

**SIO 111/Physics 111  
Introduction to Ocean Waves  
Course Syllabus, Spring, 2020**

Course website: [SIO/PHYS 111 on Canvas](#)  
Recommended website: <http://pordlabs.ucsd.edu/rsalmon/>  
Recommended website: [cdip.ucsd.edu](http://cdip.ucsd.edu)

Lectures:	MWF 1-1:50pm	Zoom via Canvas
Discussion:	Th 5-5:50pm	Zoom via Canvas
Final exam:	Th June 11, 11:30am-2:30pm,	Online

**Instructors:**

Rick Salmon, Professor of Oceanography  
Scripps Institution of Oceanography  
858-534-2090

HYPERLINK "mailto:rsalmon@ucsd.edu" [rsalmon@ucsd.edu](mailto:rsalmon@ucsd.edu)

Office hours (via Zoom): Tu 2-4:00pm,  
Th 2-4:00pm or by appt

Janet Becker, Teaching Professor  
Scripps Institution of Oceanography  
e-mail: [jmbecker@ucsd.edu](mailto:jmbecker@ucsd.edu)

Office hours (via Zoom): Tu 9-11:00am,  
Th 9-11:00am or by appt

**Teaching Assistant:**

Ben Davis, Graduate Student, SIO  
[bddavis@ucsd.edu](mailto:bddavis@ucsd.edu)

Office hours (via Zoom): MWF 11am-noon

**Administrator:**

Josh Reeves  
ECKART 204  
858-822-4559  
[jdreeves@ucsd.edu](mailto:jdreeves@ucsd.edu)

**Course description:**

An introduction to ocean surface waves, including: Dispersion relation, group velocity, and ray tracing. Sources of wave energy. Wave measurement and prediction. Tsunamis. Shoaling waves. Breaking waves. Long-shore currents.

**Text:** On-line textbook written by Professor Salmon. The textbook may be downloaded from the Canvas or the recommended website. Students must print their own hard copy.

**Prerequisites:** Physics 2A-C or 4A-C, and Math 20A-E or equivalent. (To gauge the mathematical level of the class, see the on-line textbook at the website.)

**Grading:** Homework 35%, Mid-term 25%, Final exam 40%

Homework is due to Canvas at the beginning of class on the date for which it is assigned.

Late homework will not be accepted, except for illness or unusual circumstances.

Homework will be assigned on Canvas one week before the due date.

### **SCHEDULE:**

MWF are lecture days, and lectures will be delivered remotely via Zoom through Canvas.

Homework is due to Canvas before the beginning of Wednesday's lecture (by 1pm).

Homework will be discussed in the recitation section on the following day.

MAR	30	M	Chapter 1	
APR	1	W	Chapter 1	
APR	2	Th	NO EVENING CLASS	
APR	3	F	Chapter 1	
APR	6	M	Chapter 1	
APR	8	W	Chapter 2	Homework #1 due to Canvas by 1pm
APR	9	Th	Discuss homework #1	
APR	10	F	Chapter 2	
APR	13	M	Chapter 3	
APR	15	W	Chapter 3	Homework #2 due to Canvas by 1pm
APR	16	Th	Discuss homework #2	
APR	17	F	Chapter 3	
APR	20	M	Chapter 4	
APR	22	W	Chapter 4	Homework #3 due to Canvas by 1pm
APR	23	Th	Discuss homework #3	
APR	24	F	Chapter 4	
APR	27	M	Chapter 5	
APR	29	W	Chapter 5	Homework #4 due to Canvas by 1pm
APR	30	Th	Discuss homework #4	
MAY	1	F	Chapter 5	
MAY	4	M	Chapter 5	
MAY	6	W	Mid-term exam covering chapters 1-5	
MAY	7	Th	Discuss mid-term exam	
MAY	8	F	Chapter 6	
MAY	11	M	Chapter 6	
MAY	13	W	Chapter 6	

MAY	14	Th	NO EVENING CLASS	
MAY	15	F	Chapter 6	
MAY	18	M	Chapter 7	
MAY	20	W	Chapter 7	Homework #5 due to Canvas by 1pm
MAY	21	Th	Discuss homework #5	
MAY	22	F	Chapter 7	
MAY	25	M	NO CLASS (Memorial Day Holiday)	
MAY	27	W	Chapter 8	Homework #6 due to Canvas by 1pm
MAY	28	Th	Discuss homework #6	
MAY	29	F	Chapter 8	
JUN	1	M	Chapter 8	
JUN	3	W	Chapter 9	Homework #7 due to Canvas by 1pm
JUN	4	Th	Discuss homework #7	
JUN	5	F	Guest Lecture	
JUN	11	Th	Final Exam	11:30-2:30 Online

**Zoom lectures:** Lectures will be delivered via Zoom. You are notified that these lectures will be recorded, and that this program uses video and audio recording or other personal information for the purpose of facilitating the course and/or test environment. UC San Diego does not allow vendors to use this information for other purposes. Recordings will be deleted when no longer necessary. However, if cheating is suspected, the recording may become part of the student's administrative disciplinary record.

**Disability Resources:** Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) located in University Center 202 behind Center Hall. Students should present their AFA letters to Faculty (please make arrangements to contact me privately) at least two weeks prior to an exam to ensure that accommodations may be arranged.

Contact the OSD for further information:

T: 858.534.4382

E: [osd@ucsd.edu](mailto:osd@ucsd.edu)

W: <http://disabilities.ucsd.edu>

