

CORVALLIS ZOOLOGY MAJOR ADVISING GUIDE 2023-24

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 this document frequently so [bookmark the advising guides website](#) for future reference (it 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 (IB) resources:**
 - **IB Advising Office**, 4th Floor Snell, 541-737-2993, IB.advising@oregonstate.edu (see advising details below)
 - **IB 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!
 - **IB Club and others:** Participate in the Integrative Biology Club (IBC) or 100s of other organizations.
 - **IB experiential learning opportunities:** Explore a wide range of opportunities in research, internships, biological collections work, undergraduate teaching and study abroad.
- **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.
- **Academic Success Resources:**
 - **Science Success Center**, Kidder Hall 109, 541-737-3854, is open for registration and other assistance.
 - **Academic Success Center** resources including individual academic coaching and numerous other resources.
 - **Science tutoring centers** and **Supplemental Instruction Tables** for tutoring in a variety of introductory courses.
 - **OSU Academic Regulations** outline the regulations and procedures for all OSU students.
 - **OSU Academic Calendar** lists important quarter dates (OSU is on quarters, not semesters) and deadlines such as the last day to add or drop a course, last day to withdraw, registration dates and more.
- **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 generally complete along with the OSU Baccalaureate Core (general education). These are mostly completed in your first two years, though some will definitely carry in to the third year. 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 junior and senior year. 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 **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:

- **Ecampus course access:** Though major courses are available via Ecampus, they may have restricted access and be unavailable to Corvallis students.
- **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 221, 222 and 223; the CH 23x/26x 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 only 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 each term based on total credits. Registration dates for the next term are posted around week 5 of the proceeding term (e.g. Winter term registration dates are released week 5 of fall term). To find out when you can register, login to Beaver Hub and click on "View Priority Registration Status" in week 5 the term before ([detailed instructions here](#)). [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 can 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 OSU biology students is MTH 065 → 103 → 111Z → 112Z → either [MTH 227 & 228] or [MTH 251 & 252]. Courses are listed in order of priority based on prerequisites. Students taking fewer credits should focus on completing courses in earlier areas (higher priority) before considering the next area.

	Track 1: Placed in MTH 103, 111Z, or 112Z	Track 2: MTH 227 or 251 placement
1st Priority (year one?) 	<ul style="list-style-type: none"> Start MTH (103, 111Z or 112Z) Fall, continue each term BI 198 Fall, BI 298 Spring CH 231 & 261, 232 & 262, 233 & 263 (OR 121x) Two or more Bacc. Core courses a term: Prioritize COMM 111Z and WR 121Z 	<ul style="list-style-type: none"> Start MTH (227 or 251) in Winter, continue each term BI 198 Fall, BI 298 Spring CH 231&261, 232&262, 233&263 (OR 121x) BI 221, 222, 223 One Bacc. Core course a term: Prioritize COMM 111Z and WR 121Z
2nd Priority (year two?) 	<ul style="list-style-type: none"> BI 221, 222, 223 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
3rd Priority (year three?) 	<ul style="list-style-type: none"> CH 337 or 390 ST 351, 352 Z 371, 372 (Z 361 and 362) OR Z 461 (summer Hatfield only) Writing Intensive Course One Bacc. Core course a term until finished 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 337 or 390 Z 371, 372 (Z 361 and 362) OR Z 461 (summer only) Writing Intensive Course BB 314 and BI 483 One Bacc. Core course a term until finished Complete courses not taken above then fill with major electives
4th Priority (year four?)	<ul style="list-style-type: none"> BB 314 and BI 483 Complete major course(s) not taken above Complete 180 credits, 60 upper division BI 498 Major Field Test: take in final OSU term 	<ul style="list-style-type: none"> Complete major course(s) not taken above Complete 180 credits, 60 upper division BI 498 Major Field Test: take in final 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. 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).** Registration is by last name with A-G Fall, H-N Winter, O-Z Spring.
- Writing II (2nd year):** Major requires WR 227Z (formerly WR 327) or 362. Must complete in first 90 credits (45 if transfer).
- Speech (1st year):** Major requires COMM 111Z.

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 221, 222, 223 and CH 231/261, 232/262, 233/263.
- **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 Corvallis campus offerings. Check the OSU Schedule of Classes for other campus offerings.

Zoology Core Courses:

Professional Development:

Course	Description	Term(s)	Pre-requisites	Comments
BI 198	Professional Development: Biology and Zoology (1)	F	-	Required in 1 st year
BI 298	Professional Development for Biologists II (1)	SP	-	Required in 1 st year

Math & Statistics:

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 231 & 261	General Chem. and Lab (4+1)	F, W, Su*	MTH 111Z*	*May be taken concurrently; CH 231 is Ecampus only in summer
CH 232 & 262	General Chem. and Lab (4+1)	W, Sp, Su*	CH 231/261 (C-)	*CH 231 is Ecampus only in summer
CH 233 & 263	General Chem. and Lab (4+1)	F, Sp, Su*	CH 232/262 (C-)	*CH 231 is Ecampus only in summer

Principles of Biology:

Course	Description	Term(s)	Pre-requisites	Comments
BI 221	Principles of Biology: Cells (4)	F, Su	CH 121 or CH 231/261*	*May be taken concurrently
BI 222	Principles of Biology: Organisms (4)	W, Su	BI 221 (C-); CH 121* or CH 231/261* (C-)	*May be taken concurrently
BI 223	Principles of Biology: Populations (4)	Sp, Su	BI 221 (C-); CH 121 or CH 231/261 (C-)	-

Zoology Core Courses (continued):

Organic and/or Environmental Chemistry:

Take CH 331 & CH 332. Then, choose CH 337 or CH 390

Course	Description	Term(s)	Pre-requisites	Comments
CH 331	Organic Chemistry (4)	F, W, Su	CH 233/263 or 123 (C-)	-
CH 332	Organic Chemistry (4)	W, Sp, Su	CH 331 (C-)	-
CH 337 <u>or</u>	Organic Chemistry Lab (4)	F, Sp	CH 332 (C-)	-
CH 390	Environmental Chemistry (3)	W*, Sp*	CH 331 (C-)	*Ecampus only

Upper Division Zoology Core:

Choose either (Z 361&362) or Z 461.

Course	Description	Term(s)	Pre-requisites	Comments
BI 370	Ecology (3)	F, W, Sp	BI 221, 222, 223 (C-)	-
BI 311	Genetics (4)	F, W, Sp	BI 221, 222, 223 (C-)	-
BB 314	Cell and Molecular Biology (4)	All	BI 221, 222, 223 (C-); CH 233/263 (C-)	
Z 361 & 362 <u>or</u>	Invertebrate Biology & Lab (3 + 2)	Sp	BI 221, 222, 223 (C-)	Z 361 and 362 should be taken together in the same term
Z461	Marine & Estuarine Invertebrates (4)	Su*	BI 221, 222, 223 (C-)	*Hatfield campus only
Z 371 & 372	Vertebrate Biology & Lab (3)	F	BI 221, 222, 223 (C-)	Z 371 and 372 should be taken together in the same term
Z 423	Environmental Physiology	F	BI 221, 222, 223 (C-), CH 233/263 or 123	-
BI 445	Evolution (3)	F, W, Sp	BI 311	-
BI 483	Population Biology (3)	W	(BI 311 or BI 370), (MTH 227 or 251), ST 352*	*May be taken concurrently

Writing Intensive Course (WIC):

Take one of the following courses.

Course	Description	Term(s)	Pre-requisites	Comments
BI 319	Critical Thinking & Comm. Life Sci. (3)	F, W, Sp	BI 221, 222, 223 (C-), ST 351	-
BI 371	Ecological Methods (3)	Sp	BI 370	-
BI 373	Field Methods in Marine Ecology (3)	Sp	BI 370 or BI 351	-

Zoology Electives:

Organismal/Physiology/Systematics (OPS) electives:

Take two of the following courses.

Course	Description	Term(s)	Pre-requisites	Comments
BI 358	Symbiosis & the Environment (3)	W*	BI 22X, CH 233/263 or 123 (C-)	*Alternate even years
BI 485	Monster Biology (3)	W	BI 311*, BI 370*, junior +	*May be taken concurrently
BOT 321	Plant Systematics (4)	Sp	BI 221, 222, 223 (C-)	-
FW 302 <u>or</u>	Biol. & Conserv. of Marine Mammals (4)	Su*	BI 221, 222, 223 (C-)	*Hatfield only
FW 311 <u>or</u>	Ornithology (3)	Sp	BI 221, 222, 223 (C-)	
FW 315 <u>or</u>	Ichthyology (3)	F	BI 221, 222, 223 (C-)	
FW 317 <u>or</u>	Mammalogy (3)	W	BI 221, 222, 223 (C-)	
FW 331	Ecology of Marine & Estuarine Birds (4)	Su*	BI 221, 222, 223 (C-)	* Hatfield only
MB 480	General Parasitology (3)	W	BI 221, 222, 223 (C-)	-
Z 350	Animal Behavior (3)	W, Sp	BI 221, 222, 223 (C-)	-
Z 365	Biology of Insects (4)	Sp*	BI 221, 222, 223 (C-)	*Ecampus only
Z 422	Comparative/Functional Vert. Anat. (5)	F	BI 221, 222, 223 (C-), CH 332*	*May be taken concurrently
Z 425	Embryology and Development (5)	F	BI 311 and BB 314	
Z 431	Vertebrate Physiology I (3)	W	BI 221, 222, 223 (C-), CH 332*	*May be taken concurrently
Z 438	Behavioral Neurobiology (3)	Sp	BI 22X (C-), CH 233/263 or 123 (C-)	-
Z 473	Herpetology (3)	F*, Sp*	BI 221, 222, 223 (C-)	*Ecampus only
Z 477	Aquatic Entomology (4)	W*	BI 221, 222, 223 (C-)	*Alternate odd years

Ecology/Evolution/Conservation (EEC) electives:

Take two of the following courses.

Course	Description	Term(s)	Pre-requisites	Comments
BI 301 <u>or</u> BI 348	Human Impacts on Ecosystems (3) Human Ecology (3)	W Sp*	BI 22X or CH 23x; sophomore + Sophomore +	*Ecampus only
BI 351	Marine Ecology (3)	W	BI 221, 222, 223 (C-)	
BI 353	Pacific Northwest Coastal Ecosystems (4)	Su*	BI 221, 222, 223 (C-)	*Hatfield only
BI 375	Field Methods in Ecological Restoration (3)	Su*	BI 221, 222, 223 (C-)	*Cascades (Bend) campus only
BI 427	Paleobiology (4)	Sp	BI 221, 222, 223 (C-)	Not offered 2022
BI 481	Biogeography (3)	W*	BI 370	*Alternate odd years
BI 495	Disease Ecology (3)	W*	BI 370 (C-)	*Alternate even years
BOT 341	Plant Ecology (4)	Sp	BI 22X (C-), BOT321 recommended	-
FES 440 <u>or</u> FES/FW445	Wildland Fire Ecology (3) Ecological Restoration (3)	W SP	BI 370 BI 370	- *See catalog
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)	W W?* ?* ?*	BI 370 BI 221, 222, 223 (C-) BI 221, 222, 223 (C-) BI 221, 222, 223 (C-)	- *See catalog; Ecampus only *See catalog; Ecampus only *See catalog; Ecampus only
Z 349	Biodiversity: Causes, Conseq. & Conser (3)	F, W	BI 221; 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> AEC 253	Environmental Economics & Policy (3) Env. Law, Policy & Econ. (4)	Sp W	-	*See catalog; Ecampus only -
AEC 432	Environmental Law (4)	Sp	-	-
ANS 280	Companion Animal Management (4)	Sp	-	-
BI 347	Oceans in Peril (3)	W	BI 150 or 221; sophomore +	-
BI 301 <u>or</u> BI 348	Human Impacts on Ecosystems (3) Human Ecology (3)	W Sp*	BI 22X or CH 23x; sophomore + Sophomore +	Cannot also be used above *Ecampus only; cannot also be counted above
FES 412	Forest Entomology (3)	Sp	BI 221, 222, 223 (C-)	
FES/FW 452	Biodiversity Conservation in Managed Forests (3)	W	BI 370	-
FES 485	Consensus and Natural Resources (3)	F, W		-
FOR 436	Wildland Fire Science & Management (4)	F		-
FOR 461	Forest Policy Analysis (3)	Sp		-
FW 350	Endangered Species, Society & Sustainability (3)	F	Sophomore +	-
FW 451	Avian Conservation and Management (3)	*	FW 311	*See catalog; Ecampus only
FW 458	Mammal Conservation & Manag. (4)	Sp	BI 22x and 3 upper division courses	-
FW 462	Ecosystem Services (3)	?*	BI 370	*See catalog; Ecampus only
PS 475	Environmental Politics and Policy (4)	*	-	*See catalog; Ecampus only
PS 477	Intern. Environ. Politics & Policy (4)	W	-	
SOC 481	Society and Natural Resources (4)	All*	Sophomore +	*See catalog; Ecampus only
TRAL352 <u>or</u> TRAL 357	Wilderness Management (3) Parks & Protected Areas Manage. (3)	Sp* F	- Sophomore +	*Ecampus only; no longer offered after spring 2024

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 any combination of 3 credits of the following.

Course	Description	Term	Pre-requisites	Comments
BI 309	Teaching Practicum (1-3)	All	Department application and approval	See form here
BI 401	Research & Scholarship (1-3)	All	Department application and approval	See form here
BI 406	Projects: Curatorial Assistant (1-3)	All	Department application and approval	See form here
BI 409	Advanced Teaching Practicum (1-3)	All	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
ANS 435	Applied Animal Behavior (3)	F*	Z 350	*Offered alternate even years
BI 375	Field Methods in Ecol. Restoration (4)	Su*	BI 221, 222, 223 (C-)	* Cascades (Bend) only; compressed summer course
BOT 425	Flora of the Pacific Northwest (3)	Sp	BOT 321 recommended	-
BOT 440	Field Methods in Plant Ecology (4)	Sp, Su*	BI 370, ST 351	*Ecampus only
CS 201	Computer Program. for Non CS Majors (3)	F	-	-
FES 430	Forest as Classroom (4)	F, Sp*	-	*Ecampus only
FW 255	Field Sampling of Fish and Wildlife (3)	F, Sp	-	-
FW 430	Intro to Scientific Diving (4)	Sp	Requires rescue diver certifications	*See catalog
FW 498	Aquaculture Laboratory (3)	Su*	-	* Hatfield only
GEOG 360	GIScience I: Geographic Info. Syst. & Theory (4)	F, W, Sp	MH 112Z, ST 351	-
GEOG 452	Environmental Assessment (3)	Sp	-	-
GEOG 453	Effective Comm. Environm. Change Science (3)	F	-	-
LEAD 430	Foundations of Adventure Leadership	F, W	-	-
NR 325	Sci. Methods Analyzing Nat. Res. Problems (3)	F	-	*See catalog, Ecampus only
RNG 353	Wildland Plant Identification (4)	Sp	-	-
RNG 441	Vegetation Monitoring and Analysis (4)	F	BI 221, 222, 223 (C-)	-
TRAL 493	Environmental Interpretation (4)	Sp	-	-

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	Biology Major Field Test (0)	All	Required completion in final term	-