

FISHES:

Fishermen Invested in Science, Healthy Ecosystems, and Sustainability



Syllabus 2022

October 13th – November 10th

Coordinators

Marcus Drymon, PhD

Assistant Extension Professor of Marine Resources, Mississippi State University
Marine Fisheries Specialist, Mississippi-Alabama Sea Grant

Amanda Jefferson

Extension Associate, Mississippi State University
Marine Fisheries Specialist, Mississippi-Alabama Sea Grant

Purpose

The purpose of the *FISHES* program is to extend practical, science-based information about fisheries management, fisheries science, and sustainability to fish enthusiasts in a user-friendly format.

Objectives

1. To communicate information about the frameworks and functions of various regulatory bodies tasked with managing fisheries.
2. To explain applied fisheries science concepts that collectively form the basis for fisheries management.
3. To expose participants to emerging ecosystem modifications and issues.
4. To encourage public engagement in fisheries management and fisheries science efforts.

Requirements

The training requirements include 20 hours of instruction as follows:

- 5 2-hour classroom sessions
- 1 5-hour field excursion
- 5 hours of required reading

Attendance

To achieve the *FISHES Certification*, each participant must attend all classroom sessions and complete all required reading. However, a participant may miss up to two classroom sessions as excused absences. Should an excused absence occur, the participant will be required to make up the missed material by viewing recorded lectures and taking short quizzes. If extenuating circumstances (e.g., illness, accident, death in family, etc.) cause a participant to miss more classroom sessions than the standards allow, an exception to the attendance policy may be made per coordinator approval.

Continuing Education Units (CEUs)

Completion of this program qualifies each participant to receive two CEU credits through the Mississippi State University Extension Service Center for Continuing Education. Each participant interested in obtaining these CEU credits must complete an online application and remit the required fee (\$25) within two weeks of program completion. Contact the coordinators for more information. (Note: to obtain the full two CEUs, the participant must attend the field excursion.)

Textbook

The textbook written to accompany this program is titled *FISHES: Fishermen Invested in Science, Healthy Ecosystems, and Sustainability*. It is available for download [here](#). Printed copies are available upon request. Reading assignments are described below.

Classroom Sessions

All classroom sessions will be held *in-person* at the Mississippi State University Coastal Research and Extension Center (1815 Popps Ferry Road, Biloxi, MS 39532) in room A102 from 6 - 8 PM. Light refreshments will be provided. In general, two chapters will be covered during each session, with a short break between and plenty of time for questions and discussion. For a change of pace, special guest lecturers will discuss their areas of expertise. Details for each session are provided on the next page.

Thursday, October 13, 2022: read chapters 1 and 2

Program introduction, Introduction to the Gulf of Mexico, Foundations of Gulf of Mexico fisheries management

Thursday, October 20, 2022: read chapters 3 and 4

Current Gulf of Mexico fisheries management, Fisheries science and stock assessment

Thursday, October 27, 2022: read chapters 5 and 6

Life history, Diet

Thursday, November 3, 2022: read chapters 7 and 8

Movement studies, Human alterations to the Gulf of Mexico ecosystem. Guest lectures by Jim Franks and Eric Sparks.

Thursday, November 10, 2022: read chapters 9 and 10

Human alterations to Gulf of Mexico species, FISHERIES in action. Guest lecture by Mark Albins. Course evaluation, certificates and swag bags to follow lectures.

Field Excursion: Saturday, October 29, 2022 (8 AM - Noon)

The field excursion will be held *in-person* at the Dauphin Island Sea Lab (101 Bienville Boulevard, Dauphin Island, AL 36528). During this trip, we will demonstrate two gear types discussed during the course: a bottom trawl and a bottom longline. *Please note the following:*

- This field excursion will take place on a research vessel, the R/V Alabama Discovery, most likely in Mobile Bay, Alabama.
- Participants are required to provide their own transportation, food, beverages, and closed-toe, closed-heel shoes.
- A hat, sunscreen, and seasickness medication are recommended.
- Each participant may bring *one* guest (i.e., friend or family member) free of charge!
- **IMPORTANT:** Participants *must* arrive on time! The boat will not wait at the dock for anyone who is running late!