



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

1. Course: ECOLOGY 527 – ECOLOGY OF FISHES

Lecture Sections: L01 MWF 15:00-15:50 ST 061 WINTER 2018
 Course Coordinator/
 Instructor: Dr. J.R. Post BI 581 220-6937 jrpost@ucalgary.ca

Desire 2 Learn (D2L) course name: ECOL 527 L01 – (Winter 2018) – Ecology of Fishes
 Biological Sciences Department BI 186; (403) 220-3140; biosci@ucalgary.ca

2. PREREQUISITE(S): Biology 313 and one of Ecology 417 or Zoology 477.02

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 in 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:

Midterm Exam	(February 28, 2018)	30%	In-Class
Term Paper	(April 11, 2018)	20%	
Tutorials		10%	
Final Exam		40%	

To pass the course as a whole, a student must obtain a passing grade (50%) on both the midterm and the final examinations.

Each piece of work submitted by a student will be assigned a percentage score. A student’s average percentage score for the various components listed above will be weighted as indicated above to calculate the overall percentage for the course, which will be used to determine the course letter grade. The following grading scheme identifies the maximum thresholds for letter grades that will be applied in this course: thresholds may be lowered to establish the final grade distribution.

Letter Grade	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Min. Percent Required	90	85	80	77	74	70	67	64	60	55	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 a student's responsibility to familiarize herself/himself with these regulations. See also Section E.6 of the University Calendar

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

None

There will be a final examination scheduled by the Registrar

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.

Department Approval ORIGINAL SIGNED Date _____
 E527co W18;11/22/2017 10:00 AM

6. **Course Materials:** There is no textbook for this course.
7. **Examination Policy:** No calculators or electronic devices are permitted for quizzes and exams. Students should also read the Calendar, [Section G](#), on Examinations.
8. **Writing across the curriculum statement:** In this course, the quality of the student's writing on assigned papers will be a factor in the evaluation of those papers. See also [Section E.2](#) of the University Calendar.
9. **Human studies statement:** Students in the course are not expected to participate as subjects or researchers. See also [Section E.5](#) of the University Calendar. See also <http://www.ucalgary.ca/pubs/calendar/current/e-5.html>.
10. **Use of living and dead organisms:** Students will not be expected to handle organisms during this course.

11. 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.

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 or phone 403 220-3140.

- (d) **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.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). 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>
- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: suypaca@ucalgary.ca SU Faculty Rep. Phone: 403 220-3913 Email: science1@su.ucalgary.ca, science2@su.ucalgary.ca and science3@su.ucalgary.ca;
- (g) Student Ombuds Office: 403 220-6420 Email: ombuds@ucalgary.ca; <http://ucalgary.ca/provost/students/ombuds>**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 during 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.
- (h) **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). Your responses make a difference - please participate in USRI Surveys.

ECOLOGY 527 Learning Outcomes

After completion of this course, successful students should be able to:

1. Understand the systematics and key evolutionary processes of the majority of the global vertebrate fauna
2. Describe the key evolutionary adaptations responsible for the success of the Teleost fishes
3. Describe the processes and timelines involved in the zoogeography of North American fish fauna
4. Describe the common behavioral physiological, population and community level processes responsible for patterns observed in nature
5. Understand the key processes involved in harvest dynamics in fisheries and their dynamic interactions
6. Critically evaluate features of the distribution, abundance and anthropogenic threats of fishes and be able to create an endangered status evaluation using standard guidelines
7. Critically read and synthesize the primary literature into a research paper
8. Communicate effectively both in writing and orally

Ecology 527

Lecture Schedule

January	8-17	Systematics, Evolution and Zoogeography
January	19-29	Functional Design and Behaviour
January/February	31-9	Energetics and Growth
February	12-16	Reproduction, Life History and Recruitment
February	19-23	<i>Reading Week</i>
February/March	26-19	Recruitment and Population Dynamics
March	21-23	Food Webs
March/April	28-13	Fisheries Ecology and Management

Tutorial Schedule

January	16	Introduction
	23	Papers
	30	Papers
February	6	Bioenergetics Computer Lab
	13	Bioenergetics Computer Lab
	20	<i>Reading Week</i>
	27	Stock Assessment Computer Lab
March	6	Stock Assessment Computer Lab
	13	Population Dynamics Computer Lab
	20	Population Dynamics Computer Lab
	27	Student Talks
April	3	Student Talks
	10	Student Talks