Program Change Request

Date Submitted: 10/20/17 5:21 pm

Viewing: **BS-MARB : Marine Biology - BS**

Last approved: 10/13/17 1:33 pm

Last edit: 10/20/17 5:21 pm

Changes proposed by: zalesakm

Catalog Pages Using this Program

| Marine Biology - BS |

Contact(s)

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

Academic level: Undergraduate
Effective Term: 2018-2019 Galveston
Department: Marine Biology
College: Galveston Campus
Program type: Degree
Degree designation: BS - Bachelor of Science
With a major in: Marine Biology (MAR8)

Catalog Program Title
Marine Biology - BS

CIP and Fund code: 26130200

Rationale for Proposal

Adding MARB 101 and modifying electives. Combining rule B and C under supporting coursework deleting METR 302 from Earth Science elective list since it is no longer being taught, adding MATH 140 to list of acceptable math elective courses; specifying which physic courses are accepted.

Program hours: 120
Is this program eligible for financial aid? Yes
Will program hours change (increase/decrease) due to the proposed curriculum changes? No
Program delivery mode: On-campus

Catalog Program Requirements

<table>
<thead>
<tr>
<th>Plan of Study Grid</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>First Year Fall</td>
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Approval Path

1. 10/20/17 5:29 pm
Jaime Alvarado-Bremer (jaimaeb): Approved for MARB Department Head

2. 10/23/17 2:08 pm
Angel Mario Carrizales (carr1214): Approved for Curricular Services Review

3. 10/23/17 2:43 pm
Meredith Zalesak (zalesakm): Approved for GV Committee Preparer UG

4. 10/23/17 2:44 pm
Meredith Zalesak (zalesakm): Approved for GV Committee Chair UG

5. 10/23/17 7:29 pm
Patrick Louchouarn (loup): Approved for GV College Dean UG

6. 11/13/17 6:16 pm
Sandra Williams (sandra-williams): Approved for UCC Preparer

7. 12/05/17 11:26 am
Sandra Williams (sandra-williams): Approved for UCC Chair

History

1. Oct 13, 2017 by Rachel Ball (ballr)
Biol 111  Introductory Biology 1, 1.5  4
Chem 103  Fundamentals of Chemistry I  3
Chem 111  Fundamentals of Chemistry Laboratory I  1
Math 142  Business Calculus 3, 4  3
Math 153  or Engineering Mathematics I  3
American history  3
Marb 101  Succeeding in Science  1
Semester Credit Hours  15
Spring
Biol 112  Introductory Biology II 1, 1.5  4
Chem 102  Fundamentals of Chemistry II  3
Chem 112  Fundamentals of Chemistry Laboratory II  1
Engl 104  Composition and Rhetoric  3
Select one of the following:  4
Math 140  Mathematics for Business and Social Sciences  3
Math 141  Finite Mathematics  
Math 150  Functions, Trigonometry and Linear Systems  
Math 152  Engineering Mathematics II  
Phil 230  Introduction to Logic  
American history  3
Semester Credit Hours  17
Second Year
Fall
Chem 227  Organic Chemistry I  3
Chem 227  Organic Chemistry Laboratory  1
Marb 315  Natural History of Vertebrates  2  4
Phys 201  College Physics  4
Pols 206  American National Government  3
Semester Credit Hours  15
Spring
Chem 228  Organic Chemistry II  3
Chem 228  Organic Chemistry Laboratory  1
Marb 303  Biostatistics  2  3
Phys 202  College Physics  4
Pols 207  State and Local Government  3
Semester Credit Hours  14
Third Year
Fall
Engl 210  Technical and Business Writing  3
Marb 301  Genetics  2  4
Marine biology elective 2, 5  8
Semester Credit Hours  15
Spring
Marb 310  Introduction to Cell Biology  2  4
Marb 435  Marine Invertebrate Zoology 2, 6  4
Marine biology elective 2, 5  4
Social and behavioral sciences  3
Semester Credit Hours  15
Fourth Year
Fall
Marb 425  Marine Ecology  2  4
Marb 430  Coastal Plant Ecology 2, 7, 8  4
Earth science elective  3
Marine biology elective 2, 5  3
Semester Credit Hours  14
Spring
Marb 420  Comparative Animal Physiology  2  4
Marb 482  Seminar in Marine Biology 2, 6  1
Language, philosophy and culture  3
Marine biology elective 2, 5  4
Creative arts  3
Semester Credit Hours  15
Total Semester Credit Hours  120

All electives must be chosen in consultation with, and approved by, the student's academic advisor. Unless courses are specifically listed, see University Core Curriculum at [http://core.tamu.edu/](http://core.tamu.edu/) for a listing of course options for Communication; Mathematics; Life and Physical Sciences; Language, Philosophy and Culture; Creative Arts; American History; Government and Political Sciences; and Social and Behavioral Sciences. The 6-hour University Core Curriculum requirement for International and
Cultural Diversity may be met with courses used to satisfy other degree requirements. Up to 4 hours of MARB 491 and/or MARB 484 may be used as marine biology elective courses in your curriculum. Please consult with your academic advisor.

1. A grade of C or better is required before advancing to upper level courses.
2. Indicates required courses in the Marine Biology major. These courses will be used to compute the major GPR.
3. The total hours may be increased if the student is required to take remedial math, remedial English, foreign language or international and Cultural Diversity courses.
4. There are two mathematics course requirements. The first is MATH 142 or MATH 151. The other math course shall be selected from MATH 140, MATH 141, MATH 150, MATH 152, or PHIL 240. Depending on the math sequence selected, the number of credit hours may vary by 1 or 2 credits.
5. 19 credit hours of biology electives selected from the following: BIOL 351; MARB 300-499; MARS305, MARS325, MARS 360. Students may take a maximum of two mammals courses (selected from MARB 400, MARB 401, MARB 403, MARB 404, MARB 407) and one of the two MARB scientific diving courses (either MARB 345 or MARB 350).
6. Designated writing intensive course.
7. The Earth Science elective may be chosen from GEOG 101-499 or QCGQ 251-499.
8. MARB 408, which is offered in the Spring semester, can be substituted for MARB 430. MARB 408 is also a writing intensive course.

Additional information

Required Proposal
Forms

Reviewer Comments
Jaime Alvarado-Bremer (jaimeb) (10/19/17 2:35 pm): Rollback: rollback to you to you Donna
Angel Mario Carrizales (carri1214) (10/20/17 5:10 pm): This request is a second revision for 201831 program requirements.
Angel Mario Carrizales (carri1214) (10/20/17 5:12 pm): Rollback: Discrepancies have been identified. Initiator has been emailed with detailed comments.
Angel Mario Carrizales (carri1214) (10/23/17 2:07 pm): Update received.
Sandra Williams (sandra-williams) (12/05/17 11:26 am): UCC approved in December.

Program Reviewer
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