# Syllabus

## CON 214 Fisheries Management

### General Information

- **Date**: June 18th, 2019
- **Author**: John VanNiel
- **Department**: Conservation
- **Course Prefix**: CON
- **Course Number**: 214
- **Course Title**: Fisheries Management

### Course Information

- **Catalog Description**: This course is designed for the second year Environmental Conservation student. Fisheries management stresses the relationship between humans, fish, and their environments. Students are introduced to the principles of fishery management including history, theory, and management strategies. The importance of habitat management, and population dynamics and their interactions is explored.
- **Credit Hours**: 3
- **Lecture Contact Hours**: 3
- **Lab Contact Hours**: 0
- **Other Contact Hours**: 0
- **Grading Scheme**: Letter

### Prerequisites

None

### Co-requisites

None
First Year Experience/Capstone Designation

This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course
Vitality, Inquiry, Perseverance, and Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Practice appropriate sampling methods for target species.

2. Discuss principles of fisheries management.

3. Interpret data from fish populations.

4. Develop a management plan for how humans, fish, and their environment interact as a fishery.

Outline of Topics Covered

I. Fisheries management process
II. Fishery productivity
   a. Morphoedaphic index
III. Lake assessment sampling
IV. Quantitative description of diet
   a. Field sampling
   b. Ivlev’s electivity index lab
V. Stream assessment Catch Rate Oriented Trout Stocking
   a. CROTS calculation
VI. Estimating Population Size
VII. Population structure
VIII. Age and Growth
IX. Production, recruitment and yield

Program Affiliation

This course is required as a core program course in the following program(s)
AAS Fish and Wildlife Technology