BIOLOGY MAJOR MARINE SCIENCE TRACK COURSE PLANNING GUIDE AND CHECKLIST

For a B.S. degree in the marine science concentration in biology at UAB, you must satisfactorily complete a minimum of 120 semester hours including the following:

**BIOLOGY** – minimum of 40 semester hours with a minimum Biology GPA of 2.0 in the following:

- **8 hours Introductory Biology I and II**
  - BY 123_______
  - BY 124_______

- **3 hours of Genetics:**
  - BY 210_______

  One course from each of the following areas:
  - **Ecology and Evolution**
    - 429, 435, 467, 470, 474 or (MESC 411 or 412)
  - **Organismal Biology**
    - 255, 256, 271, or 442 (MESC 402, 407, or 413)
  - **Physiology and Development**
    - 314, 409, 410, 420, 440, 451, or 475
  - **Cellular/Molecular Biology**
    - 311, 330, 434, or 437
  - **Capstone Requirement**
    - (490, 491, 492, or 493)

**Plus** additional biology courses to total 40 hours (usually 10-12 hours). Also, at least 9 hours of the major must be at the 400-level. These courses may be chosen from the courses that are listed above or other selected biology courses from the course catalog except BY 101, 102, 107, 111, 112, 116, or 261. These courses will not count toward the biology electives. Other requirements at least (5) five Marine Environmental Science (MESC) elective courses approved by your academic advisor.

**Additional:**

- __________
- __________
- __________

**CHEMISTRY** – General Chemistry

- CH 115___________
- 116(lab)__________
- CH 117___________
- 118(lab)__________

**Organic Chemistry**

- CH 235___________
- 236(lab)__________
- CH 237___________
- 238(lab)__________

**Biochem** CH 460 or 461_______

**MATHEMATICS** – Results of math placement test determines initial math course (MA 098, 102, 105, etc.). These mandatory pre-requisite Math courses will be counted as general electives.

- MA 125__________

**PHYSICS** – Complete *either* trig-based physics OR calculus-based physics series:

- PH 201___________ or PH 221__________
- and
- PH 202___________ PH 222__________
UNIVERSITY CORE CURRICULUM

AREA I.  English Composition (6 hours)  
EH 101______________  
EH 102______________

AREA II.  Humanities and Fine Arts (12 hrs)  
1 Literature *: EH 216, 217, 218, 221, 222, 223, 224;  
EH__________________
1 Arts: ARH 101, 203,204,206, MU 120, THR 100,105, 200  
Arts________________
2 from: lit, arts, for lang., speech, phil., etc. from the    
AGSC approved list, see www.uab.edu/catalogs
PHL 115 or 116______________

AREA III.  Science and Mathematics (this area is covered by your major)

AREA IV.  History, Social & Behavioral Sciences (12 hrs)  
1–2 History * : HY 101, 102, 104, 105, 120, 121,  
HY__________________
2–3 from AGSC approved list in areas of
anth, econ, geog, poli sci, psych, soc, etc. from the    
AGSC approved list; see www.uab.edu/catalogs

*NOTE:  Students must complete a 6 semester hour sequence in either literature or history.

GENERAL ELECTIVES – Additional courses (usually 12–27 hrs) complete the minimum semester hours for degree.

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TOTAL SEMESTER HOURS FOR DEGREE:  120  
MIMIMUM OVERALL GPA:  2.0

UPDATED 7/23/2014