BIOL*3650 Applications in Biology

Winter 2021
Section(s): C01

College of Biological Science
Credit Weight: 0.50
Version 2.00 - January 07, 2021

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1 Course Details

1.1 Calendar Description

In this course, students will explore selected topics related to the application of biological knowledge and techniques in society, such as biotechnology, forensic science, conservation biology, agriculture, health care, public health, and wildlife biology. Different topics are offered each year, reflecting the particular research or professional interest of the course instructor. Upcoming topics will be posted on the B.Sc. Advising website.

Pre-Requisites:	9.00 credits including (2 of BIOL*1070, BIOL*1080, BIOL*1090)
Restrictions:	This is a Priority Access Course. Enrolment may be restricted to particular CBS programs or specializations depending on the selected topic during certain periods. Please refer to the BSC Advising Website.

1.2 Course Description

This specific course section introduces students to the scientific and professional field of Athletic Therapy (AT), including the scope of practice of an Athletic Therapist in Sport and the community. Students will learn basic anatomy and the common musculoskeletal injuries that can occur at the major joints, and apply this knowledge to perform common taping techniques and sideline assessment of injuries during sport. Students will learn about the Athletic Therapist's on field kit, what it contains, and what each product is used for, as well as SCAT 5 (Sport Concussion Assessment Tool), its purpose and importance within the Concussion Protocol as mandated by the Department of Athletics Sport Physicians.

This course is very practical in nature and will prepare students to be competitive in securing a Student Trainer position with a varsity sports team in the following academic year. **As such,**

priority enrolment in this section of BIOL*3650 will be given to students wishing to continue their involvement with Athletic Therapy through BIOL*3660: Internship in Biological Science as a student Trainer for a UoG Varsity team. However, please note that Student Trainer Internship positions are not immediately guaranteed following this course, and an application process is required. Please discuss your interest with the course instructor - Judy Lynch.

Please note: An application outlining your interest in this course is required prior to enrolment, and the instructors signature will be required for successful applicants. Consideration will be given to students in semester 4 who have completed 2 of BIOL*1070/1080/1090, but do not yet have 9.0 completed credits (i.e. have only completed 7.5 credits). Please contact the course instructor, Judy Lynch (mjlynch@uoguelph.ca) for more information.

1.3 Timetable

The class will be delivered REMOTELY.

Proposed Class Time:

Tuesday & Thursday 10:00-11:20am. Synchronous (live) lectures 2x/wk through Zoom with recordings being posted to CourseLink after class.

1.4 Final Exam

This course does not have a final exam.

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2 Instructional Support

This section of BIOL*3650 - Introduction to Athletic Therapy - will be taught by Judy Lynch, Head Athletic Therapist at the University of Guelph

2.1 Instructional Support Team

Instructor:	Judy Lynch
Email:	mjlynch@uoguelph.ca
Telephone:	+1-519-824-4120 x53522
Office:	GGAC - Tapping Room (1st Floor)

The instructor will be available through the following routes to connect with students:

- Questions and discussions are welcome during weekly synchronous class time

- Office hours by appointment (email instructor directly to set up an individual time)
- Discussion board on CourseLink

More details will be provided during the first class.

2.2 Teaching Assistants

Teaching Assistant: Aliza Siebenaller
Email: asiebena@uoguelph.ca

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3 Learning Resources

There is not a required textbook for this course.

Recommended &/or required readings (eg: papers, position stands etc.) may be posted to the course website throughout the semester.

3.1 Required Resources

Personal Taping Tool Kit (Equipment)

Personal Taping Tool Kit (Equipment):

Students will be required to purchase an individual AT practice kit, (i.e. tape, adhesive spray etc.) to participate fully in this course. The cost will be approximately $100 (cash) - receipt available upon request. Kits must be **picked up on campus** during the first week of classes.

CourseLink (Website)

Information for the course will be posted on the CourseLink site. Please login and check this site regularly for up-to-date information, discussion boards, links for the Zoom meeting invites and resources.

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4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Discuss the scope of practice of an AT, and their role in sport and community.
2. Describe the basic anatomy of major joints and explain how this relates to common musculoskeletal injuries.
3. Apply anatomical knowledge to perform appropriate taping and wrapping techniques of major joints.
4. Analyze dynamic sport situations and select appropriate assessment tools to apply in a given situation.
5. Explain how you arrived at a given conclusion, by drawing on information from a variety of sources.
6. Reflect on the fit of Athletic Therapy to meet your personal and professional career goals.

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5 Teaching and Learning Activities

This is a very practical course. Even though it is being offered remotely, students are expected to engage in the synchronous classes and be prepared to actively participate each day. Most classes will include an instructor-led teaching component and demonstration, but class time will also be spent discussing case studies, and practicing various techniques.

5.1 Course Topics and Proposed Schedule

- Week1: Intro to field of Athletic Therapy-
  - The professional role of an AT in sport and community.
- Week 2-4: Lower extremities (foot,lower leg, knee, hip)
  - Basic anatomy, common injuries and taping techniques
- Weeks 5-7: Upper extremities (thumb, hand, elbow,shoulder)
  - Basic anatomy, common injuries and taping techniques
- Weeks 8-10: Assessment Protocols
  - Emergency Action Plan, sideline & field assessments, SCAT 5 & concussions
- Weeks 11-12*: Review and Practical Testing
  - *NOTE: 4 classes are reserved for review and/or assessments during class time. These classes will not necessarily appear at the end of the semester,rather they will be distributed throughout the semester. A class-by-class breakdown will be provided by the instructor on the first week of class.

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6 Assessments

Additional assessment details (eg: due dates, grading criteria, assignment instructions) will be provided by the instructor during the first class and posted to the course website.

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Short Essay	10
Case Study 1	20
Case Study 2	30
Practical Assessment	30
Critical Reflection	10
Total	100

6.2 Assessment Details

Short Essay (10%)
Due: Fri, Jan 22

Case Study 1 (20%)
Due: Fri, Feb 5

Case Study 2 (30%)
Due: Fri, Mar 12

Practical Assessment (30%)
Due: Tue, Mar 23 - Thu, Mar 25
Practical assessment will take place on March 23rd or 25th. Specific dates will be announced in class.

Critical Reflection (10%)
Due: Fri, Apr 9

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7 Course Statements

7.1 Grading

Grades will be assigned according to the standards outlined in the U of G Undergraduate Calendar (p37-38).

7.2 Late Policy

A late penalty of 5% will be deducted each day an assignment is late.

8 College of Biological Science Statements

8.1 Wellness

If you are struggling with personal or health issues:

- Counselling Services offers individualized appointments to help students work through personal struggles that may be impacting their academic performance.
- Student Health Services is located on campus and is available to provide medical attention.
- For support related to stress and anxiety, besides Health Services and Counselling Services, Kathy Somers runs training workshops and one-on-one sessions related to stress management and high performance situations. http://www.selfregulationskills.ca/

8.2 Personal information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) http://www.e-laws.gov.on.ca/index.html. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes.

For more information regarding the Collection, Use and Disclosure of Personal Information policies please see the Undergraduate Calendar. (https://www.uoguelph.ca/registrar/calendars/undergraduate/current/intro/index.shtml)

9 University Statements

9.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

9.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml

Graduate Calendar - Grounds for Academic Consideration

https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions
https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml

9.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml

Graduate Calendar - Registration Changes
https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml

Associate Diploma Calendar - Dropping Courses
https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml

9.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

9.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day.

For Guelph students, information can be found on the SAS website
https://www.uoguelph.ca/sas

For Ridgetown students, information can be found on the Ridgetown SAS website

https://www.ridgetownc.com/services/accessibilityservices.cfm

9.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community-faculty, staff, and students-to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct
https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml

Graduate Calendar - Academic Misconduct
https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml

9.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

9.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars
https://www.uoguelph.ca/academics/calendars

9.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings and academic schedules. Any such changes will be announced via CourseLink and/or class email. All University-wide decisions will be posted on the COVID-19 website (https://news.uoguelph.ca/2019-novel-coronavirus-information/) and circulated by

email.

9.10 Illness

The University will not normally require verification of illness (doctor's notes) for fall 2020 or winter 2021 semester courses. However, requests for Academic Consideration may still require medical documentation as appropriate.