2. Texas A&M University at Galveston
   
a. Change in Courses

**MARB 303. Biostatistics.**

Prerequisites
From: MATH 151. Curriculum sophomore, junior or senior classification or approval of instructor.
To: MATH 151 or MATH 142; sophomore, junior or senior classification or approval of instructor.

**MARB 310. Introduction to Cell Biology.**

Prerequisites
From: Cell Biology should precede or be concurrent with enrollment in MARB 450. BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.
To: BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.

**MARB 408. Marine Botany.**

Prerequisites
From: BIOL 112. Curriculum sophomore, junior or senior classification or approval of instructor.
To: BIOL 112; junior or senior classification or approval of instructor.

**MARB 425. Marine Ecology.**

Prerequisites
From: MARB 315, 408, 435; curriculum senior or approval of instructor.
To: MARB 315; senior classification or approval of instructor.
TEXAS A&M UNIVERSITY

AT GALVESTON
TAMUG

Change in Courses
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

1. Request submitted by (Department or Program Name): Department of Marine Biology
   MARB 303. Biostatistics

2. Course prefix, number and complete title of course:

3. Change requested
   Attach a brief supporting statement for changes made to items 3a through 3d, and 6 below.
   a. Prerequisite(s): From: MATH 151. Curriculum sophomore, junior or senior classification or approval of instructor.
      To: MATH 151 or 142, Sophomore, junior, or senior classification or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:
   Biostatistics. (2-2). Credit 3. Introduction to sampling, experimental design, analysis of data, and testing of hypotheses, with emphasis on methods applied to biological investigations. Parametric and non-parametric techniques. Descriptive statistics, analysis of variance, correlation and regression. Prerequisites: MATH 151. Curriculum sophomore, junior, or senior classification or approval of instructor.

6. Complete proposed course title and proposed catalog course description (no to exceed 50 words):
   Biostatistics. (2-2). Credit 3. Introduction to sampling, experimental design, analysis of data, and testing of hypotheses, with emphasis on methods applied to biological investigations, Parametric and non-parametric techniques, Descriptive statistics, analysis of variance, correlation and regression. Prerequisites: MATH 151 or 142. Sophomore, junior, or senior classification or approval of instructor.

7. a. As currently in course inventory:
   
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARB</td>
<td>303</td>
<td>Biostatistics</td>
</tr>
<tr>
<td>Lect</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td>02</td>
<td>02</td>
<td>03</td>
</tr>
</tbody>
</table>
   b. Change to:
   
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lect</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Approval recommended by:
   
   [Signature]
   
   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee Date
   Dean of College Date
   Submitted to Coordinating Board by:
   
   [Signature]
   
   Associate Director, Curricular Services Date
   Curricular Services – 02/11

Questions regarding this form should be directed to Sandra Williams at 845-8301 or amba.williams@tamu.edu.
Brief Supporting Statement

MARB 303 (Biostatistics): Adding MATH 142 as a pre-requisites because students can choose to take either MATH 151 or MATH 142 to satisfy one of their math electives.

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

(409) 740-4453 (voice)
(409) 740-5001 (fax)

schwarzi@tamug.edu
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

1. Request submitted by (Department or Program Name):
Department of Marine Biology

2. Course prefix, number and complete title of course:
MARB 310. Introduction to Cell Biology

3. Change requested

a. Prerequisite(s): From: ________________________ To: ________________________

b. Withdrawal (reason):

c. Cross-list with:

Consolidated course requests the signatures of both department heads:

d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:

MARB 310. Introduction to Cell Biology. (3-3). Credit 4. Cellular structure/function; prokaryotic vs. eukaryotic cells; examination of cellular membranes and membrane transport; analysis of DNA replication, transcription, and protein translation (an extension of their treatment in MARB 301). Introduction to the components and genetics of immunology. Cell Biology should precede or be concurrent with enrollment in MARB 450. Prerequisites: BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARB 360 is recommended but not required.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

MARB 310. Introduction to Cell Biology. (3-3). Credit 4. Cellular structure/function; prokaryotic vs. eukaryotic cells; examination of cellular membranes and membrane transport; analysis of DNA replication, transcription, and protein translation (an extension of their treatment in MARB 301). Introduction to the components and genetics of immunology. Prerequisites: BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARB 360 is recommended but not required.

7. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARB</td>
<td>310</td>
<td>INTRO TO CELL BIOLOGY</td>
</tr>
</tbody>
</table>

Lect. Lab. SCH CIP and Fund Code Admin. Unit CICE Code Level
03 03 04 26 04 01 00 02 18 18 05 01 02 98 3

b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
</table>

Lect. Lab. SCH CIP and Fund Code Admin. Unit Credit Year CICE Code Level

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date Chair, College Review Committee

department for recommendation.

Department Head or Program Chair (Type Name & Sign) Date Chair, GC or UCC

Submit to Coordinating Board by:

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8301 or scwills@tamu.edu.

Curricular Services – 02/11

RECEIVED
FEB 19 2016
CURRICULAR SERVICES
Brief Supporting Statement

MARB 310 (Cell Biology): Removing sentence in course description because the suggested course is no longer offered or required for the MARB degree.

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

(409) 740-4453 (voice)
(409) 740-5001 (fax)
schwarzj@tamug.edu
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and attachments *

1. Request submitted by (Department or Program Name):
   Department of Marine Biology

2. Course prefix, number and complete title of course:
   MARB 408. Marine Botany

3. Change requested
   Attach signed department statement for changes involving items 6 through 9 and below.

   a. Prerequisite(s):
      From: BIOL 112. Curriculum sophomore, junior or senior classification or approval of instructor.
      To: BIOL 112. Junior or senior classification or approval of instructor.

   b. Withdrawal (reason):

   c. Cross-list with:

   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:
   MARB 408. Marine Botany. (3-3). Credit 4. Morphology, systematics, ecology, and biochemistry of the representative algae, fungi, and submarine grasses. Prerequisites: BIOL 112. Curriculum sophomore, junior or senior classification or approval of instructor.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   MARB 408. Marine Botany. (3-3). Credit 4. Morphology, systematics, ecology, and biochemistry of the representative algae, fungi, and submarine grasses. Prerequisites: BIOL 112. Junior or senior classification or approval of instructor.

7. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARB</td>
<td>408</td>
<td>MARINE BOTANY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect</th>
<th>Lab</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin Unit</th>
<th>JCLC Code</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0298</td>
<td>4</td>
</tr>
</tbody>
</table>

   b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Lect</th>
<th>Lab</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin Unit</th>
<th>Acad. Year</th>
<th>JCLC Code</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>10298</td>
<td></td>
</tr>
</tbody>
</table>

   Approval Recommended by: ____________________________
   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee Date

   Department Head or Program Chair (Type Name & Sign) Date
   (If cross-listed course)
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:
   ____________________________
   Associate Director, Curricular Services Date
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 02/11
Brief Supporting Statement

MARB 408 (Marine Botany): Deleting sophomore status in order to align equally with MARB 430 since students have the option to take MARB 408 in spring or MARB 430 in the fall to satisfy their plant course requirement.

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

(409) 740-4453 (voice)
(409) 740-5001 (fax)
schwarz@tamug.edu
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
- Submit original form and attachments -

1. Request submitted by (Department or Program Name): Department of Marine Biology
   MARB 425, Marine Ecology

2. Course prefix, number and complete title of course:

3. Change requested
   a. Prerequisite(s): From: MARB 315, 408, 435; curriculum senior or approval of instructor.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:
   Marine Ecology, (3-3). Credit 4. Relationship between various marine environments and their inhabitants; intra- and interspecific relationships between organisms; structure and function among marine communities. Laboratory emphasis on study of living material and natural habitat in the Gulf of Mexico. Prerequisites: MARB 315, 408, 435; curriculum senior or approval of instructor.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Marine Ecology, (3-3). Credit 4. Relationship between various marine environments and their inhabitants; intra- and interspecific relationships between organisms; structure and function among marine communities. Laboratory emphasis on study of living material and natural habitat in the Gulf of Mexico. Prerequisites: MARB 315; Senior classification or approval of instructor.

7. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Pref</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARB</td>
<td>425</td>
<td>Marine Ecology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect</th>
<th>Lab</th>
<th>SCH</th>
<th>CIP</th>
<th>Fund Code</th>
<th>Admin. Unit</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>4</td>
<td>2 6 1 3 0 2 0 0 0 2 1 8 0 5 0 1 0 2 9 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>1 0 2 9 8</td>
</tr>
</tbody>
</table>

b. Change to:

<table>
<thead>
<tr>
<th>Pref</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect</th>
<th>Lab</th>
<th>SCH</th>
<th>CIP</th>
<th>Fund Code</th>
<th>Admin. Unit</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Approved recommended by:

Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 02/11
Brief Supporting Statement

MARB 425 (Marine Ecology): Removing MARB 408 and 435 as a pre-requisite because most seniors take these courses during the same semester due to when the courses are offered.

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

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