

BIOHOPK 44Y: Biology Core Lab (5 units)

Faculty: Denny, Palumbi, Watanabe

Requirements: Three in-depth lab write-ups (Writing in the Major requirement) and a detailed lab notebook covering non-WIM labs.

Course Description: Biology core lab. The course is run in parallel with BIOHOPK 43. Laboratory exercises are coordinated with a given week's lecture topics. Labs are designed to give students hands-on experience and take full advantage of the Marine Station's close proximity to Monterey Bay for both lab and field studies. Two 4-hour labs per week, plus field trips; enrollment limited to 20 students.

Topic

---

Week 1

Rocky intertidal communities: field trip

Week 2

Behavioral Ecology (Watanabe) \*

Week 3

Plants in Water (Denny)

Animal diversity (mostly in water) (Watanabe)

Week 4

Adaptation & natural selection (Palumbi)

Week 5

Photosynthesis (Denny) \*

Week 6

Plant mechanics (Denny)

Intertidal algal communities (Watanabe)

Week 7

Phylogeny (Palumbi) \*

Week 8

Plants in air: reproduction (Denny)

Community structure: *Endocladia* assemblages (Watanabe)

Week 9

*Holiday*

Nearshore shallow subtidal habitats (snorkeling, Watanabe)

Week 10

Human Life Tables (field trip to Monterey Cemetery) (Denny, Watanabe)

\* Lab write-up (fulfills WIM requirement)