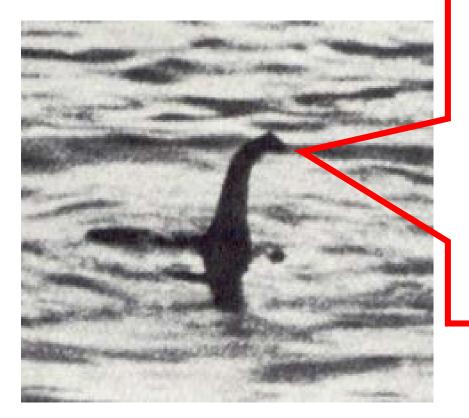
ESSE: Essential Studies Synthesis Experience



Aaron Scher May 25, 2017



ESSE: Essential Studies Synthesis Experience



• Essential studies program

- New general education program that support student's development in 6 ESLOs.
- Culmination of 3 year long university wide review process.
- Endorsed by Faculty Senate and Oregon Tech's Executive Staff (April 2016)
- ESSE
 - Junior level, three-credit, project-based course that combine 6 ESLOs.



So, how do you define, design, and implement junior level, cross-disciplinary, project-based class at Oregon Tech?

Answer: Go to Massachusetts

CENTER FOR PROJECT-BASED LEARNING

Worcester Polytechnic Institute













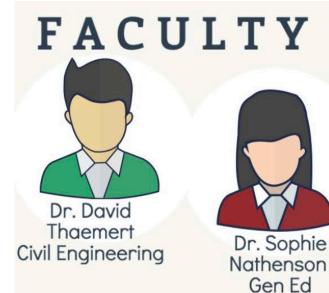


2016 Institute Project-Based Learning

> Chemist Librarian Statistician Marketer Electrical Engineer Accountant



How the ESSE works



S T U D E N T S

- Junior-standing students select the ESSE
- Students from two different departments
- Can't be prescribed by major

- At least two faculty
- Two different academic departments
- One from General Education Department



What happens within an ESSE course?

Students start with researching, reading and discussing background. The process is guided by faculty.

Students break into teams, narrowing in on a particular approach to tackle their ESSE problem. Most of the class time is spent working in teams, with regular check-report and an oral ins and meetings with faculty. At the end of the term, students prepare a written presentation, outlining proposed

3

At the end of the term, students prepare a written presentation, outlining proposed solutions and/or recommendations. The final project will demonstrate the expression of the six ESLOs.

4

A couple sample ESSEs



Annual competition that is hosted by the Biomimicry Institute where interdisciplinary teams address critical global issues with nature-inspired solutions. This year's theme is global climate change. The challenge is to create a nature-inspired innovation that combats climate change by either helping communities impacted by climate change and/or decreasing or reversing the effects of climate change itself.



Students research for what makes for a successful makerspace and develop a makerspace plan for Oregon Tech. Students examine and address issues related to makerspaces including governance, funding, tools, safety, marketing, organization, operation, access, layout, and curricula integration.







HASSO PLATTNER Institute of Design at Stanford