Student-Generated Science Podcasts and Videos as a Means of Science Outreach

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COMMUNICATING SCIENCE: SCIE 300

Faculty of Science at UBC that introduces students to SCIE 300 is a new undergraduate course within the a variety of methods for communicating scientific information to diverse audiences.

COURSE GOALS

Critically

Communicate

MOTIVATION

prepares us to read an orituize scientific

2010 Source: Faculty of Science student satisfaction surveys,

COURSE DETAILS

- Three credits, one term, counts towards communication credit requirements
- Third- and fourth-year science students in the Small sections (max 25 students), 50-min classes
- Combined Major in Science program:
- Space also available for other science students









meet together workshops and used for writing skills Tuesday's class; also activities based on for discussions and Sections meet separately presentations Wednesday and Friday:

meet Sections

Monday:

projects work on for group separately

> guest speakers also used for "lecture" day; for main

SCIE 300 students select a research article from a pool of recently published papers authored by UBC faculty or graduate students. Working in groups, they deliver a multimedia blog post that includes a self-produced video and podcast about the research

SCIENCE OUTREACH PROJECT

PRODUCTION PROCESS

Select a recently published research paper

a list of additional footage they will need

Filming: students interview the

Feedback

Production: students edit their interview footage, narration, and additional footage into a podcast and video

Final submission: students embed the podcast and video

Audience: identifying the audience

Science journalism: culture of

Science blogging: strengths and eaknesses of science blogging, using

Writing skills: clarity, conciseness, quotations, active and passive voice avoiding jargon, metaphor, analogy

Imaging Agent Elaboration Boros et al. (2010) J Am Chom Soc Properties for 68Ga PET Original paper: Acyclic Chelate with Ideal

STUDENT WORK **EXAMPLES OF**

phytoplankton growth Shelford et al. (2012) Aquat Nicrob Ecol Virus-driven nitrogen cycling enhances Original paper.

arning benefits, on











Contact: For more information about SCIE 300 or about this project, please contact jandciu@mail.ubc.ca

evaluation criteria used are: creating audio and video pieces. Some told, rather than the technical aspects of Emphasis is placed on how the science story is

Project Evaluation

Blog post

Telling science stories: storytelling

COURSE TOPICS RELATED

- Writing style, clarity, intended audience • Proper attribution focus, suitability for Logical integration of audio and video
- of images and other
- Scientific accuracy Creativity digital content

Podcast and video

- Introduction/hook Quality of narration
- Flow, organization Choice of clips
- tootage, images, Proper attribution of • music, sound effects supplemental video • Clarity of conclusion Creativity message and take-home

PROJECT FEEDBACK

Students, SCIE 300

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- Researcher volunteers
- TAs: Rebecca Cheung, James Proudfoot, Hayley Dunning, Nick Fishbane



place of mind