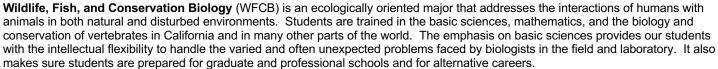
WFCB Bachelors of Science (BS) Requirements⁺





Preparatory Subject Matter Requirements (2020–2021)

| | | Quarter(s) | | | | | | |
|---|---|----------------------|-------------|-----------|-------------|--|--|--|
| Preparatory Subject Ma | itter (57-59 Units) | Offered*** | Units | Completed | Notes | | | |
| Written Expression | | | | | | | | |
| University Writing Program 1 | Expository Writing | I, II, III, IV | 4 | | | | | |
| Oral Expression (Choose | | | | | | | | |
| | only CMN 1 additionally satisfies the College Con | position requirement | t. | | | | | |
| Communication 1 | Introduction to Public Speaking | I, II, III, IV | 4 | | | | | |
| Communication 3 | Interpersonal Communication Competence | I, II, III | 4 | | | | | |
| Dramatic Art 10 | Introduction to Acting | I, II, III | 3 | | - | | | |
| Chemistry | | | | | | | | |
| Chemistry 2A | General Chemistry | I, II, IV | 5 | | | | | |
| Chemistry 2B | General Chemistry | II, III, IV | 5 5 2 | | | | | |
| Chemistry 8A | Organic Chemistry | I, III, IV | 2 | | | | | |
| Chemistry 8B | Organic Chemistry | ı́, II, İV | 4 | | | | | |
| Biological Sciences | Ç , | | | | | | | |
| BIS 2A | Introductory Biology | I, II, III, IV | 5 | | | | | |
| BIS 2B | Introductory Biology | I, II, III, IV | 5 5 | | | | | |
| BIS 2C | Introductory Biology | I, II, III, IV | 5 | | | | | |
| Madh amadian | , | | | | | | | |
| Mathematics | 01 | 1 11 111 117 | 0 | | | | | |
| Mathematics 16A | Short Calculus | I, II, III, IV | 3 3 | | | | | |
| Mathematics 16B | Short Calculus | I, II, III, IV | 3 | | | | | |
| Physics | | | | | | | | |
| Physics 1A | Principles of Physics | I, II | 3 | | | | | |
| Physics 1B | Principles of Physics | II, III | 3 | | | | | |
| Statistics (Choose one of the following) | | | | | | | | |
| WFC 103 | Applied Statistics for Wildlife Research | II | 4 | | | | | |
| Statistics 100 | Applied Statistics for Bio Sciences | ı, I, II, III, IV | 4 | | | | | |
| Plant Sciences 120 | Applied Statistics in Ag Science | I, II, III, IV | 4 | | | | | |
| | ······································ | | | | | | | |
| Wildlife & Conservation (Choose one of the following) | | | | | | | | |
| WFC 10 | Wildlife Ecology and Conservation | I, III | 4 | | | | | |
| WFC 50 | Natural History of CA Vertebrates | II | 3 | | | | | |
| | | | | | | | | |

⁺This checklist is for guidance purposes. Other courses may be listed in course catalog but are not shown here because they are offered irregularly. Last updated 11/28/20. I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

^{***}Course offerings are subject to change. Check with your adviser for the most updated listings.

Depth Subject Matter Requirements

NOTE: Students graduating with this major are required to attain at least a C average (2.0 GPA) in all courses taken at the university in Depth Subject Matter and Area of Specialization and pass all coursework. See requirements of the College in the UCD General Catalog.

| Depth Subject M | | Prerequisites | Qtr(s) | Units | Completed |
|--|--|--|-----------------------------------|---------------------------------|-----------|
| Ecology (Choose ESP 100 EVE 101 | e one of the following) General Ecology Introduction to Ecology | BIS 2A-C; MAT 16A-B; STA 13 recommended BIS 2A-C; MAT 16A-B (or equiv.) | I, II, IV I, II, III, IV | 4 4 | |
| Evolution EVE 100 | Introduction to Evolution | BIS 2ABC, MAT 16AB or 17AB or 21AB, STA 100 recommended | I, II, III, IV | 4 | |
| Physiology WFC 130 | Physiological Ecology | EVE 101 or ESP 100 or equivalent | II | 4 | |
| Animal Behavio NPB 102 WFC 141 | Or (Choose one of the following) Animal Behavior Behavioral Ecology | BIS 2A-C EVE 101 or ESP 100 or equivalent | II, III, IV II | 3 4 | |
| Conservation B WFC 154 | Biology Conservation Biology | BIS 2B or equivalent | II | 4 | |
| Quantitative Ec WFC 122 WFC 124 | cology (Choose one of the following) Population Dynamics and Estimation Sampling Animal Populations | MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv ESP 100 or EVE 101; WFC 103 or STA 100 or PLS 120 | II III | 4 4 | |
| WFC 110 WFC 110L WFC 111 WFC 111L WFC 120 WFC 120L WFC 134 WFC 134L | re (Choose 3 lecture courses and 2 laboratory cour Biology & Conservation of Wild Mammals Lab in Biology & Conservation of Wild Mammals Biology & Conservation of Wild Birds Lab in Biology & Conservation of Wild Birds Biology & Conservation of Fishes Lab in Biology & Cons of Fishes Herpetology Herpetology Laboratory | BIS 2A-C; EVE 101 or ESP 100 or equivalent WFC 110 (may be concurrent); consent of instructor BIS 2A-C, upper division ecology recommended WFC 111 (may be concurrent); consent of instructor BIS 2ABC, upper division ecology recommended WFC 120 (may be concurrent) BIS 2ABC, upper division ecology recommended WFC 134 concurrently | | 3 3 3 3 2 3 3 | |
| Research Methor WFC 100 WFC 101/Leven WFC 102/Lodd | ods (Choose one of the following) Field Methods in Wildlife, Fish, & Cons. Bio Field Research in Wildlife Ecology + Lab Field Research in Fish Ecology + Lab | BIS 2ABC, EVE 101 or ESP 100 Consent of instructor; ESP 100 or EVE 101; WFC 103 or STA 100 or PLS 120; WFC 110 or WFC 111 or WFC 134 Consent of instructor; ESP 100 or EVE 101; WFC 103 or STA 100 | III I | 4 2/4 1/6 | |
| GIS Technology ABT/LDA 150 | y (Strongly recommended, but not required) Geographic Info Systems | or PLS 21 or equivalent with consent of instructor | 1 | 4 | |
| Anatomy (Strong APC 100 | gly recommended, but not required) Comparative Organology of Vertebrates | BIS 2A-B | II | 4 | |
| Statistics (Strong STA 104 odd STA 106 STA 108 | gly recommended, but not required) Nonparametric Statistics Analysis of Variance Regression Analysis | STA 13, 32, or 100 STA 13, 32, or 100 STA 13, 32, or 100 | II I, II, IV I, II, III, IV | 4 4 4 | |

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session

odd Course is offered in odd years only (2021, 2023, etc.)

even Course is offered in even years only (2020, 2022, etc.)

* Complete a major modification petition to use this course until its addition is formally recognized by campus.

^{***}Course offerings are subject to change. Check with your adviser for the most updated listings.

^{††}Future availability or timing unknown

Fish Biology

Why study Fish Biology?

Fish are the most diverse of all vertebrates, plus they are a major source of healthy food for the world's people. You really need no other reason to study them. Actually, the fish biology option is more of an aquatic biology option with an emphasis on fish. The curriculum prepares you for jobs with fisheries and conservation agencies, as well as for graduate school in diverse areas of aquatic biology. Internships and independent studies are encouraged, to gain experience while you are in school. Students in this option get wet on occasion and get to feel slime produced by a wiggling fish in their hands. Try it; you will like it.



| Required Courses | | Prerequisites | Qtr(s) | Units | Completed |
|------------------------|---------------------------------------|--|--------|-------|-----------|
| WFC 120/L | Biology & Conservation of Fishes | BIS 2A-C | 1 | 3 | |
| | Lab in Biology & Cons of Fishes | WFC 120 (may be concurrent) | 1 | 2 | |
| Complete one | Invertebrates course | | | | |
| EVE 112/L even | Biology of Invertebrates | BIS 2B-C | II | 3 | |
| | Biology of Invertebrates: Lab | EVE 112 concurrently | II | 2 | |
| ENT 116 | Biology of Aquatic Insects | BIS 2B | III | 3 | |
| EVE 114 | Experimental Invertebrate Biology | Bodega Course. BIS 2A-C, upper division standing | IV | 3 | |
| Complete thre | ee courses between Aquatic Systems an | d Water Policy/Law courses, with at least one from each cate | gory | | |
| Aquatic Syste | ems courses | | | | |
| ANS 118 ^{††} | Fish Production | WFC 120 and 121 | II | 4 | |
| ESM 100 | Principles of Hydrologic Science | CHE 2B; Math 16B; PHY 7A or 9A | 1 | 4 | |
| ESP 116N even | Oceanography | GEL 1, 2, 16, or 50 | II | 3 | |
| ESP 150C | Biological Oceanography | BIS 2A; course in general ecology | IV | 4 | |
| ESP 151 ^{††} | Limnology | BIS 2A; junior standing | | 4 | |
| ESP 151L ^{††} | Limnology Laboratory | ESP 151 concurrently | | 3 | |
| ESP 152 | Coastal Oceanography | Bodega Course. Upper division standing, PHY 9B and MAT 21B | IV | 3 | |
| ESP 155 | Wetland Ecology | BIS 2A, ESP 100 or EVE 101 recommended | 1 | 4 | |
| EVE 115 odd | Marine Ecology | EVE 101 or ESP 100 or BIS 2B | II | 4 | |
| HYD 143 even | Hydrological Processes in Ecosystems | HYD 141 or ESM 100 | II | 3 | |
| WFC 137* even | Applied Fisheries Conservation | WFC 120/L or WFC 110/L or WFC 111/L or WFC 134/L | III | 3 | |
| Water Policy/ | l aw course | | | | |
| HYD 150 | Water Law | upper division standing or consent of instructor | II | 3 | |
| ESP 161 | Environmental Law | Upper division standing; one course in env. science | III | 4 | |
| ESP 162 | Environmental Policy | ECN 1A | II | 4 | |
| ESP 166N* | Ocean and Coastal Policy | ESP 1 or consent of instructor | II | 3 | |
| ESP 169** | Water policy and politics | ECN 1A; POL 1 | III | 4 | |
| | | | | | |

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odd Course is offered in odd years only (2021, 2023, etc.)

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