

## Biology and Wildlife

902 N. Koyukuk Dr., 211 Irving I  
P.O. Box 756100, Fairbanks, Alaska 99775-6100  
(907) 474-7671, fax (907) 474-6716

### Biological Sciences BS\* (no concentration\*\*)

<span style="display: inline-block; width: 20px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> Required by major	<span style="display: inline-block; width: 20px; height: 10px; background-color: #d9ead3; border: 1px solid black;"></span> Elective biology course
<span style="display: inline-block; width: 20px; height: 10px; background-color: #fce4d6; border: 1px solid black;"></span> Required by core or BS degree	<span style="display: inline-block; width: 20px; height: 10px; background-color: #fff2cc; border: 1px solid black;"></span> Open elective

	Fall	Spring
Year 1	<div style="background-color: #d9ead3; padding: 2px;">BIOL 115X, Fund Biol I</div> <div style="background-color: #d9ead3; padding: 2px;">CHEM 105X, Gen Chem I</div> <div style="background-color: #fce4d6; padding: 2px;">ENGL 111X, Intro Writing</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div> <div style="background-color: #fff2cc; padding: 2px;">Freshman seminar</div>	<div style="background-color: #d9ead3; padding: 2px;">BIOL 116X, Fund Biol II</div> <div style="background-color: #d9ead3; padding: 2px;">CHEM 106X, Gen Chem II</div> <div style="background-color: #fce4d6; padding: 2px;">MATH 200X, Calculus</div> <div style="background-color: #fce4d6; padding: 2px;">COMM 131/141X, Oral Comm</div> <div style="background-color: #fce4d6; padding: 2px;">LS 101X, Library Sci</div>
Year 2	<div style="background-color: #d9ead3; padding: 2px;">BIOL 260, Prin Genetics</div> <div style="background-color: #d9ead3; padding: 2px;">PHYS 103X, College Physics</div> <div style="background-color: #d9ead3; padding: 2px;">BIOL 371, Prin Ecology</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div>	<div style="background-color: #d9ead3; padding: 2px;">BIOL 360, Cell &amp; Molec Biol</div> <div style="background-color: #d9ead3; padding: 2px;">PHYS 104X, College Physics</div> <div style="background-color: #fce4d6; padding: 2px;">ENGL 211/213X, Acad Writing</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div>
Year 3	<div style="background-color: #d9ead3; padding: 2px;">CHEM 321, Org Chem I</div> <div style="background-color: #d9ead3; padding: 2px;">STAT 200X/300X, Statistics</div> <div style="background-color: #d9ead3; padding: 2px;">Biology Elective</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div>	<div style="background-color: #d9ead3; padding: 2px;">Physiology course from list</div> <div style="background-color: #d9ead3; padding: 2px;">CHEM 322/451, OC II/Biochem</div> <div style="background-color: #d9ead3; padding: 2px;">Biology Elective</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div>
Year 4	<div style="background-color: #d9ead3; padding: 2px;">Biology Capstone from list, W</div> <div style="background-color: #d9ead3; padding: 2px;">Biology Elective</div> <div style="background-color: #fce4d6; padding: 2px;">Core</div> <div style="background-color: #fff2cc; padding: 2px;">Open Elective</div>	<div style="background-color: #d9ead3; padding: 2px;">BIOL 481, Prin Evolution</div> <div style="background-color: #d9ead3; padding: 2px;">Biology Elective</div> <div style="background-color: #fff2cc; padding: 2px;">Open Elective</div> <div style="background-color: #fff2cc; padding: 2px;">Open elective</div>

\* 120 credits with 39 upper division credits to graduate; 2 W and 1 O course

\*\*The BS degree with concentration requires the same number of biology courses as without concentration



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### Biological Sciences BA\*

<span style="display:inline-block; width:15px; height:10px; background-color:#d9ead3; border:1px solid black;"></span> Required by major	<span style="display:inline-block; width:15px; height:10px; background-color:#cce5ff; border:1px solid black;"></span> Elective biology	<span style="display:inline-block; width:15px; height:10px; background-color:#d9d2e9; border:1px solid black;"></span> Social Sci or Humanities
<span style="display:inline-block; width:15px; height:10px; background-color:#fce4d6; border:1px solid black;"></span> Required core course	<span style="display:inline-block; width:15px; height:10px; background-color:#fff2cc; border:1px solid black;"></span> Open elective	<span style="display:inline-block; width:15px; height:10px; background-color:#d9ead3; border:1px solid black;"></span> Course for minor

	Fall	Spring
Year 1	<div style="background-color:#d9ead3; padding:2px;">BIOL 115X, Fund Biol I</div> <div style="background-color:#d9ead3; padding:2px;">CHEM 105X, Gen Chem I</div> <div style="background-color:#fce4d6; padding:2px;">ENGL 111X, Intro Writing</div> <div style="background-color:#fce4d6; padding:2px;">Core</div> <div style="background-color:#fff2cc; padding:2px;">Freshman seminar</div>	<div style="background-color:#d9ead3; padding:2px;">BIOL 116X, Fund Biol II</div> <div style="background-color:#d9ead3; padding:2px;">CHEM 106X, Gen Chem II</div> <div style="background-color:#fce4d6; padding:2px;">Math course</div> <div style="background-color:#fce4d6; padding:2px;">COMM 131/141X, Oral Comm</div> <div style="background-color:#fce4d6; padding:2px;">LS 101X, Library Sci</div>
Year 2	<div style="background-color:#d9ead3; padding:2px;">BIOL 260, Prin Genetics</div> <div style="background-color:#d9ead3; padding:2px;">PHYS 103X, College Physics</div> <div style="background-color:#fce4d6; padding:2px;">ENGL 211/213X, Acad Writing</div> <div style="background-color:#fce4d6; padding:2px;">Core</div>	<div style="background-color:#d9ead3; padding:2px;">Cell, Physiol (pr Ecol in fall)</div> <div style="background-color:#d9ead3; padding:2px;">STAT 200X, Statistics</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div> <div style="background-color:#fce4d6; padding:2px;">Core</div>
Year 3	<div style="background-color:#d9ead3; padding:2px;">CHEM 321, Org Chem I</div> <div style="background-color:#cce5ff; padding:2px;">Biology Elective</div> <div style="background-color:#d9ead3; padding:2px;">Minor</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div> <div style="background-color:#fce4d6; padding:2px;">Core</div>	<div style="background-color:#cce5ff; padding:2px;">Biology Elective</div> <div style="background-color:#d9ead3; padding:2px;">Minor</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div> <div style="background-color:#fce4d6; padding:2px;">Core</div>
Year 4	<div style="background-color:#cce5ff; padding:2px;">Biology Capstone from list, W</div> <div style="background-color:#d9ead3; padding:2px;">Minor</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div> <div style="background-color:#fce4d6; padding:2px;">Core</div>	<div style="background-color:#d9ead3; padding:2px;">BIOL 481, Prin Evolution</div> <div style="background-color:#d9ead3; padding:2px;">Minor</div> <div style="background-color:#d9ead3; padding:2px;">Minor</div> <div style="background-color:#d9d2e9; padding:2px;">Social Sci / Humanities</div>

\* 120 credits with 39 upper division credits to graduate; 2 W and 1 O courses, capstone project required



## Biology and Wildlife

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### Wildlife Biology & Conservation BS

- Required by major
- Required by core or BS degree

	Fall	Spring
Year 1	BIOL 115X, Fund Biol I	BIOL 116X, Fund Biol II
	CHEM 105X, Gen Chem I	CHEM 106X, Gen Chem II
	ENGL 111X, Intro Writing	COMM 131/141X, Oral Comm
	Core	MATH 200X, Calculus
	Wildlife 101, Surv Wlf Sci	LS 101X, Library Sci
Year 2	BIOL 310, An Physiology	BIOL 239, Intro Plant Biol
	BIOL 371, Prin Ecology	BIOL 260, Prin Genetics
	ENGL 211/213X, Acad Writing	WLF 301, Design Wlf Studies
	STAT 200X, Statistics	Core
Year 3	WLF 322W, Prin Tech Wlf Man	BIOL 317, Comp Anat Vert
	WLF 460 O/2, Wildlife Nutrition	STAT 401, Regression ANOVA
	PHYS 103X/GEOS 101X/NRM 380	ENGL 314/414, Tech/Res Writing
	NRM 204 or other, Nat Resourc	NRM 204 or other, Nat Resourc
	Core	Core
Year 4	BIOL 425W/WLF 421, Mammals	BIOL 226WO/2/WLF 425 Birds
	WLF 410, Populations Manag	BIOL 331/BIOL 488 Plant Syst
	Wlf, Biol, or NRM Elective	BIOL 471 Pop, or other option
	Core	Core





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### Biological Sciences MS degree requirements

- Complete 30 credits, at least 21 at the 600 level, including 6 – 12 thesis (BIOL 699) credits
- Pass a comprehensive written and oral exam
- Write and defend thesis

#### Note

- The set of required courses is individualized and designed in consultation with the student's graduate advisory committee.





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### **Biological Sciences PhD degree requirements**

- Pass a qualifying exam if enter the program with a bachelor's degree (those entering with a graduate degree are exempt)
- Complete a minimum of 18 thesis (BIOL 699) credits
- Pass a comprehensive written and oral exam
- Write and defend thesis

#### Note

- The set of required courses is individualized and designed in consultation with the student's graduate advisory committee.





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### Wildlife Biology & Conservation MS degree requirements

- Complete 30 credits, at least 21 at the 600 level, including 6 – 12 thesis (BIOL 699) credits
- Pass a comprehensive written and oral exam
- Write and defend thesis

#### Note

- The set of required courses is individualized and designed in consultation with the student's graduate advisory committee.

