

# Dual Degree in Forest Sciences and Education

The Dual Degree program in Forestry and Education offers qualified students the opportunity to earn a B.Sc. in Forest Sciences and B.Ed. in Secondary Education (Biological Sciences Specialization), in five winter sessions with some academic requirements in some of the Summer sessions. After completing all the requirements, students are normally eligible for a British Columbia Professional Teaching Certificate.

## Admission

Admission to the Dual Degree program requires application to the Forestry Student Services Office by the first week of February of second year with approval by April in order to undertake a teaching practicum at the end of second year.

Application for admission can be found online on the Faculty of Forestry website or at the Forestry Student Services Office. Students must receive approval from the Faculty of Forestry and the Faculty of Education. All students whose applications are successful will be admitted to the Faculty of Education beginning Summer Session, following Winter Session, Year 2. Continuation will require successful completion of both year two of the Forest Sciences and the in-school practicum in Summer following second year.

Admission at any time is conditional; maintenance of good academic standing and an average of at least 65% in each session are required throughout. In addition, students must participate in volunteer or work experience with youth aged 13-18 to meet the requirements of the Bachelor of Education program. Students must satisfy all of the degree and specialization requirements for both the Bachelor of Science in Forest Sciences and the Bachelor of Education Secondary program. Some individual courses may be considered to satisfy requirements for both degrees.

Students must communicate with an advisor in the Forestry Student Services Office or the Forest Sciences Program Director and the Teacher Education Office annually after admission to the program to discuss their progress.

# Degree Requirements

## First Year

Required Courses	Credits	Done	Notes
ENGL 100-level <sup>1</sup> or FRST 150	6	<input type="checkbox"/>	
BIOL 111 <sup>3</sup> , 121, and 140	8	<input type="checkbox"/>	
CHEM 121 (111) and 123	8	<input type="checkbox"/>	
MATH 100 and 101 <b>or</b> MATH 102 and MATH 103 <b>or</b> MATH 104 and 105 <sup>4</sup>	6	<input type="checkbox"/>	
CONS 101 or FRST 100 or FRST 110 <sup>2</sup>	3	<input type="checkbox"/>	
APBI 200	3	<input type="checkbox"/>	
<b>Total Credits</b>	<b>34</b>	<input type="checkbox"/>	
	<b>(35/37)</b>		

<sup>1</sup>ENGL 100 level courses: students in the dual degree should choose courses in both Literature and Composition.

<sup>2</sup>Only Land One students are eligible to take FRST 110.

<sup>3</sup>Students with Grade 11 or/and Grade 12 Biology do not need to take BIOL 111. Instead, students should take BIOL 112. Students with no high school biology are strongly encouraged to take BIOL 111 in Term 1 and BIOL 121 in Term 2.

<sup>4</sup>Students may take MATH 180, 184 (4 credits) or MATH 110 (6 credits) instead of MATH 100 or 102 (3 credits), but the credit difference cannot be applied towards program elective requirements. Please refer to "First Year Calculus Choices" on <https://www.math.ubc.ca/Ugrad/index.shtml> for more information.

## Second Year

Required Courses	Credits	Done	Notes
APBI 244 (or GEOS 204)	3	<input type="checkbox"/>	
BIOL 200	3	<input type="checkbox"/>	
BIOL 201	3	<input type="checkbox"/>	
CHEM 233 and 235	4	<input type="checkbox"/>	
FRST 200 and 210	6	<input type="checkbox"/>	
FRST 201 and 211	6	<input type="checkbox"/>	
FRST 231 (or BIOL 300)	3	<input type="checkbox"/>	
Elective <sup>5</sup>	3	<input type="checkbox"/>	
<b>Total Credits</b>	<b>31</b>	<input type="checkbox"/>	
EDUC 319	1	<input type="checkbox"/>	Second year summer
EDUC 440	3	<input type="checkbox"/>	Second year summer
<b>Total Credits (Second Year Summer)</b>	<b>4</b>	<input type="checkbox"/>	
FRST 350 or FRST 351 immediately preceding third year <sup>6,7</sup>	2	<input type="checkbox"/>	

<sup>5</sup>PHYS 100 is suggested for students who do not have credit for Physics 12.

<sup>6</sup>Credit will be given for only one of FRST 350 or FRST 351.

<sup>7</sup>Students will be assigned to the most appropriate course based on their levels of forestry and field experience as determined by the course instructors.

## Third and Fourth Years

Required Courses	Credits	Done	Notes
EDCP 352A	3	<input type="checkbox"/>	
EDST 401	3	<input type="checkbox"/>	
EPSE 308	3	<input type="checkbox"/>	
FRST 302	3	<input type="checkbox"/>	
FRST 307	3	<input type="checkbox"/>	
FRST 395	3	<input type="checkbox"/>	
FRST 399	3	<input type="checkbox"/>	
FRST 430	3	<input type="checkbox"/>	
FRST 495 or BIOL 416	3	<input type="checkbox"/>	
LLED 360	3	<input type="checkbox"/>	
Area of Concentration <sup>8</sup>	12	<input type="checkbox"/>	
Forestry Electives <sup>9</sup>	12	<input type="checkbox"/>	
<b>Total Credits</b>	<b>54</b>	<input type="checkbox"/>	
EDUC 399	1	<input type="checkbox"/>	Third year summer
LLED 361	3	<input type="checkbox"/>	Third year summer
<b>Total Credits (Third Year Summer)</b>	<b>4</b>	<input type="checkbox"/>	
EDST 403	1	<input type="checkbox"/>	Fourth year summer
EDST 404	1	<input type="checkbox"/>	Fourth year summer
EDCP 328 or 4XX	3	<input type="checkbox"/>	Fourth year summer
EPSE 317	3	<input type="checkbox"/>	Fourth year summer
<b>Total Credits (Fourth Year Summer)</b>	<b>8</b>	<input type="checkbox"/>	

<sup>8</sup> Students will choose 12 credits from one of the groupings above for their Area of Concentration. Substitutions may be allowed at the discretion of the Director of the Forest Sciences Program.

<sup>9</sup> All 300- and 400-level APBI, CONS, FRST and UFOR courses that are not specifically required for the program are eligible as Forestry electives as long as students have the necessary prerequisites.

### Concentration Courses - choose 12 credits from your concentration

Concentration Category	Course Choices
Plant Genetics/Genomics/Physiology	CONS 302; FRST 311, 413, 432; APBI 318; BIOL 335, 338, 352
Forest Ecology and Management	FRST 305, 310, 320, 385, 408; APBI 401, 402.
Biodiversity Conservation and Management	CONS 330, 481, 486, 495; FRST 386; APBI 416
International Forestry/Sustainability	FRST 411, 415, 439, 444; CONS 330, 425; WOOD 461
Geomatics/Mensuration	CONS 340; FRST 232, 239, 339, 443 (or GEOS 373), 490; GEOS 370, 479

## Fifth Years

Required Courses	Credits	Done	Notes
EDUC 315	2	<input type="checkbox"/>	
EDUC 421	12	<input type="checkbox"/>	
EDUC 430	1	<input type="checkbox"/>	
EDUC 450B	3	<input type="checkbox"/>	
EDUC 451	3	<input type="checkbox"/>	
EDUC 452B	3	<input type="checkbox"/>	
EPSE 310	2	<input type="checkbox"/>	
EPSE 311	1	<input type="checkbox"/>	
EDCP 354	3	<input type="checkbox"/>	
Total Credits	30	<input type="checkbox"/>	
Minimum Credits for Dual Degree	167	<input type="checkbox"/>	

# How to successfully complete first year:

1. You must follow your program closely – take the appropriate classes outlined for your degree. The most up-to-date program requirements are always listed on the UBC Calendar at [www.students.ubc.ca/calendar](http://www.students.ubc.ca/calendar) (click on 'Faculties, Colleges, and Schools' and then on 'Forestry').
2. You must pass at least 60% of the total number of credits attempted in both Terms 1 and 2 (summer classes are not included).
3. You must also obtain an average grade of at least 60% in both Terms 1 and 2, including any failed courses (summer classes are not included). If your average for Terms 1 and 2 is at least 55%, but less than 60%, you will be placed on academic probation and will be sent a letter outlining additional steps you must take in order to remain in your program. If you do not meet the criteria noted above, you will be asked to leave UBC for at least one year. Following this probationary period, you may re-apply to UBC but you must complete at least 12 credits at a college during your time away.

## Contacts:

### **Dr. Allan Carroll**

Program Director  
604-822-3360  
[allan.carroll@ubc.ca](mailto:allan.carroll@ubc.ca)  
FSC 3034

### **Forestry Student Services**

Advising Office  
604-822-1834  
[forestry.undergad@ubc.ca](mailto:forestry.undergad@ubc.ca)  
FSC 2609

### **Teacher Education Office**

**Bette Shippam**  
Program Coordinator  
[bette.shippam@ubc.ca](mailto:bette.shippam@ubc.ca)  
Scarfe 103

*The UBC Calendar is always the most up-to-date resource for degree requirements, <http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,203,0,0>.*