



FEDERAL UNIVERSITY OF SANTA CATARINA
GRADUATE PROGRAM IN ECOLOGY



SYLLABUS

SEMESTER 01 / 2023

1. COURSE IDENTIFICATION

CODE	COURSE	NUMBER OF STUDENTS		WORKLOAD / SEMESTER
ECO410055	Scientific writing	Min.: 4	Max.: 15	45 h (3 credits)

2. SCHEDULE

March 15th to June 8th. Wednesday afternoons (5:40 – 8:10 pm)
Lectures, exercises, and discussion will be held as on-site activities.
Room CCB-PG01 or LMF + Moodle (for supporting materials)

3. INSTRUCTORS

Prof. Bruno Renaly Souza Figueiredo (bruno.figueiredo@ufsc.br)
Prof. Dr. Eduardo Luís Hettwer Giehl (eduardo.giehl@ufsc.br)
Dr. Rafael Barbizan Sühs (rbsuhs@gmail.com)

4. COURSE OFFER

Graduate Program in Ecology or related fields

5. SYLLABUS

Theoretical and methodological bases for writing scientific texts and the process of scientific knowledge production. Tools for scientific manuscript production. Writing and reviewing scientific manuscripts in practical terms.

6. DESCRIPTION OF METHODS

The topics and proposed content will be introduced in the form of texts, lectures, and guided sessions of writing and revising manuscripts.

7. ASSESSMENT

There will be two assessments: a grade based on the marking of a scientific text produced by the student (AT), and a grade based on the analysis of anonymous reviews (AP) produced by the students on scientific texts produced by other students. The final grade will be calculated as: AT (50%) + AP (50%).
Students who obtain a final average equal to or greater than seven point zero (7.0), according to the above calculation, and who have an attendance of at least 75% of the activities of the discipline will be considered approved (Art. 50 of Resolution No. 95/CUn/2017).

8. DETAILED SCHEDULE	
When?	Topic
March 15 th	<p>Presentation of the course and the topics to be discussed. Why and for whom scientists write? (Eduardo)</p> <p>Different types of approach and their respective forms of scientific writing (observational, association, and interference studies). (Bruno)</p> <p>The importance of aims and the development of hypothesis and prediction. (Rafael)</p>
March 22 nd	<p>Theoretical basis for scientific writing. Knowledge production from published data: systematic review and meta-analysis as tools of knowledge production. (Bruno)</p>
March 29 th	<p>Finding and preparing the story of your manuscript. Word clouds, concept maps, outlines and other strategies. Underused tools in text editors (e.g. Word) (Eduardo)</p> <p>Exercise in building outlines (Eduardo)</p>
April 05 th	<p>Discussion about the result of the previous exercise. (Rafael)</p> <p>What are the sections of a typical scientific manuscript and what should each contain?</p> <p>The title page and the sequence of authors. Ethics in co-authorship. How to choose the title. Abstract. (Bruno)</p> <p>Exercise on writing titles and abstracts (Bruno)</p>
April 12 nd	<p>Discussion about the previous exercise (Rafael)</p> <p>Writing the introduction. How to write a hypothesis and its predictions (Bruno)</p> <p>Writing the introduction (Bruno)</p>
April 19 th	<p>Discussion about the result of the previous exercise (Rafael)</p> <p>Writing the Methods (Bruno)</p> <p>Writing the Methods exercise. (Bruno)</p>
April 26 th	<p>Discussion about the results of the previous exercise. (Rafael)</p> <p>Writing the Results. Discussion about Tables, Figures, Appendices or Supplementary Material (Bruno)</p> <p>Exercise about writing Results. (Bruno)</p>
May 03 rd	<p>Discussion about the results of the previous exercise. (Rafael)</p> <p>Writing the Discussion. Writing the Conclusions. What to say in the Acknowledgements? (Bruno)</p> <p>Exercise about writing a discussion. (Bruno)</p>
May 10 th	<p>Discussion about the result of the previous exercise. (Rafael)</p> <p>What should be the standard of the References? Problems about citations - Self-citation, Plagiarism, and inappropriate citations. (Bruno)</p> <p>Exercise on Zotero reference manager and its resources. (Eduardo)</p>
May 17 th	<p>Discussion about the result of the previous exercise. (Rafael)</p> <p>Paragraphs and sentences. Textual fluency.</p> <p>Self-review exercise. (Eduardo)</p>

May 24 th	Self-review and friendly revision. (Eduardo) Textual analysis and discussion exercise. (Eduardo)
May 31 st	Formal revision (peer review, referees). (Bruno) Formal proofreading exercise. (Bruno)
June 07 th	Discussion about the previous exercise and hand in the AP evaluation. (Rafael) Reproducibility via R and Markdown. (Eduardo)
June 14 th	Final discussion about reproducibility and figure production. (Eduardo)
June 21 st	Final manuscript delivery (AT evaluation)
June 28 th	Final discussion on how to prepare the final text for presentation of a thesis or dissertation or for submission of an article to a specialized journal.

9. BASIC LITERATURE

COTTRELL, A. 1999. Word processors: Stupid and inefficient. Available at <http://www.ecn.wfu.edu/~cottrell/wp.html>

HEARD, S. B. The scientist's guide to writing: how to write more easily and effectively throughout your scientific career. Princeton University Press, 2016.

SHALIZI, C. 2016. Using R Markdown for Class Reports. Available at <http://www.stat.cmu.edu/~cshalizi/rmarkdown/>

VOLPATO, G. L. O método lógico para redação científica. Revista Eletrônica de Comunicação, Informação e Inovação em Saúde, v. 9, n. 1, 2015. DOI: 10.29397/reciis.v9i1.932

VOLPATO, G. L. Bases teóricas para redação científica... por que seu artigo foi negado? UNESP, 2007.

VOLPATO, G. L. Ciência: da filosofia à publicação / Gilson Luiz Volpato. 4o ed. Botucatu: Tiponomic, 2004. 233 p.

XIE, Y. Dynamic Documents with R and knitr. CRC Press, 2015.

10. SOFTWARE

R (version ≥ 4.0): <https://cran.r-project.org>
RStudio: <https://rstudio.com/> (optional)
Zotero: <https://www.zotero.org/download>