

### Marine & Coastal Science, B.S. with Marine Ecology and Organismal Biology Focus Area (2021-2022)

College of Biological Sciences

Graduation Requirements: 180 units, including 64 upper division units; Min. 2.0 GPA req. in major, depth, and cumulative

Residency Requirement: 35 of last 45 units must be completed at UC Davis

All major courses must be taken for a letter grade (excluding courses offered only as P/NP)

#### PREPARATORY SUBJECT MATTER : 50-69 UNITS (LOWER DIVISION REQUIREMENTS)

Course	Offered	Units	Grade
<b>Biological Sciences (BIS)</b>			
BIS 2A	(F,W,S)	5	_____
BIS 2B	(F,W,S)	5	_____
BIS 2C	(F,W,S)	5	_____

#### General Chemistry (CHE)

CHE 2A	(F,W)	5	_____
CHE 2B	(W,S)	5	_____
CHE 2C	(F,S)	5	_____

#### Organic Chemistry (CHE)

CHE 8A	(F,S)	2	_____
CHE 8B	(F,W)	4	_____

**OR**

CHE 118A	(F,W)	4	_____
CHE 118B	(W,S)	4	_____
CHE 118C	(F,S)	4	_____

#### Mathematics (MAT)

MAT 17A or 21A	(F,W,S)	4	_____
MAT 17B or 21B	(F,W,S)	4	_____
MAT 17C or 21C*	(F,W,S)	0-4	_____

\*MAT 21C recommended, but not required

#### Physics (PHY)

PHY 7A	(F,W,S)	4	_____
PHY 7B	(F,W,S)	4	_____
PHY 7C	(F,W,S)	4	_____

**OR**

PHY 9A	(F,S)	5	_____
PHY 9B	(F,W)	5	_____
PHY 9C	(W,S)	5	_____

Recommended Lower Division Courses: EVE 012, GEL 016

#### DEPTH SUBJECT MATTER : 45-74 UNITS (UPPER DIVISION REQUIREMENTS)

BIS 101	(F,W,S)	4	_____
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#### DEPTH SUBJECT MATTER (continued)

BIS 102	(F,W,S)	3	_____
BIS 103	(F,W,S)	3	_____

**OR**

BIS 105*	(F,W,S)	3	_____
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\*if do not take BIS 102 AND 103

BIS 104	(F, W, S)	3	_____
STA 100	(F, W, S)	4	_____

**CHOOSE THREE:** GEL/ESP 116N, 150A, 150B, 150C

_____	_____	_____	_____
_____	_____	_____	_____

**CHOOSE TWO:** ATM 120; ESP 100, 110; ETX 101; EVE 100, 101, 112; HYD/EBS 103N

_____	_____	_____	_____
_____	_____	_____	_____

**CHOOSE ONE:** EVE 111 or ESP 111

#### MARINE ECOLOGY & ORGANISMAL BIOLOGY FOCUS AREA

**Choose at least 4 courses totaling a minimum of 12 units**

ANS 131; BIS 122, 122P, 124; ESP 100, 121, 124, 155, 155L; EVE 100, 101, 106, 112, 112L, 114, 115, 120; ETX/NUT 127; NPB 141, 141P; WFC 120, 120L, 121, 122, 130

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**BREADTH REQUIREMENT:** Complete **one course from each category below, totaling at least 8 units.** See second page for breadth category options.

**Coastal Environmental Processes**

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**Marine Environmental Chemistry**

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**Oceans & the Earth System**

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**FIELD REQUIREMENT:** See second page for field options.

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**INTERNSHIP/RESEARCH:** Complete a minimum of **3 units.** See second page for course options.

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## BREADTH REQUIREMENT COURSE OPTIONS

Must complete one course from each of the three categories below, totaling at least 8 units.

### Coastal Environmental Processes (choose one course)

ATM 158

GEL 182

ECI 140B

WFC 157

ESP 110, 152, 155

### Marine Environmental Chemistry (choose one course)

ECI 140B

GEL 182

ETX 120, ETX/NUT 127

HYD 134, 141

CHE 100

### Oceans & the Earth System (choose one course)

ATM 116

GEL 107, 108

ESP 166

WFC 144, 154

EVE 120

## FIELD REQUIREMENT COURSE OPTIONS

It is highly recommended that students fulfill this requirement by residence at Bodega Marine Laboratory for one or more courses. Bodega Marine Laboratory courses may simultaneously fulfill an additional major requirement. See the Bodega Marine Lab web page for more information: <https://marinescience.ucdavis.edu/academics/student-resources>

## OR

Alternatively, students may fulfill the Field Requirement by taking two of the field requirement course options. These courses cannot fulfill multiple requirements.

ESP 123, 151L

GEL 109L, 182

EVE 112L, 115

WFC 100, 120L, 157

## INTERNSHIP/RESEARCH REQUIREMENT COURSE OPTIONS

Complete a minimum of 3 units.

BIS 124

EVE 192, 199

ESP 192

GEL 192, 199

ETX 127 (same course as NUT 127) may be used to satisfy a course above and the Internship/Research requirement

OR

**The equivalent.**

*For detailed course information such as course titles, descriptions, and prerequisites, please see the [UC Davis General Catalog](#). For current course offerings, please use [Schedule Builder](#). Please note course offerings and degree requirements are subject to change; please consult with a [BASC advisor](#) to ensure graduation requirements are fully met.*