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en santé du Canada

FORM 202 - PART I

Application for an Undergraduate Student Research Award (USRA)

System-ID	671670995
Date	2025/2/12

Reference No. 683752			
Family name of student Heywood	Given name Jocelyn Rose	Initial(s) of all given names JR	Personal Identification no. (PIN)

ACADEMIC BACKGROUND (including ongoing postsecondary degree)				
Degree	Name of discipline	Institution	Department	Year and month of expected degree completion
Bachelor's	Evolution, ecology and conservation	Simon Fraser University	Biological Sciences	2025/06

At the time of application, you are attending a postsecondary institution?	Have you ever held a USRA or Experience Award (previously IUSRA) in the past?
<input checked="" type="checkbox"/> full time? <input type="checkbox"/> part time?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SCHOLARSHIPS AND OTHER AWARDS RECEIVED (start with most recent)		
Name of award	Location of tenure	Period held (yyyy/mm - yyyy/mm)

OTHER INFORMATION	
Citizenship <input checked="" type="checkbox"/> Canadian citizen <input type="checkbox"/> Permanent resident of Canada <input type="checkbox"/> Protected person Date of issue as stated on official immigration document	
Language of correspondence <input checked="" type="checkbox"/> English <input type="checkbox"/> French	Consent to sharing information for joint-funding opportunity (NSERC only) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Current address 1850 Grover Ave Coquitlam BC V3J3G6 CANADA	Permanent mailing address (if different from current address)
If current address is temporary, indicate leaving date	Telephone number at permanent mailing address
Telephone number at current address 778-686-4517	Email jocelynheywood10@gmail.com

Personal information collected on this form and appendices will be stored in the Personal Information Bank for the appropriate program.

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Unofficial Transcript

Student Name: Heywood, Jocelyn Rose
ID Number: 301393368
Birthdate: Dec 27

Date of Issue: January 29 2025

Credentials Awarded

Beginning of Undergraduate Record

Transfer Credits

Douglas College

Total Units: 54.00

2021 Fall

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
CHEM 282	Organic Chemistry II		2.00	2.00	B	6.00	B-	122
MBB 222	Molecular Biology and Biochem.		3.00	3.00	B-	8.01	B	214
PHYS 100	Introduction to Physics		3.00	3.00	B+	9.99	B-	276

Term Totals: 8.00 8.00 24.00
Cumulative Totals: 8.00 8.00 24.00
Term GPA: 3.00 Cumulative GPA: 3.00
Academic Standing: Good Academic Standing

2022 Spring

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
BISC 300	Evolution		3.00	3.00	B-	8.01	B-	43
MBB 231	Cellular Biology and Biochem.		3.00	3.00	B	9.00	B	174
PHYS 101	Physics for Life Sciences I		3.00	3.00	B+	9.99	B	254

Term Totals: 9.00 9.00 27.00
Cumulative Totals: 17.00 17.00 51.00
Term GPA: 3.00 Cumulative GPA: 3.00
Academic Standing: Good Academic Standing

2022 Fall

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
BISC 204	Intro to Ecology		3.00	3.00	A-	11.01	B	100
BISC 333	Developmental Bio.		3.00	3.00	B	9.00	B	75
PHYS 102	Physics for Life Sciences II		3.00	3.00	B	9.00	B	196

Term Totals: 9.00 9.00 29.01
Cumulative Totals: 26.00 80.00 80.01
Term GPA: 3.22 Cumulative GPA: 3.08
Academic Standing: Good Academic Standing



Student Name: Heywood, Jocelyn Rose
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2023 Spring

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
GSWS 102	Feminist Action		3.00	3.00	B+	9.99	B	222

Term Totals: 3.00 3.00 9.99
Cumulative Totals: 29.00 83.00 90.00
Term GPA: 3.33
Cumulative GPA: 3.10
Academic Standing: Good Academic Standing

2023 Fall

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
BISC 205	Principles of Physiology		3.00	3.00	B+	9.99	B	139
BISC 360W	Techniques in Ecol & Evo		3.00	3.00	A-	11.01	B+	34
BISC 420	Community Ecology		3.00	3.00	A-	11.01	B+	56
SPAN 100	Introductory Spanish I		3.00	3.00	A	12.00	A-	79

Term Totals: 12.00 12.00 44.01
Cumulative Totals: 41.00 95.00 134.01
Term GPA: 3.67
Cumulative GPA: 3.27
Academic Standing: Good Academic Standing
Honour Roll: Dean's Honour Roll

2024 Spring

Major in Biological Sciences, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
ARCH 301	Ancient Visual Art		3.00	3.00	B+	9.99	B	314
BISC 306	Invertebrate Biology		4.00	4.00	A-	14.68	B	63
BISC 309	Conservation Biology		3.00	3.00	A	12.00	A	50
BISC 337	Plant Biology		4.00	4.00	A-	14.68	B+	58
SPAN 110	Introductory Spanish II		3.00	3.00	B+	9.99	B	33

Term Totals: 17.00 17.00 61.34
Cumulative Totals: 58.00 112.00 195.35
Term GPA: 3.61
Cumulative GPA: 3.37
Academic Standing: Good Academic Standing
Honour Roll: Dean's Honour Roll



Student Name: Heywood, Jocelyn Rose
ID Number: 301393368
Birthdate: Dec 27

Date of Issue: January 29 2025

2024 Summer

Major in Biological Sciences- Concentration in Ecology, Evolution and Conservation, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
MASC 430	Marine Ecology		6.00	6.00	A+	25.98	-	3

Term Totals: 6.00 6.00 25.98
Cumulative Totals: 64.00 118.00 221.33
Term GPA: 4.33 Cumulative GPA: 3.46
Academic Standing: Good Academic Standing

2024 Fall

Major in Biological Sciences- Concentration in Ecology, Evolution and Conservation, Bachelor of Science

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
BISC 410	Behavioural Ecology		3.00	3.00	A	12.00	B+	60
BISC 474	Special Topics - EEC		3.00	3.00	A-	11.01	A-	15
Course Topic: ST-Current Iss.in Ecotoxicolog								
BISC 475	Special Topics Biology		3.00	3.00	A-	11.01	A-	36
Course Topic: ST-Marine Mammal Ecotoxicology								
BISC 498	Undergraduate Research I		3.00	3.00	A-	11.01	-	1
BISC 888	Directed Readings		1.00	1.00	A-	3.67	-	3
STAT 302	Experiment/Observational Data		3.00	3.00	B	9.00	B-	137

Term Totals: 16.00 16.00 57.70
Cumulative Totals: 80.00 134.00 279.03
Term GPA: 3.61 Cumulative GPA: 3.49
Academic Standing: Good Academic Standing
Honour Roll: Dean's Honour Roll

2025 Spring

Honours in Biological Sciences- Concentration in Ecology, Evolution and Conservation, Bachelor of Science (Honours)

Course	Description	Repeated	Units Attempted	Units Completed	Grade	Grade Points	Class Average	Class Enrollment
BISC 490	Research Design		5.00	0.00		0.00	-	1
BISC 491	Research Technique		5.00	0.00		0.00	-	3
BISC 492W	Research Reporting		5.00	0.00		0.00	-	2

Term Totals: 15.00 0.00 0.00
Cumulative Totals: 95.00 134.00 279.03
Term GPA: 0.00 Cumulative GPA: 3.49

End of Undergraduate Record

--- End of Transcript ---



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FORM 202 - PART II

Application for an Undergraduate Student Research Award

In accordance with the *Privacy Act*, this information will be accessible to the student. **Read the instructions before
you complete this application.**

System ID
671671148
Date
2025/02/12

Family name of student/Reference No. Heywood/683752	Given name Jocelyn Rose	Initial(s) of all given names JR
Name and title of proposed supervisor Côté, Isabelle / 110683 Professor		Email of proposed supervisor imcote@sfu.ca
Institution/Organization that will administer the award Simon Fraser University (NSERC,SSHRC,CIHR)		Department Biological Sciences (CRSNG,CRSH,IRSC)
Personal identification no. (PIN) (proposed supervisor) Valid 110683	Telephone 1-778-7823705	Proposed Start Date 2025/05/05

PROPOSED RESEARCH PROJECT	
Title of proposed research project Population trajectories of an invasive mudsnail in BC	Research subject code 4700

Outline of proposed research project

Invasive species typically attain exceedingly high densities in the habitats in which they are introduced. Given that the strength of impacts usually relate to abundance, understanding the determinants of population trajectories of invasive species is critical. In BC, the Japanese mud-snail *Batillaria attramentaria*, which is native to the northwestern Pacific Ocean, has become superabundant on some muddy shores since its introduction in the early part of the 20th century. However, its distribution remains patchy and its abundance is variable. To examine and understand the trajectories of population change of *Batillaria*, the student has already compiled all previous published and unpublished BC survey data. The aim of this study is to resurvey these 20+ sites, which range from Quadra Island to Sooke to the shores of Greater Vancouver, in the summer of 2025. The project will begin with an assessment of the interchangeability of the different methods used to survey *Batillaria* in the past. The student will then re-survey all sites that have previous density estimates as well as measure potential correlates of population increase, including beach features, mud characteristics and mud snail population size structure. By creating time-series that range in length from 2 to 12 years, this effort will produce the first robust estimates of population density change in *Batillaria*, an invader that is spreading across coastal British Columbia, as well as increase our ability to predict where *Batillaria* might become superabundant.

Outline of the student's role

This will be a self-standing project for Jocelyn, although the project is embedded within a larger project on temperate marine invaders which I am pursuing mainly with undergraduate students. She will be responsible for designing and conducting all surveys, measuring all biotic and abiotic potential correlates of population change, and analysing these data at SFU. She will be responsible for the statistical analyses and for writing the first draft of the MS.

Expected quality of the training and mentorship to be received

In the field, for safety, Jocelyn will always be accompanied by a Côté lab member, most often myself, my lab manager Beth Oishi, or another summer student with relevant field experience. Jocelyn will be trained in survey design, invertebrate identification, and sediment collection and analysis techniques. She will have a senior PhD student assigned as stats mentor. She will be part of an active and inclusive research group and treated as a graduate student.

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