

2021 Summer Class Schedule at CMU Biological Station:

Visit se.cmich.edu/CMUBS or email gordo2jj@cmich.edu for more information

Summer Session I:

Dates: May 17th – May 21st

BIO597z6 Beaver Island Bird Diversity during Migration (2 credits or non-credit workshop) Nancy Seefelt

An investigation of bird diversity during spring migration on Beaver Island using field observation, field techniques, and museum specimens. Course includes experience in mist-netting and bird banding. Participants must be able to hike outdoors. Binoculars required and supplied by participants

Prerequisites: 12 credit hours of Biology or permission of instructor

Dates: June 23rd-27th

Water Quality Chemistry for Education Workshop (non-credit workshop) Janice Tomasik

Water quality measurements of various watershed types with best practices for educational instruction (focus grades 4-9) of water quality experiments. SCECH's available

Note: Non-credit workshop open to invited guests only.

Summer Session II:

Dates: June 28th-July 16th

BIO 213Z Foundations of Ecology (4 credits) Kevin Pangle

Study of the relationship between organisms and their environment.

Prerequisite: BIO 112 with C- or better

Note: Will fill the above BIO213z first (cap 24) before opening up the section below.

Dates: July 19th – August 5th

BIO 213Z Foundations of Ecology (4 credits) Scott McNaught

Study of the relationship between organisms and their environment.

Prerequisite: BIO 112 with C- or better

Dates: July 17th-28th

BIO 100Z Field Biology (3 credits) Brad Swanson

Introduction to the techniques and methods for field studies in biology. Sampling procedures, interpretation and data analysis emphasize basic ecological relationships between organisms and their environments. (Open to high school sophomores, juniors and seniors for college credit.)

Summer Session II continued:

Dates: August 2nd – 13th

BIO 366z Freshwater Biology (3 credits) TBD

An introduction to the ecology of freshwater systems with an emphasis on the natural history, identification, and collection of freshwater organisms.

Prerequisite: currently changing prerequisites, contact the Department of Biology for new prerequisites and/or to be added to this course

Dates: July 16th – 19th

PHYS180z Introduction to Observational Astronomy (1 credit or non-credit workshop) Aaron LaCluyze

An introduction to astronomical topics that may be of interest to amateur astronomers. Topics may include: coordinate systems, telescope designs, stellar characteristics, lunar phases, seasonal sky variations, and solar activity. Weather permitting, nighttime observing will be done as a part of this class.

Dates: August 2 – August 6

Bio597z8 Stream Ecology (1 credit or non-credit workshop) Dr. Mark Luttenton, GVSU

Investigate the physical, chemical, and biological organization of stream and river ecosystems along with their riparian zones and watersheds. Critically evaluate recent conceptual developments in stream ecology. Interpret the effects of human activities on streams, rivers, and watersheds. Prereq BIO110,111 or instructor permission

Dates: August 9 – August 12th

BIO597zB Emerging Issues in Water Resources (1 credit or non-credit workshop) Dr. Alan Steinman, GVSU.

The most pressing water resource-related issues facing the planet today will be discussed and analyzed. Particular emphasis will be placed on analyzing these problems from a variety of perspectives, including environmental, economic, societal, and political. Students will be presented with real-world problems and discuss solutions.

Course Objectives:

- provide an overview of the emerging issues in water resources
- place the issues in a multidisciplinary perspective, providing a variety of viewpoints regarding the nature of these problems and possible solutions
- discuss current literature regarding water resources

Prerequisite: BIO110, 111 or instructor permission