

**Professors**

Susan Golden, [sgolden@ucsd.edu](mailto:sgolden@ucsd.edu)

Office Hour: Thursday 11:00-noon in person AP&M 4824, noon-1 Zoom

Michael Gorman, [mgorman@ucsd.edu](mailto:mgorman@ucsd.edu)

Office Hour: Tuesday 11:00-noon at Pines patio; Mondays 4-5 by Zoom

\* check announcements on Canvas before emailing with questions

\* put BIMM116 or PSYC133 in subject line of all emails

**Synchronous Professor Sessions:** Wednesdays 2–3:20 on Zoom via Canvas

**Synchronous IA Sections:** Friday (various times) on Zoom via Canvas

**Course website** – [canvas.ucsd.edu](https://canvas.ucsd.edu)

Assignments/quizzes/readings etc. will all be posted on Canvas

Week	Topics Covered	Lecturer
0	Meet the IAs!	
1	Introduction to chronobiology	SG
	Visualizing and quantifying circadian rhythms	MG
2	Fundamental properties of biological rhythms	MG
	Molecular biology/neuroscience primer	SG&MG
3	Sleep	SG&MG
	Entrainment	MG
4	Drosophila – mechanism of its cellular clock	SG
	Physiological organization of clocks in mammals	MG
5	Catch-up/review and Midterm Exam	SG&MG
	Midterm	
6	Mammalian cellular clock mechanism	SG
	The SCN of mammals	DW
7	Photoreception in mammals	MG
	Systems biology	SP
8	Plant clocks	SG
	Human photoperiodism and Psychiatry	MM
	Cyanobacterial clocks	SG
	& Thanksgiving holiday	
10	Entrainment across Models	SG&MG
	Tidal rhythms	MG
	Integration	
	<b>CUMULATIVE FINAL EXAM TBD</b>	

**Lecturers:** SG = Susan Golden, Molecular Biology  
 MG = Michael Gorman, Psychology  
 DW = David Welsh, Psychiatry  
 MM = Michael McCarthy, Psychiatry  
 SP = Satchin Panda, Salk Institute

**Course organization:** BIMM116/PSYC133 is delivered completely remotely with required synchronous and asynchronous elements. The weekly pattern of assignments is as follows:

- 1. Self-study.** Course materials are posted minimally 2 weeks before related assignments are due. By Wednesday of any given week, you should have viewed the online materials, which include custom, professional quality videos for this class, curated readings and instructor lectures.
- 2. Office Hours.** Professors and IAs hold Zoom office hours throughout the week.
- 3. Q/A and discussion** with the professors. On *Wednesdays*, your two professors host an interactive Zoom session to answer live student questions, previously submitted student questions, and points for further interest. These sessions are recorded and posted on Zoom with an index of questions/topics covered. Although these sessions will not be used to introduce new material, students are responsible for the information covered in these meetings.
- 4. Online quizzes.** On Thursdays, after you have had a chance to clarify any material, you will complete untimed quizzes on the material for the week. Of course, you can complete these earlier than Thursday if you feel adequately prepared. You will have two attempts, but these must be completed by 2 pm Thursday to get credit.
- 5. Discussion sections.** On Fridays, IAs will conduct required Zoom sections that address any confusions revealed by the quizzing, and that interactively engage the course material at a richer level.
- 6. Quiz retake.** Students may retake the online quiz before the submission deadline and receive the *average* score for their two attempts. Quizzes submitted late will incur penalties.

**Grading:** Final course grades will be calculated as follows

A = 90-100%

B = 80-89.99%

C = 70-79.99%

D = 60-69.99%

F = <60%

Curving of final grades is not expected, but if any adjustments to the scale are made, they will be applied only to *benefit* students (*i.e.*, a more difficult curve will not be used if class performance exceeds expectations). ***Final letter grades will be modified with pluses and minuses (e.g., 80-82.99% = B-; 87-89.99% = B+).***

**Exams:** There will be one midterm exam (**250 points, 25%**) and a final exam (**350 points, 35%**). The final is cumulative, but more emphasis will be placed on material covered since the midterm. Both exams will be delivered asynchronously, but will have a time limit. Questions will be presented one at a time. Students must provide their final answer before proceeding to the next question and may not return to previous questions. Exams are open book and open note. Communication or collaboration with others, of any sort, is strictly prohibited. Any stretching of this prohibition constitutes academic misconduct. Please remind yourself of the Academic Integrity Policy (below) and consequences of not adhering to it.

**Online quizzes:** For a total of **225 points**, there will be **untimed** online quizzes administered through Canvas on assigned videos and course readings. Generally, there will be a quiz associated with every lecture topic so in most weeks there will be two quizzes due. *All quizzes will be due on Thursdays at 2 pm.* You may retake the quiz before the deadline and your first and second attempt scores will be averaged. If you are late AT ALL on the on first attempt, you will not receive any credit for a second attempt, so plan accordingly. Late second attempts

will also not receive additional credit. There are 17 quizzes, each quiz worth *15 points*. **Your two lowest quizzes will be dropped from the calculation of your final grade.** Quizzes are open book, meaning that you may consult notes, review the materials etc, but no collaboration with others of any sort is permitted. Please remind yourself of the Academic Integrity Policy (below) and consequences of not adhering to it. **Students are responsible for monitoring Canvas closely for due dates.** Credit for late assignments, if allowed at all, will be significantly discounted. Accommodations will be made for late-enrolling students without penalty.

**Participation credit:** Students are required to actively engage the material throughout the quarter. Students are expected to accumulate **175 points** from participation in synchronous discussion sections, 25 points per section. Sections are held synchronously on Fridays via Zoom at the time posted on the Schedule of Classes. Points will be awarded for participation in various section activities that may change weekly (e.g., group work, diagnostic quizzes, attendance at beginning, middle or end of section etc). Partial credit may be given. However, section participation is NOT based on correct performance (i.e., if a quiz is given, your participation points will not be determined by how many questions you got right). You only receive credit for participation in your assigned section. Sections will be held in Week 0 to meet your IA, but there will be no credit assigned. As sections will not meet in Thanksgiving week, there will be 9 sections with credit, so you may miss *two* with no penalty. There are no make-ups for missed sections.

**Drops and Withdrawals:** In accordance with current university policy.

**Incompletes:** Only for medical emergencies, not for other personal reasons. Requests must be made prior to the final exam, **NOT** after. Requests must be made in writing: a passing grade in the course up to that point is also a campus requirement for an "I".

**Make-up Exams:** Available only in the case of a documented emergency. Make-up exams are likely to be in an alternative format including essays and/or oral examination. You must decide whether you are well enough to take an exam; a grade will not be dropped after the fact because you state that you took an exam while sick. Any accommodation regarding missed exams will be evaluated in light of the fact that the exams are available over an extended interval. Do not wait until the last minute before exams are due to request accommodation.

**Course Improvements:** Your instructors strive to improve the learning experience of students in this course every year. One major avenue for course improvement has been the development of most online course materials by your peers through the [BioClock Studio](#), a project that was supported by a Howard Hughes Medical Institute (HHMI) teaching-professorship to SSG. Many of your assigned materials were created by students of the BioClock Studio in winters 2015-20. In Winter 2022 BioClock will be offered as a graduate course for Masters students. Registration information will be advertised later in the quarter.

**Instructional Assistants:** IAs (TAs and tutors) are wonderful resources. Take advantage of the additional value they can offer in this class. Their contact information, office hours and academic biographies will be posted online.

**Academic Integrity:** The standard of academic conduct for UCSD students requires that no student shall engage in any activity that involves attempting to receive a grade by means other than their own honest effort; for example, no student shall:

- a. knowingly procure, provide, or accept any unauthorized materials that contain questions

- or answers to any examination or assignment to be given at a subsequent time;
- b. complete, in part or in total, any examination or assignment for another person;
  - c. knowingly allow any examination or assignment to be completed, in part or in total, for himself or herself by another person;
  - d. plagiarize or copy the work of another person and submit it as his or her own work;
  - e. employ aids excluded by the instructor in undertaking coursework;
  - f. without proper permission, alter graded class assignments or examinations and then resubmit them for regrading.
  - g. make any false statements to achieve any deviation from course requirements

***UCSD Policy on Integrity of Scholarship*** *"The principle of honesty must be upheld if the integrity of scholarship is to be maintained by an academic community. The University expects that both faculty and students will honor this principle and in so doing protect the validity of University grading. This means that all academic work will be done by the student to whom it is assigned, without unauthorized aid of any kind. Officers of instruction, hereinafter called instructors, for their part, will exercise care in planning and supervising academic work, so that honest effort will be encouraged."*

***Violation of Academic Integrity will result in failure in the course as well as other serious penalties.***