biomedical Optics

Also Known As: CHEN 470

Last edit: 10/06/17 12:32 pm

Changes proposed by: mlyons

Catalog Pages referencing this course
- Artie McFerrin Department of Chemical Engineering
  BMEN - Biomedical Engineering (BMEN)
  CHEN - Chemical Engineering (CHEN)
- Department of Biomedical Engineering

Other Courses referencing this course
- As A Banner Equivalent: CHEN 470: Introduction of Biomedical Optics

Contact(s)

<table>
<thead>
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<td>Maria Lyons</td>
<td><a href="mailto:mlyons@tamu.edu">mlyons@tamu.edu</a></td>
<td>9798452312</td>
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</table>

Course prefix  BMEN  Course number  470

Department  Biomedical Engineering
College/School  College of Engineering
Academic Level  Undergraduate
Undergraduate course level justification (Select One)

Effective term  2018-2019

Complete Course Title  Introduction of Biomedical Optics
Abbreviated Course Title  INTRO BIOMEDICAL OPTICS

Catalog course description
- Fundamentals of biomedical optics; basic engineering principles used in optical therapeutics, optical diagnostics and optical biosensing.

Prerequisites and Restrictions
- MATH 308; PHYS 208.

Concurrent Enrollment  No

Should catalog prerequisites / concurrent enrollment be enforced?  Yes

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

Approval Path
1. 10/06/17 4:48 pm
   Michael McShane (mcsheane): Approved for BMEN Department Head
2. 10/06/17 4:56 pm
   M. Nazmul Karim (nazkarim): Approved for CHEN Department Head
3. 10/08/17 2:23 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
4. 10/25/17 8:30 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
5. 10/27/17 8:48 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
6. 10/27/17 9:26 am
   Prasad Enjeti (enjeti): Approved for EN College Dean UG
7. 11/13/17 4:57 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer

https://nextcatalog.tamu.edu/courseleaf/approve#
Enforced Prerequisites / Concurrent Enrollment

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<td>And</td>
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Crosslistings
Yes
Crosslisted With
CHEN 470

Stacked
No
Stacked with

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<th>Semester</th>
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<th>Lab:</th>
<th>Other:</th>
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</table>

Repeatable for credit?
No

CIP/Fund Code
1405010006

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

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

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?
No

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

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

<table>
<thead>
<tr>
<th>Syllabus:</th>
<th>Upload syllabus</th>
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<tbody>
<tr>
<td>Upload syllabus</td>
<td></td>
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<td>Sandra Williams (sandra-williams) (12/04/17 4:07 pm); UCC approved in December.</td>
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<tr>
<td>Justification for this request</td>
<td>Course hasn't been taught in several years and is no longer included in our communication with students.</td>
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Key: 2363
Course Change Request

Course Inactivation Proposal

Date Submitted: 11/20/17 2:47 pm

Viewing: CHEM 103: Structure and Bonding

Last edit: 11/20/17 2:47 pm

Changes proposed by: hgaede

Catalog Pages referencing this course:
- BIOL - Biology (BIOL)
- CHEM - Chemistry (CHEM)
- College of Science
- Department of Biology
- Department of Chemistry
- BS-STAT: Statistics - BS

Programs referencing this course:

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Holly Gaede</td>
<td><a href="mailto:hgaede@tamu.edu">hgaede@tamu.edu</a></td>
<td>979-845-0520</td>
</tr>
</tbody>
</table>

Course prefix: CHEM
Course number: 103

Department: Chemistry
College/School: Science
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Structure and Bonding
Abbreviated Course Title: STRUCTURE AND BONDING

Catalog course description:
Rigorous treatment of chemical principles and their application.

Prerequisites and Restrictions:
For entering students with satisfactory scores on math and chemistry placement examinations; concurrent enrollment in CHEM 113.

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. 11/20/17 3:02 pm
   Simon North (swnorth):
   Approved for CHEM Department Head

2. 11/20/17 3:08 pm
   Sandra Williams (sandra-williams):
   Approved for Curricular Services Review

3. 11/21/17 1:30 pm
   Sara Thigpin (sarathigpin):
   Approved for SC Committee Preparer UG

4. 11/21/17 1:33 pm
   Lucas Macri (lmacri):
   Approved for SC Committee Chair UG

5. 11/21/17 1:34 pm
   Lucas Macri (lmacri):
   Approved for SC College Dean UG

6. 11/21/17 1:57 pm
   Sandra Williams (sandra-williams):
   Approved for UCC Preparer

7. 12/04/17 4:07 pm
   Sandra Williams (sandra-williams):
   Approved for UCC Chair
Crosslistings: No  Crosslisted With
Stacked: No  Stacked with

Semester: 3  Contact Hour(s) per week:
Charge: Lecture: 3  Lab: 0  Other: 0  Total: 3
Credit Hour(s):
Repeatable for credit? No
CIP/Fund Code: 4005010002
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)

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

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(e) submitted for core curriculum consideration? No

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

Has/will this course be(e) submitted for ICD consideration? No

---

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus
<table>
<thead>
<tr>
<th>Letters of support or other documentation</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information</td>
<td></td>
</tr>
<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) (12/04/17 4:07 pm): UCC approved in December.</td>
</tr>
<tr>
<td>Justification for this request</td>
<td><strong>We no longer intend to offer this course.</strong></td>
</tr>
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</table>
# Course Change Request

A deleted record cannot be edited

## Course Inactivation Proposal

**Date Submitted:** 11/20/17 2:47 pm

**Viewing:** CHEM 104 : Chemistry of the Elements

**Last edit:** 11/20/17 2:47 pm

Changes proposed by: hgaede

### Catalog Pages referencing this course

- CHEM - Chemistry (CHEM)
- College of Science
- Department of Chemistry
- Department of Materials Science and Engineering
- Department of Mechanical Engineering
- Department of Nuclear Engineering
- Department of Oceanography
- MEEN - Mechanical Engineering (MEEN)

### Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holly Gaede</td>
<td><a href="mailto:hgaede@tamu.edu">hgaede@tamu.edu</a></td>
<td>979-845-0520</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course prefix</th>
<th>Course number</th>
<th>Academic Level</th>
<th>Undergraduate course level justification (Select One)</th>
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</thead>
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<td>104</td>
<td>Science</td>
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<tr>
<th>Effective term</th>
<th>Complete Course Title</th>
<th>Abbreviated Course Title</th>
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<tr>
<td>2018-2019</td>
<td>Chemistry of the Elements</td>
<td>CHEM OF THE ELEMENTS</td>
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</table>

### Catalog course description

Continuation of CHEM 103.

### Prerequisites and Restrictions

- CHEM 103 and CHEM 113; concurrent enrollment in CHEM 114.

### 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>
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https://nextcatalog.tamu.edu/courseleaf/approve/
Course Syllabus

Syllabus: Upload syllabus
Upload syllabus
<table>
<thead>
<tr>
<th>Letters of support or other documentation</th>
<th>No</th>
</tr>
</thead>
</table>

Additional information

Reviewer Comments  
Sandra Williams (sandra-williams) (12/05/17 10:19 am): UCC approved in December.

Justification for this request  
we no longer intend to offer this course.
Course Change Request

A deleted record cannot be edited

**Course Inactivation Proposal**

Date Submitted: 11/20/17 2:47 pm

**Viewing: CHEM 113 : Physical and Chemical Principles**

Last edit: 11/20/17 2:47 pm

Changes proposed by: hgaede

Catalog Pages referencing this course:

- BIOL - Biology (BIOL)
- CHEM - Chemistry (CHEM)
- College of Science
- Department of Biology
- Department of Chemistry
- BS-STAT: Statistics - BS

Programs referencing:

Contact(s)

<table>
<thead>
<tr>
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<tbody>
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<td>979-845-0520</td>
</tr>
</tbody>
</table>

Course prefix: CHEM  
Course number: 113

Department: Chemistry  
College/School: Science

Academic Level: Undergraduate  
Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Physical and Chemical Principles

Abbreviated Course Title: PHYSICAL & CHEM PRIN

Catalog course description:
Elementary experiments in physical chemistry and quantitative analysis.

Prerequisites and Restrictions:
CHEM 103 or registration therein.

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced?

Crosslistings: No  
Crosslisted With

Stacked: No  
Stacked with

<table>
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<tr>
<th>Semester</th>
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<th>Lecture</th>
<th>Lab</th>
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</table>

Approval Path

1. 11/20/17 3:02 pm  
Simon North (sworth): Approved for CHEM Department Head

2. 11/20/17 3:08 pm  
Sandra Williams (sandra-williams): Approved for Curricular Services Review

3. 11/21/17 1:30 pm  
Sara Thigpin (sarathigpin): Approved for SC Committee Preparer UG

4. 11/21/17 1:33 pm  
Lucas Macri (lmacri): Approved for SC Committee Chair UG

5. 11/21/17 1:34 pm  
Lucas Macri (lmacri): Approved for SC College Dean UG

6. 11/21/17 1:57 pm  
Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/05/17 10:19 am  
Sandra Williams (sandra-williams): Approved for UCC Chair
Course Syllabus

Syllabus:  Upload syllabus

Upload syllabus

Letters of support or other documentation:  No

Additional information:

Reviewer Comments:  Sandra Williams (sandra-williams) (12/05/17 10:19 am): UCC approved in December.

Justification for this request:  We no longer intend to offer this course.
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 11/20/17 2:48 pm

Viewing: CHEM 114 : Qualitative Analysis

Last edit: 11/20/17 2:48 pm

Changes proposed by: hgaede

Catalog Pages referencing this course:
- CHEM - Chemistry (CHEM)
- College of Science
- Department of Chemistry
- Department of Materials Science and Engineering
- Department of Mechanical Engineering
- Department of Nuclear Engineering
- MEEN - Mechanical Engineering (MEEN)
- MEEN - Materials Science & Eng (MEEN)

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<td>979-845-0520</td>
</tr>
</tbody>
</table>

Course prefix: CHEM
Course number: 114
Department: Chemistry
College/School: Science
Academic Level: Undergraduate
Undergraduate course level justification: (Select One)

Effective term: 2018-2019

Complete Course Title:
Qualitative Analysis

Abbreviated Course Title:
QUALITATIVE ANALYSIS

Catalog course description:
Qualitative analysis, elementary inorganic syntheses and quantitative aspects of chemical equilibrium.

Prerequisites and Restrictions:
CHEM 104 or registration therein; CHEM 113.

Concurrent Enrollment:
No

Should catalog prerequisites / concurrent enrollment be enforced?
Yes

Enforced Prerequisites / Concurrent Enrollment

And/Or (Course Prefix/Number) Min Grade/Score Academic Level Concurrency?

In Workflow
1. CHEM Department Head
2. Curricular Services Review
3. SC Committee Preparer UG
4. SC Committee Chair UG
5. SC 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. 11/20/17 3:02 pm
   Simon North (swnorth):
   Approved for CHEM Department Head
2. 11/20/17 3:08 pm
   Sandra Williams (sandra-williams):
   Approved for Curricular Services Review
3. 11/21/17 1:30 pm
   Sara Thigpin (sarathigpin):
   Approved for SC Committee Preparer UG
4. 11/21/17 1:33 pm
   Lucas Macri (lmacri):
   Approved for SC Committee Chair UG
5. 11/21/17 1:34 pm
   Lucas Macri (lmacri):
   Approved for SC College Dean UG
6. 11/21/17 1:57 pm
   Sandra Williams (sandra-williams):
   Approved for UCC Preparer
7. 12/05/17 10:19 am
   Sandra Williams (sandra-williams):
   Approved for UCC Chair
| And | CHEM 113 | D | UG | | No |
| Crosslistings | No | Crosslisted With | |
| Stacked | No | Stacked with | |

| Semester | 1 |
| Credit | |
| Hour(s) | |
| Contact Hour(s) | |
| (per week): | |
| Lecture: | 0 |
| Lab: | 3 |
| Other: | 0 |
| Total | 3 |

Repeatable for credit? No
CIP/Fund Code 4005020002
Default Grade Mode Letter Grade (G)
Method of instruction Laboratory

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? 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(e)n submitted for core curriculum consideration? No

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

Course Syllabus

Syllabus: Upload syllabus
Upload syllabus

https://nextcatalog.tamu.edu/courseleaf/approve#
<table>
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<td>Sandra Williams (sandra-williams) (12/05/17 10:19 am): UCC approved in December.</td>
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<tr>
<td>Justification for this request</td>
<td>We no longer intend to offer this course.</td>
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Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 11/20/17 2:48 pm

Viewing: **CHEM 317 : Quantitative Analysis**

Last edit: 11/20/17 2:48 pm

Changes proposed by: hgaede

<table>
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<th>Catalog Pages referencing this course</th>
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<tr>
<td>CHEM - Chemistry (CHEM)</td>
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<tr>
<td>Department of Chemistry</td>
</tr>
<tr>
<td>Department of Nutrition and Food Science</td>
</tr>
<tr>
<td>PSTC - Food Science &amp; Tech.</td>
</tr>
<tr>
<td>BS-USSC-SST*: University Studies - BS, Science for Secondary Teaching</td>
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<tr>
<td>Concentration</td>
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<td>MINOR-CHEM: Chemistry - Minor</td>
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<tr>
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<td><a href="mailto:hgaede@tamu.edu">hgaede@tamu.edu</a></td>
<td>979-845-0520</td>
</tr>
</tbody>
</table>

Course prefix: CHEM  
Course number: 317  
Department: Chemistry  
College/School: Science  
Academic Level: Undergraduate

Undergraduate course level justification (Select One):

Effective term: 2018-2019

Complete Course Title: Quantitative Analysis

Abbreviated Course Title: QUANTITATIVE ANALYSIS

Catalog course description:

Introduction to the fundamental principles and applications of modern instrumental techniques of quantitative analysis, with emphasis on spectroscopic and chromatographic methods.

Prerequisites and Restrictions:

CHEM 316.

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>

In Workflow

1. CHEM Department Head
2. Curricular Services Review
3. SC Committee Preparer UG
4. SC Committee Chair UG
5. SC 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. 11/20/17 3:02 pm
   Simon North (swnorth): Approved for CHEM Department Head
2. 11/20/17 3:08 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 11/21/17 1:30 pm
   Sara Thigpin (sarathigpin): Approved for SC Committee Preparer UG
4. 11/21/17 1:33 pm
   Lucas Macri (lmacri): Approved for SC Committee Chair UG
5. 11/21/17 1:34 pm
   Lucas Macri (lmacri): Approved for SC College Dean UG
6. 11/21/17 1:57 pm
   Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/05/17 10:19 am
   Sandra Williams (sandra-williams): Approved for UCC Chair

https://nextcatalog.tamu.edu/course/leh/
Crosslistings: No
Stacked: No

Semester: 2
Credit Hour(s): 2
Contact Hour(s) (per week): Lecture: 2 Lab: 0 Other: 0 Total: 2
Repeatable for credit?: No
CIP/Fund Code: 4005020002
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?:

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?: No

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

Course Syllabus

Syllabus: Upload syllabus

Upload syllabus
<table>
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<td>Additional information</td>
<td></td>
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<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) (12/05/17 10:19 am): UCC approved in December.</td>
</tr>
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</table>

| Justification for this request           | **We no longer intend to offer this course.** |

Key: 2777
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:06 pm

Viewing: **OCEN 100 : Introduction to Offshore and Coastal Engineering**

Formerly Known As: **MASE 100**

Last approved: 06/01/17 3:22 am

Last edit: 10/12/17 7:29 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

- Department of Ocean Engineering
- OCEN - Ocean Engineering (OCEN)

Faculty Senate Number: **55-34-163**

Contact(s)

<table>
<thead>
<tr>
<th>Name</th>
<th>E-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles Donaway</td>
<td><a href="mailto:cdonaway@civil.tamu.edu">cdonaway@civil.tamu.edu</a></td>
<td>9798459723</td>
</tr>
</tbody>
</table>

Course prefix: **OCEN**  
Course number: **100**

Department: **Ocean Engineering**

College/School: **College of Engineering**

Academic Level: **Undergraduate**

Undergraduate course level justification (Select One)

- Academic Level (alternate)

Effective term: **2018-2019**

Complete Course Title: **Introduction to Offshore and Coastal Engineering**

Abbreviated Course Title: **INTRO OFFSHR & CSTL ENGR**

Catalog course description:

Introduction to offshore and coastal engineering principles with emphasis on offshore structures, underwater pipelines, floating production systems, current advances in offshore technologies; coastal structures, coastal processes, port and harbor design and advances in ocean/wind energy technologies.

Prerequisites and Restrictions:

- MATH 151 or concurrent enrollment; freshman and sophomore classification.

Concurrent Enrollment: **No**

In Workflow

1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/12/17 3:22 pm  
   Sharath Girimaji  
   (girimaji): Approved for OCEN Department Head

2. 10/12/17 7:29 pm  
   Sandra Williams  
   (sandra-williams): Approved for Curricular Services Review

3. 10/25/17 8:31 pm  
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG

4. 10/27/17 9:15 am  
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG

5. 10/27/17 9:47 am  
   Prasad Enjeti (enjeti): Approved for EN College Dean UG

6. 11/13/17 6:24 pm  
   Sandra Williams  
   (sandra-williams): Approved for UCC Preparer

7. 12/05/17 10:20 am  
   Sandra Williams  
   (sandra-williams): Approved for UCC Chair

History

https://nextcatalog.tamu.edu/courseleaf/approve/
Enforced Prerequisites / Concurrent Enrollment

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<th>Concurrency?</th>
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Crosslistings: No
Crosslisted With:

Stacked: No
Stacked with:

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

Repeatable for credit: No
Three-peat: No
CIP/Fund Code: 1424010006
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: No
### Course Syllabus

<table>
<thead>
<tr>
<th>Syllabus:</th>
<th>Upload syllabus</th>
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<tbody>
<tr>
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<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload files</td>
<td>TAMUG Prefix Change - MASE to OCEN.pdf</td>
</tr>
<tr>
<td>Additional information</td>
<td>TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.</td>
</tr>
<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) [12/05/17 10:19 am]: UCC approved in December.</td>
</tr>
<tr>
<td>Reported to state?</td>
<td></td>
</tr>
</tbody>
</table>

**Justification for this request:** Course will no longer be offered.
TAMUG

Change in Courses

Prefix change from MASE to OCEN
Memorandum

To: The University Curriculum Committee
Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering
Through: Dr. Patrick Louchouarn, Executive Associate Vice President for Academic Affairs
From: Dr. Donna Lang, Associate Vice President for Academic Operations
Date: October 6, 2016
Subject: Requested Prefix Change from MASE to OCEN

As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

A teach out plan for the BS in Offshore and Coastal Systems Engineering was approved by the TAMU President and submitted to both the Texas Higher Education Coordination Board (THECB) and the Southern Association of Colleges and Schools (SACS). We do not believe that changing the prefix will substantially impact the teach out plan but caution against additional course changes before the 20-21 catalog.

As noted below, eight MASE courses already have corresponding OCEN courses. In these cases, we respectfully request to leave the MASE courses on the TAMUG Course Inventory to maintain the integrity of the OCSE teach out plan. While several of the courses are similar, at least one is significantly different (title, content, credit hours, prerequisites, etc.). Maintaining these eight MASE courses will simplify the administration of the OCSE program until May 2020.

Courses that will change to OCEN
MASE 100 Introduction to Offshore and Coastal Engineering
MASE 210 Properties of Engineering Materials
MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
MASE 261 Applied Numerical Methods
MASE 265 Introduction to Geotechnical Engineering
MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
MASE 415 Offshore Structure Design
MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:13 pm


Formerly Known As: MASE 210

Last approved: 06/01/17 3:16 am

Last edit: 10/12/17 7:29 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

Department of Ocean Engineering
OCEN - Ocean Engineering (OCEN)

Faculty Senate Number: FS.34.163

Contact(s)

<table>
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<td>Charlie Donaway</td>
<td><a href="mailto:cdonaway@civil.tamu.edu">cdonaway@civil.tamu.edu</a></td>
<td><a href="mailto:sarah.gordon@tamu.edu">sarah.gordon@tamu.edu</a></td>
</tr>
</tbody>
</table>

Course prefix: OCEN  
Course number: 210

Department: Ocean Engineering

College/School: College of Engineering

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Academic Level (alternate): Graduate

Effective term: 2018-2019

Complete Course Title: Properties of Engineering Materials

Abbreviated Course Title: PROPERTIES ENGR MATERIALS

Catalog course description:

Atomic and crystalline structures of materials; mechanical properties, failure, corrosion and thermal processes of metallic materials; tensile, hardness, impact and torsion testing of metal alloys.

Prerequisites and Restrictions:

ENGR 212, ENGR 221 and PHYS 208.

Concurrent Enrollment: No

Should catalog prerequisites/concurrent enrollment be enforced? Yes

In Workflow

1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/12/17 3:22 pm Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/12/17 7:29 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:32 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 9:15 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
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6. 11/13/17 6:24 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/05/17 10:20 am Sandra Williams (sandra-williams): Approved for UCC Chair

History

https://nextcatalog.tamu.edu/courseleaf/approve/
## Enforced Prerequisites / Concurrent Enrollment

<table>
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<td>And</td>
<td>PHYS 208</td>
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Crosslistings: No  
Crosslisted With:  
Stacked: No  
Stacked with:  

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

Repeatable for credit? No  
Three-peat? No  
CIP/Fund Code: 1418010006  
Default Grade Mode: Letter Grade(G)  
Alternate Grade Modes: Satisfactory/Unsatisfactory  
Method of instruction: Laboratory

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? 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>
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<th>Program(s)</th>
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<tr>
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</table>

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>
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<th>Syllabus:</th>
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<tr>
<td>Letters of support or other documentation</td>
<td>Yes</td>
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<tr>
<td>Upload files</td>
<td><a href="#">TAMUG Prefix Change - MASE to OCEN.pdf</a></td>
</tr>
<tr>
<td>Additional information</td>
<td>TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.</td>
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<tr>
<td>Reviewer Comments</td>
<td>Sandra Williams (sandra-williams) (12/05/17 10:20 am): UCC approved in December.</td>
</tr>
<tr>
<td>Reported to state?</td>
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</tr>
<tr>
<td>Justification for this request</td>
<td><strong>Course will no longer be offered.</strong></td>
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Key: 10046
TAMUG

CHANGE IN COURSES

PREFIX CHANGE FROM MASE TO OCEN
As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

A teach out plan for the BS in Offshore and Coastal Systems Engineering was approved by the TAMU President and submitted to both the Texas Higher Education Coordination Board (THECB) and the Southern Association of Colleges and Schools (SACS). We do not believe that changing the prefix will substantially impact the teach out plan but caution against additional course changes before the 20-21 catalog.

As noted below, eight MASE courses already have corresponding OCEN courses. In these cases, we respectfully request to leave the MASE courses on the TAMUG Course Inventory to maintain the integrity of the OCSE teach out plan. While several of the courses are similar, at least one is significantly different (title, content, credit hours, prerequisites, etc.). Maintaining these eight MASE courses will simplify the administration of the OCSE program until May 2020.

Courses that will change to OCEN
- MASE 100 Introduction to Offshore and Coastal Engineering
- MASE 210 Properties of Engineering Materials
- MASE 212 Engineering Science in Thermodynamics
- MASE 213 Principles of Materials Engineering
- MASE 214 Mechanics of Deformable Bodies
- MASE 215 Principles of Electrical Engineering
- MASE 216 Principles of Thermodynamics
- MASE 217 Electrical Engineering: Circuits
- MASE 221 Engineering Mechanics: Statics
- MASE 261 Applied Numerical Methods
- MASE 265 Introduction to Geotechnical Engineering
MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
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MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:14 pm

Viewing: OCEN 212 : Engineering Science in Thermodynamics

Formerly Known As: MASE 212

Last approved: 06/01/17 3:26 am

Last edit: 10/12/17 7:30 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

Department of Ocean Engineering

OCEN - Ocean Engineering (OCEN)

Faculty Senate Number: FS-34.163

Contact(s)

<table>
<thead>
<tr>
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<td>Charlie Donaway</td>
<td>Sandra-Williams</td>
<td><a href="mailto:cdonaway@civil.tamu.edu">cdonaway@civil.tamu.edu</a> <a href="mailto:sandra-williams@tamu.edu">sandra-williams@tamu.edu</a></td>
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Course prefix: OCEN

Course number: 212

Department: Ocean Engineering

College/School: College of Engineering

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Academic Level (alternate): Graduate

Effective term: 2018-2019

Complete Course Title: Engineering Science in Thermodynamics

Abbreviated Course Title: ENGR SCI THERMODYNAMICS

Catalog course description:

Theory and application of thermodynamics as an engineering science; applications of the laws of thermodynamics and energy equations to heat transfer and flow.

Prerequisites and Restrictions:

ENGR 221 and MATH 251 or concurrent enrollment.

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced? Yes

Approval Path

1. 10/12/17 3:22 pm
   Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/12/17 7:30 pm
   Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:32 pm
   Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 9:15 am
   Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:48 am
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   Sandra Williams (sandra-williams): Approved for UCC Preparer
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   Sandra Williams (sandra-williams): Approved for UCC Chair

History

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<td>Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)</td>
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This will be a required course or an elective course for the following programs:

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<tr>
<td>(BS-OCEN) Ocean Engineering - BS</td>
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</table>

Course Syllabus

- Syllabus: Upload syllabus
Letters of support or other documentation: Yes

Upload files: TAMUG Prefix Change - MASE to OCEN.pdf

Additional information: TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.

Reviewer Comments: Sandra Williams (sandra-williams) [12/05/17 10:20 am]: UCC approved in December.

Justification for this request: Course will no longer be offered.
TAMUG
Change in Courses
Prefix change from MASE to OCEN
Memorandum

To: The University Curriculum Committee
Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering
Through: Dr. Patrick Louchouarn, Executive Associate Vice President for Academic Affairs
From: Dr. Donna Lang, Associate Vice President for Academic Operations
Date: October 6, 2016
Subject: Requested Prefix Change from MASE to OCEN

As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

A teach out plan for the BS in Offshore and Coastal Systems Engineering was approved by the TAMU President and submitted to both the Texas Higher Education Coordination Board (THECB) and the Southern Association of Colleges and Schools (SACS). We do not believe that changing the prefix will substantially impact the teach out plan but caution against additional course changes before the 20-21 catalog.

As noted below, eight MASE courses already have corresponding OCEN courses. In these cases, we respectfully request to leave the MASE courses on the TAMUG Course Inventory to maintain the integrity of the OCSE teach out plan. While several of the courses are similar, at least one is significantly different (title, content, credit hours, prerequisites, etc.). Maintaining these eight MASE courses will simplify the administration of the OCSE program until May 2020.

Courses that will change to OCEN
MASE 100 Introduction to Offshore and Coastal Engineering
MASE 210 Properties of Engineering Materials
MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
MASE 261 Applied Numerical Methods
MASE 265 Introduction to Geotechnical Engineering

P. O. Box 1675 | Galveston, TX 77553-1675
Tel. 409.740.4419
langd@tamug.edu | www.tamug.edu
MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
MASE 415 Offshore Structure Design
MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:23 pm

Viewing: OCEN 215 : Principles of Electrical Engineering

Formerly Known As: MASE 215

Last approved: 06/23/17 3:26 am

Last edit: 10/12/17 3:23 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

Department of Ocean Engineering
OCEN - Ocean Engineering (OCEN)

Contact(s)

<table>
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<th>Phone</th>
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<tr>
<td>Charles Donaway</td>
<td><a href="mailto:cdonaway@civil.tamu.edu">cdonaway@civil.tamu.edu</a></td>
<td>9798459723</td>
</tr>
</tbody>
</table>

Course prefix       OCEN    Course number  215
Department          Ocean Engineering
College/School      College of Engineering
Academic Level      Undergraduate

Effective term      2018-2019

Complete Course Title
Principles of Electrical Engineering

Abbreviated Course Title
PRIN OF ELECTRICAL ENGR

Catalog course description
Fundamentals of electric circuit analysis, AC power, and electronics; intended as a terminal course in these areas for most engineering disciplines.

Prerequisites and Restrictions
PHYS 208, MATH 308 or concurrent enrollment.

Concurrent Enrollment No

Should catalog prerequisites / concurrent enrollment be enforced? No

Crosslistings No

Stacked No

Approval Path

1. 10/16/17 2:45 pm Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/16/17 4:56 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:33 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 9:15 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:48 am Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 7:24 pm Sandra Williams (sandra-williams): Approved for UCC Preparer

History
Semester: 3  
Contact Hour(s): 4  
Lecture: 2  
Lab: 2  
Other: 0

Repeatable for credit? No
CIP/Fund Code: 1401010006
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>
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<tbody>
<tr>
<td>(BS-OCEN) Ocean Engineering - BS</td>
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</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 consideration? No

---

**Course Syllabus**

Syllabus: Upload syllabus
Upload syllabus

Letters of support or other documentation: Yes
Upload files: TAMUG Prefix Change - MAE to OCEN.pdf
<table>
<thead>
<tr>
<th>Additional information</th>
<th>TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.</th>
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</table>
| Reviewer Comments      | Charles Donaway (charlie8) (10/12/17 3:25 pm): Course will no longer be offered  
Sandra Williams (sandra-williams) (12/05/17 10:20 am): UCC approved in December. |
| Justification for this request | **MATH 308 or concurrent enrollment** |
TAMUG

CHANGE IN COURSES

PREFIX CHANGE FROM MASE TO OCEN
Memorandum

To: The University Curriculum Committee

Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
         Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering
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From: Dr. Donna Lang, Associate Vice President for Academic Operations

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Courses that will change to OCEN

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MASE 210 Properties of Engineering Materials
MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
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MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:24 pm

Viewing: OCEN 216: Principles of Thermodynamics

Formerly Known As: MASE 216

Last approved: 06/01/17 3:17 am

Last edit: 10/12/17 3:24 pm

Changes proposed by: charlie8

Catalog Pages referencing this course: Department of Ocean Engineering

OCEN - Ocean Engineering (OCEN)

Other Courses referencing this course: As A Banner Prerequisite:

OCEN 213: Principles of Materials Engineering

Contact(s)

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</table>

Course prefix: OCEN  
Course number: 216

Department: Ocean Engineering

College/School: College of Engineering

Academic Level: Undergraduate

Effective term: 2018-2019

Complete Course Title: Principles of Thermodynamics

Abbreviated Course Title: PRINCIPLES OF THERMODYNAMICS

Catalog course description:

Theory and application of thermodynamics as an engineering science; study of work, heat and energy as applied to open and closed systems; introduction to entropy, reversible and irreversible processes; intended as a terminal course in these areas.

Prerequisites and Restrictions:

ENGR 221 and MATH 251 or concurrent enrollment.

Concurrent Enrollment: No

Should catalog prerequisites/concurrent enrollment be enforced?: Yes

In Workflow

1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
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10. Provost II
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Approval Path

1. 10/16/17 2:45 pm  
Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/16/17 4:56 pm  
Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:33 pm  
Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
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History

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Crosslistings: No
Stacked: No

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

Repeatable for credit?: No
CIP/Fund Code: 1419010006
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)

Program(s)

(OCEN) Ocean Engineering - BS

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
### Course Syllabus

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**Additional information**

TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.

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Key: 10051
TAMUG

CHANGE IN COURSES

PREFIX CHANGE FROM MASE TO OCEN
Memorandum

To: The University Curriculum Committee

Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs

Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering

Through: Dr. Patrick Louchouarn, Executive Associate Vice President for Academic Affairs

From: Dr. Donna Lang, Associate Vice President for Academic Operations

Date: October 6, 2016

Subject: Requested Prefix Change from MASE to OCEN

As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

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Courses that will change to OCEN

MASE 100 Introduction to Offshore and Coastal Engineering
MASE 210 Properties of Engineering Materials
MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
MASE 261 Applied Numerical Methods
MASE 265 Introduction to Geotechnical Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 3:26 pm

Viewing: **OCEN 217 : Electrical Engineering: Circuits**

Formerly Known As: **MASE 217**

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

Last edit: 10/12/17 3:26 pm

Changes proposed by: charlie8

<table>
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<td>Department of Ocean Engineering</td>
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<td>OCEN - Ocean Engineering (OCEN)</td>
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Contact(s)

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<td><a href="mailto:cdonaway@civil.tamu.edu">cdonaway@civil.tamu.edu</a></td>
<td>9798459723</td>
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</tbody>
</table>

Course prefix: OCEN  
Department: Ocean Engineering  
College/School: College of Engineering  
Academic Level: Undergraduate  

Undergraduate course level justification (Select One)

Effective term: 2018-2019  
Complete Course Title
Electrical Engineering: Circuits

Abbreviated Course Title
ELECTRICAL ENGR CIRCUITS

Catalog course description

Fundamental principles of electric circuit analysis, DC and AC electricity, electric power; designed to prepare for topical questions from the P.E. exam; intended as a terminal course in these areas.

Prerequisites and Restrictions
PHYS 208.

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

In Workflow

1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/16/17 2:45 pm  
Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/16/17 4:56 pm  
Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:33 pm  
Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
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7. 12/05/17 10:20 am  
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History

https://nextcatalog.tamu.edu/courseleaf/approve/
## Enforced Prerequisites / Concurrent Enrollment

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**Crosslistings:** No

**Stacked:** No

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

**Repeatable for credit:** No

**CIP/Fund Code:** 1410010006

**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]

**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

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Has/Will this course be(en) submitted for ICD consideration? No

Program(s)

(BS-OCEN) Ocean Engineering - BS
## Course Syllabus

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CHANGE IN COURSES

PREFIX CHANGE FROM MASE TO OCEN
Memorandum

To: The University Curriculum Committee

Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs

Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering

Through: Dr. Patrick Louchouarn, Executive Associate Vice President for Academic Affairs

From: Dr. Donna Lang, Associate Vice President for Academic Operations

Date: October 6, 2016

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MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
MASE 415 Offshore Structure Design
MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/12/17 4:12 pm

Viewing: OCEN 310: Engineering Analysis

Formerly Known As: MASE 310

Last approved: 06/23/17 3:27 am

Last edit: 10/12/17 4:12 pm

Changes proposed by: charlie8

Catalog Pages referencing this course:
- Department of Ocean Engineering
- OCEN - Ocean Engineering (OCEN)

Other Courses referencing this course:
- As A Banner Prerequisite:
  - OCEN 405: Finite Element Analysis in Engineering Design
  - OCEN 463: Hydrodynamics of Offshore Structures

Contact(s)

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Course prefix: OCEN
Course number: 310
Department: Ocean Engineering
College/School: College of Engineering
Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019
Complete Course Title: Engineering Analysis
Abbreviated Course Title: ENGINEERING ANALYSIS

Catalog course description:
Application of numerical methods to ocean-related engineering problems; development, evaluation, and comparison of various techniques for root finding, curve fitting, numerical integration, simultaneous linear algebraic equations, matrix methods, probability and statistics, and ordinary differential equations in ocean-related engineering applications.

Prerequisites and Restrictions:
- Junior or senior classification or approval of instructor; MATH 308 or concurrent enrollment; ENGR 111 and ENGR 112.

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

In Workflow
1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
9. Faculty Senate
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11. President
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Approval Path
1. 10/16/17 2:45 pm Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/16/17 4:56 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:33 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
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History

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Enforced Prerequisites / Concurrent Enrollment

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

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Repeatable for credit? No

CIP/Fund Code 1424010006

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

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

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Has/will this course be(en) submitted for Program(s):

(BS-OCEN) Ocean Engineering - BS

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Key: 10061
TAMUG

Change in Courses

Prefix Change from MASE to OCEN
Memorandum

To: The University Curriculum Committee

Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering
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MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/12/17 4:13 pm

Viewing: OCEN 319 : Naval Architecture Design I

Formerly Known As: MASE 319

Last approved: 06/23/17 3:15 am

Last edit: 10/12/17 4:13 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

Department of Ocean Engineering

OCEN - Ocean Engineering (OCEN)

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Course prefix: OCEN

College/School: College of Engineering

Department: Ocean Engineering

Effective term: 2018-2019

Academic Level: Undergraduate

Course number: 319

Undergraduate course level justification (Select One)

Prerequisites and Restrictions

CVEN 311 and CVEN 345 or concurrent enrollment; OCEN 221 and OCEN 214 or concurrent enrollment; junior or senior classification or approval of instructor; enrollment in OCEN major degree sequence.

Catalog course description

Introduction to Naval Architecture; terminology; hydrostatics and hydrostatic stability; processes of the design of ships, semi-submersibles and underwater vehicles including layout, arrangements, construction and construction techniques; hull design of ships, underwater vehicles and mobile offshore drilling units (MODUs).

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced: Yes

In Workflow

1. OCEN Department Head
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5. EN College Dean UG
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History

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Crosslistings: No

Stacked: No

Semester: 3
Credit Hour(s): Contact Hour(s) (per week): Lecture: 2 Lab: 3 Other: 0 Total: 5
Repeatable for credit? No
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Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: Yes

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Reviewer Comments: Sandra Williams (sandra-williams) [12/05/17 10:21 am]: UCC approved in December.

Justification for this request: Course will no longer be offered
TAMUG

CHANGE IN COURSES

PREFIX CHANGE FROM MASE TO OCEN
Memorandum

To: The University Curriculum Committee
Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
Through: Dr. Sharath Girimaji, Professor and Interim Head, Ocean Engineering
Through: Dr. Patrick Loucheaurm, Executive Associate Vice President for Academic Affairs
From: Dr. Donna Lang, Associate Vice President for Academic Operations
Date: October 6, 2016
Subject: Requested Prefix Change from MASE to OCEN

As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

A teach out plan for the BS in Offshore and Coastal Systems Engineering was approved by the TAMU President and submitted to both the Texas Higher Education Coordination Board (THECB) and the Southern Association of Colleges and Schools (SACS). We do not believe that changing the prefix will substantially impact the teach out plan but caution against additional course changes before the 20-21 catalog.

As noted below, eight MASE courses already have corresponding OCEN courses. In these cases, we respectfully request to leave the MASE courses on the TAMUG Course Inventory to maintain the integrity of the OCSE teach out plan. While several of the courses are similar, at least one is significantly different (title, content, credit hours, prerequisites, etc.). Maintaining these eight MASE courses will simplify the administration of the OCSE program until May 2020.

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MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
MASE 261 Applied Numerical Methods
MASE 265 Introduction to Geotechnical Engineering
MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
MASE 415 Offshore Structure Design
MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/16/17 2:40 pm

Viewing: OCEN 463: Hydrodynamics of Offshore Structures

Formerly Known As: MASE 463

Last approved: 06/23/17 3:26 am

Last edit: 10/16/17 2:40 pm

Changes proposed by: charlie8

Catalog Pages referencing this course
- Department of Ocean Engineering
- OCEN - Ocean Engineering (OCEN)

Other Courses referencing this course
- As A Banner Prerequisite: OCEN 415 - Offshore Structure Design

Contact(s)

<table>
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<td>979-845-9723</td>
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</table>

Course prefix          OCEN          Course number  463
Department             Ocean Engineering
College/School         College of Engineering
Academic Level         Undergraduate

Effective term         2018-2019

Complete Course Title  Hydrodynamics of Offshore Structures
Abbreviated Course Title HYDRODYN OFFSHORE STRUCTURES

Catalog course description
- Introduction to offshore structures; wave force formulation; wave forces on small structures; floating structure dynamics; modeling dynamics systems of rigid body motion; structure response statistics.

Prerequisites and Restrictions
- Junior or senior classification or approval of instructor; OCEN 261, OCEN 363, CVEN 345 and OCEN 300; enrollment in OCEN program.

Concurrent Enrollment
- No

Should catalog prerequisites/concurrent enrollment be enforced?
- Yes

In Workflow
1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN 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. 10/16/17 2:46 pm Sharath Girimaji (girimaji): Approved for OCEN Department Head
2. 10/16/17 4:56 pm Sandra Williams (sandra-williams): Approved for Curricular Services Review
3. 10/25/17 8:34 pm Eileen Hoy (ehoy): Approved for EN Committee Preparer UG
4. 10/27/17 9:16 am Prasad Enjeti (enjeti): Approved for EN Committee Chair UG
5. 10/27/17 9:48 am Prasad Enjeti (enjeti): Approved for EN College Dean UG
6. 11/13/17 6:24 pm Sandra Williams (sandra-williams): Approved for UCC Preparer
7. 12/05/17 10:21 am Sandra Williams (sandra-williams): Approved for UCC Chair

History

https://nextcatalog.tamu.edu/courseleaf/approve/
### Enforced Prerequisites / Concurrent Enrollment

<table>
<thead>
<tr>
<th>And/Or</th>
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<td>OCEN 310</td>
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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  
- **CIP/Fund Code:** 1422010006  
- **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 Program(s):**

(BS-OCEN) Ocean Engineering - BS

No
Course Syllabus

Syllabus: Upload syllabus

Upload syllabus

Letters of support or other documentation: Yes

Upload files: TAMUG Prefix Change - MASE to OCEN.pdf

Additional information: TAMUG prefix change only from MASE to OCEN. Prefix change requested through attached memo and approved by UCC. The changes made, if any, to the description/prerequisites are simply to conform to the new prefix and the catalog style guide.

Reviewer Comments: Sandra Williams (sandra-williams) (12/05/17 10:21 am): UCC approved in December.

Justification for this request: Course will no longer be offered.
TAMUG
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PREFIX CHANGE FROM MASE TO OCEN
Memorandum

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Through: Dr. Prasad Enjeti, Associate Dean for Academic Affairs
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MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/16/17 2:44 pm

Viewing: OCEN 475 : Environmental Fluid Mechanics

Last edit: 10/16/17 2:44 pm

Changes proposed by: charlie8

Catalog Pages

- Department of Ocean Engineering
- OCEN - Ocean Engineering (OCEN)

Programs referencing this course

- BS-CVEN-COF: Civil Engineering, BS - Coastal and Ocean Engineering Track

Contact(s)

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Course prefix          OCEN  Course number  475

Department              Ocean Engineering
College/School           College of Engineering
Academic Level          Undergraduate

Undergraduate course level justification (Select One)

Effective term          2018-2019

Complete Course Title  Environmental Fluid Mechanics

Abbreviated Course Title  ENVIRONMENTAL FLUID MECH

Catalog course description

Examines fluid and mass transport in naturally occurring flows; topics include molecular and turbulent diffusion; dispersion; river, estuary, and ocean mixing; dissolution boundary layers; tidal mixing; offshore wastewater outfalls; introduction to environmental quality numerical modeling.

Prerequisites and Restrictions

CVEN 311.

Concurrent Enrollment  No

Should catalog prerequisites / concurrent enrollment be enforced?  No

Crosslistings  No  Crosslisted With  

Stacked  No  Stacked with  

In Workflow

1. OCEN Department Head
2. Curricular Services Review
3. EN Committee Preparer UG
4. EN Committee Chair UG
5. EN College Dean UG
6. UCC Preparer
7. UCC Chair
8. Faculty Senate Preparer
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Approval Path

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https://nextcatalog.tamu.edu/courseleaf/approve/
Course Syllabus

Syllabus: Upload syllabus

Letters of support or other documentation: No

Additional information

Reviewer Comments: Sandra Williams [sandra-williams] (12/05/17 10:21 am): UCC approved in December.
Course will no longer be offered.
Course Change Request

A deleted record cannot be edited

Course Inactivation Proposal

Date Submitted: 10/16/17 2:45 pm

Viewing: OCEN 482 : Seminar

Formerly Known As: MASE 482

Last approved: 06/23/17 3:18 am

Last edit: 10/16/17 2:45 pm

Changes proposed by: charlie8

Catalog Pages referencing this course

Department of Ocean Engineering
OCEN - Ocean Engineering (OCEN)

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Course prefix: OCEN

Course number: 482

Department: Ocean Engineering

College/School: College of Engineering

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title

Seminar

Abbreviated Course Title

SEMINAR

Catalog course description

State of technology topics in ocean engineering; professional ethics, membership in professional societies and professional registrations; case studies and lectures presented by staff and practicing engineers.

Prerequisites and Restrictions

Junior or senior classification or approval of instructor; enrollment in OCEN program.

Concurrent Enrollment

No

Should catalog prerequisites / concurrent enrollment be enforced?

No

Crosslistings

No

Crosslisted With

Stacked

No

Stacked with

11/06/17 2:34 pm
Sharath Girimaji (girimaji): Approved for OCEN Department Head

11/07/17 7:44 pm
Sandra Williams (sandra-williams): Approved for Curricular Services Review

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11/19/17 9:51 am
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History

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<td>Lab: 0</td>
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Repeateable for credit? No
CIP/Fund Code 1424010006
Default Grade Mode Letter Grade(G)
Method of instruction Seminar

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? 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:

**Program(s)**
(BS-OCEN) Ocean Engineering - BS

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 consideration? No

**Course Syllabus**

Syllabus: Upload syllabus
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MASE 265 Introduction to Geotechnical Engineering

P. O. Box 1675 | Galveston, TX 77553-1675
Tel. 409.740.4419
langd@tamug.edu | www.tamug.edu
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MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering
Course Change Request

Course Inactivation Proposal

Date Submitted: 10/16/17 2:46 pm

Viewing: OCEN 483 : Marine Foundation Analysis and Design

Formerly Known As: MASE 483

Last approved: 06/23/17 3:22 am

Last edit: 10/16/17 2:46 pm

Changes proposed by: charlie8

Catalog Pages referencing this course
- Department of Ocean Engineering
  - OCEN - Ocean Engineering (OCEN)

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Course prefix: OCEN

Department: Ocean Engineering

College/School: College of Engineering

Academic Level: Undergraduate

Undergraduate course level justification (Select One)

Effective term: 2018-2019

Complete Course Title: Marine Foundation Analysis and Design

Abbreviated Course Title: MARINE FOUNDATION ANALYS

Catalog course description:

Design of foundations for onshore, alonshore and offshore structures, including prediction of settlement and the bearing capacity of shallow and deep foundations; determination of earth pressure acting on retaining structures and design of steel and concrete bulkheads; design of pile foundations; design of cofferdams and caissons; laboratory tests conducted to determine the physical and engineering properties needed for application in geotechnical engineering design.

Prerequisites and Restrictions:
- CVEN 345, CVEN 346, CVEN 365; junior or senior classification or approval of instructor; enrollment in OCEN program.

Concurrent Enrollment: No

Should catalog prerequisites / concurrent enrollment be enforced?: No

Crosslistings: No

Crosslisted With:

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History
Semester: 3  
Credit Hour(s): 3  
Contact Hour(s) (per week): Lecture: 2  Lab: 3  Other: 0  
Total: 5  
Repeatability for credit: No  
CIP/Fund Code: 1422010006  
Default Grade Mode: Letter Grade(G)  
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Will sections of this course be taught as non-traditional? (i.e., parts of term, distance education)  
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**Course Syllabus**

Syllabus:  
Upload syllabus  
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Letters of support or other documentation:  
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Date: October 6, 2016
Subject: Requested Prefix Change from MASE to OCEN

As of fall 2015, the College of Engineering at Texas A&M University established the Department of Ocean Engineering, a department that combined two existing programs—the BS in Ocean Engineering (OCEN) in College Station and the BS in Offshore & Coastal Systems Engineering (OCSE) in Galveston. The faculty of the TAMUG Department of Maritime Systems Engineering (which administered the BS in Offshore & Coastal Systems Engineering) merged with the new TAMU Department of Ocean Engineering. To further facilitate this merger and begin to transition to the new OCEN curriculum, we respectfully request to change the prefix on the MASE courses as listed below to OCEN where there is no duplicate course already existing in OCEN. No other course changes will be made at this time.

A teach out plan for the BS in Offshore and Coastal Systems Engineering was approved by the TAMU President and submitted to both the Texas Higher Education Coordination Board (THECB) and the Southern Association of Colleges and Schools (SACS). We do not believe that changing the prefix will substantially impact the teach out plan but caution against additional course changes before the 20-21 catalog.

As noted below, eight MASE courses already have corresponding OCEN courses. In these cases, we respectfully request to leave the MASE courses on the TAMUG Course Inventory to maintain the integrity of the OCSE teach out plan. While several of the courses are similar, at least one is significantly different (title, content, credit hours, prerequisites, etc.). Maintaining these eight MASE courses will simplify the administration of the OCSE program until May 2020.

Courses that will change to OCEN
MASE 100 Introduction to Offshore and Coastal Engineering
MASE 210 Properties of Engineering Materials
MASE 212 Engineering Science in Thermodynamics
MASE 213 Principles of Materials Engineering
MASE 214 Mechanics of Deformable Bodies
MASE 215 Principles of Electrical Engineering
MASE 216 Principles of Thermodynamics
MASE 217 Electrical Engineering: Circuits
MASE 221 Engineering Mechanics: Statics
MASE 261 Applied Numerical Methods
MASE 265 Introduction to Geotechnical Engineering

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MASE 285 Directed Studies
MASE 310 Engineering Analysis
MASE 319 Naval Architecture Design I
MASE 341 Engineering Economics and Project Management
MASE 344 Reinforced Concrete Structures
MASE 363 Dynamics and Vibrations
MASE 405 Finite Element Analysis in Engineering Design
MASE 406 Capstone Design I
MASE 411 Environmental Nearshore Hydrodynamics
MASE 415 Offshore Structure Design
MASE 421 Naval Architecture Design II
MASE 459 Mechanical Vibrations
MASE 461 Ocean Instrumentation and Control Theory
MASE 463 Hydrodynamics of Offshore Structures
MASE 465 Subsea Pipeline Design
MASE 467 Offshore Random Processes
MASE 474 Port and Harbor Engineering
MASE 482 Seminar
MASE 483 Marine Foundation Analysis and Design

Courses that will remain MASE
MASE 336 Flow Measurement Fundamentals
MASE 400 Introduction to Coastal Engineering
MASE 401 Underwater Acoustics
MASE 407 Capstone Design II
MASE 410 Measurements in the Ocean Laboratory
MASE 485 Directed Studies
MASE 489 Special Topics
MASE 491 Research in Maritime Systems Engineering