

**UNIVERSITY OF VICTORIA**  
**Department of Biology & School of Earth and Ocean Sciences**

**Syllabus for BIOLOGICAL OCEANOGRAPHY**  
**BIOL 311 (CRN: 10356) / EOS 311 (CRN: 11536)**  
**Fall 2018 (201809) – A01**

**Course Instructor:** Dr. Diana Varela  
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**Office Hours:** by appointment

**Laboratory Personnel:**

Senior Laboratory Instructor: Sarah Thornton, [sarahjt@uvic.ca](mailto:sarahjt@uvic.ca)  
Teaching Assistants: Lucianne Marshall, [lucimm@uvic.ca](mailto:lucimm@uvic.ca), Kyle Bailey, [kjbailey@uvic.ca](mailto:kjbailey@uvic.ca), and Brett Jameson, [bjameson@uvic.ca](mailto:bjameson@uvic.ca)

**Course Objectives:** The objective of this course is to introduce the field of biological oceanography and explore how interactions between biology, chemistry and physics regulate the structure, function and productivity of marine ecosystems. Although we will consider a variety of marine ecosystems, we will focus primarily on planktonic systems.

**Lectures:** Mondays and Thursdays, 1:00 - 2:20 PM  
Engineering/Computer Science building (ECS) 116

**Optional textbook:** “**Biological Oceanography - An Introduction**” (2<sup>nd</sup> edition) by Lalli & Parsons is freely available online through the UVic library:  
<http://www.sciencedirect.com/science/book/9780750633840>.

Another valuable resource available (as a hardcopy) in the UVic library is: “Biological Oceanography” (2<sup>nd</sup> edition) by Miller and Wheeler.

**Laboratories:** Labs will be held in the Petch building (PCH) 107 (except when specified), and begin on Tuesday September 11<sup>th</sup>. All lab sections are full so you can only attend the section in which you are officially registered. There will also be a six-day research cruise on UVic’s research vessel, the RV *John Strickland* (**September 25-30**). Each student is required to participate in one full-day of the cruise. Data collected on these trips will form the basis for subsequent laboratory analyses and assignments. More information on the *Strickland* trips and lab exercises will be provided during lecture and labs throughout the term.

**Lecture and laboratory materials:** There is no formal lab manual or mandatory textbook. Lab handouts, lab report guidelines and lecture notes will be posted on CourseSpaces as required. It is your responsibility to check CourseSpaces regularly and before every lecture and lab.

The following site will also help in your research for course assignments:  
<http://libguides.uvic.ca/BiologicalOceanography>

**Marking Scheme:**

<b><i>Lecture Component (60%):</i></b>	
Midterm Exam (Mon Oct 22)	20%
Final Course Exam	40%
<b><i>Laboratory Component (40%):</i></b>	
See mark break-down in lab schedule	40%
<b>Final Course Mark</b>	<b>100%</b>

**Students must achieve a passing grade ( $\geq 50\%$ ) in **BOTH** the lecture component ( $\geq 30/60$ ) and laboratory component ( $\geq 20/40$ ) to pass the course.**

### **Grading Scheme:**

A+	90 - 100%	B+	77 - 79%	C+	65 - 69%	F	0 - 49%
A	85 - 89%	B	73 - 76%	C	60 - 64%	N	0 - 49%
A-	80 - 84%	B-	70 - 72%	D	50 - 59%		

F: Unsatisfactory performance, wrote final exam and completed course requirements, no supplemental.

N: Did not write exam or complete course requirements by the end of term, no supplemental.

Freedom of information legislation allows the instructors to post full student numbers and grades, with names stripped out. Students have the right to refuse grade posting but must inform the instructor in writing at the beginning of the course. Final grades will be made available no sooner than one week after the Final Exam.

### **Examinations:**

- Students are required to write the Midterm Exam. If you must miss it for a *valid well-documented reason* (illness, accident, family affliction or official sporting commitments as a UVic athlete), you must notify Dr. Varela as soon as possible and provide *suitable* written documentation (*original* note from a medical doctor, counselor or UVic coach). If you are excused from the missed Midterm, the Final Exam will count for 60% of the final course mark. If you are not excused from the missed Midterm, you will receive a zero for the missed exam.
- Writing the Final Course Exam is mandatory. Although the Final Exam cannot be written early under any circumstances, it can be deferred in cases of illness, accident, family crisis, or official commitments as a UVic athlete. If you miss or expect to miss the Final Exam for any of these reasons, please notify the course instructor, Dr. Varela, as soon as possible. When you are able to do so, you must apply for academic concession using a *Request for Academic Concession* form that can be found in the Office of the Registrar's website.
- Travel plans are not a valid reason for missing exams or assignments, even if plans have been made and tickets purchased for you without your knowledge. Specifically, the date for the BIOL/EOS 311 Final Exam will not be known until the final exam schedule is posted later in the term. The last day for final exams this term is Saturday December 22<sup>nd</sup>. You are safe to make travel arrangements for *after* that date.
- Students must obtain a passing grade in the laboratory component to be permitted to write the Final Exam.
- Both Midterm and Final Exams will contain a combination of definitions, plus short and longer (e.g. multi-part or essay) questions from lecture and lab material. The Final Exam will include all of the course material covered in lectures and laboratories since the beginning of the course.
- All course materials (*i.e.* instructor commentaries, class discussions and figures, posted notes, readings and lab materials) are fair game for Midterm and Final Exams. Readings from the optional textbook may help you to supplement the lecture material and provide you with additional insight and illustrations, and in-depth explanations.
- Students who require special arrangements for testing should contact the Centre for Accessible Learning (CAL) to register and request academic accommodations *at the beginning of the term (during the first two weeks of classes)*. <https://www.uvic.ca/services/cal/>
- No supplemental examinations or additional course work (for extra marks) are offered in this course.

## **Course Experience Survey (CES)**

Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete a confidential course experience survey regarding your learning experience. Please complete the survey as it is vital to providing feedback regarding the course and the instructor's teaching, as well as to help the department improve the overall program for students in the future. Please note that results are available to course instructors only *after* final grades have been submitted. When it is time for you to complete the survey, you will receive an email inviting you to do so, or you can go directly to <http://ces.uvic.ca>. You will need to use your UVic Netlink ID to access the survey on your laptop, tablet or mobile device.

## **Academic Regulations:**

Please read the appropriate section of the 2018-2019 University of Victoria Undergraduate Calendar (<https://web.uvic.ca/calendar2018-09/pdfs/undergraduate-201809.pdf>) particularly the General, Undergraduate and Faculty of Science sections, regarding your rights and obligations. It is the student's responsibility to attend to ADD/DROP dates published in the Calendar (page 6) and posted on <https://web.uvic.ca/calendar2018-05/general/dates.html>. Students must not assume they will be dropped automatically from any course they do not attend.

It is also the students' responsibility to check their records and registration status (<http://www.uvic.ca/registrar/>). In addition, students need to check the Calendar course descriptions for all currently registered courses and transfer credit to check for duplicate or mutually exclusive (DUP or M/X) courses that would result in denial of course credit and/or influence eligibility for student loans.

Plagiarism and cheating are considered very serious offenses subject to disciplinary action. It is your responsibility to understand the University's policy on **academic integrity**. Please check the University's Policy on Academic Integrity in the Calendar and in other UVic sites:

<https://web.uvic.ca/calendar2018-09/undergrad/info/regulations/academic-integrity.html>

<http://www.uvic.ca/learningandteaching/students/resources/expectations/index.php>

<http://library.uvic.ca/instruction/cite/plagiarism.html>

Academic integrity is intellectual honesty and responsibility for academic work that you submit individually or as group work. It involves commitment to the values of honesty, trust, and responsibility. It is expected that students will respect these ethical values in all activities related to learning, teaching, research, and service. Therefore, plagiarism and other acts against academic integrity are serious academic offences.

### *The responsibility of the institution*

Instructors and academic units have the responsibility to ensure that standards of academic honesty are met. By doing so, the institution recognizes students for their hard work and assures them that other students do not have an unfair advantage through cheating on essays, exams, and projects.

### *The responsibility of the student*

Plagiarism sometimes occurs due to a misunderstanding regarding the rules of academic integrity, but it is the responsibility of the student to know them. If you are unsure about the standards for citations or for referencing your sources, ask your senior lab instructor and/or the course instructor. Depending on the severity of the case, penalties include a warning, a failing grade for an assignment/exam, a failing grade for the course, a record on the student's transcript, or a suspension.

*UVic is committed to promoting, providing and protecting a supportive and safe learning and working environment for all its members.*

## **LECTURE SCHEDULE**

BIOL/EOS 311 - 201809

Lectures are held in ECS 116

<b>Date Range</b>	<b>Lecture Topics</b>
Sep 6 – Sep 24	Introduction to the course
	The abiotic marine environment
	Key players: Zooplankton
	Key players: Phytoplankton
	Biological oceanographic sampling methods
	Factors regulating primary production: Light
<b>Sep 25– Sep 30</b>	<b>STRICKLAND FIELD TRIPS – No lectures or labs</b>
Oct 1 – Oct 18	Oceanographic data analysis and presentation*
	Factors regulating primary production: Light (cont.)
	Factors regulating primary production: Nutrients
	The role of micronutrients in marine productivity
<b>Oct 22 (Monday)</b>	<b>MIDTERM EXAM</b>
Oct 25 – Nov 8	Underwater observatories: Ocean Networks Canada (ONC) **
	Plankton blooms and global primary production
	Regulation of secondary production
	Key players: Microbes and viruses
	Marine food webs
<i>Nov 12 – Nov 14</i>	<i>No lectures or labs - Reading Break</i>
Nov 15 – Dec 3	Coastal and open ocean ecosystems
	Oceanography of anoxic and hypoxic basins
	Atmosphere-ocean interactions and effects on marine ecosystems
	Polar marine ecosystems
<b>Date not known yet (between Dec 8 – 22)</b>	<b>FINAL EXAM – 3 hours</b>

\* This lecture will provide the tools required for the successful completion of relevant course assignments and final report. *Do NOT miss it!*

\*\* This lecture will provide information required for the ONC lab (#7) to take place on the following week. *Don't miss it either.*

## LABORATORY SCHEDULE

BIOL/EOS 311 – 201809

Laboratories are held in PCH 107 (except when specified\*)

Date	Lab Exercise	Mark Breakdown (% of course mark)
Sep 4 – 7	<b>No labs</b>	
Sep 11 - 14	Lab 1: Marine Plankton Diversity and Abundance; Introduction to Zooplankton Field Gear	In-class assignment-1 ( <b>1.5%</b> )
Sep 18 - 21	Lab 2: Preparation for Strickland Research Cruise: <ul style="list-style-type: none"> <li>• Introduction to Study Area, Sampling Design and Cruise Logistics</li> <li>• Demonstration of Oceanographic Field Gear</li> <li>• Graphing of past CTD data</li> </ul>	In-class assignment-2 ( <b>1.5%</b> )
<b>Sep 25 – 30</b>	<b>Lab 3: Field Trips - STRICKLAND CRUISE</b>	
Oct 2 – 5	<b>No labs</b>	
<b>Oct 4 (Thursday)</b>	<b><i>Annotated Bibliography Assignment DUE*</i></b>	Take-home assignment-1 ( <b>5%</b> )
Oct 9 – 12	Lab 4: Analysis of Strickland Samples: <ul style="list-style-type: none"> <li>• Nutrient Chemistry I</li> </ul>	In-class assignment-3 ( <b>2%</b> )
Oct 16 – 19	Lab 5: Analysis of Strickland Samples: <ul style="list-style-type: none"> <li>• Nutrient Chemistry II</li> <li>• Phytoplankton Biomass</li> </ul>	In-class assignment-4 ( <b>2%</b> )
Oct 23 – 26	Lab 6: Analysis of Strickland Samples: <ul style="list-style-type: none"> <li>• Zooplankton Biomass and Composition</li> </ul>	In-class assignment-5 ( <b>2%</b> )
Oct 30 – Nov 2 *	Lab 7: Saanich Inlet Seasonality from the Ocean Networks Canada (ONC) Buoy Profiling System	In-class assignment-6 ( <b>2%</b> )
Nov 6 – 9 *	Lab 8: Saanich Inlet Abiotic Environment – Strickland Cruise 2018	In-class assignment-7 ( <b>2%</b> )

Date	Lab Exercise	Mark Breakdown (% course mark)
Nov 13 - 16	<b>No labs (Reading break)</b>	
Nov 20 – 23	<i>No formal labs, but lab instructors available during lab hours for consultations on Strickland Data Integration and Discussion</i>	
Nov 27 – 30	<i>No formal labs, but lab instructors available during lab hours for consultations on Strickland Data Integration and Discussion</i>	
<b>Dec 4 (Tuesday)</b>	<b>Strickland Project Report DUE*</b>	Take-home assignment-2 <b>(22%)</b>

\* These labs will take place in the CLE A103 computer lab

**NOTE:** For Take-Home assignments 1 & 2:

- *Due at 4:00 PM on the dates specified above.*
- *Hardcopies **and** electronic copies are required and must be identical. They are **both** due by the deadline.*
- *Hardcopies must be placed in the drop box located outside the SEOS Office (BWC A405).*
- *Electronic copies must be submitted to the assignment dropbox on CourseSpaces.*
- *Late submissions are penalized by 10% per day (note that the weekend counts).*
- *Detailed guidelines for each assignment will be posted on CourseSpaces.*

## INFORMATION ABOUT THE LABORATORY COMPONENT

BIOL/EOS 311 labs aim to provide you with:

- *Exposure to various principles in biological oceanography*
- *Opportunities to learn some techniques used in biological oceanography*
- *Skills in data acquisition, presentation, and interpretation*
- *Skills in presenting and discussing scientific information in written and oral formats*
- *Opportunities to develop critical thinking and time management skills.*

All lab exercises will be posted on CourseSpaces prior to your lab session. We will assume you have read over each lab exercise, both the introduction and procedure sections, and any related material posted prior to the start of each lab. You are expected to bring a hardcopy of these lab exercises to your lab session.

### Grading Scheme Summary

The lab portion of BIOL/EOS is worth 40% of the final course grade. The grade will be calculated as follows:

Assignments	% of final course mark
7 In-Class Assignments	13%
2 Take-Home Assignments	
Annotated Bibliography	5%
Strickland Project Report – Graphs and Discussion	22%
<b>TOTAL LAB</b>	<b>40%</b>

### Details and Deadlines

***You are expected to complete all assignment in this course.***

***However, the take-home assignments in particular must be completed to get credits for this course, failure to hand in any of the 2 take-home assignments will result in a grade of N for the course.***

Please pay attention to details and deadlines in the laboratory schedule. **Late assignments will be penalized by 10% per day**, unless there is a valid excuse with appropriate documentation (please refer to 'Academic Concessions' in the UVic undergraduate calendar). However, even if there is a valid documented excuse for submitting a late assignment, the take-home assignments must still be completed and submitted to get credits for this course.

Your assignments must be submitted as hardcopies and also in electronic format. Hardcopies of assignments must be handed in to the drop box outside the SEOS Office (BWC A405)

before 4 PM on the due date. Do not submit assignments to anyone else and do not slide them under our office doors. Electronic copies must be submitted to the assignment dropbox on CourseSpaces. Both hard and electronic copies must be identical and are both due by the specified deadline.

Challenges and queries pertaining to assignments and presentations will only be considered **for one week** after receiving your grade. Please be advised that if you request your work to be remarked, the assessment of the remarked work will be the final mark (not the higher or the average of the two marks). Please make sure to discuss any concerns with your laboratory instructor (TA) who assessed your work first. If you still have concerns afterwards, please feel free to contact the senior laboratory instructor (Sarah Thornton) and/or the course instructor, Dr. Diana Varela.

## Laboratory Attendance

***You are required to attend and participate in your weekly lab section.***

If you miss a laboratory exercise or in-class assignment without providing a valid reason and proper documentation, you will receive zero on any assignment based on that exercise.

In case of illness or family crisis, you can be excused only if you have the proper *original* written documentation such as a medical doctor's or professional counselor's note. An original note from University Health Services can also be accepted. Absence due to commitments as a UVic athlete (during official varsity events) or other official University-related events is accepted, but only with an original signed letter in advance from your team's coach. Notes related to laboratory absences should be provided to the Senior Laboratory Instructor, Sarah Thornton, in office BWC B113.

Absences due to family occasions (reunions, weddings, concerts, etc.) are not valid excuses for missed laboratories or assignments, so please do not expect concession in these cases. Unfortunately, there is no opportunity to make up a missed exercise in future weeks.

You may only attend the section for which you are registered.

***Participation in one full-day oceanographic field trip is mandatory (no exceptions).***

You will be asked to sign up for one full-day trip, which will take place during the week of **September 25<sup>th</sup> (Tuesday) – September 30<sup>th</sup> (Sunday)**. You will be informed when sign up starts.

## The Laboratory Instructor's Role

The laboratory instructor's (aka TA's) role is primarily to teach and assist in your development of laboratory skills, familiarize you with the operation of equipment and make you aware of safety-related issues.

Although instructors will describe the work to be done in each lab at the start of the session, they are not required to explain the exercise in great detail. Instead, the TAs will help direct your thinking about any questions you may have. They are not required to provide direct answers to questions on assignments either.

If you have a concern about any aspect of the laboratories, you must discuss it first with your TA. If you are uncomfortable doing this or your concern is not resolved satisfactorily, please feel free to discuss it with the senior laboratory instructor, Sarah Thornton. You can make an appointment by e-mail. You can also contact the course instructor, Dr. Diana Varela.



**Getting Extra Help:** You are welcome to contact your laboratory instructor by email if you need additional help with take-home assignments. If they are unable to answer your queries by email they may set up a time and place to meet with you. Therefore, when contacting your lab instructor by email please include suitable times in your schedule for such meetings. However, the lab instructors reserve the right to set up fixed office hours.

## **Lab Assignments and Presentations**

### **In-Class Assignments**

During the BIOL/EOS 311 labs, you will complete in-class assignments. These assignments may consist of presenting the data collected during the lab, analysis of previously collected data and/or answering questions. These assignments will be due at the end of your lab session unless otherwise specified.

### **Take-Home Assignments**

During this course, you will conduct a research project that comprises the collection of oceanographic data and samples in the field, the description of the study sites based on published literature, the analysis of samples in the lab, and the analysis and interpretation of the data. Your two take-home assignments are directly based on this data project.

*Detailed guidelines and assessment criteria for each one of the following take-home assignments will be provided in CourseSpaces. The following is just a brief summary:*

#### **Take-Home Assignment-1: Annotated Bibliography**

You will be asked to find several published papers about the oceanography of the study region, write a concise summary of each source and assess its relevance to the Strickland project. This assignment is due at 4:00 PM on Thursday October 4<sup>th</sup>.

#### **Take-Home Assignment-2: Strickland Project Report**

This is the longest and most challenging of your assignments in which you will graph the Strickland data collected in a concise and well-organized manner, and describe the trends observed. Then you'll interpret the trends and compare your findings to those in the published literature. Be sure to start this work **EARLY**. Do not leave it to the last minute... seriously! This assignment is due at 4:00 PM on Tuesday December 4<sup>th</sup>.

## Laboratory and Field Safety

Your safety is your responsibility. The course staff, the Department of Biology and the School of Earth and Ocean Sciences provide the necessary conditions and equipment to help ensure your protection from potentially dangerous situations, but ultimately you play the largest role in protecting yourself and your lab partners.

1. Wear protective laboratory clothing, (*i.e.* lab coats, safety glasses) in the laboratory as required (Labs 1, 4-6). Specifically, bring your lab coats to the Nutrient Chemistry labs, Parts I and II (you will be reminded by your TA in advance). Lab coats must not be worn outside the laboratory. Safety glasses must be worn during the Analysis Labs. Bring your own (or borrow our slightly scratched older ones).
2. Wear shoes with closed toes and heels, and non-slip soles for all Analysis/hands-on Labs (Labs 1-6). Students wearing inappropriate shoes may be denied entry to the lab.
3. Protective gloves will be available for use during the labs. Please notify your lab instructor if you are allergic to latex so that we can provide you with an alternative glove type. Be sure to remove gloves prior to touching community items such as taps or doorknobs. Dispose of used gloves as directed by your instructor.
4. Eating, drinking, or storing food are not permitted in the laboratory.
5. Long hair must be tied back in experimental settings.
6. Hands must be washed before leaving the laboratory and at any time after handling chemicals.
7. Wipe up any spills immediately. Consult the lab instructor as to any clean up or disposal of chemicals, potential biological hazards, or sharps (broken glass, used razor blades, etc.).
8. Exercise extreme caution when working on the UVic research vessel (Strickland). *Pay close attention and follow all safety rules that will be explained to you during the lab previous to the cruise and at the start of your field day.*
9. If a student has a medical condition (e.g. diabetes, epilepsy, allergies) that might require intervention on the part of the course staff, the student must inform the course instructor at the beginning of the course (this information will be kept in complete confidence).

## Academic Integrity

**Please note that submitting other people's work as one's own, whether that of a fellow student or a published author, in whole or in part, is considered plagiarism. The reuse of portions of your own work (e.g. from other reports, essays) is considered self-plagiarism also.** Committing these offences, whether or not one is caught, is inexcusable.

To avoid possible accusation of violating academic integrity, understand that:

1. Although laboratory partners are encouraged to work together in order to improve their understanding of the topics, each student must write up **all** individual assignments **independently**. Students must have the permission of the instructor before sharing data, text, or other work with **any other student**. Students must not allow others to duplicate their work without the instructor's permission. Duplicate or group assignments are not permitted without the instructor's permission. Do not provide access to your work to others. If another student submits all or parts of your assignment as his or her own, you may both be investigated for violating academic integrity.
2. Regardless of the type of information sources (books, journal articles, websites, etc.) you access (e.g. in order to provide background information or to support your arguments), **your assignment must be written in your own words. Do not copy sentences or parts thereof from the source and paste them into your assignment. Do not quote, merely re-arrange or substitute the occasional word in source material (including your own previous work), as this does not constitute original work.**
3. Properly credit any source you use by citing it within the body of the text as well as providing the full reference in the 'References' section at the end of your assignment. Please SEE NEXT PAGE on "How to Properly Reference Scientific Materials in all your Assignments for this course".
4. Provide sufficient information for the marker to check your sources. Failure to do this could raise suspicion.
5. Instructors of this course reserve the right to use plagiarism detection software or other platforms to assess the integrity of student's work.
6. Carefully read the section on "Academic Regulations" in page 3 of this Course Syllabus and consult the websites noted there.

## How to Properly Reference Scientific Materials in all your Assignments for this course

Scientific references must be cited in the main body of an assignment *and* listed at the end of an assignment.

To see how scientific references should be cited in your course assignments, look at some recent articles in the *Journal of Geophysical Research – Oceans* (JGR-Oceans) and in *Global Biogeochemical Cycles* (GBC); both are AGU journals and have the same requirements: <https://agupubs.onlinelibrary.wiley.com/journal/21699291> and <https://agupubs.onlinelibrary.wiley.com/journal/19449224>

References should be formatted following the AGU style guide at:

<https://publications.agu.org/brief-guide-agu-style-grammar/#reference>

A brief description of requirements is shown below, but see the link above for detailed instructions.

In-text citations should be given using the surname of the author and the year of publication (Author, Year). If there are three or more authors, use the *et al.* construction (Author *et al.*, Year).

The full citation for each reference at the end of your report should follow the format for *JGR-Oceans* or *GBC*. Some examples are given below.

### Journal articles:

Post, D.M., Kitchell, J.F., & Hodgson, J.R. (1998). Interactions among adult demography, spawning data, growth rate, predation, overwinter mortality, and the recruitment of largemouth bass in a northern lake. *Canadian Journal of Fisheries and Aquatic Sciences*, **55**, 2588-2600.

### Journal articles with DOI:

Tremblay, J.E., Robert, D., Varela, D.E., Lovejoy, C., Darnis, G., Nelson, R.J., & Sastri, A.R. (2012). Current state and trends in Canadian Arctic marine ecosystems: I. Primary production, *Climatic Change*, **115**, 161-178. <https://doi:10.1007/s10584-012-0496-3>.

### Entire Books:

LeBlond, P.H., & Mysak, L.A. (1978). *Waves in the ocean*, New York: Elsevier.

### Chapter of a book:

Healey, M.C. (1980). The ecology of juvenile salmon in Georgia Strait, British Columbia, In W.J. Neil and D.C. Himsworth (Eds.), *Salmonid ecosystems of the North Pacific* (pp. 203-229). Corvallis, OR: Oregon State University Press.

### Technical Reports:

Smith, J.E. (1981). Catch and efforts statistics of the Canadian groundfish fishery on the Pacific coast in 1980. *Canadian Technical Reports of Fisheries and Aquatic Sciences No. 1032*.

### Website citation:

Quinion, MB. (1998). Citing online sources: advice on online citation formats [online]. Available from <http://www.worldwidewords.org/articles/citation.htm> [accessed on 12 June 2015].