

# BIOLOGY – Aquatic (Freshwater and Marine)

STEPHEN F. AUSTIN STATE UNIVERSITY  
COLLEGE OF SCIENCES AND MATHEMATICS

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Catalog: 2023-2024 Void Date: Aug. 31, 2029 ID# \_\_\_\_\_

## Requirements for the BACHELOR OF SCIENCE DEGREE

HOURS ON TRANSCRIPT	HOURS TO BE TAKEN
<p><b>CORE CURRICULUM (42 hours)</b></p> <p><b>COMMUNICATION:</b></p> <ol style="list-style-type: none"> <li>3 hours from: ENGL 1301 _____, or 1303H _____ (C or better is required)</li> <li>3 hours from SPCH 1315, 1318, 2333</li> </ol> <p><b>MATHEMATICS:</b></p> <ol style="list-style-type: none"> <li>3 hours from: MATH 2313</li> </ol> <p><b>LIFE AND PHYSICAL SCIENCES:</b></p> <ol style="list-style-type: none"> <li>6 hours from: CHEM 1311, 1312</li> </ol> <p><b>LANGUAGE, PHILOSOPHY, AND CULTURE:</b></p> <ol style="list-style-type: none"> <li>3 hours from ENGL 2309, 2322, 2323, 2327, 2328, 2332, 2333, 2341; HIST 2311, 2312, 2321, 2322; PHIL 1301, 2306</li> </ol> <p><b>CREATIVE ARTS:</b></p> <ol style="list-style-type: none"> <li>3 hours from: ARTS 1301, 1303, 1304; DANC 2303; DRAM 1310, 2366; MUMH 1307; MUSI 1306;</li> </ol> <p><b>AMERICAN HISTORY:</b></p> <ol style="list-style-type: none"> <li>6 hours from: HIST 1301, 1302</li> </ol> <p><b>GOVERNMENT/POLITICAL SCIENCE:</b></p> <ol style="list-style-type: none"> <li>6 hours from: GOVT 2305, 2306</li> </ol> <p><b>SOCIAL AND BEHAVIORAL SCIENCES:</b></p> <ol style="list-style-type: none"> <li>3 hours from: ANTH 2351; ECON 2301, 2302; GEOG 1303; SOCI 1301; PSYC 2301.</li> </ol> <p><b>COMPONENT AREA OPTION (6HRS)</b></p> <ol style="list-style-type: none"> <li>3 hours from: ENGL 1302 _____ (C or better is required)</li> <li>3 hours from: ENGL 2311</li> </ol>	<p><b>CORE CURRICULUM (42 hours)</b></p> <p><b>COMMUNICATION:</b></p> <ol style="list-style-type: none"> <li>_____</li> <li>_____</li> </ol> <p><b>MATHEMATICS:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>LIFE AND PHYSICAL SCIENCES:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>LANGUAGE, PHILOSOPHY, AND CULTURE:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>CREATIVE ARTS:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>AMERICAN HISTORY:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>GOVERNMENT/POLITICAL SCIENCE:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>SOCIAL AND BEHAVIORAL SCIENCE:</b></p> <ol style="list-style-type: none"> <li>_____</li> </ol> <p><b>COMPONENT AREA OPTION:</b></p> <ol style="list-style-type: none"> <li>_____</li> <li>_____</li> </ol> <p style="text-align: right;"><b>42 hours</b></p>
<p><b>FOUNDATION OF KNOWLEDGE (17-19 hours)</b></p> <p>MATH: 3-4 hrs. from 1342 or 2314/2114</p> <p>SCIENCE: Complete 8 hrs.: <b>PHYS</b> 1301/1101; <b>CHEM</b> 3331/3131</p> <p>Complete additional 3-4 hrs. from: <b>CHEM</b> 3332/3132, 4352/4152, 3421/3021; <b>GEOL</b> 1303/1103, 1304/1104, 3361/3061; <b>PHYS</b> 1302/1102L, 1318/1018; <b>STAT</b> 3342</p> <p>CSCI: 3 hours: COSC 1301, CSCI 1302, CSIT 2301 or BCIS 1305</p>	<p><b>FOUNDATION OF KNOWLEDGE:</b></p> <p>MATH: _____</p> <p>SCIENCE: 1. _____ 2. _____</p> <p>ADD: 1. _____</p> <p>CSCI: _____</p> <p style="text-align: right;"><b>17-19 hours</b></p>

<p><b>BIOLOGY MAJOR: <u>AQUATIC</u> (Freshwater and Marine)</b></p> <p><b>FOUNDATION (16 hrs.):</b>  1306/1106(4) _____ 1307/1107(4) _____ 3453/3053(4) _____  4389(3) _____ 4199(1) _____</p> <p><b>AQUATICS REQUIREMENTS (30-34 hours):</b>  _____ 6 hrs. from form/function: 2361/2061 and 2371/2071L  _____ 4 hrs. from ecology: 3481/3081L  _____ 3 hrs. from BIOL 3461/3061  _____ 4 hrs. from physiology: 3440/3040 or 4465/4065  _____ 10-12 hrs. from ADV aquatic: 3317; 4434/4034, 4442/4042;  4484/4084; 4612; 4682; GEOL 3303  _____ 6-8 hrs. from ADV survey biology: 3360/3060; 3421/3021; 4386;  4444/4044; 4446/4046; 4448/4048</p>	<p><b>BIOLOGY MAJOR: <u>AQUATICS</u> (Freshwater and Marine)</b></p> <p><b>FOUNDATION (16 hrs.):</b>  1306/1106(4) _____ 1307/1107(4) _____ 3453/3053(4) _____  4389(3) _____ 4199(1) _____</p> <p><b>AQUATICS REQUIREMENTS (30-34 hours):</b>  _____ 6 hrs. from form/function: 2361/2061 and 2371/2071L  _____ 4 hrs. from ecology: 3481/3081L  _____ 3 hrs. from BIOL 3461/3061  _____ 4 hrs. from physiology: 3440/3040 or 4465/4065  _____ 10-12 hrs. from ADV aquatic: 3317; 4434/4034, 4442/4042;  4484/4084; 4612; 4682; GEOL 3303  _____ 6-8 hrs. from ADV survey biology: 3360/3060; 3421/3021; 4386;  4444/4044; 4446/4046; 4448/4048</p>
<p><b>OTHER REQUIRED COURSES (3 hours)</b>  CHEM 1111(1) ___ CHEM 1112(1) _____ MATH 2113(1) _____</p>	<p><b>OTHER REQUIRED COURSES (3 hours)</b>  CHEM 1111(1) ___ CHEM 1112(1) _____ MATH 2113(1) _____</p>
<p><b>ADVANCED BIOLOGY ELECTIVES: 5-10 hours of upper-level bio electives; up to two upper-level courses outside the major may be selected. <u>This section is not required if student chooses to declare a minor.</u></b></p> <p>(excludes: BIOL 3417/3017L; 3420/3020L)</p>	<p><b>ADVANCED BIOLOGY ELECTIVES: 5-10 hours of upper-level bio electives; up to two upper-level courses outside the major may be selected. <u>This section is not required if student chooses to declare a minor.</u></b></p> <p>(excludes: BIOL 3417/3017L; 3420/3020L)</p>
<p><b>OPTIONAL MINOR: (18-24 hours)</b></p>	<p><b>OPTIONAL MINOR: (18-24 hours)</b></p>
<p><b>ELECTIVES:</b></p>	<p><b>ELECTIVES:</b></p> <p>_____ hours of electives of which _____ hours are are advanced (3000-4000) to meet residence requirements</p>

**Must have 42 hours in residence at SFA. Must have 36 advanced hours (3000-4000 level) in residence at SFA. A maximum of 66 academic hours plus 4 hours of kinesiology activity from junior or community colleges may apply toward a bachelor's degree.**