

Circadian Rhythms Lab

1 credit

Wednesdays 9:05 – 12:05 at Sci-B12

Instructor: Kwangwon Lee

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Email: kwang1@camden.rutgers.edu

Office hours: Tuesday 1:30 – 4:30 pm

Overview

This course will teach students how to ask questions in biology; formulating hypothesis, designing experiments to test hypothesis, simple mathematical tests and presentation skills.

Expected learning outcomes

1. Students will become familiar with core concepts in circadian rhythm studies.
2. Students will be able to evaluate experimental data presented in current research articles in the field of chronobiology.
3. Students will formulate a working hypothesis, design experiments, perform experiments, and write a report.

Grading

25% Class Participation

Class attendance

25% Assignments

Background/Hypothesis

Experimental design

Progress report

50% Final report

SAKAI

All the course material including lecture note will be available through the SAKAI web site, <https://sakai.rutgers.edu/portal>

Code of academic integrity

Each student in this course is expected to abide by the University Code of Academic Integrity. Any work submitted by a student in this course for academic credit will be the student's own work.

Religious Holidays

I support my students who wish to practice their religious beliefs. Students are being advised to discuss religious absences with me well in advance of the religious holiday so that arrangements for making up work can be resolved before the absence.

Students with Disabilities (all schools excluding law)

Associate Dean Thomas DiValerio
(856) 225-2663 tdivaler@camden.rutgers.edu

Campus Center, Room #326 (stairs by the third street entrance, elevator located behind the corner convenience store and down the hall from the main campus lounge and multipurpose room).

More information; <http://studentaffairs.camden.rutgers.edu/disabled.html>

Tentative Syllabus (Lab)

Testbook

Optional:

Asking questions in biology 3rd Edition. Bernard, Gilbert, McGregor.

Optional:

The cartoon guide to statistics. Gonick and Smith.

September 7,

September 14,

September 21,

September 28,

October 5,

October 12,

October 19,

October 26,

November 2,

November 9,

November 16,

November 30,

Final report and discussion 1

December 7,

Final report and discussion 2

Course organization.

Chapter 1. Doing Science

September 22,

Chapter 2. Asking Questions

September 29,

Chapter 3. Answering Questions

October 6,

**Forming your own hypothesis
Experimental design**

October 13,

**Chapter 4. Presenting information
Experiment 1
Due Background/Hypothesis**

October 20,

Experiment 2

October 27,

**Experiment 3
Due Progress report 1**

November 3,

Experiment 4

November 10,

Experiment 5

November 17,

**Experiment 6
Due Progress report 2**

November 22,

Experiment 7

December 1,

Final report and discussion 1

December 8,
Final report and discussion 2