

INSTRUCTOR NOTES for SYL

How to Use SYL

****HIDE THIS CONTENT WHEN DONE** (click icon to the right of this content block)**

To begin "Editing" click **Edit Page** box to the left of this content block of instructions. Each section of content underneath a heading is known as a content block.

Editing Content Blocks: Click the icon with the pencil. Some content blocks are fully editable while others will allow information to be added at the end of the text already presented. Most titles of content blocks can be edited as well. Once edits are finished click "save" at the bottom of content block.

Visibility of EACH Content Block: Click the icon with the eye and a line through it. This will 'hide' the content block from everyone. A line through the title of the content block indicates it is not visible. You can make it visible again by selecting the eye.

Visit the SharePoint site for more SYL training resources (<https://uoguelphca.sharepoint.com/sites/Syllabi/SitePages/Training-Resources.aspx>).

There is no "save" button on the overall course outline. Each content block has a 'save' button when you open to edit.

To align with ADOA practices, when adding text to any text content blocks please ensure *headings* are set to Heading #3 and *text* is set to Normal.

If data has changed in other systems, for example classroom location data from Colleague or course learning outcomes in CIM, use the refresh button (two arrows in a circle) to refresh data that is being pulled into your outline.

Public Visibility: Use the **eye icon** next to refresh button (two arrows in a circle) to open table where you can identify specific content blocks that will be restricted to users who are not signed into the website (public) via single sign on.

Once ready to publish your course outline, click the **Publish Page** box to the left of these instructions. This will send your outline into workflow for review and approval. Once approved, the outline will be published and available to the community.

ENVS*3150 - Aquatic Systems

Winter 2025 Course Outline

Section: 01

Credits: 0.50

Land Acknowledgement: Guelph

The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit. We recognize the significance of the Dish with One Spoon Covenant to this land and offer respect to our Anishinaabe, Haudenosaunee and Métis neighbours. Today, this gathering place is home to many First Nations, Inuit, and Métis peoples and acknowledging them reminds us of our important connection to this land where we work and learn.

Calendar Description

In this course students will be taught how to apply quantitative methods to the analysis of aquatic systems of the earth from many simultaneous perspectives. The material will include the physical, chemical and biological components of the various liquid surficial structures and processes and also how they interact with humans. The economic, social and policy implications of humans interacting with aquatic systems will also be emphasized. The history of the analysis of aquatic systems will be systematically included in the material.

Prerequisite(s): 10.00 credits including (BIOL*1030, BIOL*1040) or (BIOL*1070, BIOL*1090), CHEM*1040

Restriction(s): BIOL*3450

Department(s): School of Environmental Sciences

Course Description

<Optional content block - title and content block fully editable>: Instructors may add additional content if necessary. This content block can be removed by clicking the 'eye' icon.

Course Fit Within Program/Curriculum

<Optional content block - title and content block fully editable>: Instructors may add additional content if necessary. This content block can be removed by clicking the 'eye' icon.

Lecture Schedule

TuTh 1pm-2:20pm in MCKN*223 (1/6 to 4/21)

Lab / Seminar Schedule

<instructor can choose which table they'd like to use. **Title and Content within this block is fully editable & removeable**>

NOTE: To add another ROW, go to the bottom right cell of table and press 'tab' button. To delete a ROW contact courseleaf@uoguelph.ca

Day	Time	Location	Sections
Jan 13	2:30-4:20	Graham Hall (GH) 3309	01
Jan 17	12:30-2:20	GH 3309	02
Jan 20	2:30-4:20	GH 3309	01
Jan 24	12:30-12:20	GH 3309	02
Jan 27	2:30-4:20	GH 3309	01
Jan 31	12:30-2:20	GH 3309	02
Feb 10	2:30-4:20	GH 3309	01
Feb 14	12:30-2:20	GH 3309	02
Feb 24	2:30-4:20	GH 3309	01
Feb 28	12:30-2:20	GH 3309	02
Mar 3	2:30-4:20	GH 3309	01
Mar 7	12:30-2:20	GH 3309	02
Mar 10	2:30-4:20	GH 3309	01
Mar 14	12:30-2:20	GH 3309	02
Mar 17	2:30-4:20	GH 3309	01
Mar 21	12:30-2:20	GH 3309	02
Mar 24	2:30-4:20	GH 3309	01
Mar 28	12:30-2:20	GH 3309	02

Instructor Information

Paul Sibley

Email: psibley@uoguelph.ca

Neil Rooney

Email: nrooney@uoguelph.ca

Additional Support

GTA Name: Luke McAllister

GTA Email: lmcalle02@uoguelph.ca

GTA office location and office hours: Virtual at times TBD or by appointment.

Learning Resources

<Optional Instructor Input>: This information is manually entered by instructors. The title of this content block is fully editable as is the content. If not used, instructors should remove the content block. These instructions should be removed. >

Required Resources

Some instructors may want to notify students of what type of information (lectures, assignments, etc) is posted on the course website: Course link (Website) (<https://courselink.uoguelph.ca/>)

Course Resources

Additional resources can be added. Instructors can list software requirements and other material (lab equipment, scientific calculator, etc).

Campus Resources

If you are concerned about any aspect of your academic program: Make an appointment with a Program Counsellor (<https://www.uoguelph.ca/uaic/programcounsellors/>) in your degree program. If you are struggling to succeed academically: There are numerous academic resources offered by the Learning Commons (<https://www.lib.uoguelph.ca/using-library/spaces/learning-commons/>) including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills.

Cost of Textbooks and Learning Resources

Delete these instructions: Include the itemized cost of all textbooks and learning resources required or recommended for this course. If there are no costs for textbooks or learning resources indicate that here as well. To add a row in the table, go to the bottom right cell of the table and press 'tab'.

Textbook / Learning Resource	Required / Recommended	Cost
Ecology of Aquatic Systems (Dobson and Frid 2009)	Recommended	\$91.00

Students are advised that prices are often determined by the publisher or bookstore and may be subject to change.

Library Course Reserve (Ares)

For this course, you will be required to access course reserve materials through the University of Guelph McLaughlin Library. To access these items, select **Ares** on the navbar in CourseLink. Note that you will need your Central Login ID and password in order to access items on reserve.

For further instructions on accessing reserve resources, visit [How to Get Course Reserve Materials \(https://www.lib.uoguelph.ca/find/course-reserves-ares/\)](https://www.lib.uoguelph.ca/find/course-reserves-ares/).

If at any point during the course you have difficulty accessing reserve materials, please contact the e-Learning Operations and Reserve Services staff at:

Tel: 519-824-4120 ext. 53621 | Email: libres2@uoguelph.ca | Location: McLaughlin Library, First Floor, University of Guelph

Course Learning Outcomes

1. To gain foundational knowledge to understand the basic physiography, chemistry and biology/ecology of aquatic (freshwater and marine) systems
2. To understand the science of aquatic systems in the context of management and policy principles and the essential link that must be established between these two elements in order to develop innovative and effective policies
3. To understand 1 and 2 in the context of key global environmental issues presently facing humanity and how these issues have been or should be managed using sound science and policy
4. To evaluate scientific evidence through critical evaluation of the literature and defense of ideas through discussion and debate
5. To promote effective communication in an academic and professional environment through technical reports, discussions and debates
6. To promote numeracy through problem solving (calculations) in lectures and statistical analysis of laboratory-generated data sets presented in laboratory reports

Course Level Learning Outcomes

Faculty able to add a new set of Course Learning Outcomes if they don't want to use the prepopulated ones from the content block above (from Curriculum Inventory Management [CIM] system).

OR - fully editable content block - Instructors may add additional content if necessary. This content block can be removed by clicking the 'eye' icon.

Open Text Field

open text box for faculty to edit (can change title and content)

Schedule of Topics and Assignments

Week of	Topic	Activities	Due
1/7	January 7/9	Introductory concepts and basic principles in water chemistry, hydrology, and physiography	
1/14	January 14/16	Introductory concepts and basic principles in water chemistry, hydrology, and physiography	
1/21	January 21/22	Dead lakes and dead zones: The science and management of nutrient pollution	
1/28	January 28/30	Dead lakes and dead zones: The science and management of nutrient pollution	
2/4	February 4/6	When the switch goes off: Ocean acidification and the state of the world's oceans	
2/11	February 11/13	When the switch goes off: Ocean acidification and the state of the world's oceans	
2/18		Winter Break	
2/20		Winter Break	
2/25	February 25/27	Who killed the Grand Banks? The science and management of marine & freshwater fisheries	
3/4	March 4/6	Who killed the Grand Banks? The science and management of marine & freshwater fisheries	
3/11	March 11/13	Concepts of Aquatic Biodiversity	
3/18	March 18/20	Concepts of Aquatic Biodiversity	
3/25	March 25/27	Aquatic Systems: The final repository for the by-products of Society	
4/1	April 1/3	Aquatic Systems: The final repository for the by-products of Society	

Lab / Seminar Schedule

Teaching and Learning Activities

Weekly Activities

<Optional content block - title and content block fully editable>

Instructors may add additional content if necessary. This content block can be removed by clicking the 'eye' icon.

Assessment Breakdown

{NOTE: instructor can add another row by hitting "TAB" button when they are at the end of the row}

Description	Weighting (%)	Due Date
Midterm	25%	Feb 13, 2025
Nutrient Lab	20%	February 15
Critique	15%	March 3/7
Media Assignment	10%	March 10/14
Biodiversity Lab	20% (one of nutrient or biodiversity)	March 28
Toxicity Lab	5% (optional)	April 4
Participation	5%	April 4
Final Exam	25%	April 14

Assessment Details

Final Exam

Date: Apr 14

Time: Mon 11:30am-1:30pm

Location: TBA *Please see Web Advisor closer to the date of scheduled final for location.*

To understand rules and regulations regarding Examinations students are encouraged to read Student's Responsibilities (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/examinations/>)

If the student is unable to meet the final exam requirements due to medical, psychological or compassionate circumstances they are encouraged to review Student's Responsibilities in the Academic Consideration, Appeals and Petitions (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>) section of the Academic Calendar.

Grading Schemes

<Optional Instructor Input> Can use this content area to show different grading schemes OR change the title and content to build your own content block of information

There are two grading schemes in this course in order to minimize the effect of poor performance on Term Tests or Data Analysis Assignments. The scheme that will give you the highest grade will be selected automatically.

Scheme 1

Term Tests Total: 30%

- Term Test 1 (10%)
- Term Test 2 (10%)
- Term Test 3 (10%)

Data Analysis Total: 25%

- Data Analysis Assignment 1 (12.5%)
- Data Analysis Assignment 2 (12.5%)

Online Final Exam (45%)

Scheme 2

Term Tests Total: 45%

- Best 2 term tests weighted 40%
- Worst term test weighted 5%

Data Analysis Assignments Total: 25%

- Best assignment weighted at 15%
- Worst assignment weighted at 10%

Online Final Exam (45%)

Last Day to Drop Course

The final day to drop Winter 2025 courses without academic penalty is the last day of classes: April 04

After this date, a mark will be recorded, whether course work is completed or not (a zero is assigned for missed tests/assignments). This mark will show on the student's transcript and will be calculated into their average.

Course Grading Policies

Submission of Assignments

each instructor will have their own policy

Late Assignment

each instructor will have their own policy

Course Standard Statements

<Optional content block - title and content block fully editable>: Instructors may add additional content if necessary. This content block can be removed by clicking the 'eye' icon.

Course Policies

More course policies can be added (class attendance, extra credit (accepted or not), course offering information disclaimer, lab safety, computer lab policy)

Course Technology Requirements

Some courses have statements about specific technology needed in the course.

Open Text Field #2

<Optional Instructor Input>: If desired, instructors may add any additional content they so choose to. The title of this content block is editable.

Standard Statements for Undergraduate Courses

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 discourages misconduct. 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.

The Academic Misconduct Policy (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-misconduct/>) is outlined in the Undergraduate Calendar.

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 make a booking at least 10 days in advance, and no later than the first business day in November, March or July as appropriate for the semester. Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time. For students at the Guelph campus, information can be found on the SAS website. (<https://www.uoguelph.ca/sas/>)

Accommodation of Religious Obligations

If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements.

See the Academic calendar for information on regulations and procedures for Academic Accommodations of Religious Obligations (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-accommodation-religious-obligations/>).

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.

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 undergraduate students 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 the Undergraduate Calendar - Dropping Courses (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/dropping-courses/>).

Email Communication

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

Health and Wellbeing

The University of Guelph provides a wide range of health and wellbeing services at the Vaccarino Centre for Student Wellness (<https://wellness.uoguelph.ca/>). If you are concerned about your mental health and not sure where to start, connect with a Student Wellness Navigator (<https://wellness.uoguelph.ca/navigators/>) who can help develop a plan to manage and support your mental health or check out our mental wellbeing resources (<https://wellness.uoguelph.ca/shine-this-year/>). The Student Wellness team are here to help and welcome the opportunity to connect with you.

Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g., final exam or major assignment).

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.

Resources

The Academic Calendars (<http://www.uoguelph.ca/registrar/calendars/?index>) are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

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. See the Undergraduate Calendar for information on regulations and procedures for Academic Consideration. (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>)