College of Natural Resources and Environment
Department of Fish and Wildlife Conservation
Bachelor of Science in Fish and Wildlife Conservation
Major in Fish Conservation
For students graduating in calendar year 2015

Name: ___________________ Student ID ___________________
Advisor: _________________ Expected graduation: ________

Minimum hours for degree is 120. A minimum GPA of 2.0 is required for all work applied to the major.

Curriculum for Liberal Education Requirements – 36 credit hours

Area 1: Writing and Discourse (6 credit hours)
- ENGL 1105 First-Year Writing (3) ENGL 111
- ENGL 1106 First-Year Writing (3) ENGL 112

Area 2: Ideas, Cultural Traditions, and Values (6 credit hours required)
- CLE Area 2 course:
- CLE Area 2 Ethics elective: FOR 2554 Nature and American Values (3) – or – PHIL 1304
  Morality and Justice (3) – or – PHIL 2304 Global Ethics (3) – or – UAP 4264
  Environmental Ethics and Policy (Pre: UAP 3344 or 3354) (3)

Area 3: Society and Human Behavior (6 credit hours required)
- CLE Area 3 course:
- AAEC 1005 or 1006 Economics of Food and Fiber Systems (3) – or – ECON 2005 or 2006
  Principles of Economics (3)

Area 4: Scientific Reasoning and Discovery (8 credit hours required)
- BIOL 1105 Principles of Biology (3) B10 1
- BIOL 1106 Principles of Biology (3)
- BIOL 1115 Principles of Biology Laboratory (1) B10 10 2
- BIOL 1116 Principles of Biology Laboratory (1)

Area 5: Quantitative and Symbolic Reasoning (6 credit hours required)
- MATH 1016 Elementary Calculus with Trigonometry I (Pre: 1015) (3)
- MATH 2015 Elementary Calculus with Trigonometry II (Pre: 1016) (3)

Area 6: Creativity and Aesthetic Experience (1 credit hour required)
- CLE Area 6 course:

Area 7: Critical Issues in a Global Context (3 credit hours required)
- CLE Area 7 course

Foreign Language 1
____ 2 years of one language in high school -- or -- Less than two years of one language in high school, needs FL 1105 and 1106 ________

Degree Core Requirements

Fundamentals of Science – 11 credit hours
- CHEM 1035 General Chemistry (3)
- CHEM 1036 General Chemistry (3)
- CHEM 1045 General Chemistry Laboratory (1)
- CHEM 1046 General Chemistry Laboratory (1)
- STAT 3615 Biological Statistics (3)

Degree Core requirements – 26 credit hours
- NR 1114 Introduction to Renewable Natural Resources (2)
- FIW 2114 Principles of Fish and Wildlife Management (3) (Pre: BIOL 1006 or 1116)
- FIW 4414 Population Dynamics and Estimation (3) (Pre: 2342, waived for Fish Conservation and non-Wildlife Conservation students)
- FIW 4464 Human Dimensions of Fisheries and Wildlife (3) (Pre: 2114)
- BIOL 2704 Evolutionary Biology (3) (Pre: 1005 or 1105 or 1006 or 1106)
- Experiential Learning Requirement: FIW 2974 Independent Study (3) – or – XXXX 3954
  Study Abroad (3) – or – FIW 3964 Internship through Directed Field Study – or – FIW 4974 Independent Study (3) – or – FIW 4994 Undergraduate Research (3)
- Legal Foundation Restricted Elective: AAEC 3314: Environmental Law (3) – or – FOR 4434
  Forest Resource Policy (3) (Pre: 3424) – or – UAP 4344: Law of Critical Environmental Areas (3)
- Speaking Restricted Elective: COMM 2004 Public Speaking (3) – or – AEE 3634
  Communicating Agriculture and Life Sciences in Speaking (3)
- Writing Restricted Elective: ENGL 3764 Technical Writing (Junior standing required.) (3) – or – ENGL 3774 Business Writing (Junior Standing Required) (3) – or – AEE 3624
  Communicating Agriculture and Life Sciences in Writing (3)

Major Requirements – 23-24 credit hours
- FIW 4314 Conservation of Biological Diversity (4) (Pre: 4414, 4434) or GEOS 3034
  Introduction to Oceanography (3)
- FIW 4424 Ichthyology (4) (Pre: BIOL 2504 or BIOL 2704)
- FIW 4614 Fish Ecology (3) (Pre: BIOL 1006)
- FIW 4714 Fisheries Management (4) (Pre: 3514)
- BIOL 2804 Ecology (3) (Pre: 1005 or 1105, 1006 or 1106)
- CHEM 2514 Survey of Organic Chemistry (3) (Pre: 1035, 1036)
- STAT 3616 Biological Statistics (3) (Pre: 3615)
Track Requirements

**Freshwater Fisheries Conservation Track – 19-21 credit hours**

- FIW 3514 Fisheries Techniques (3) (Pre: 2114)
- **Physical Science elective**: GEOS 1004 Physical Geology (3) – or – GEOG 3114 Introduction to Meteorology (3) – or – GEOS 3034 Oceanography (3) (Pre: Math 1206 or 2015) – or – CSES 3114 Soils (3) (Pre: CHEM 1036) and CSES 3124 Soils Lab (1) – or – CSES 3134 Soils in the Landscape (3)
- Biology restricted elective: BIOL 2004 Genetics (3) (Pre: 1005 or 1105, 1006 or 1106, CHEM 1036 or 1016) – or – BIOL 2304 Plant Biology (3) (Pre: 1005 or 1105, 1006 or 1106) – or – BIOL 2504 General Zoology (3) (Pre: 1005 or 1105, 1006 or 1106)
- **PHYS 2205** General Physics (3) (Pre: MATH 1016 or 2015) **PHYS 121 or 131 or 201**
- Aquatic ecology restricted elective. Take two courses from: BIOL 4004 Freshwater Ecology (4) (Pre: 2804) – or – ENT 4354 Aquatic Entomology (4) (Pre: BIOL 1005 or 1105, 1015 or 1115, 1006 or 1106, 1016 or 1116) – or – BIOL 4454 Invertebrate Zoology (3) (Pre: BIOL 2504) – or – FIW 4314 Conservation of Biological Diversity (Pre: 4414, 4434) (4)

**Free electives – 2-5 credit hours**

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**Marine Fisheries Conservation Track – 21-22 credit hours**

- FIW 3514 Fisheries Techniques (Pre: 2114) (3) – or – BIOL 4004 Freshwater Ecology (4) (Pre: 2804)
- FIW 4624 Marine Ecology (3) (Pre: BIOL 2804 or GEOS 3034)
- GEOS 3034 Oceanography (3) (Pre: MATH 1206 or MATH 2015)

Approved marine science courses at a collaborating institution (12 hours):

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**Free electives – 1-3 credit hours**

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Notes:

1. **University Requirements—Foreign Language Policy**
   The university requires two units of a single foreign language (or American Sign Language) during high school. Students who do not satisfy the foreign language requirement in high school may do so by taking six credits of college-level foreign language (classical language or American Sign Language). These six credits do not count toward the total minimum hours required of the declared degree program.
2. Major Requirements
To earn a B.S. degree in Fish Conservation, a student must pass the following courses, or their equivalents, with a grade of C - or better: BIOL 1105, BIOL 1106, BIOL 1115, BIOL 1116; CHEM 1035, CHEM 1036, CHEM 1045, CHEM 1046; MATH 2015, and FIW 2114.

There are no hidden prerequisites on this check sheet, however, course requirements may change over time, and students should always check for prerequisite for classes they select.

To remain in good standing, a student must achieve and maintain an overall and in-major GPA of at least 2.0. Courses used for the in-major GPA computation include all those designated as FIW, FOR, NR, GEOG and SBIO. To graduate, a student must achieve an overall and in-major GPA of at least 2.0.

STUDENTS NOT MEETING THESE CRITERIA WILL NOT BE ALLOWED TO ENROLL IN 3xxx and 4xxx LEVEL FIW CLASSES.

3. Satisfactory Progress
Students must, by the end of the semester in which they have attempted 45 hours (including transfer, advanced placement, advanced standing, and credit by examination), pass the courses listed in item number 2 above (or their equivalents).