

## BSc WILDLIFE AND FISHERIES CURRICULUM (For students following the 2019–2020 UNBC Calendar)

### FIRST YEAR COURSES

#### FALL

BIOL 103-3/123-1  
CHEM 100-3/120-1  
NREM 100-3  
PHYS 115-4 or PHYS 100-4

**15 credit hours**

#### WINTER

BIOL 104-3/124-1  
CHEM 101-3/121-1  
NREM 101-3  
NRES 100-3 or ENGL 170-3  
MATH 152-3 (F or W)

**17 credit hours**

**TOTAL 32 credit hours**

### SECOND YEAR COURSES

#### FALL

**\*SELECT 2 OF** BIOL 204-3 or GEOG 210-3  
BIOL 201-3  
FSTY 205-3  
NREM 204-3  
FSTY 207-1  
**\*\*FSTY 201-3 or BIOL 301-3**

**16 credit hours**

#### WINTER

or BIOL 202-3 or NREM 210-4  
CHEM 220-3  
BIOL 210-3  
STAT 240 -3 (F or W)  
\*Elective-3

**15–16 credit hours**

**TOTAL 31–32 credit hours**

### THIRD YEAR COURSES

#### FALL

BIOL 307-3  
BIOL 308-3  
\*NREM 303-3 (F) or NREM 306-3 (W)  
GEOG 300-3  
\*Elective-3

**15 credit hours**

#### WINTER

BIOL 302-3  
BIOL 315-3  
\*ENPL 305-3 or ENV5 414-3 or ENV5 326-3  
BIOL 325-3  
\*Elective-3

**15 credit hours**

**TOTAL 30 credit hours**

### FOURTH YEAR COURSES

#### FALL

BIOL 402-3 or BIOL 404-3  
BIOL 406-3  
BIOL 410-3  
BIOL 412-3  
**\*SELECT 1 OF** BIOL 409-3  
\*Elective-3

**15 credit hours**

#### WINTER

BIOL 411-3  
BIOL 413-3  
BIOL 414-3  
\*Elective-3  
or NREM 400-4 or NREM 410-3 or NREM 333-3

**15–16 credit hours**

**TOTAL 30–31 credit hours**

\* Students interested in TWS or AFS Professional Certification should consult [www.unbc.ca/wildlife-fisheries/professional-accreditation](http://www.unbc.ca/wildlife-fisheries/professional-accreditation) when choosing optional and elective courses.

\*\* Students electing to take Biol 301 in place of FSTY 201 should take an elective in Fall of second year.

123 required credit hours total (40 courses), which includes 15 credit hours of electives  
Revised July 2019

## Listing of Courses and Prerequisites for 2018–2019 BSc Wildlife and Fisheries Degree

Courses Required	Fall/Winter	Pre-requisites <sup>1</sup>
<b>BIOL 103-3</b> Introductory Biology I	F	Biology 11 or 12
<b>BIOL 123-1</b> Introductory Biology I Laboratory	F	BIOL 103 (may be taken concurrently)
<b>BIOL 104-3</b> Introductory Biology II	W	Biology 11 or 12, or BIOL 103 (recommended)
<b>BIOL 124-1</b> Introductory Biology II Laboratory	W	BIOL 104 (may be taken concurrently)
<b>CHEM 100-3</b> General Chemistry	F & S	Principles of Math 12 or Pre-calculus 12 or MATH 115 (may be taken concurrently)
<b>CHEM 120-1</b> Chemistry Lab I	F	CHEM 100 (may be taken concurrently)
<b>CHEM 101-3</b> General Chemistry II	W & S	CHEM 100 & Principles of Math 12 or Pre-calculus 12 or MATH 115
<b>CHEM 121-1</b> Chemistry Lab II	W	CHEM 120, CHEM 101 (may be taken concurrently)
<b>MATH 152-3</b> Calculus for Non-majors	F & W & S	Math 12 or Principles of Math 12 or Pre-calculus 12 or MATH 115
<b>NREM 100-3</b> Field Skills	F	NONE
<b>NREM 101-3</b> Intro to Natural Resource Management and Conservation	W	NONE
<b>NRES 100-3</b> or <b>ENGL 170-3</b>	W; F & W	NONE
<b>PHYS 115-4</b> General Intro to Physics or <b>PHYS 100-4</b> Intro to Physics	F F/W	<b>115:</b> NONE or <b>100:</b> Physics 12 or PHYS 115
<b>BIOL 201-3</b> Ecology	F	BIOL 102, or BIOL 104 and BIOL 124; AND Prerequisite or co-requisite: BIOL 101 or BIOL 103 and BIOL 123
<b>Select 2 of: BIOL 202-3, BIOL 204-3, NREM-210-4, GEOG 210-3</b>	F/W	202 & 204: Consult Calendar or Web Site; NREM 210 & GEOG 210: None
<b>BIOL 210-3</b> Genetics	W	BIOL 101 or BIOL 103 and BIOL 123; AND Prerequisite or Co-requisite: BIOL 102 or BIOL 104 and BIOL 124
<b>CHEM 220-3</b> Organic and Biochemistry	W	CHEM 101
<b>FSTY 201-3</b> Forest Plant Systems or <b>BIOL 301-3</b> Systematic Botany	F	<b>201:</b> BIOL 101, or BIOL 103 and BIOL 123; AND BIOL 102, or BIOL 104 and BIOL 124; AND Co-requisite: FSTY 205; <b>301:</b> BIOL 101 or BIOL 103 and BIOL 123; AND BIOL 102 or BIOL 104 and BIOL 124
<b>FSTY 205-3</b> Introduction to Soil Science	F	CHEM 100, CHEM 101, CHEM 120, CHEM 121
<b>FSTY 207-1</b> Terrestrial Ecological Classification	F	BIOL 101, or BIOL 103 and BIOL 123; AND BIOL 102, or BIOL 104 and BIOL 124
<b>STAT 240-3</b> Basic Statistics	F & W & S	None
<b>NREM 204-3</b> Introduction to Wildlife and Fisheries	F	BIOL 102, or BIOL 104 and BIOL 124; AND NREM 100
<b>BIOL 302-3</b> Limnology	W	BIOL 201
<b>BIOL 307-3</b> Ichthyology and Herpetology	F	BIOL 101 or BIOL 103 and BIOL 123; AND BIOL 102 or BIOL 104 and BIOL 124
<b>BIOL 308-3</b> Ornithology and Mammalogy	F	BIOL 101 or BIOL 103 and BIOL 123; AND BIOL 102 or BIOL 104 and BIOL 124
<b>BIOL 315-3</b> Animal Diseases and Parasites	W	BIOL 307 or BIOL 308
<b>BIOL 325-3</b> Ecological Analyses	W	BIOL 201 AND STAT 240
<b>ENPL 305-3</b> or <b>ENVS 326-3</b> or <b>ENVS 414-3</b>	W	<b>305:</b> 60 credit hours; <b>326:</b> none; <b>414:</b> 90 credit hours
<b>GEOG 300-3</b> Geographic Information Systems	F	30 credit hours
<b>NREM 303-3</b> or <b>NREM 306-3</b>	F ; W	<b>303:</b> 60 credit hours; <b>306:</b> Upper Division Standing
<b>BIOL 402-3</b> Aquatic Plants or <b>BIOL 404-3</b> Plant Ecology	F odd yr; F	<b>402:</b> BIOL 204; <b>404:</b> BIOL 201 or BIOL 204
<b>BIOL 406-3</b> Fish Ecology	F	BIOL 201 AND BIOL 307
<b>BIOL 410-3</b> Populations and Communities	F	BIOL 325
<b>BIOL 411-3</b> Conservation Biology	W	BIOL 201
<b>BIOL 412-3</b> Wildlife Ecology	F	BIOL 201 AND BIOL 308
<b>BIOL 413-3</b> Wildlife Management	W	BIOL 410 AND BIOL 412
<b>BIOL 414-3</b> Fish Management	W	BIOL 406
<b>BIOL 409-3</b> or <b>NREM 400-4</b> or <b>NREM 410-3</b> or <b>NREM 333-3</b>	W	<b>409:</b> BIOL 201-3 AND BIOL 411-3 (Pre or Co-requisite); <b>400:</b> 90 credit hours; <b>410:</b> GEOG 210-3; <b>333:</b> None
Subtotal: 108- 109 Elective requirement: minimum 15 credit hours to ensure completion of a minimum of 123 credit hours. <b>TOTAL: 123 CREDIT HOURS</b>		

<sup>1</sup> Please see the UNBC Undergraduate Calendar for details on pre-requisites/co-requisites.