MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

DEPT. AGRI **COURSE NUMBER: 1115**

NUMBER OF CREDITS: 4 **Lecture: 3 Lab: 1 OJT: 0**

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