Improving Undergraduate Oral Communication of Research Results Michael Guidry, Oceanography and Yao Z. Hill, Assessment Office

Global Environmental Science (GES) Program Details

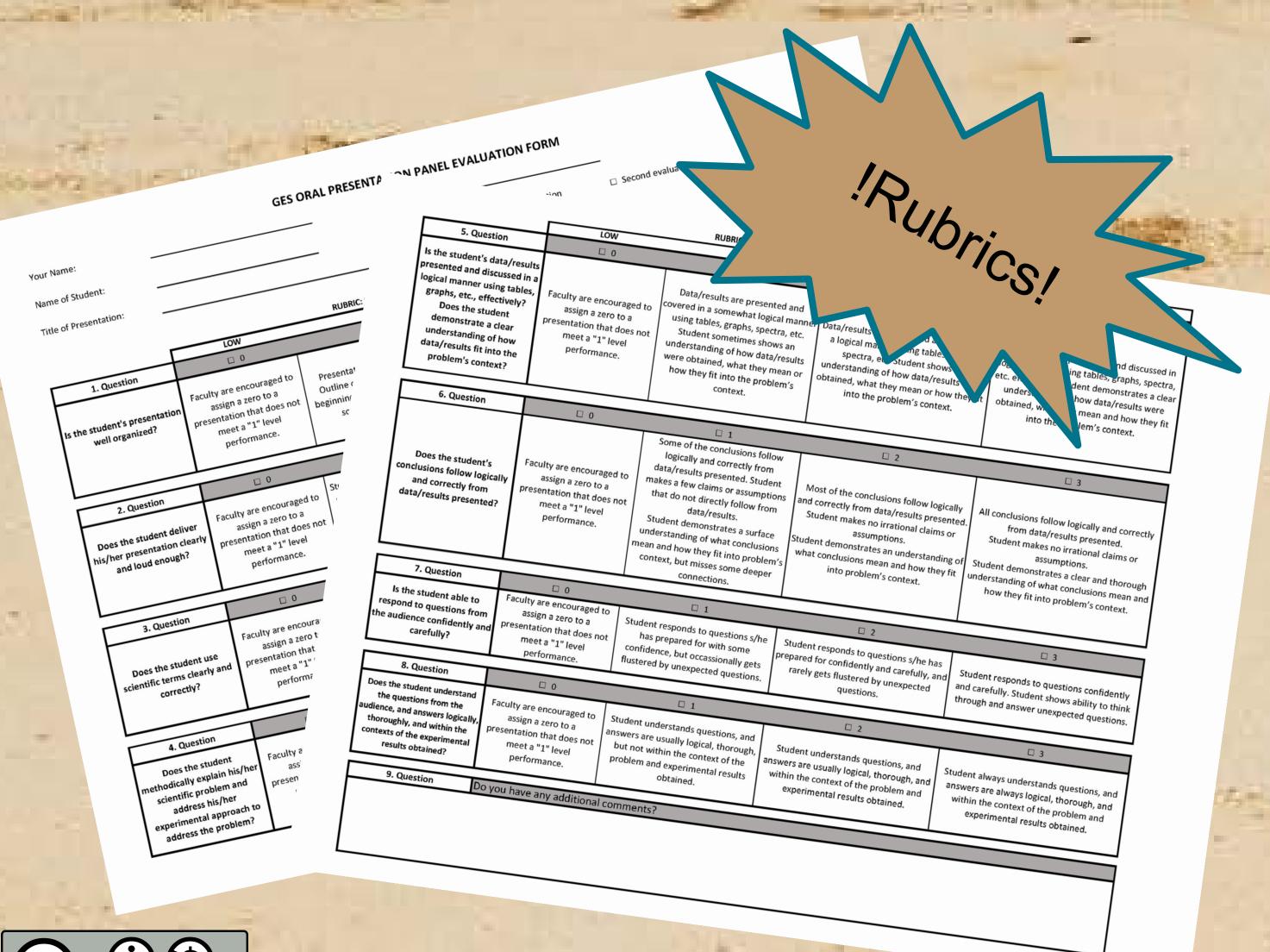
- ~85 students and ~15 graduates per year (first graduate in 2000)
- Supported by 30 Oceanography faculty
- Degree requires students complete an environmentally-related
 - > UHM faculty-mentored undergraduate research experience
 - > Publicly-delivered, oral presentation of research results
 - > Written thesis

Target Student Learning Outcome

Demonstrate skilled delivery of wellorganized informal and formal oral presentations

Oral Presentation Assessment Challenges

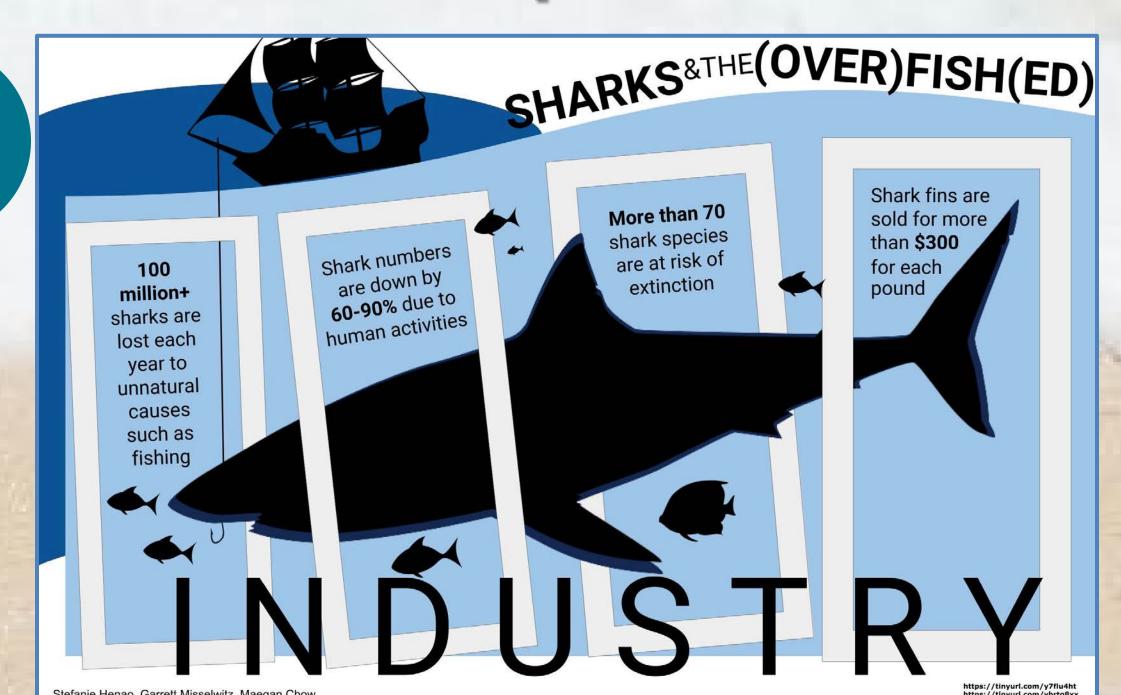
- Feedback primarily from student's faculty mentor
- No assessment mechanism for student other than mentor input
- Lacked of systematic, quantified evaluation for student and GES program to help improve student outcomes and curriculum



Curriculum-Assessment Improvements

Oral Pitch Exploring Research Topic

In OCN 100: Global Env. Science Seminar, the requirement has changed from students giving a PowerPoint presentation of their research topic to a 3-minute compelling pitch using infographics.



2 Hardwire Curricular Oral Presentation Training

Students receive presentation training, strategies, and practice time in OCN 490: Communication of Research Results. They begin preparing their GES Symposium presentation in this course.

Added Expert Feedback on Talk Rehearsal

In addition to getting feedback from their mentor, students now receive feedback from two designated "assessors," who give global & slide-by-slide feedback using a detailed rubric.



GES Symposium Presentation

Through the publicly attended GES Symposium, students experience presenting their research to, and answering questions from, a real academic audience. They receive graded rubrics at the end.

Oral Presentation Results (Scale 0 - 3)



• 98% SCORED HIGHER

on symposium vs. practice presentation

• 100% SCORED > 2 and 88% SCORED > 2.5

on symposium presentation

Insights

- Over the last 2 years, GES students won 2 first place and 1 honorable mention awards at UHM Undergraduate Showcase
- Students benefit from the scaffolded curricular experience
- Faculty from 8 units (OCN, ES, HIMB, PBRC, HNEI, HIGP, ATMO, ORE) have enjoyed participating in the practice sessions and completed 40+ expert evaluations over the last two years

Next Steps

- Give students the evaluation rubric when they enter the program and throughout the program (OCN 100, OCN 490)
- Record "model" presentations, note why they are exemplary, and have students, pre-presentation, watch and evaluate

