



UNIVERSITY OF CALGARY  
FACULTY OF SCIENCE  
DEPARTMENT OF BIOLOGICAL SCIENCES  
COURSE OUTLINE

1. **Course: BIOLOGY 451 - CONSERVATION BIOLOGY**

Lecture Sections: L01            MWF                            15:00-15:50                    AD 142                            WINTER 2016

Instructor(s):        Dr. S.M. Vamosi                    BI 395                            210-8508                            smvamosi@ucalgary.ca  
                          Dr. R.M.R. Barclay                BI 330                            220-3564                            barclay@ucalgary.ca

Desire to Learn course name: BIOL 451 L01 – (Winter 2016) – Conservation Biology  
Biological Sciences Department BI 186; (403) 220-3140; biosci@ucalgary.ca

2. **PREREQUISITE(S):**                    Biology 313

See section 3.5.C in the Faculty of Science section of the online Calendar  
(<http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

3. **Grading:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

<b>Tutorial reports</b>	<b>15%</b>		
<b>Tutorial participation</b>	<b>11%</b>		
<b>Midterm exam</b>	<b>37%</b>	<b>Thursday, Feb. 25, 2016 (1800-2000h)</b>	<b>ENE 241 &amp; 243</b>
<b>Final exam</b>	<b>37%</b>		

There will be a final exam scheduled by the Registrar's office.

Each piece of work (Tutorial reports, midterm test or final examination) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

Grading Scheme

A+	95
A	86
A-	80
B+	77
B	73
B-	70
C+	67
C	63
C-	60
D+	55
D	50
F	<50%

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.3](#) of the University Calendar

5. **Scheduled out-of-class activities:** Dates and times of approved class activities held outside of class hours.

**Midterm**                    February 25, 2016    1800-2000h                    ENE 241 & 243

**REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS-TIME-ACTIVITY.** If you have a clash with this out-of-class-time-activity, please inform your instructor as soon as possible so that alternative arrangements may be made for you.

6. **Course Materials:**                    **Recommended:** Conservation Biology for All (ed. NS Sodhi & PR Ehrlich). Oxford. 2010.  
ISBN: 978-0-19-955423; Free: <http://www.conbio.org/publications/free-textbook>

7. **Examination Policy:** No electronic or written aids (e.g., cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, [Section G](#), on Examinations.
8. In this course, the quality of the student's writing in tutorial reports will be a factor in the evaluation of those reports to the extent that this affects the clear presentation of ideas. See also [Section E.2](#) of the University Calendar.
9. **Human studies statement:** N/A

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. Students are expected to be familiar with <http://www.ucalgary.ca/pubs/calendar/current/sc-5-1.html> of the on-line calendar.

See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.

**10. OTHER IMPORTANT INFORMATION FOR STUDENTS:**

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at [http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities\\_0.pdf](http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf).
- (d) Students needing an Accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email [addy@ucalgary.ca](mailto:addy@ucalgary.ca) or phone 403 220-3140.
- (e) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (f) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (g) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)  
 SU Faculty Rep. Phone: 403 220-3913 Email: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca) and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca);  
 Student Ombuds Office: 403 220-6420 Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca); <http://ucalgary.ca/provost/students/ombuds>
- (h) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (i) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference – please participate in USRI Surveys.

Department Approval \_\_\_\_\_ ORIGINAL SIGNED \_\_\_\_\_ Date \_\_\_\_\_

Associate Dean's Approval for  
 out of regular class-time activity: \_\_\_\_\_ ORIGINAL SIGNED \_\_\_\_\_ Date: \_\_\_\_\_  
 B451 co W16; 10/12/2015 2:34 PM

UNIVERSITY OF CALGARY  
DEPARTMENT OF BIOLOGICAL SCIENCES  
COURSE OUTLINE  
**BIOLOGY 451**  
**BIOLOGICAL CONSERVATION**

TERM: Winter 2016

SECTION NO: L01

PREREQUISITE(S): Biology 313

Students may not register in a course unless they have a grade of at least C- in each prerequisite course.

COURSE COORDINATOR: Dr. S.M. Vamosi

LECTURERS:	Dr. S.M. Vamosi	BI 395	210-8508	smvamosi@ucalgary.ca
	Dr. R.M.R. Barclay	BI 330	220-3564	barclay@ucalgary.ca

LECTURES:	MWF	15:00 – 15:50	AD 142
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TUTORIALS:	T	11:00/13:00/15:00	ENA 233/ENA 235
	R	11:00/13:00/15:00	ENA 233/ENA 235

TEXT: Recommended: Conservation Biology for All. NS Sodhi & PR Ehrlich. Oxford. 2010.

MARK DISTRIBUTION: A. Composition of Final Grade

Tutorial reports	15%
Tutorial participation	11%
Midterm exam (25 Feb. 2016, 1800-2000h)	37%
Final exam	37%

B. Final Exam

There will be a Final Examination scheduled by the Registrar's Office.

C. Components of course for which a passing grade is essential

N/A

**BIOLOGY 451 TENTATIVE LECTURE SCHEDULE WINTER 2016**

Note: This schedule is provisional, so some variation in timing & sequence of topics can be anticipated.

<b>Date</b>	<b>Lecture Topic</b>	<b>Lecturer</b>	<b>Tutorial Topic</b>
Jan 11	Introduction	Vamosi/Barclay	
Jan 13, 15	What is conservation biology?	Vamosi	
Jan 18–22	Biodiversity	Vamosi	T1: Scientists as advocates (RMRB)
Jan 25, 27	Ecosystem functions & services	Vamosi	T2: Evolutionary biodiversity (SMV)
Jan 29–Feb 3	Habitat loss & fragmentation	Vamosi	T3: Ecosystem services (SMV; assignment)
Feb 5, 10	Urban ecology	Vamosi	T4: SLOSS (SMV)
Feb 12	Conservation genetics	Vamosi	
Feb 15-19	<i>Reading Week (no lectures)</i>		
Feb 22	Conservation genetics	Vamosi	T5: Genetics of Florida panthers (SMV)
Feb 24	Catch up / review	Vamosi	
Feb 26, 29	Reintroductions	Moehrenschrager	
Mar 2	Conservation medicine	Moehrenschrager	T6: Assisted Colonization (assignment)
Mar 4	Conservation & poverty alleviation	Moehrenschrager	
Mar 7	Intro to species/pop'n. approaches	Barclay	
Mar 9	Whooping cranes & bison	Barclay	T7: Umbrella & flagship species (RMRB)
Mar 11–16	Extinction & rarity	Barclay	T8: Bushmeat (RMRB)
Mar 18	Rodrigo Medellin (video & guest)	Barclay	
Mar 21–28	MVP/PVA	Barclay	T9: Species-at-risk (RMRB)
Mar 25	<i>Good Friday (no lectures)</i>		
Mar 30, Apr 1	Invasive species	Barclay	T10: Invasive species (SMV)
Apr 4-11	Climate change/renewable energy	Barclay	T11: Climate Change (RMRB; assignment)
Apr 13	Catch up / review	Barclay	