# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

**DEPT. AGRI**

**COURSE NUMBER:** 1115

**NUMBER OF CREDITS:** 4

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**Course Title:**

Introduction to Shrimp Production

**Catalog Description:**

Introduction to Shrimp Production provides students with an introduction to shrimp production with an emphasis on fundamental concepts of physiology, nutrition, life cycle, and management in various production methods along with history, processing, and marketing of shrimp.

**Prerequisites or Necessary Entry Skills/Knowledge:**

None

## FULFILLS MN TRANSFER CURRICULUM AREA(S)

Goal 1: Communication: ___ by meeting the following competencies:

Goal 2: Critical Thinking: ___ by meeting the following competencies:

Goal 3: Natural Sciences: ___ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ___ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ___ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ___ by meeting the following competencies:

Goal 7: Human Diversity: ___ by meeting the following competencies:

Goal 8: Global Perspective: ___ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ___ by meeting the following competencies:

Goal 10: People and the Environment: ___ by meeting the following competencies:
### Topics to be Covered

- History of shrimp farming
- Anatomy of shrimp
- Life cycle and molt cycle
- Shrimp immune system
- Shrimp production methods
- Water quality management
- Shrimp production management techniques
- Shrimp reproduction management
- Nutritional requirements of shrimp
- Disease diagnosis and management of shrimp
- Economic impact of shrimp production on global markets
- Shrimp harvesting and processing

### Student Learning Outcomes

- Describe history development of shrimp farming
- Compare various shrimp production methods
- Identify anatomy physiology of shrimp
- Identify stages and characteristics of the shrimp life cycle
- Identify nutritional requirements of shrimp
- Identify shrimp diseases, infections, and treatment methods
- Identify characteristics of animal health and disease control
- Evaluate water quality and its impact on shrimp production
- Diagram and describe mechanical systems associated with shrimp production
- Develop waste management plans
- Analyze environmental impact of shrimp production methods
- Analyze global shrimp trade and markets

### Is this course part of a transfer pathway?

- Yes ☐
- No ☒

Revised Date: 6/2021