Memo

From: Stephen Wood
Date: 11/15/2018
Re: Prerequisite changes to Ocean Engineering classes

The enclosed changes to these ocean engineering courses are with respect to updating the co- and prerequisites for some of our courses that have become outdated over the last 20 so years.

These changes were evaluated by the entire ocean engineering faculty.

With best regards,

Stephen

Stephen Wood, Ph.D., Prof. Eng.
Program Chair - Ocean Engineering
Florida Institute of Technology
150 W. University Blvd.
Melbourne, Florida 32901
321-674-7244
swood@fit.edu
Florida Institute of Technology

REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES

DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE: O C E 3 0 3 0

Fluid Mechanics

Course Title

TO BE INCLUDED IN 20 19 /20 20 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name:

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite MTH 2201 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite MTH 1002 ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (F/V, S/U, A-S, CDE), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Prerequisites: PHY 2002, MTH 1002

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature] 11/5/18

2) [Signature] 11/5/18

3) [Signature] 12/1/15

4) Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

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RGR-254-1015
REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE CoES

DEPARTMENT Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE O C E 3 5 2 1

Hydromechanics and wave theory

Course Title

TO BE INCLUDED IN 20 19 /20 20 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? □ Yes □ No If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, please check all that apply:

Add □ Remove □ Prerequisite □ Corequisite MTH 2001 Prefix and □ or

Add □ Remove □ Prerequisite □ Corequisite MTH 2201 Prefix Number and □ or

□ Add □ Remove □ Other Restrictions* □ Yes □ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CR/DR), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Prerequisites: MTH 2001, MTH 2201, OCE 3030 or OCN 3430

□ Yes □ No Is this request for the course to be used to measure program-level student learning outcomes?

□ Yes □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

□ Yes □ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature]

Date 11/15/18

2) [Signature]

Date 11/15/18

3) [Signature]

Date 12/17/18

4) [Signature]

Date

Chair, Graduate Council

OR

Chair, Undergraduate Curriculum Committee

Date

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Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

Colleges CoES DEPARTMENT Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE OCE 4525 Coastal Engineering Structures

Course Title

TO BE INCLUDED IN 2019/2020 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? □ Yes □ No If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? □ Yes □ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? □ Add □ Remove □ Prerequisite □ Co-requisite CVE 3030 and □ or

☐ Add □ Remove □ Prerequisite □ Co-requisite OCE 3030 and □ or

☐ Add □ Remove □ Other Restrictions* □ Yes □ No If yes, please check all that apply:

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CUS), structuring a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Prerequisites: OCE 3521

☐ Yes □ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes □ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes □ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Original 11/15/18 Date 4) Chair, Graduate Council 11/15/18 Date

2) Department Head/Program Chair 11/15/18 Date OR

3) Dean or Associate Dean 12/17/15 Date Chair, Undergraduate Curriculum Committee Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE CoES DEPARTMENT Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE Prefix 4 5 3 1 Number Instrumentation Design and Measurement Analysis COURSE TITLE

TO BE INCLUDED IN 2019/20 CATALOG Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☑ No If yes, requested name______________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite Prefix OCE 2002 Number ☐ and ☐ or
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite Prefix Number ☐ and ☐ or
☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (FY, SY, H, A-I, CIU), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:
Prerequisites: PHY 2002, OCE 2002 or CSE 1502 or CSE 1503

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?
☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.
☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Author Date
2) Department Head/Program Chair Date
3) Dean of Associate Dean Date
4) Chair, Graduate Council Date

OR

Chair, Undergraduate Curriculum Committee Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES

DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE: 4 5 5 0
Prefix Number Course Title

Hydrographic surveying

TO BE INCLUDED IN 20_19_/20_20_ CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  
☐ Yes  ☐ No  
If yes, requested name: ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  
If yes, current credits: __________ requested credits: __________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  
If yes, please check all that apply:

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite

☐ Add  ☐ Remove  ☐ Other Restrictions*  ☐ Yes  ☐ No
If yes, please use box below:

Remove all prerequisites

Add Sr. Standing (Per S&W)

☐ Yes  ☐ No  Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes  ☐ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes  ☐ No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1)  
2)  
3)  
4)  

Chair, Graduate Council  
Date

OR

Chair, Undergraduate Curriculum Committee  
Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE  CoES  DEPARTMENT Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE  OCE 4561  Fundamentals of Offshore Engineering

TO BE INCLUDED IN 2019-2020 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes  ■ No  If yes, requested name ____________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes  ■ No  If yes, current credits ______ requested credits ______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  ◻ Add  □ Remove  ■ Prerequisite  □ Corequisite  □ MTH 2001  □ and  □ or  □ Add  □ Remove  □ Prerequisite  □ Corequisite  □ MTH 2001  □ and  □ or  □ Add  □ Remove  □ Other Restrictions*  ◻ Yes  ■ No  If yes, please use box below:

Prerequisites: MAE 3083, OCE 3030, MTH 2001

Other restrictions may include changing the grade mode (PF, S/A, A-F, CUI), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved.

☐ Yes  ■ No  Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes  ■ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes  ■ No  Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1)  Origination
   2)  Department Head/Program Chair
   3)  Dean or Associate Dean
   4)  Chair, Graduate Council

Date  Date  Date  Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES
DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE: Senior Projects

PREFIX: OCE 4541
NUMBER: 4

TO BE INCLUDED IN 20/20 CATALOG:
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name __________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits _______ requested credits _______

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite OCE 4541 _______ and ☐ or
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite _______ and ☐ or
☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, SU, A-F, CO), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:
Prerequisites: OCE 4541, Senior Standing or program chair approval

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) Original

2) Department Head/Program Chair

3) Dean or Associate Dean

4) Chair, Graduate Council

Date Date

OR

Date

Date

Date

Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

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COLLEGE CoES
DEPARTMENT Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE O C E 4 5 9 5 Senior Projects

Prefix

Number

Course Title

TO BE INCLUDED IN 20 19 /20 20 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name________________________________________

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits________ requested credits________

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:
☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite OCE 4541 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite OCE 4594 ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (PF, S/U, A-F, CR/D), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:
Prerequisites: OCE 4541, Senior Standing or program chair approval

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) ______________________ 11/15/18 4) ______________________
Organizer Date Chair, Graduate Council Date

2) ______________________ 12/18/18
Department Head/Program Chair Date OR

3) ______________________ 12/17/18
Dean/Associate Dean Date Chair, Undergraduate Curriculum Committee Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: 

DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE: Senior Projects

Prefix Number Senior Projects

TO BE INCLUDED IN 20 __/20 __ CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? 
☐ Yes  ☐ No  If yes, requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  
☐ Yes  ☐ No  If yes, please check all that apply:

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  OCE 4541 ☐ and ☐ or

☐ Add  ☐ Remove  ☐ Prerequisite  ☐ Corequisite  OCE 4595 ☐ and ☐ or

☐ Add  ☐ Remove  ☐ Other Restrictions* ☐ Yes  ☐ No  If yes, please use box below:

*Other restrictions may include changing the grade mode (FY, S/N, A-F, CDI), deactivating a course already in the system, majors or class lists restricted from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:
Prerequisites: OCE 4541, Senior Standing or program chair approval

☐ Yes  ☐ No  Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes  ☐ No  Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach “Q” materials for review.

☐ Yes  ☐ No  Will this change impact any existing programs? If yes, attach “Changing Graduation Requirements” form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature]  11/15/18

2) [Signature]  12/17/18

3) [Signature]  12/17/18

4) [Signature]  12/17/18

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES
DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE: OCE 4911 Marine Field Projects

TO BE INCLUDED IN 2019/2020 CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No ____________ requested name

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No ____________ requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No ____________ requested restrictions

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite OCN 3401 ☐ and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite ____________ ☐ and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No ____________ requested other restrictions

*Other restrictions may include changing the grade mode (P/F, S/U, A-F, CI), destructuring a course already in the system, majors or class level restrictions from registration, or other restrictions.
Please enter the complete prerequisite/restriction list as it should appear if this change is approved:
Prerequisites: OCE 4541

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) __________________________ 4) __________________________
Department Head/Program Chair Date Chair, Graduate Council Date

2) __________________________
Department Head/Program Chair Date

3) __________________________
Dean or Associate Dean Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES

DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE

Prefix: C E 4 9 1 2
Number: Marine Field Projects

Course Title

TO BE INCLUDED IN 20 19 / 20 20 CATALOG

Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE? ☐ Yes ☐ No If yes, requested name:

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE? ☐ Yes ☐ No If yes, please check all that apply:

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

Prefix: OCN 3401
Number: 4 9 1 2

and ☐ or

☐ Add ☐ Remove ☐ Prerequisite ☐ Corequisite

Prefix: OCN 3401
Number: 4 9 1 2

and ☐ or

☐ Add ☐ Remove ☐ Other Restrictions* ☐ Yes ☐ No If yes, please use box below:

*Other restrictions may include changing the grade mode (P/F, S/D, A-E, CR/NC), deactivating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Prerequisites: OCE 4541

☐ Yes ☐ No Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes ☐ No Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach “Q” materials for review.

☐ Yes ☐ No Will this change impact any existing programs? If yes, attach “Changing Graduation Requirements” form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, OR Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature] 11/5/18

Chair, Graduate Council

Date

2) [Signature] 11/5/18

Department Head/Program Chair

Date

OR

3) [Signature] 12/7/18

Dean of Associate Dean

Date

Chair, Undergraduate Curriculum Committee

Date

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REQUEST TO CHANGE THE REQUIREMENTS FOR A COURSE

Any change, addition or removal of any restriction, or change in credit hours or availability for a course requires this form, accompanied by any supporting documentation, be completed and approved as indicated below.

COLLEGE: CoES

DEPARTMENT: Ocean Engineering and Marine Sciences

REQUEST IS FOR CHANGE IN COURSE  O C E  4 9 1 3

Marine Field Projects

Course Title

TO BE INCLUDED IN 20__/20__ CATALOG
Course changes are effective beginning with the fall term in which they appear in the University Catalog.

IS REQUEST FOR A CHANGE IN THE NAME LISTED ABOVE?  □ Yes  □ No

If yes, requested name:

IS REQUEST FOR A CHANGE IN CREDITS FOR COURSE LISTED ABOVE?  □ Yes  □ No

If yes, current credits requested credits

IS REQUEST TO CHANGE RESTRICTIONS FOR COURSE LISTED ABOVE?  □ Yes  □ No

Please check all that apply:

□ Add □ Remove □ Prerequisite □ Corequisite

OCN 3401

Prefix Number

□ and or

□ Add □ Remove □ Prerequisite □ Corequisite

Prefix Number

□ and or

□ Add □ Remove □ Other Restrictions*

□ Yes  □ No

If yes, please use box below:

*Other restrictions may include changing the grade made (P/F, S/U, A-F, CELU), designating a course already in the system, majors or class levels restricted from registration, or other restrictions.

Please enter the complete prerequisite/restriction list as it should appear if this change is approved:

Prerequisites: OCE 4541

☐ Yes  □ No

Is this request for the course to be used to measure program-level student learning outcomes?

☐ Yes  □ No

Is this request for the course to satisfy the scholarly inquiry requirement? If yes, attach "Q" materials for review.

☐ Yes  □ No

Will this change impact any existing programs? If yes, attach "Changing Graduation Requirements" form for each program that is impacted.

APPROVALS: Once appropriate department approvals are completed, submit to the Office of Graduate Programs, or Undergraduate Curriculum Committee Chair for placement on agenda.

1) [Signature]

Date

2) [Signature]

Department Head/Program Chair

Date

3) [Signature]

Dean or Associate Dean

Date

4) [Signature]

Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

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RGR-254-1015
Undergraduate Curriculum Committee:

Documents and forms for proposed curriculum changes in the Environmental Science program are included herein. The changes involve the Environmental Science (ENS) QEP course sequence which currently consists of 7 ENS credits beginning the junior spring semester (1 credit, ENS 3911), followed by summer Field Projects, FP with 6 credits total including 2 sections of ENS 4911 (1 credit each) and 2 sections of ENS 4912 (2 credits each). The proposed changes are in response to a request by the administration to rein in (consolidate) our (OEMS) low enrollment summer programs.

1. Remove five of the six Environmental Science (ENS) credits from the Summer Field Projects (FP) course sequence (Junior Summer). This includes one section of ENS 4911 (1 credit), and both sections of ENS 4912 (2 credits). A single credit (of ENS 4911), associated with the summer cruise, will remain as will the spring FP proposal course, ENS 3911 (1 credit).

2. Move ENS 4912 (2 credits) to the senior fall semester.

4. Move one credit of ENS 4911 to the senior spring semester.

5. Remove the restricted elective scheduled during the senior fall semester.

The last bullet is designed to maintain a comparable course load for the senior fall (note that ENS majors also have a restricted elective option their senior spring semester). The one credit of ENS 4911 for the senior spring semester will be used, in part, to ensure that students complete their projects, i.e., presentations and final reports as well as their posters for the Engineering Showcase. The aforementioned changes will reduce the total number of curriculum hours for Oceanography majors from 132 to 127. The current SACs BS evaluation for the Environmental Science program depends on FP-based outcomes. However, because we are moving (and not eliminating) ENS 4911 and ENS 4912, we do not anticipate changes in SACs for this program.

Sincerely

Dr. Steven M. Lazarus
Program Chair, OEMS
Professor of Meteorology

Note in Catalog:
ENS 4911 must be repeated in 3rd senior term.
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

COLLEGE: College of Engineering and Science

DEPARTMENT: OEMS

DEGREE LEVEL: BS

PROGRAM TITLE: Environmental Science

TO BE INITIATED WITH CATALOG YEAR 2019/2020

CHANGE REQUESTED FOR: □ major program □ minor program 7222 Major/Minor Code

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes □ No Will this change impact the program's assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

DESCRIPTION OF REQUESTED CHANGES: Attach a more detailed description and any supporting documentation.

We propose to:

1. Remove 5 of the 6 Environmental Science (ENS) credits from the Summer Field Projects (FP) course sequence (Junior Summer). This includes: 2 sections of ENS 4912 (4 credits total), and 1 section of ENS 4901 (1 credit). Note that the summer cruise, ENS 4911 (1 credit), will remain as will the spring FP proposal course, ENS 3911 (1 credit). See cover letter for details.

2. Move ENS 4912 (2 credits) to the senior fall semester.

3. Add a second section of ENS 4911 (1 credit) during the senior spring semester.

4. Remove the restricted elective scheduled during the senior fall semester.

The aforementioned changes will reduce the total number of curriculum hours for Oceanography majors from 132 to 127.

* The SACs BS evaluation, which depends on FP-related outcomes, will not change since we are retaining the core FP courses (ENS 4911 and ENS 4912). There are no new courses proposed, see cover letter for additional details.

* See attached flow charts for curriculum impact (current/proposed).

Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.

Chair, Graduate Council

Date

OR

Chair, Undergraduate Curriculum Committee

Date

REGISTRAR'S USE ONLY

CAPP / Degree Evaluation

☐ Yes □ No Update completed Date Initials

Catalog Management System

☐ Yes □ No Update completed Date Initials
Environmental Science (7222) Undergraduate Curriculum Change Summary

**Moved Course**

**JUNIOR SUMMER**  1 credit (reduced from 6)

- ENS 4911 Environmental Field Projects 1 (Q)  (retain 1 section/1 credit for cruise)
- ENS 4912 Environmental Field Projects 2 (Q)  (remove 1 section/2 credits, move 2nd section/2 credits to senior fall)

**SENIOR FALL**  15 credits (reduced from 16)

- ENS 4912 Environmental Field Projects 2 (Q)  (moved from summer)
- BUS 4426 Environmental and Resource Economics 3
- ENS 4800 Limnology 3
- MAR 3410 General Ecology 4
- Restricted Electives Credit Hours: 3*
- Social Science Elective Credit Hours: 3

**SENIOR SPRING**  16 credits (increased from 15)

- ENS 4004 Aquatic Environmental Toxicology 3
- ENS 4600 Radiation and Environmental Protection 3
- ENS 4701 Environmental Regulation and Impact Assessment 3
- OCN 4204 Marine and Environmental Pollution 3
- ENS 4911 Environmental Field Projects 1 (Q)
- Restricted Elective Credit Hours: 3*

**TOTAL CREDIT HOURS FOR GRADUATION:** 127 (reduced from 132)
Undergraduate Curriculum Committee:

Documents and forms for proposed curriculum changes in the Oceanography program are included herein. The changes involve the Environmental Science (ENS) QEP course sequence which currently consists of 7 ENS credits beginning the junior spring semester (1 credit, ENS 3911), followed by summer Field Projects, FP with 6 credits total including 2 sections of ENS 4911 (1 credit each) and 2 sections of ENS 4912 (2 credits each). The proposed changes are in response to a request by the administration to rein in (consolidate) our (OEMS) low enrollment summer programs.

1. Remove five of the six Environmental Science (ENS) credits from the Summer Field Projects (FP) course sequence (Junior Summer). This includes one section of ENS 4911 (1 credit), and both sections of ENS 4912 (2 credits). A single credit (of ENS 4911), associated with the summer cruise, will remain as will the spring FP proposal course, ENS 3911 (1 credit).

2. Remove the reference to ‘summer’ from the ENS 3911, ENS 4911, and ENS 4912 catalog descriptions.

3. Move ENS 4912 (2 credits) to the senior fall semester.

4. Move one credit of ENS 4911 to the senior spring semester.

5. Move the senior fall restricted elective to the senior spring and eliminate the scheduled free elective from the senior spring. (This will maintain the current credit load for this semester).

The one credit of ENS 4911 for the senior spring semester will be used, in part, to ensure that students complete their projects, i.e., presentations and final reports as well as their posters for the Engineering Showcase. The aforementioned changes will reduce the total number of curriculum hours for Oceanography majors from 133 to 128. The current SACs BS evaluation for the Oceanography program depends on FP-based outcomes. However, because we are moving (and not eliminating) ENS 4911 and ENS 4912, we do not anticipate changes in SACs for this program.

Sincerely

Dr. Steven M. Lazarus
Program Chair, OEMS
Professor of Meteorology

Note in Catalog:
ENS 4911 must be repeated in SP senior term.
The addition or removal of any graduation requirement in a major or minor requires that this form, accompanied by supporting documentation, be completed and approved as indicated below. Incomplete or incorrect forms will not be processed.

**Florida Institute of Technology**

**CHANGING GRADUATION REQUIREMENTS IN A MAJOR/MINOR**

**COLLEGE** College of Engineering and Science  
**DEPARTMENT** OEMS

**DEGREE LEVEL** BS  
**PROGRAM TITLE** Oceanography

**TO BE INITIATED WITH CATALOG YEAR** 2019/20  
**CHANGE REQUESTED FOR** □ major program □ minor program  
**Major/Minor Code** 7080

Program changes are effective beginning with the fall term in which they appear in the University Catalog.

☐ Yes  ☐ No  Will this change impact the program’s assessment process? If yes, attach a description of how the assessment will be impacted and the new process.

**DESCRIPTION OF REQUESTED CHANGES** Attach a more detailed description and any supporting documentation.

We propose to:

1. Remove 5 of the 6 Environmental Science (ENS) credits from the Summer Field Projects (FP) course sequence (Junior Summer). This includes: 2 sections of ENS 4912 (4 credits total), and 1 section of ENS 4901 (1 credit). Note that the summer cruise, ENS 4911 (1 credit), will remain as will the spring FP proposal course, ENS 3911 (1 credit).

2. Remove the reference to ‘summer’ in the ENS 3911, ENS 4911, and ENS 4912 catalog descriptions.

3. Move ENS 4912 (2 credits) to the senior fall semester.

4. Add a second section of ENS 4911 (1 credit) during the senior spring semester.

5. Move the senior fall restricted elective to the senior spring and eliminate the scheduled free elective from the senior spring.

*The aforementioned changes will reduce the total number of curriculum hours for Oceanography majors from 133 to 128.

*The SACs BS evaluation, which depends on FP-related outcomes, will not change since we are retaining both of the core courses (ENS 4911 and ENS 4912). There are no new courses proposed, see cover letter for additional details.

*See attached flow charts for curriculum impact (current/proposed).

**Approvals: On completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee, for approval below and forward to the Catalog & Curriculum Manager.**

**Chair, Graduate Council**  
**Date** 11/13/18

**Department Head / Major Program Chair**  
**Date** 11/13/18

**Chair, Undergraduate Curriculum Committee**  
**Date** 12/17/18

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**CAPP / Degree Evaluation**  
☐ Yes  ☐ No  Update completed  
**Academic Year**  Date  Initials

**Catalog Management System**  
☐ Yes  ☐ No  Update completed  
**Academic Year**  Date  Initials
Oceanography (7080) Undergraduate Curriculum Change Summary

**Moved Course**

**JUNIOR SUMMER  1 credit  (reduced from 6)**
- ENS 4911 Environmental Field Projects 1  (Q)  
  (retain 1 section/1 credit for cruise)
- ENS 4912 Environmental Field Projects 2  (Q)  
  (remove 1 section/2 credits, move 2nd section/2 credits to senior fall)

**SENIOR FALL  15-16 credits  (no net change)**
- OCN 4704 Remote Sensing for Oceanography 3
- ENS 4912 Environmental Field Projects 2  (Q)  
  (moved from summer)
- Concentration Courses Credit Hours: 6-7
- Restricted Elective (OCN/ENS) Credit Hours: 3  
  (moved to spring)
- HUM 2XXX  3

**SENIOR SPRING  13-16 credits  (increased from 12-15)**
- OCN 4204 Marine and Environmental Pollution 3
- Concentration Courses Credit Hours: 3-6
- Restricted Elective (OCN/ENS) Credit Hours: 3  
  (removed)
- Free Elective Credit Hours: 3
- Humanities Elective (HU) 3000-level or higher recommended Credit Hours: 3
- ENS 4911 Environmental Field Projects 1  (Q)

TOTAL CREDIT HOURS FOR GRADUATION:  125  (reduced from 133)