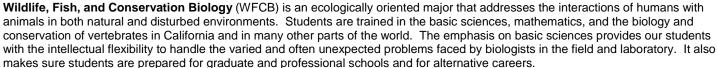
WFCB Bachelors of Science (BS) Requirements





Preparatory Subject Matter Requirements (2015-16)

| Written Expression University Writing Program 1 Expository Writing I, II, III, IV 4 Oral Expression (Choose one of the following) Note: Of the below courses, only CMN 1 additionally satisfies the College Composition requirement. Communication 1 Introduction to Public Speaking I, II, III, IV 4 Communication 3 Interpersonal Communication Communication I, II, III 4 4 Competence Competence Paramatic Art 10 Introduction to Acting I, II, III 3 Dramatic Art 10 Introduction to Acting II, III, III 3 III, III 4 Chemistry Chemistry 2 Feneral Chemistry II, III, IV 5 5 Chemistry 2B General Chemistry II, III, IV 5 5 Chemistry 8A Organic Chemistry II, III, IV 4 5 Biological Sciences Biological Sciences 8 Organic Chemistry II, III, IV 5 5 BIS 2A Introductory Biology II, II, III, IV 5 5 5 BIS 2B Introductory Biology II, II, III, IV 5 5 5 Mathematics 16A | | | Quarter(s) | | | | | |
|--|---|---|-----------------------|-------|-----------|-------|--|--|
| University Writing Program 1 | Preparatory Subject Matter | (57-59 Units) | Offered*** | Units | Completed | Notes | | |
| Cral Expression (Choose one of the following) Note: Of the below courses, only CMN 1 additionally satisfies the College Composition requirement. Communication 3 Introduction to Public Speaking I, II, III, III 4 Communication 3 Interpersonal Communication I, III, III 4 Dramatic Art 10 Introduction to Acting II, II, III 3 Chemistry Introduction to Acting II, III, IV 5 Chemistry 2B General Chemistry II, III, IV 5 Chemistry 8B Organic Chemistry II, III, IV 2 Chemistry 8B Organic Chemistry II, III, IV 4 BiS 2A Introductory Biology II, II, III, IV 5 BiS 2B Introductory Biology II, II, III, IV 5 BiS 2C Introductory Biology II, II, III, IV 5 Mathematics Short Calculus II, II, III, IV 5 Mathematics 16A Short Calculus II, II, III, IV 3 Mathematics 16B Short Calculus II, II, III, IV 3 Physics 1A Principles of Physics II 1 3 Physics 1B Principles of Physics II, II, III, IV 4 | Written Expression | | | | | | | |
| Note: Of the below courses, only CMN 1 additionally satisfies the College Composition requirement. | | | I, II, III, IV | 4 | | | | |
| Communication 1 | Oral Expression (Choose one of the | ne following) | | | | | | |
| Communication 3 | Note: Of the below courses, only CMN | I 1 additionally satisfies the College Comp | oosition requirement. | | | | | |
| Competence Com | Communication 1 | Introduction to Public Speaking | I, II, III, IV | 4 | | | | |
| Dramatic Art 10 | Communication 3 | Interpersonal Communication | I, II, III | 4 | | | | |
| Chemistry 2A General Chemistry I, III, IV 5 5 5 5 5 5 5 5 5 | | Competence | | | | | | |
| Chemistry 2A General Chemistry I, II, IV 5 Chemistry 2B General Chemistry II, III, IV 5 Chemistry 2B General Chemistry II, III, IV 2 Chemistry 8A Organic Chemistry I, III, IV 4 Chemistry 8B Organic Chemistry I, II, IV 4 Chemistry 8B Organic Chemistry I, II, IIV 4 Chemistry 8B Organic Chemistry I, II, III, IV 4 Chemistry 8B Organic Chemistry I, II, III, IV 5 Chemistry 8B Organic Chemistry I, II, III, IV 5 Chemistry 8B Organic Chemistry I, II, III, IV 5 Chemistry 8B Organic Chemistry II, III, III, IV 5 Chemistry 8B Organic Chemistry II, III, III, IV 5 Chemistry 8B Organic Chemistry II, III, III, IV 5 Chemistry 8B Organic Chemistry II, III, III, IV II, III, IV II, III, I | | Introduction to Acting | I, II, III | 3 | | | | |
| Chemistry 2B | Chemistry | | | | | | | |
| Chemistry 8A | Chemistry 2A | General Chemistry | I, II, IV | 5 | - | | | |
| Chemistry 8B | Chemistry 2B | General Chemistry | II, III, IV | 5 | - | | | |
| Biological Sciences | Chemistry 8A | Organic Chemistry | I, III, IV | 2 | - | | | |
| BIS 2A | Chemistry 8B | Organic Chemistry | I, II, IV | 4 | | | | |
| BIS 2B | Biological Sciences | | | | | | | |
| BIS 2C | BIS 2A | Introductory Biology | I, II, III, IV | 5 | | | | |
| Mathematics Mathematics 16A Short Calculus I, II, III, IV 3 Mathematics 16B Short Calculus I, II, III, IV 3 Physics Physics 1A Principles of Physics I 3 Physics 1B Principles of Physics II 3 Statistics (Choose one of the following) Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | BIS 2B | Introductory Biology | I, II, III, IV | 5 | - | | | |
| Mathematics 16A Short Calculus I, II, III, IV 3 Mathematics 16B Short Calculus I, II, III, IV 3 Physics 16B Principles of Physics I 3 Physics 1B Principles of Physics II 3 Statistics (Choose one of the following) Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | BIS 2C | Introductory Biology | I, II, III, IV | 5 | | | | |
| Mathematics 16B Short Calculus I, II, III, IV 3 Physics Physics 1A Principles of Physics I 3 Physics 1B Principles of Physics II 3 Statistics (Choose one of the following) Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | Mathematics | | | | | | | |
| Physics 1A Principles of Physics I 3 | Mathematics 16A | Short Calculus | I, II, III, IV | 3 | | | | |
| Physics 1A Principles of Physics I 3 | Mathematics 16B | Short Calculus | I, II, III, IV | 3 | | | | |
| Physics 1B Principles of Physics II 3 Statistics (Choose one of the following) Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | Physics | | | | | | | |
| Statistics (Choose one of the following) Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | Physics 1A | Principles of Physics | 1 | 3 | | | | |
| Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | Physics 1B | Principles of Physics | II | 3 | | | | |
| Statistics 100 Applied Statistics for Bio Sciences I, II, III, IV 4 Plant Sciences 120 Applied Statistics in Ag Science I 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 | | | | | | | | |
| 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 | | | I, II, III, IV | 4 | | | | |
| WFC 10 Wildlife Ecology and Conservation I, III 4 | Plant Sciences 120 Applied | Statistics in Ag Science | 1 | 4 | | | | |
| WFC 10 Wildlife Ecology and Conservation I, III 4 | Wildlife & Conservation (Choose one of the following) | | | | | | | |
| WFC 50 Natural History of CA Vertebrates II 3 | | | I. III | 4 | | | | |
| | | - - | | | | | | |
| WFC 11 Introduction to Conservation Biology III 3 | WFC 11 | Introduction to Conservation Biology | III | 3 | | | | |

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

^{*}Course is offered in odd years only (2013, 2015, etc.)

^{**}Course is offered in even years only (2012, 2014, etc.)

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

^{††}Future availability unknown

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 N | | Prerequisites | Qtr(s) | Units | Completed | | | |
|--|-------------------|---|---|----------------|-------|-----------|--|--|--|
| EVE 101 | Ecology (Choos | Ecology (Choose one of the following) | | | | | | | |
| BIS 101 Genes and Gene Expression BIS 2A-C (2C may be concurrent); CHE 8B (may be concurrent) I, II, III, IV V V V V V V V V V | ESP 100 | General Ecology | BIS 2A-C; MAT 16A-B; STA 13 recommended | | 4 | | | | |
| BIS 101 | EVE 101 | Introduction to Ecology | BIS 2A-C; MAT 16A-C (or equiv.) | I, II, III, IV | 4 | | | | |
| EVEI 100 | Genetics | | | | | | | | |
| EVE 100 | BIS 101 | Genes and Gene Expression | BIS 2A-C (2C may be concurrent); CHE 8B (may be concurrent) | ı, II, III, IV | 4 | | | | |
| Physiological Ecology | Evolution | | | | | | | | |
| WFC 130 | EVE 100 | Introduction to Evolution | BIS 2A-C; BIS 101; MAT 16A-C or equiv; STA 13 or 100 | I, II, III, IV | 4 | | | | |
| NPB 102 | Physiology | | | | | | | | |
| NPB 102 | WFC 130 | Physiological Ecology | EVE 101 or ESP 100 or equivalent | II | 4 | | | | |
| VFC 141** Behavioral Ecology EVE 101 or ESP 100 or equivalent I | Animal Behavi | or (Choose one of the following) | | | | | | | |
| VFC 141** Behavioral Ecology | NPB 102 | Animal Behavior | BIS 2A-C | II, III, IV | 3 | | | | |
| VFC 154 | WFC 141** | Behavioral Ecology | EVE 101 or ESP 100 or equivalent | II | | | | | |
| Name | Conservation I | Biology | | | | | | | |
| Nation Population Population Dynamics and Estimation MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv III 4 Population Popul | WFC 154 | Conservation Biology | EVE 101 or ESP 100 or equivalent | 1 | 4 | | | | |
| WFC 110L Lab in Biology & Conservation of Wild Mammals WFC 110 (may be concurrent); consent of instructor IIII 3 WFC 110L Lab in Biology & Conservation of Wild Mammals WFC 110 (may be concurrent); consent of instructor IIII 3 WFC 111L Biology & Conservation of Wild Birds BIS 2A-C; EVE 101 or ESP 100 or equivalent I 3 WFC 111L Lab in Biology & Conservation of Wild Birds WFC 111 (may be concurrent); consent of instructor I 3 WFC 120L Lab in Biology & Conservation of Fishes BIS 2A-C; EVE 101 or ESP 100 or equivalent I 3 WFC 120L Lab in Biology & Conservation of Fishes WFC 120 (may be concurrent) I 2 WFC 134* Herpetology BIS 2A-C; EVE 101, ESP 100 or equivalent rec. II 3 WFC 134L* Herpetology Laboratory WFC 134 concurrently II 3 WFC 134L* Herpetology Laboratory WFC 134 concurrently II 3 WFC 134L* Field Methods in Wildlife, Fish, & Cons. Bio EVE 101 or ESP 100 or equivalent; consent of instructor III 4 WFC 101/L** Field Research in Wildlife, Fish, & Cons. Bio Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology WFC 101/L** Field Research in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology WFC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 STA 104* Nonparametric Statistics Satistics STA 13, 32, or 102 II 4 STA 106* Analysis of Variance STA 13, 32, or 102 II, II, IV 4 | Population Bio | | | | | · | | | |
| Organismal Core (Choose 3 lecture courses and 2 laboratory courses) WFC 110 Biology & Conservation of Wild Mammals BIS 2A-C; EVE 101 or ESP 100 or equivalent III 3 WFC 110L Lab in Biology & Conservation of Wild Mammals WFC 110 (may be concurrent); consent of instructor III 3 WFC 1111 Biology & Conservation of Wild Birds BIS 2A-C; EVE 101 or ESP 100 or equivalent I 3 WFC 111L Lab in Biology & Conservation of Wild Birds WFC 111 (may be concurrent); consent of instructor I 3 WFC 120 Biology & Conservation of Fishes BIS 2A-C I 3 WFC 120L Lab in Biology & Cons or Fishes BIS 2A-C; EVE 101, ESP 100 or equivalent rec. II 3 WFC 134* Herpetology BIS 2A-C; EVE 101, ESP 100 or equivalent rec. II 3 WFC 134L* Herpetology Laboratory WFC 134 concurrently II 3 WFC 101/L** Field Methods in Wildlife, Fish, & Cons. Bio EVE 101 or ESP 100 or equivalent; consent of instructor III 4 WFC 101/L** Field Research in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and orn | • | <u> </u> | MAT16A-B; STA13 or equiv; EVE 101, ESP 100, or equiv | III | 4 | | | | |
| WFC 110L Lab in Biology & Conservation of Wild Mammals WFC 110 (may be concurrent); consent of instructor III 3 | Organismal Co | | | | | | | | |
| WFC 110L Lab in Biology & Conservation of Wild Mammals WFC 110 (may be concurrent); consent of instructor III 3 | WFC 110 | Biology & Conservation of Wild Mammals | BIS 2A-C; EVE 101 or ESP 100 or equivalent | III | 3 | | | | |
| WFC 111 Biology & Conservation of Wild Birds WFC 111 (may be concurrent); consent of instructor I 3 | WFC 110L | Lab in Biology & Conservation of Wild Mammals | WFC 110 (may be concurrent); consent of instructor | III | | | | | |
| WFC 111L Lab in Biology & Conservation of Wild Birds WFC 120 Biology & Conservation of Fishes BIS 2A-C WFC 120L Lab in Biology & Cons of Fishes WFC 120 (may be concurrent) WFC 134* Herpetology WFC 134* Herpetology Laboratory WFC 134* Herpetology WFC 134* Concurrently WFC 100 Field Methods in Wildlife, Fish, & Cons. Bio WFC 100 Field Methods in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology GIS Technology (Strongly recommended, but not required) ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 11, II, IV 4 STA 106 Analysis of Variance | WFC 111 | Biology & Conservation of Wild Birds | BIS 2A-C; EVE 101 or ESP 100 or equivalent | 1 | | | | | |
| WFC 120L Lab in Biology & Cons of Fishes WFC 120 (may be concurrent) I 2 | WFC 111L | Lab in Biology & Conservation of Wild Birds | WFC 111 (may be concurrent); consent of instructor | 1 | 3 | | | | |
| WFC 120L Lab in Biology & Cons of Fishes WFC 120 (may be concurrent) I 2 | WFC 120 | Biology & Conservation of Fishes | BIS 2A-C | I | 3 | | | | |
| WFC 134L* Herpetology Laboratory WFC 134 concurrently II 3 | WFC 120L | Lab in Biology & Cons of Fishes | WFC 120 (may be concurrent) | I | | | | | |
| Research Methods (Choose one of the following) WFC 100 Field Methods in Wildlife, Fish, & Cons. Bio WFC 101/L** Field Research in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology GIS Technology (Strongly recommended, but not required) ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor I 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 STA 13, 32, or 102 STA 13, 32, or 102 III 4 STA 13, III 4 | WFC 134* | Herpetology | BIS 2A-C; EVE 101, ESP 100 or equivalent rec. | II | 3 | | | | |
| WFC 100 Field Methods in Wildlife, Fish, & Cons. Bio WFC 101/L** Field Research in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology GIS Technology (Strongly recommended, but not required) ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor III 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | WFC 134L* | Herpetology Laboratory | WFC 134 concurrently | II | 3 | | | | |
| WFC 101/L** Field Research in Wildlife Ecology + Lab Consent of instructor & 1 upper division course in ecology, statistics, and ornithology, mammalogy, or herpetology GIS Technology (Strongly recommended, but not required) ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor I 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | Research Meth | nods (Choose one of the following) | | | | | | | |
| statistics, and ornithology, mammalogy, or herpetology GIS Technology (Strongly recommended, but not required) ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor I 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | | Field Methods in Wildlife, Fish, & Cons. Bio | EVE 101 or ESP 100 or equivalent; consent of instructor | III | | | | | |
| ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor I 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | WFC 101/L** | Field Research in Wildlife Ecology + Lab | | 1 | 2/4 | | | | |
| ABT/LDA 150 Geographic Info Systems PLS 21 or equivalent with consent of instructor I 4 Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | | | statistics, and ornithology, mammalogy, or herpetology | | | | | | |
| Anatomy (Strongly recommended, but not required) APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | GIS Technolog | y (Strongly recommended, but not required) | | | | | | | |
| APC 100 Comparative Organology of Vertebrates BIS 2A-B II 4 | ABT/LDA 150 | Geographic Info Systems | PLS 21 or equivalent with consent of instructor | 1 | 4 | | | | |
| Statistics (Strongly recommended, but not required) STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | Anatomy (Stron | gly recommended, but not required) | | | | | | | |
| STA 104* Nonparametric Statistics STA 13, 32, or 102 II 4 STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | APC 100 | Comparative Organology of Vertebrates | BIS 2A-B | II | 4 | | | | |
| STA 106 Analysis of Variance STA 13, 32, or 102 I, II, IV 4 | Statistics (Stron | ngly recommended, but not required) | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | STA 104* | Nonparametric Statistics | STA 13, 32, or 102 | II | 4 | | | | |
| STA 108 Regression Analysis STA 13, 32, or 102 I, II, III, IV 4 | STA 106 | Analysis of Variance | STA 13, 32, or 102 | I, II, IV | 4 | | | | |
| | STA 108 | Regression Analysis | STA 13, 32, or 102 | I, II, III, IV | 4 | | | | |

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session *Course is offered in odd years only (2013, 2015, etc.)

**Course is offered in even years only (2012, 2014, etc.)

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

††Future availability unknown



Wildlife and Conservation Biology 2015-16

| Required Courses | | Prerequisites | Qtr(s)*** | | Completed |
|-----------------------------------|---|--|-----------|--------|-----------|
| Complete Wild | | DIO OA D | | | |
| WFC 151 | Wildlife Ecology | BIS 2A-B | I | 4 | |
| Choose one P | lants course terested in certification as a Wildlife Biologist from | The Wildlife Society need 13.5 units in hotany | | | |
| PLS/PLB 102 | California Floristics | PLS 2 or BIS 2C or equivalent | III | 5 | |
| PLS 131* | Identification and Ecology of Grasses | BIS 2C, PLB 102 recommended, must be available in summer for field work | III | 2 | |
| PLS 144 | Trees and Forests | PLS 2 or BIS 2C | 1 | 4 | |
| PLS 147/L | California Plant Communities + Lab | BIS 2A or 2B or 2C; MCB 10 rec | III | 3/1 | |
| PLS 178* | Biology & Management of Aquatic Plants | PLS 2 or BIS 2C; CHE 8B or 118B; | 1 | 3 | |
| PLB 108 | Systematics & Evolution of Angiosperms | BIS 2A-C | III | 5 | |
| PLB/EVE 117 | Plant Ecology | BIS 2A-C; PLB 111 recommended | I | 4 | |
| PLB 119 | Population Biology of Weeds | BIS 2A-C | III | 3 | |
| PLB 148 | Introductory Mycology | BIS 2A-C | I | 4 | |
| Choose one W Note: A course ca | /IldInfe course annot be used to simultaneously satisfy a depth a | nd area of specialization requirement. | | | |
| WFC 110 | Biology & Conservation of Wild Mammals | BIS 2A-C; EVE 101 or ESP 100 or equivalent | III | 3 | - |
| WFC 111 | Biology & Conservation of Wild Birds | BIS 2A-C; EVE 101 or ESP 100 or equivalent | 1 | 3 | |
| WFC 120 | Biology & Conservation of Fishes | BIS 2A-C | l " | 3 | |
| WFC 134* WFC 136** | Herpetology Ecology of Waterfowl & Game Birds | BIS 2A-C; EVE 101, ESP 100 or equivalent rec. WFC 111, 111L, or equivalent, or consent of instructor | II II | 3 3 | |
| WFC 150* | •• | · · · · · · · · · · · · · · · · · · · | " | 3 | |
| | Ecology of Human-Wildlife Conflicts | BIS 2A-C or the equivalent | | | |
| WFC 141** WFC 144** | Behavioral Ecology Marine Conservation Science | EVE 101 or ESP 100 or equivalent a course in ecology | II II | 4 4 | |
| | Mainte Conton Validin Colonico | a course in costingy | | | |
| WFC 155/L ⁺⁺ | Habitat Conservation & Restoration + Lab | EVE 101 or ESP 100 or equivalent; | II | 3/2 | |
| | | WFC 154 & ENH 160 recommended | | | |
| WFC 160** | Animal Coloration | BIS 2A-C | II | 3 | |
| | | | | | |
| WFC 156 ^{††} | Plant Geography | EVE 101 or ESP 100 or equivalent; | | 4 | |
| | | PLB 102 or 108 strongly recommended | | | |
| WFC 157 ^{††} | Coastal Ecosystems | EVE 101, ESP 100 or equiv; course work in | | 4 | |
| - | • | organismal bio, phys geography, & geology rec | | | |
| | General course (continued on next page) | | | | |
| Note: A course ca | annot be used to simultaneously satisfy two area | of specialization requirements. | | | |
| ABT/LDA 150 | Introduction to Geographic Info Systems | PLS 21 or equivalent with consent of instructor | I | 4 | |

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session *Course is offered in odd years only (2013, 2015, etc.)

**Course is offered in even years only (2012, 2014, etc.)

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

††Future availability unknown

| ANS 103 | Animal Welfare | ANS 104 or NPB 102 or the equivalent or consent of instructor | I | 4 | |
|-----------------------|--|--|-----|---|--|
| ANS 104 | Principles of Domestic Animal Behavior | BIS 2A or 2B or equivalent | II | 4 | |
| ANS 170 | Ethics of Animal Use | Any basic course in composition or speech | III | 4 | |
| ENH 160 | Restoration Ecology | PLB 117, EVE 121, PLB 147, or equiv. | III | 3 | |
| ENT 156 | Biology of Parasitism | BIS 2A or consent of instructor | III | 3 | |
| ESP 121 | Population Ecology | BIS 2B-C; Math 16A-B | II | 4 | |
| EVE 115* | Marine Ecology | EVE 101, ESP 100, BIS 2A or consent of instructor | II | 4 | |
| ESP 127 ^{††} | Plant Conservation Biology | EVE 101 or ESP 100 or equivalent | II | 4 | |
| ESP 155 | Wetland Ecology | ESP 100 or PLB 117; ESP 110 or 151 recommended | I | 4 | |
| ESP 162 | Environmental Policy | ECN 1A | II | 4 | |
| ESP 166N* | Ocean and Coastal Policy | ESP 1 or consent of instructor | II | 3 | |
| ESP 161 | Environmental Law | 1 course in Environmental Science (ex: ESP 1, 10, 110, BIS 2A or ETX 10) | III | 4 | |
| ESP 171 | Urban and Regional Planning | ESP 1 & 1 course in Environmental Science and Social Science | III | 4 | |
| ESP 170* | Conservation Biology Policy | ESP 1; ECN 1A; | III | 4 | |
| ETX 101 | Principles of Environmental Toxicology | CHE 8B,118B, or 128B; BIS 2A | I | 4 | |
| EVE 107* | Animal Communication | BIS 2B; animal behavior course (NPB 102, PSY 101, ANS 104, ENT 104, or equivalent) ECN 100 or ARE 100A recommended | I | 4 | |
| EVE 147* | Biogeography | BIS 2B | 1 | 4 | |
| EVE 138* | Ecology of Tropical Latitudes | One course in BIS, ENT, WFC, GEO, tropical experience or consent of instructor | III | 5 | |
| PLS 130 ^{††} | Rangelands: Ecology Conservation, & Restoration | BIS 2C; introductory ecology course and junior standing recommended | II | 3 | |
| PLS 135 ^{††} | Ecology and Community Structure of | BIS 2A-C | II | 3 | |
| PLS 162 | Grassland and Savannah Herbivores Urban Ecology | A course in plant ecology | II | 3 | |

I = fall quarter, II = winter quarter, III = spring quarter, IV = summer session *Course is offered in odd years only (2013, 2015, etc.)

**Course is offered in even years only (2012, 2014, etc.)

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

††Future availability unknown

Fish Biology 2015-16

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 | |
| Choose one I | nvertebrates course | | | | |
| EVE 112/L** | 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 or the equivalent | III | 3 | |
| EVE 114 | Experimental Invertebrate Biology | Bodega Course. BIS 2A-C, upper division standing | IV | 3 | |
| Choose three | courses between Aquatic Systems and W | Vater Policy/Law courses, with at least one from each cate | egory | | |
| Aquatic Syste | ms 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** | Oceanography | GEL 1, 2, 16, or 50 | II | 3 | |
| ESP 150C | Biological Oceanography | BIS 2A; course in general ecology or consent of instructor | 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, physics, calc | IV | 3 | |
| ESP 155 | Wetland Ecology | ESP 100 or PLB 117 | 1 | 4 | - |
| EVE 115* | Marine Ecology | EVE 101, ESP 100, BIS 2A or consent of instructor | II | 4 | |
| HYD 143** | Hydrological Processes in Ecosystems | HYD 141 or ESM 100 | II | 3 | |
| WFC 144** | Marine Conservation Science | a course in ecology | II | 4 | |
| WFC 155/L ^{††} | Habitat Conservation & Restoration + Lab | EVE 101 or ESP 100 or equivalent; | II | 3/2 | |
| | | WFC 154 & ENH 160 recommended | | | |
| WFC 157 ^{††} | Coastal Ecosystems | EVE 101, ESP 100 or equiv; course work in | | 4 | |
| | | organismal bio, phys geography, & geology rec | | | |
| WFC 160** | Animal Coloration | BIS 2A-C | II | 3 | |
| Water Policy/ | Law course | | | | |
| HYD 150 | Water Law | ESM 100 or 121 or consent of instructor | II | 3 | |
| ESP 161 | Environmental Law | Upper division standing; one course in env. science | III | 4 | |
| | | (i.e.: ESP 1, 10, 110, BIS 2A, ETX 10, or ESM 100) | | | |
| 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 | |

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

^{*}Course is offered in odd years only (2013, 2015, etc.)

^{**}Course is offered in even years only (2012, 2014, etc.)

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

^{††}Future availability unknown

Wildlife Health 2015-16



| Required Courses | | Prerequisites | Qtr(s)*** | Units | Completed |
|-------------------------|--|--|----------------|-------|-----------|
| Complete Wi | Idlife Ecology | | | | |
| WFC 151 | Wildlife Ecology | BIS 2A-B | 1 | 4 | |
| Complete eit | her BIS 102/103 or ABI 102/103 | | | | |
| BIS 102 | Structure & Function of Biomolecules | BIS 2A; CHE 8B, 118B, or 128B | I, II, III, IV | 3 | |
| BIS 103 | Bioenergetics & Metabolism | BIS 102 | I, II, III, IV | 3 | |
| ABI 102 | Animal Biochemistry & Metabolism | CHE 2A-B; CHE 8A-B | 1 | 5 | |
| ABI 103 | Animal Biochemistry & Metabolism | ABI 102 | II | 5 | |
| Choose one | Wildlife course | | | | |
| Note: A course | cannot be used to simultaneously satisfy a depth a | and area of specialization requirement. | | | |
| WFC 110 | Biology & Conservation of Wild Mammals | BIS 2A-C; EVE 101 or ESP 100 or equivalent | III | 3 | |
| WFC 111 | Biology & Conservation of Wild Birds | BIS 2A-C; EVE 101 or ESP 100 or equivalent | 1 | 3 | |
| WFC 120 | Biology & Conservation of Fishes | BIS 2A-C | 1 | 3 | |
| WFC 134* | Herpetology | BIS 2A-C; EVE 101, ESP 100 or equivalent rec. | II | 3 | |
| WFC 136** | Ecology of Waterfowl & Game Birds | WFC 111, 111L, or equivalent, or consent of instructor | II | 3 | |
| WFC 141** | Behavioral Ecology | EVE 101 or ESP 100 or equivalent | II | 4 | |
| WFC 144** | Marine Conservation Science | a course in ecology | II | 4 | |
| WFC 152* | Ecology of Human-Wildlife Conflicts | BIS 2A-C or the equivalent | II | 3 | |
| WFC 155/L ^{††} | Habitat Conservation & Restoration | EVE 101 or ESP 100 or equivalent; | II | 3 | |
| | | WFC 154 & ENH 160 recommended | | | |
| | Habitat Conservation & Restoration: Lab | WFC 155 (may be concurrent) | II | 2 | |
| WFC 160** | Animal Coloration | BIS 2A-C | II | 3 | |
| Choose one | General courses | | | | |
| ANS 103 | Animal Welfare | ANS 104 or NPB 102 or the equivalent | 1 | 4 | |
| ANS 170 | Ethics of Animal Use | Any basic course in composition or speech | III | 4 | |
| NPB 101 | Systemic Physiology | BIS 2B; CHE 2B; PHY 1B or 7C strongly rec. | I, II, III, IV | 5 | |
| MCB 150 | Developmental Biology | BIS 101; MCB 150L concurrently | 1 | 4 | |
| MIC 104 | General Microbiology | BIS 101, 102, and 103 | 1 | 4 | |
| MIC 101 | Introductory Microbiology | BIS 2A and CHE 2B | I, II, III | 5 | |
| ANS 104 | Principles of Domestic Animal Behavior | BIS 2A or 2B or equivalent | II | 4 | |
| APC 100 | Comparative Organology of Vertebrates | BIS 2A-B | II | 4 | |
| NPB 140 | Principles of Environmental Physiology | NPB 101; BIS 102 recommended | II | 3 | |
| VME 158** | Infectious Diseases in | EVE 101 or ESP 100 or equivalent | II | 3 | |
| | Ecology & Conservation | | | | |

This AOS also recommends extra preparatory courses; pre-requisites for admission into Veterinary Medicine vary among schools and students should confirm the specific requirements of the schools to which they wish to apply. We recommend that the following additional courses be considered:

CHE 2C General Chemistry

CHE 118A-C Organic Chemistry for Health & Life Sciences Note: Some schools may accept CHE 8A-B; individual schools will vary

PHY 7A-C General Physics Note: some schools may accept PHY 1A-B; individual schools will vary

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^{*}Course is offered in odd years only (2013, 2015, etc.)

^{**}Course is offered in even years only (2012, 2014, etc.)

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

^{††}Future availability unknown