

ECAMPUS ZOOLOGY MAJOR ADVISING GUIDE 2022-23

for use with MyDegrees



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ADVISING INFORMATION

Advisor and Advising Appointments:

[You can view your advisor and make appointments here.](#) Students can meet for advising at any time, but use this table to determine when you **must** meet for advising:

Who	Must Meet
First year student, those using military benefits, athletes, honors college	Each term
Sophomores	Winter term
Juniors	Winter term
Transfer students	First term after transfer
Seniors	As needed to review for graduation

Other Contacts:

- **Department of Integrative Biology (IB) (where advisors are located):** Integrative Biology office, 4th Floor Snell, 541-737-2993, ib@oregonstate.edu
- **Ecampus Student Success Services**, 800-667-1465 (select option 1), ecampus.ess@oregonstate.edu, is open for registration help and other Ecampus student needs. **Science Success Center**, Kidder Hall 109, 541-737-3854, is also open for registration and other help. Email sciencesuccess@oregonstate.edu for a remote appointment.

Important Student Resources:

- **My Degrees**, available in your student online services, is used with this advising guide to plan your degree.
 - **My Degrees Checklist** lets you view your completed courses and remaining requirements for all declared programs (major, minor, etc.). View the [My Degrees Checklist tutorial](#) for details.
 - **My Degrees Planner** stores degree plans you share with your advisor. View the [Planner tutorial](#) for details.
- **Integrative Biology (IB) Website:** Student clubs, study abroad, internship, research and other engagement opportunities.
- **Integrative Biology (IB) Listserv:** Current students are auto-subscribed and receive departmental posts in their ONID email.

POLICIES & GUIDELINES:

- **GPA:** The Zoology major requires a 2.0 cumulative OSU and major GPA to graduate.
- **C- for Biology (BI), Math (MTH), and Chemistry (CH):** All students must receive a C- or better in BI 204, 205 and 206; the CH 12x series; and CH 331 to continue to courses that have these as prerequisites. Also, all math courses require a C- or higher in the previous math course in order to progress to the next one.
- **Double counting courses:** Courses from other majors, minors and Baccalaureate Core (Bacc. Core) courses may be counted for major requirements, unless a minor restricts sharing. No courses may be shared within the major or within Bacc. Core even though some are listed in multiple areas.
- **S/U and withdraw (W):** Zoology students cannot S/U major courses. All OSU students are only allowed 18 withdraws.
- **Restricted double or dual majors:** No combination of Biology, Biohealth Sciences, Fisheries and Wildlife Sciences, or Zoology majors is allowed.
- **Class Retakes:** OSU academic regulations often result in retakes not working how students expect. Tell your advisor if you are considering retaking a course you first completed at OSU or another school, or if you are repeating an OSU course for the third time. [Students should also review the retake information here.](#)

BACCALAUREATE CORE REQUIREMENTS:

The Baccalaureate Core (Bacc Core) Curriculum promotes understanding of interrelationships among disciplines in order to increase students' capacities as ethical world citizens. Writing I, Math, and Communications must be completed in the first 45 credits. Some of the courses overlap major requirements and count for both the major and Baccalaureate Core (see notes below).

Skills:

These courses build a foundation for success in other courses.

- **Fitness:** HHS 231 lecture & [HHS 241 or Physical Activity Course (PAC) course]
- **Math (1st year):** Major requires calculus courses. A C- or better is required in math course prerequisites. Once math is started based on placement, continue this sequence each term until completed MTH 065 → 103 → 111Z → 112Z → either [MTH 227 & 228] or [MTH 251 & 252]
- **Writing I (1st year):** WR 121Z
- **Writing II (2nd year):** Major requires WR 227Z (formerly 327) or 362. Must complete in first 90 credits (45 if transfer)
- **Speech (1st year):** Major requires COMM 111Z

Perspectives:

These build a broader understanding of our multifaceted world. No more than two courses from any one department may be used to satisfy the perspectives requirements. Each listing represents a category with many course choices.

- **Biological Science, Physical Science:** Major requires BI 204, 205, 206 and CH 121, 122, 123.
- **Cultural Diversity** (see list)
- **Literature and the Arts** (see list)
- **Social Processes and Institutions** (see list)
- **Western Culture** (see list)

Difference, Power and Discrimination:

These address intersections of human identity and experience with institutionalized systems of inequity and privilege in the US.

Synthesis Courses:

These facilitate synthesis of information and experience. As such, they are completed after the other categories above.

Courses used to fulfill the synthesis requirements may not be from the same department.

- **Contemporary Global Issues (CGI):** Taken junior/senior year, some count toward major requirements
- **Science, Technology, and Society (STS):** Taken junior/senior year, some count toward major requirements

ZOOLOGY FOUR YEAR PLANS:

These tracks outline ways to complete the degree within four years, averaging 15 credits a term. Tracks are determined by where students start in math (ALEKS placement or transfer credits). The math sequences for Corvallis Zoology students is MTH 065 → 103 → 111Z → 112Z → [MTH 251 & 252] or [MTH 227 & 228]. Courses are listed in order of priority based on prerequisites. Students taking fewer credits should focus on completing courses in earlier years before progressing toward the next year.

Math Placement	Track 1: Placed in MTH 103, 111Z, or 112Z	Track 2: MTH 227 or 251 placement
Year 1	<ul style="list-style-type: none"> Start MTH (103, 111Z or 112Z) Fall, continue each term BI 198 Winter, BI 298 (not yet offered) CH 121, 122, 123 Two or more Bacc Core courses a term Prioritize COMM 111Z & WR 121Z 	<ul style="list-style-type: none"> Start MTH (227 or 251) in Winter, continue each term BI 198 Winter, BI 298 (not yet offered) BI 204, 205, 206 CH 121, 122, 123 One Bacc Core a term: Prioritize COMM 111Z & WR 121Z
Year 2	<ul style="list-style-type: none"> BI 204, 205, 206 CH 331, 332 One Bacc Core course a term: Prioritize WR 227Z or 362. Finish MTH courses then fill with Bacc Core 	<ul style="list-style-type: none"> CH 331, 332 Finish MTH then ST 351, 352 One Bacc Core course a term: Prioritize WR 227Z or 362. One course a term from: Z 423, BI 370, BI 311, BI 445
Year 3	<ul style="list-style-type: none"> CH 390 ST 351, 352 Z 364, Z 374 Writing Intensive Course One Bacc Core course a term One course a term from: Z 423, BI 370, BI 311, BI 445 Complete courses not taken above then fill with major electives 	<ul style="list-style-type: none"> CH 390 Z 364, Z 374 Writing Intensive Course BB 314, BI 483 One Bacc Core course a term until finished Complete courses not taken above then fill with major electives
Year 4	<ul style="list-style-type: none"> BB 314, BI 483 Complete major course(s) not taken above Complete 180 credits, 60 upper division BI 498 Biology Major Field Test: take in last OSU term 	<ul style="list-style-type: none"> Complete major course(s) not taken above Complete 180 credits, 60 upper division BI 498 Biology Major Field Test: take in last OSU term

ZOOLOGY MAJOR REQUIREMENTS:

Unless noted, these courses reflect Ecampus offerings. Check the Schedule of Classes for offering at other campuses.

Zoology Core Courses:

Professional Development:

Course	Description	Term(s)	Pre-/co-requisites	Comments
BI 198	Professional Development: Biology and Zoology (1)	W	-	Required in 1 st year
BI 298	Professional Development for Biologists II (1)	Sp*	-	*Currently not offered

Math & Statistics:

Take either Calculus and Probability for Life Sci. (MTH 227 & MTH 228) -or- Calculus (MTH 251 & MTH 252)

Course	Description	Term(s)	Pre-/co-requisites	Comments
MTH 227	Calculus and Probability for Life Sci. I (4)	W, Sp	MTH 112Z (C-)	Complete MTH 227 & 228 as series
& MTH 228	Calculus and Probability for Life Sci. 2 (4)	F, Sp	MTH 227 (C-)	Complete MTH 227 & 228 as series
MTH 251	Calculus (4)	All	MTH 112 (C-)	Complete MTH 251 & 252 as series
& MTH 252	Calculus (4)	All	MTH 251 (C-)	Complete MTH 251 & 252 as series

Take ST 351 then ST 352

Course	Description	Term(s)	Pre-/co-requisites	Comments
ST 351	Introduction to Statistical Methods (4)	All	MTH 111Z	-
ST 352	Introduction to Statistical Methods II (4)	All	ST 351	-

General Chemistry:

Course	Description	Term(s)	Pre-/co-requisites	Comments
CH 121	General Chem. and Lab (4+1)	All	MTH 111Z*	*May be taken concurrently
CH 122	General Chem. and Lab (4+1)	All	CH 121 (C-)	-
CH 123	General Chem. and Lab (4+1)	All	CH 122 (C-)	-

Principles of Biology:

Course	Description	Term(s)	Pre-/co-requisites	Comments
BI 204	Principles of Biology	F, W	-	BI 204, 205, 206 in order
BI 205	Principles of Biology	W, Sp	CH 121 (C-)	BI 204, 205, 206 in order
BI 206	Principles of Biology	Sp, F	CH 121 (C-)	BI 204, 205, 206 in order

Organic and/or Environmental Chemistry:

Course	Description	Term(s)	Pre-/co-requisites	Comments
CH 331	Organic Chemistry (4)	F, W	CH 123 (C-)	-
CH 332	Organic Chemistry (4)	W, Sp	CH 331 (C-)	-
CH 390	Environmental Chemistry (3)	W, Sp	CH 331 (C-)	-

Upper Division Zoology Core:

Course	Description	Term(s)	Pre-/co-requisites	Comments
BI 370	Ecology (3)	All	BI 204, 205, 206 (C-)	-
BI 311	Genetics (4)	All	BI 204, 205, 206 (C-)	-
BB 314	Cell and Molecular Biology (4)	All	BI 204, 205, 206 (C-); CH 123	-
Z 364	Diversity of Life: Invertebrates (5)	F, W	BI 204, 205, 206 (C-)	-
Z 374	Diversity of Life: Vertebrates Biology (5)	W, Sp	BI 204, 205, 206 (C-)	-
Z 423	Environmental Physiology (3)	F, Sp	BI 204, 205, 206 (C-); CH 123 (C-)	-
BI 319	Critical Thinking & Comm. in Life Sci. (3)	F, W, Sp, Su*	BI 204, 205, 206 (C-); ST 351	Writing Intensive Course; *Su 24
BI 445	Evolution (3)	W, Sp	BI 311	-
BI 483	Population Biology (3)	F, Sp	(BI 311 or BI 370), (MTH 227 or 251), ST 352*	*May be taken concurrently

Zoology Electives:**Organismal/Physiology/Systematics (OPS):**

Take two of the following

Course	Description	Term(s)	Pre-/co-requisites	Comments
BOT 321	Plant Systematics (4)	F, Su	BI 204, 205, 206 (C-)	-
FW 302 <u>or</u> FW 311 <u>or</u> FW 315 <u>or</u> FW 317 <u>or</u>	Biol. & Conserv. of Marine Mammals (4) Ornithology (3) Ichthyology (3) Mammology (3)	All All All All	BI 204, 205, 206 (C-) BI 204, 205, 206 (C-) BI 204, 205, 206 (C-) BI 204, 205, 206 (C-)	- - - -
MB 480	General Parasitology (3)	F, Sp	BI 204, 205, 206 (C-)	-
Z 350	Animal Behavior (3)	F, Sp	BI 204, 205, 206 (C-)	-
Z 365	Biology of Insects (4)	Sp	BI 204, 205, 206 (C-)	-
Z 473	Herpetology (3)	F, Sp	BI 204, 205, 206 (C-)	-

Ecology/Evolution/Conservation (EEC):

Select two of the following

Course	Description	Term(s)	Pre-/co-requisites	Comments
BI 348	Human Ecology (3)	Sp	Sophomore +	-
BI 351	Marine Ecology (3)	F, W	BI 204, 205, 206 (C-)	-
BOT 341	Plant Ecology (4)	F, W, Sp	BI 20X (C-), BOT 321 recommended	-
FES 440 <u>or</u> FES/FW445	Wildland Fire Ecology (3) Ecological Restoration (3)	W, Sp All	BI 370; sophomore + BI 370	- -
FW 320 <u>or</u> FW 421 <u>or</u> FW 427 <u>or</u> FW 479	Introductory Population Dynamics (3) Aquatic Biological Invasions (4) Principles of Wildlife Diseases (4) Wetlands & Riparian Ecology (3)	All F, W, Sp W, Sp All	BI 370 BI 204, 205, 206 (C-); sophomore + BI 204, 205, 206 (C-) BI 204, 205, 206 (C-); sophomore+	- - - -
Z 349	Biodiversity: Causes, Conseq.& Conser (3)	Su, F, Sp	BI 204; sophomore +	-

Natural Resources/Management/Policy (NRMP) electives:

Select two of the following

Course	Description	Term(s)	Pre-/co-requisites	Comments
AEC 250 <u>or</u> AEC 253	Intro. Env. Economics & Policy (3) Env. Law, Policy & Econ. (4)	All All	-	- -
AEC 432	Environmental Law (4)	Sp	-	-
ANS 280	Companion Animal Management (3)	?*		*See catalog
BI 347	Oceans in Peril (3)	F	BI 204; sophomore +	-
BI 348	Human Ecology (3)	Sp	Sophomore +	Cannot also be counted above
FES 485	Consensus and Natural Resources (3)	All	Sophomore +	-
FOR 436	Wildland Fire Science & Management (4)	F, W	Sophomore +	-
FW 350	Endangered Spec, Society & Sustain (3)	All	Sophomore +	-
FW 451	Avian Conservation and Management (3)	F, W	FW 311	-
FW 458	Mammal Conservation & Management (4)	F, Sp	BI 370 and 2 upper-div biological sci.	-
FW 462	Ecosystem Services (3)	W, Sp	BI 370	-
PS 475	Environmental Politics and Policy (4)	F, Sp, Su	-	-
PS 477	International Environ. Politics & Policy (4)	W, Su	-	-
SOC 481	Society and Natural Resources (4)	All	Sophomore +	-
TRAL 352	Wilderness Management (3)	All	-	-

Upper Division Science Elective:

Complete Track I (Experiential Credits) or Track II (Skills Course).

Track I: Experiential – complete 3 credits of the following

Course	Description	Term	Pre-/co-requisites	Comments
BI 309	Teaching Practicum (Ecampus BI 20x series) (1-3)	F, W, Sp	Departmental approval	See online forms here
BI 410	Internship (1-3)	All	Departmental approval	See online forms here

Track II: Skills Course – select one course

Course	Description	Term	Pre-/co-requisites	Comments
BOT 440	Field Methods in Plant Ecology (4)	Sp, Su	BI 370, ST 351	-
CS 201	Intro to Computer Science I (4)	W, Su	MTH 112Z (C-)	-
FES 430	Forest as Classroom (4)	F, Sp	-	-
FW 255	Field Sampling of Fish and Wildlife (3)	All	-	-
GEOG 360	GIScience I: Geographic Info. Syst. & Theory (4)	F, W, Sp	MTH 112Z, ST 351	-
GEOG 452	Environmental Assessment (3)	F, W	-	-
RNG 353	Wildland Plant Identification (4)	F, Sp	-	-
RNG 441	Vegetation Monitoring and Analysis (4)	?*	BI 204, 205, 206 (C-)	*See catalog
TRAL 493	Environmental Interpretation (4)	F, W	-	-

BI 498 Biology Major Field Test:

[BI 498 Biology Major Field Test](#): Is offered all terms and must be completed in your final term.

Course	Description	Term(s)	Pre-/co-requisites	Comments
BI 498	Biology Major Field Test (0)	All	Required completion in your final term	-

GRADUATION REQUIREMENTS:

1. [BI 498 Biology Major Field Test](#): Is offered fall, winter, spring, and summer terms. It must be completed in your final term.
2. Complete all major courses and 180 total credits and 60 upper division credits (300-400 level). Note that Zoology major and Bacc Core courses alone do not total 180 credits
3. No more than 11 PAC or 15 ALS credits can be used to reach 180 required
4. Maintain a 2.0 average GPA for your degree AND major (tracked in My Degrees)