

## UNIT REPORT

## Aquaculture and Fish Health - Reviewer's Report - Academic Data

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# Aquaculture and Fish Health

## Aquaculture and Fish Health Graduate Certificate Mission

### Mission:

The Aquaculture and Fish Health graduate certificate program supports the missions of the college and university to serve the nation's and state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership, and workforce. Specifically, this certificate will allow working professionals involved in the management of aquaculture facilities, or providing aquatic veterinary services to aquaculture facilities, to advance their academic understanding of basic fish health principles, and current methods of using those principles to improve aquaculture facilities.

**Start:** 07/01/2017

**End:** 06/30/2018

## PG 1 Successful Students

### Goal:

Seventy percent of students assessed are expected to be considered "successful" (as determined through specific assessment methods described below) within each distinct outcome.

### Evaluation Method:

- **Criterion for Program Goals success: 70% of students assessed are expected to be successful within each distinct SLO.**

### Results:

- **Threshold of Acceptability for Program Goals success: 70% of students assessed with the rubric are expected to be successful within each distinct outcome.**
- SLO1: 37 students passed the assessment out of 37 students, for a percentage of 100%. This meets the threshold of acceptability.
- SLO2: 36 students passed the assessment out of 37 students, for a percentage of 97%. This meets the threshold of acceptability.
- SLO3: 35 students passed the assessment out of 37 students, for a percentage of 95%. This meets the threshold of acceptability.
- SLO4: 37 students passed the assessment out of 37 students, for a percentage of 100%. This meets the threshold of acceptability.

Attached Files

**XOn Campus:** true

**XProgram CIP:** 03.0301

**XOnline:** true

**XOther Site:** false

**XIf Other Site:**

## SLO 1 Theoretical and Technical Knowledge

**Outcome:** Articulate and explain theoretical and technical knowledge of aquaculture and fish health issues.

**SLO Area (select one):** Knowledge (Grad)

### Assessment Method:

- A Review Paper / Presentation assignment in FAS5015 Aquaculture I. This assignment covers SLOs 1-4. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Components of the Final Exam in FAS5255C Diseases of Warm Water Fishes. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Student self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes (see file named **afh self reflection** for data).

### SLO Not Assessed This Year:

#### Results:

- **Threshold of Acceptability: Scores of "2" are considered successful for each SLO.**
- SLO1 scores of 2 on the rubric: 37/37

Attached Files

**Start:** 07/01/2017

**End:** 06/30/2018

**Threshold of Acceptability:** 80

**How many students did you assess for this outcome?:** 37

**How many students met the outcome?:** 37

**What percentage of students met the outcome?:** 100

**Does this meet your threshold of acceptability?:** Yes

## SLO 2 Identify Species and Systems

**Outcome:** Identify aquaculture/captive aquatic species and identify or differentiate appropriate production/husbandry systems.

**SLO Area (select one):** Knowledge (Grad)

**Assessment Method:**

- A Review Paper / Presentation assignment in FAS5015 Aquaculture I. This assignment covers SLOs 1-4. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Components of the Final Exam in FAS5255C Diseases of Warm Water Fishes. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Student self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes (see file named **afh self reflection** for data).

**SLO Not Assessed This Year:**

**Results:**

- **Threshold of Acceptability: Scores of “2” are considered successful for each SLO.**
- SLO2 scores of 2 on the rubric: 36/37

Attached Files

**Start:** 07/01/2017

**End:** 06/30/2018

**Threshold of Acceptability:** 80

**How many students did you assess for this outcome?:** 37

**How many students met the outcome?:** 36

**What percentage of students met the outcome?:** 97

**Does this meet your threshold of acceptability?:** Yes

## SLO 3 Describe Regulatory and Environmental Issues

**Outcome:** Identify and describe regulatory and environmental issues of aquaculture and aquatic animal health.

**SLO Area (select one):** Knowledge (Grad)

**Assessment Method:**

- A Review Paper / Presentation assignment in FAS5015 Aquaculture I. This assignment covers SLOs 1-4. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Components of the Final Exam in FAS5255C Diseases of Warm Water Fishes. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Student self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes (see file named **afh self reflection** for data).

**SLO Not Assessed This Year:**

**Results:**

- **Threshold of Acceptability: Scores of “2” are considered successful for each SLO.**
- SLO3 scores of 2 on the rubric: 35/37

Attached Files

**Start:** 07/01/2017

**End:** 06/30/2018

**Threshold of Acceptability:** 80

**How many students did you assess for this outcome?:** 37

**How many students met the outcome?:** 35

**What percentage of students met the outcome?:** 95

**Does this meet your threshold of acceptability?:** Yes

## SLO 4 Proper Response

**Outcome:** Identify and describe proper response to disease outbreak/mortalities of aquatic organisms.

**SLO Area (select one):** Skills (Grad)

**Assessment Method:**

- A Review Paper / Presentation assignment in FAS5015 Aquaculture I. This assignment covers SLOs 1-4. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Components of the Final Exam in FAS5255C Diseases of Warm Water Fishes. The instructor used an SLO-specific rubric for the results (see rubric below, see file named **AFH\_SLO\_DATA\_2017-2018** for data).
- Student self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes (see file named **afh self reflection** for data).
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**SLO Not Assessed This Year:**

**Results:**

- **Threshold of Acceptability: Scores of “2” are considered successful for each SLO.**
- SLO4 scores of 2 on the rubric: 37/37

Attached Files

**Start:** 07/01/2017

**End:** 06/30/2018

**Threshold of Acceptability:** 80

**How many students did you assess for this outcome?:** 37

**How many students met the outcome?:** 37

**What percentage of students met the outcome?:** 100

**Does this meet your threshold of acceptability?:** Yes

## Graduate Certificate Aquaculture and Fish Health

**Program:** Aquaculture and Fish Health

**Programmatic Use of Results:**

- Data was analyzed by Sandra Houder and Rhiannon Pollard.
- Results are under review by Dr. Francis Floyd and the School of Forest Resources & Conservation’s Academic Programs Committee. Based on the success rates of students for the SLOs, we do not feel a need to make any changes to instructional methods or content at this time.

**Program Results Not Reported This Year:**

## Aquaculture and Fish Health AAP Detail

**End:** 06/30/2018

**Start:** 07/01/2017

**Providing Department:** Aquaculture and Fish Health

**Assessment Cycle (All AAPs):**

Student Learning Outcomes are assessed for students in the program during every offering of FAS6932 Introduction to Aquaculture (Spring) and FAS5255C Diseases of Warm Water Fishes (Summer C), both offered annually.

Assessment: Direct assessments in April & August

Indirect assessment varies by student (final term)

Analysis and Interpretation: January-February

Improvement Plans: February

Reporting: September

**SLO Assessment Rubric (All AAPs):**

Submissions for these assignments will be scored for SLO assessment purposes, in addition to separate course grading evaluation, using the following rubric:

Outcome	Criteria	2 Points	1 Point	0 Points
1	<b>Articulate and explain theoretical and technical knowledge of aquaculture and fish health issues.</b>	Substantive and factual information is used throughout the submission.	Relevant content may include non-related ideas.	Content is not relevant to aquaculture or fish health issues.
2	<b>Identifies appropriate species and production or husbandry method.</b>	Relevant evidence from literature references supports conclusions. Describes species profile and production method in detail.	Includes only one primary source with minimal citations. Species and/or production method inadequately described.	No reference made to current research literature. Production method or species not described.
3	<b>Identify and describe regulatory and environmental issues of aquaculture and aquatic animal health.</b>	Addresses relevant and applicable regulatory and environmental concerns with respect to the species and/or production method.	Minimal description and/or addresses one, but not both, environmental or regulatory issues.	Issues are not described or not included.
4	<b>Identify and describe proper response to disease outbreak/mortalities of aquatic organisms.</b>	Describes specific disease/mortality health issues (diagnosis and response) for the chosen species.	Description of health issues incomplete; lacks diagnosis or response.	No discussion of relevant disease/mortality is included.

In addition to these direct assessments, students will be given a self-reflective survey to indirectly assess their perceptions of learning and confidence relative to intended outcomes. This assessment is triggered by the individual application to receive the Graduate Certificate at the end of the program. The surveys will be administered through Qualtrics with the option of anonymity and collected by Sandra Houder.

Data obtained through both direct and indirect assessments will be compiled and reviewed by the online programs office, Distance Education Committee, and Graduate Programs Committee in the School of Forest Resources & Conservation. Weaknesses identified and/or changes needed will be implemented directly and promptly via these groups.

**Research (Graduate and Professional AAPs only):**

**Measurement Tools (Graduate and Professional AAPs Only):**

**Assessment Timeline (Graduate and Professional AAPs only):**