

ECAMPUS ZOOLOGY MAJOR ADVISING GUIDE 2024-25

for use with MyDegrees



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HOW AND WHY TO USE THIS GUIDE:

Welcome to Integrative Biology! The OSU Zoology Major Advising Guide is your primary resource for planning your academic program. It also includes other resources important to your success. **You will use it frequently so [bookmark the advising guides website](#) for future reference (the document is frequently updated online).**

This guide includes a list of all major requirements, course pre-requisites, and when courses are offered. This last point is particularly important because the online Catalog/Schedule of Classes only projects course offerings accurately to the next term and is not useful for planning a year (or years) ahead. Your major requirements are actively tracked in your MyDegrees checklist. But MyDegrees cannot tell you how and when to take what you have remaining. The information in this guide explains how to sequence your courses to complete your degree, and it is what you will use to plan out classes to discuss with your advisor.

STUDENT RESOURCES:

- **Integrative Biology Resources:**
 - **IB Advising Office**, 2403 Cordley Hall, 541-737-2993, IB.advising@oregonstate.edu (see advising details below)
 - **IB Ecampus Listserv:** You will be auto-subscribed and receive departmental updates in your OSU email.
 - **IB Website:** Information on careers, major and options, advising, experiential opportunities, and so much more!
- **Beaver Hub** allows you to make advising appointments and access numerous other student resources. Click on your Success Team in Beaver Hub to find your major (primary) advisor, and you should also review the appointment information below.
- **Ecampus Student Success Services**, 800-667-1465 (select option 1 and leave a message), 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.
- **Success Resources:**
 - [Ecampus Success Resources](#)
 - [OSU Academic Calendar](#) lists important quarter dates (OSU is on quarters) and deadlines.
 - [OSU Academic Regulations](#) outline the regulations and procedures for all OSU students.
 - [OSU Dean of Students website](#) lists a variety of other resources and services to support you.

ACADEMIC PLANNING AND ADVISING:

The **zoology major** includes core biological science, chemistry, math and statistics coursework that you complete along with the OSU Baccalaureate Core (general education). For those planning on four years, these courses are mostly completed in your first two years, though some will definitely be completed later. The electives portion of the zoology major includes choices to cater to your interests. These require you select one to two courses in each category of Organismal/Physiology/Systematics, Ecology/Evolution/Conservation, Natural Resources/Management/Policy and one Experiential Learning or Skills course. You will generally complete these electives in later years. A wide variety of [OSU minors](#) may also be beneficial in pursuing goals. [The learning outcomes for the zoology major can be found here.](#)

MyDegrees, available in your Beaver Hub is used with this **Zoology Major Advising Guide** to plan your degree requirements.

- **MyDegrees Checklist** lets you view your completed courses for all declared programs (major, minor). View the [MyDegrees Checklist tutorial](#).
- **The Zoology Major Advising Guide** (this document) lets you plan how to complete the requirements you have remaining in the MyDegrees Checklist.
- **MyDegrees Planner** is where you store degree plans you create to share with your advisor. View the [planner tutorial](#).

Your **advisor** is based on your major combined with your professional goals. [You can view advisor contact and appointment information here.](#) Students can meet for advising at any time, but use the table below to determine when you **must** meet for advising. Advisors will review the plans you create with your **Zoology Major Advising Guide** and save in your **MyDegrees Planner**. They will also assist you with integrating professional experiences while completing your degree requirements. [Read more about the advisor/advisee responsibilities here](#) , and check out the [advising FAQs](#) for answers to common advising questions.

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

ACADEMIC AND ADVISING POLICIES AND GUIDELINES:

- **Corvallis course access:** Ecampus students can freely take courses on the OSU Corvallis campus and at Hatfield Marine Science Center, but courses at the OSU Cascades campus are restricted to Cascades students. Discuss any questions or concerns with your advisor.
- **GPA:** The Zoology major requires a 2.0 cumulative OSU and major GPA to graduate.
- **Total credit requirements:** You must complete 60 upper division (300-400) and 180 total credits. The zoology major and Bacc. Core courses alone do not total 180 credits. No more than 11 PAC or 15 ALS credits can be used to reach 180 required credits. The credit total tracked in My Degrees includes in progress courses.
- **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 121, 122 and 123 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) grading:** Zoology students cannot S/U major courses. All OSU students are allowed 18 withdraws.
- **Class Retakes:** 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 this retake information.](#)
- **Restricted double or dual majors:** No combination of biology, biohealth sciences, fisheries and wildlife conservation sciences or zoology majors is allowed. Other majors are possible.
- **Chemistry Minor:** Contact your advisor for approval. CH 324 is often restricted by major until phase II of registration.




REGISTRATION INFORMATION:

Registration Date: The OSU Office of the Registrar assigns all students a registration date and time based on total accumulated credits. To find out when you can register, login to Beaver Hub and click on "View Priority Registration Status" once dates for the next term are posted (generally around the middle of the term proceeding the one you are registering for). [Priority registration](#) is divided into two phases. You can register for up to 16 credits in Phase I and [waitlisting of courses](#) becomes available in Phase II. If you need a registration PIN (see advising above), you will need to meet for advising before you register. Plan ahead for this!

Course Restrictions: Courses are often restricted to ensure student access and success, and you can view restrictions (campus, major, prerequisites, class standing, etc.) for course sections in the [OSU Academic Catalog](#) (Schedule of Classes). See the [registration issues and overrides section of the IB website](#) for guidance on how to resolve registration issues that may come up.

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. You can review course descriptions at these links: [BI courses](#), [Z courses](#) or [all courses](#).

	Track 1: Placed in MTH 103, 111Z, or 112Z	Track 2: MTH 227 or 251 placement
1 st Priority (year 1?) 	<ul style="list-style-type: none"> Start MTH (103, 111Z or 112Z) Fall, continue each term BI 196 Winter (formerly BI 198), BI 298 (Spring) 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 196 Winter (formerly BI 198), BI 298 (Spring) CH 121, 122, 123 BI 204, 205, 206 One Bacc Core a term: Prioritize COMM 111Z & WR 121Z
2 nd Priority (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: BI 370, BI 311, BI 445, Z 423
3 rd Priority (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: BI 370, BI 311, BI 445, Z 423 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
4 th Priority (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

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.** Math is a 1st term requirement and series is MTH 065 → 103 → 111Z → 112Z → either [MTH 227 & 228] or [MTH 251 & 252 until complete]. A C- or better is required in math course prerequisites.
- **Writing I (1st year): WR 121Z.** Required in 1st year.
- **Writing II (2nd year): Major requires WR 227Z or 362.** Must take in 2nd year (in first 45 credits as a transfer student).
- **Speech (1st year): Major requires COMM 111Z.** Required in 1st year.

BACCALAUREATE CORE REQUIREMENTS (continued):

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** (pick one from list)
- **Literature and the Arts** (pick one from list)
- **Social Processes and Institutions** (pick one from list)
- **Western Culture** (pick one from 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 MAJOR REQUIREMENTS:

Unless noted, these courses reflect Ecampus campus offerings. Check the OSU Schedule of Classes for other campus offerings. You can review course descriptions at these links: [BI courses](#), [Z courses](#) or [all courses](#).

Zoology Core Courses:

Professional Development:

Course	Description	Term(s)	Pre-requisites	Comments
BI 196	Professional Development: Zoology Careers (1)	W	-	Required in 1 st OSU year; was BI 198
BI 298	Professional Development for Biologists II (1)	Sp	-	Required in 1 st OSU year

Math & Statistics:

Math is an OSU first year requirement and is always started in the first term based on it being required for chemistry which in turn is required for biology. The math sequence is MTH 065 → 103 → 111Z → 112Z → then either Calculus and Probability for Life Sci. [MTH 227 & 228] or Calculus [MTH 251 & 252], both of which work for the vast majority of professional goals. Students strongly interested in mathematics or careers strongly tied to math may want to take MTH 251/252, but others generally take MTH 227/228.

Course	Description	Term(s)	Pre-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 112Z (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-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-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-requisites	Comments
BI 204	Introductory Biology (4)	F, W, Sp	-	
BI 205	Introductory Biology (4)	W, Sp	BI 204 (C-); CH 121 (C-)	
BI 206	Introductory Biology (4)	Sp, F	BI 204 (C-); CH 121 (C-)	

Organic and/or Environmental Chemistry:

Course	Description	Term(s)	Pre-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)	Sp, Su*	CH 331 (C-)	*Su offering moves to winter 25-26

Upper Division Zoology Core:

Course	Description	Term(s)	Pre-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; must complete writing I and II courses first	Writing Intensive Course Take WR 121 & WR 227Z or 362 first
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 courses.

Course	Description	Term(s)	Pre-requisites	Comments
BOT 321	Plant Systematics (4)	F, Su	BI 204, 205, 206 (C-)	-
FW 302 <u>or</u>	Biol. & Conserv. of Marine Mammals (4)	F, W, Sp	BI 204, 205, 206 (C-)	-
FW 311 <u>or</u>	Ornithology (3)	All	BI 204, 205, 206 (C-)	-
FW 315 <u>or</u>	Ichthyology (3)	All	BI 204, 205, 206 (C-)	-
FW 317 <u>or</u>	Mammalogy (3)	All	BI 204, 205, 206 (C-)	-
FW 331	Ecology of Marine & Estuarine Birds (4)	Sp, Su	BI 204, 205, 206 (C-)	-
MB 480	General Parasitology (3)	F	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 courses.

Course	Description	Term(s)	Pre-requisites	Comments
BI 347	Oceans in Peril (3)	F	BI 204; 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>	Wildland Fire Ecology (3)	W, Sp	BI 370; sophomore +	-
FES/FW445	Ecological Restoration (3)	All	BI 370	-
FW 320 <u>or</u>	Introductory Population Dynamics (3)	All	BI 370	-
FW 427 <u>or</u>	Principles of Wildlife Diseases (4)	All	BI 204, 205, 206 (C-)	-
FW 456 <u>or</u>	Freshwater Ecology and Conservation (5)	W, Sp	BI 370	-
FW 479	Wetlands & Riparian Ecology (3)	All	BI 204, 205, 206 (C-); sophomore+	-
Z 349	Biodiversity: Causes, Conseq. & Conser (3)	F, Sp, Su	BI 204; sophomore +	-

Natural Resources/Management/Policy (NRMP) electives:

Select two of the following courses.

Course	Description	Term(s)	Pre-requisites	Comments
AEC 250 <u>or</u>	Intro. Env. Economics & Policy (3)	All	-	-
AEC 253 <u>or</u>	Env. Law, Policy & Econ. (4)	All	-	-
AEC 432	Environmental Law (4)	Sp	-	-
FES 452 <u>or</u>	Biodiversity Conserv. Manag. Forests (3)	F, Sp	BI 370	-
FES 485	Consensus and Natural Resources (3)	All	Sophomore +	-
FOR 346	Topics in Wildland Fire (4)	W, Sp	Sophomore +	-
FW 350 <u>or</u>	Endangered Species, Soc. & Sustain. (3)	All	Sophomore +	-
FW 415 <u>or</u>	Fisheries and Wildlife Law and Policy (3)	F, W, Sp	-	-
FW 448 <u>or</u>	Herpetofauna Conservation and Mngt. (3)	F	Senior standing	-
FW 451 <u>or</u>	Avian Conservation and Mngt. (3)	F, W	FW 311	-
FW 458 <u>or</u>	Mammal Conservation and Mngt. (3)	F, Sp	BI 20x and 3 upper division courses	-
FW 462 <u>or</u>	Ecosystem Services (3)	W, Sp	BI 370	-
FW 464	Marine Conservation Biology (3)	Sp	BI 370	-
PS 475 <u>or</u>	Environmental Politics and Policy (4)	F, W, Su	-	-
PS 477	International Environ. Politics & Policy (4)	Sp, Su	-	-
RNG 341	International Environ. Politics & Policy (4)	F, W, Sp	BI 204, 205, 206 (C-)	-
SOC 481	Society and Natural Resources (4)	All	Sophomore +	-
TRAL 357	Parks and Protected Areas Management	W	Sophomore +	-

Experiential Learning or Skills Elective:

Complete Track I (Experiential Credits) or Track II (Skills Course). Experiential learning is not required and students must identify these opportunities and then apply for credit. More details can be found on the linked forms below.

Track I: Experiential – complete 3 credits of the following

Course	Description	Term	Pre-requisites	Comments
BI 309	Teaching Practicum (Ecampus BI 20x series) (1-3)	F, W, Sp	Department application and approval	See form here
BI 410	Internship (1-3)	All	Department application and approval	See form here

Track II: Skills Course – select one course

Course	Description	Term	Pre-requisites	Comments
BOT 440	Field Methods in Plant Ecology (4)	Sp, Su	BI 370, ST 351	-
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)	All	MTH 112Z, ST 351	-
GEOG 452	Environmental Assessment (3)	?*	-	*See catalog
RNG 353	Wildland Plant Identification (4)	F	-	-
TRAL 493	Environmental Interpretation (4)	F, W, Su	-	-

BI 498 Senior Assessment and Survey:

[BI 498 Senior Assessment and Survey](#) is a self-paced CANVAS course that must be completed in your final term.

Course	Description	Term(s)	Pre-requisites	Comments
BI 498	Senior Assessment and Survey (0)	All	Required registration in final OSU term	Self-paced course in final term