Marine & Aquatic Biology Track
Catalog Year: 2016-2017

5A. Cognate Sciences Core (31-33 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C</td>
<td>(or CHM 2040</td>
</tr>
<tr>
<td>CHM 2046</td>
<td></td>
</tr>
<tr>
<td>CHM 2046L</td>
<td></td>
</tr>
<tr>
<td>CHM 2210</td>
<td>CHM 3120</td>
</tr>
<tr>
<td>CHM 2211</td>
<td>CHM 2205</td>
</tr>
<tr>
<td>CHM 2211L</td>
<td>CHM 3120L</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>PHY 2048&amp; L</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>PHY 2049 &amp; L</td>
</tr>
</tbody>
</table>

Math Placement Test: MAC1105, MAC1114, MAC1140, MAC 2311, STA 2023

5B. Lab requirement - Two labs

At least one of these labs must come from section A - Core.

- Core:
  - PCB 3044L - Ecology lab
  - PCB 3063L - Genetics lab
  - PCB 4683L - Evolutionary Biology Lab

- Non-Core: designed with †

6.22 hours of restricted electives are required, with following stipulations:

- Courses must be selected from those listed below.
- Include one course exclusively on animals (marked a) and one exclusively on plants (marked p)
- At least 10 of the 22 hours must be courses offered by the Department of Biology (designated with an *), of 10
- Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives. (Completed with Biology Faculty)
- 5000 level courses may be taken by seniors with prior permission of course instructor. You will be charged graduate level tuition.

5. Biology core courses (21 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>Gen Biology</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>Biology 2</td>
</tr>
<tr>
<td>PCB 3023</td>
<td>Molec Cell Bio</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>Ecology</td>
</tr>
<tr>
<td>PCB 4683</td>
<td>Evolutionary Biology</td>
</tr>
</tbody>
</table>

Advising Information:

- Additional Biology Electives: (7 hours)
  - a. ANT 3550 - Primatology
  - BSC 4053 - Biochemistry 1
  - BSC 4054 - Biochemistry 2
  - p. BOT 3015* - Principles of Plant Science
  - p. BOT 3018C* - Culinary Botany
  - p. BOT 3802* - Ethnobotany
  - p. BOT 4223C* - Plant Anatomy
  - p. BOT 4303C* - Plant Kingdom
  - p. BOT 4826L* - Plant Microtechniques
  - p. BOT 4922* - Plant Science Capstone
  - p. BOT 4455C* - Gen Mycology
  - p. BOT 4523C* - Plant Taxonomy
  - p. BOT 4731CC* - Plant Taxonomy
  - BSC 3052* - Conservation Biol
  - BSC 4821* - Biogeography
  - p. BOT 4850* - Medicinal Bot
  - PCB 3063L* - Ecology Lab
  - PCB 3312* - Marine Biology
  - PCB 3453* - Bio Res. Meth & Exp Design
  - PCB 3412C* - Adv Marine Biol
  - PCB 4330* - Marine Science Capstone
  - PCB 4445C* - Genomics Lab
  - PCB 4861L* - Urban Ecology...
  - PCB 5258L* - Biotrop Research
  - a. ENY 3571* - Honey Bee Book & Beekeeping
  - a. ENY 4040C* - General Entomology
  - MCB 3020C - Gen Microbiology
  - OCE 3008* - Oceanography
  - a. PAZ 4234* - Zool Aquarium Mgt
  - PCB 3044L - Ecology Lab
  - PCB 3063L - Genetics Lab
  - PCB 3233 - Immunology
  - PCB 3343L* - Field Biology
  - PCB 3355L* - Tropical Marine Bio
  - PCB 3442L - Aquatic Ecology
  - PCB 3703C - Human Physiology
  - PCB 4301C - Marine Biology
  - PCB 4353* - Fl Natural History
  - PCB 4402* - Disease Eco & Immunology
  - PCB 4514* - Genetics 2
  - PCB 4522 - Molec Bio 1
  - PCB 4524 - Molec Bio 2
  - PCB 4543 - Wildlife Genomics
  - PCB 4683L* - Evol. Biology Lab
  - PCB 4687* - Evolution in Medicine
  - PCB 4684* - Population Genetics
  - PCB 5136C* - Animal Physiology
  - PCB 5136C* - Marine Conservation
  - PCB 5326C* - Ecosystems of FI
  - PCB 5435C* - Marine Ecology of FI
  - PCB 5548S* - Models in Ecology
  - a. ZOO 3713C* - Comp Vert Anat
  - ZOO 3733C - Human Anatomy
  - a. ZOO 4205C* - Bio and Eco Meta Inv
  - a. ZOO 4310C* - Vert Ecol and Eco
  - a. ZOO 4480* - Mammalogy
  - ZOO 4480L* - Mammalogy Lab
  - a. ZOO 4513* - Animal Behavior
  - a. ZOO 4642C* - Herpetology
  - a. ZOO 4630C* - Embryology/Devel
  - a. ZOO 4703C* - Comp Hist Vert
  - ZOO 3454* - Ichthyology
  - a. ZOO 34xx* - Ornithology
  - a. ZOO 4910L* - Res Exp in Zoo Env

- Departmental Residency Requirement: ___________ of 22
  - 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

- University Requirements
  - 9 hours of summer enrollment (total) in academic career: _ of 9
  - At least 2.0 needed: UCF GPA _ Major GPA
  - 48 hours 3xxx-4xxx level - 35 Biology requires = 13 hours left (to be satisfied with free electives or minor) _ of 13

- Major Requirements
  - A minimum of 2.0 in all UCF courses taken in common program prerequisites, Biology core, and upper division restricted electives.
  - A minimum of a C (2.0) in all Biology offered Core Classes and Required Electives is required for graduation.
  - Exit Exam- to be completed upon completion of all Biology core courses.
  - Departmental Residency Requirement: ___________ of 22
    - 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

- Science Foundations
  - 11. CHM 2045C | 4 |
  - 12. PCB 3063L* | 4 |

- Social Foundations
  - 10. AMH 2020 or ECO2013 or ECO 2023 or POS 2041 | 3 |

- Program prerequisites
  - Biology core courses (21 hours)
  - PCB 3063L - Genetics Lab
  - PCB 3233 - Immunology
  - PCB 3343L* - Field Biology
  - PCB 3355L* - Tropical Marine Bio
  - PCB 3442L - Aquatic Ecology
  - PCB 3703C - Human Physiology
  - PCB 4301C - Marine Biology
  - PCB 4353* - Fl Natural History
  - PCB 4402* - Disease Eco & Immunology
  - PCB 4514* - Genetics 2
  - PCB 4522 - Molec Bio 1
  - PCB 4524 - Molec Bio 2
  - PCB 4543 - Wildlife Genomics
  - PCB 4683L* - Evol. Biology Lab
  - PCB 4687* - Evolution in Medicine
  - PCB 4684* - Population Genetics
  - PCB 5136C* - Animal Physiology
  - PCB 5136C* - Marine Conservation
  - PCB 5326C* - Ecosystems of FI
  - PCB 5435C* - Marine Ecology of FI
  - PCB 5548S* - Models in Ecology
  - a. ZOO 3713C* - Comp Vert Anat
  - ZOO 3733C - Human Anatomy
  - a. ZOO 4205C* - Bio and Eco Meta Inv
  - a. ZOO 4310C* - Vert Ecol and Eco
  - a. ZOO 4480* - Mammalogy
  - ZOO 4480L* - Mammalogy Lab
  - a. ZOO 4513* - Animal Behavior
  - a. ZOO 4642C* - Herpetology
  - a. ZOO 4630C* - Embryology/Devel
  - a. ZOO 4703C* - Comp Hist Vert
  - ZOO 3454* - Ichthyology
  - a. ZOO 34xx* - Ornithology
  - a. ZOO 4910L* - Res Exp in Zoo Env

- Communication Foundations
  - 1. ENC 1101 | 3 |
  - 2. ENC 1102 | 3 |
  - 3. SPC 1603, SPC 1608, COM 1000 | 3 |

- Cultural & Historic Foundations
  - 4. EUH 2000 or AMH 2010 or HUM 2210 or WOH2012 | 3 |
  - 5. ARH 2050, ARH 2051, MUL 2010, PHI 2010, LIT 2110, LIT 2120, THE2000, FIL 1000 or REL2300 | 3 |

- Communications Foundations
  - 1. ENC 1101 | 3 |
  - 2. ENC 1102 | 3 |
  - 3. SPC 1603, SPC 1608, COM 1000 | 3 |

- Cultural & Historic Foundations
  - 4. EUH 2000 or AMH 2010 or HUM 2210 or WOH2012 | 3 |
  - 5. ARH 2050, ARH 2051, MUL 2010, PHI 2010, LIT 2110, LIT 2120, THE2000, FIL 1000 or REL2300 | 3 |