

GLOBAL ENGINEERING LONG TERM PLANS

Version 2.0

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(1) CURRICULUM ENHANCEMENT

Current State

. Working with various departments on course content

. No well-defined exit strategy for existing courses with GE content

. Chapter definition of a global engineer established

. In some communications with Dean Sullivan and interested professors

. CEAB has recently created new requirements

1 GE Courses

(1) Create an outline of what a GE course contains: content, pedagogy etc.

(2) Find partners who can aid in developing a GE course

(3) Pitch to faculty using CEAB requirements, relying on policy, students, and corporate buy-in

2 Sustaining current courses

(1) Use feedback on piloted content to ensure successful integration of existing content

(2) Work with faculty to develop exit strategies

(3) Replicate approaches to get GE into remaining departments

3 Faculty Partnerships

(1) Define GE to larger group of faculty through lunch and learns etc.

(2) Leverage CEAB requirements to create faculty demand for GE education

(3) Have GE-interested profs advocate their interest to others

4 Student Engagement

(1) Make sure students experience GE outside of class through EWB

(2) Show students difference between GE/non-GE course; create demand among students

(3) Use positive student reaction to garner faculty interest

Future State

. One or more Global Engineering course or option

. Developed GE content is the standard for each department

. Dean Sullivan and chairs have active dialogue with chapter

. Students interested in GE are engaged

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(2) UNIVERSITY ENGAGEMENT AND AWARENESS

Current State

- . Campaigns like National Engineering Month are main focus
- . Students and faculty have a vague idea of GE and it's definition
- . Class presentations performed for several terms
- . Some outreach events such as poster campaigns

1 Defining GE

- (1) Always use standard definition
- (2) Improve chapter education of GE so members can educate public
- (3) Use events and outreach to ensure GE is well-known on campus

2 Student Awareness

- (1) Give GE pres. at events: Frosh week, etc.
- (2) Show students how current eng. education lacks GE skills
- (3) Create GE "Certification" for EWB education: learning sessions, events, talks etc.

3 GE Network

- (1) Find partners interested in improving education
- (2) Create external group of GE partners: Faculty, students, etc.
- (3) Work with external partners to have greater influence on stakeholders

4 National Office Relations

- (1) Collaborate with NO on GE events to have wider impact
- (2) Ensure that chapter is stays updated on what NO is doing regarding GE
- (3) Increase communication with other chapters who have had success regarding GE

Future State

- . Majority of students and faculty know and can explain GE
- . Presentations engage each incoming year of students
- . Campaigns involve other groups and offices other than EWB
- . Visibly promote GE on campus by EWB and partner groups
- . EWB promotes GE related activities on campus
- . Chapter initiatives are coherent with national strategy

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(3) CO-OP AND CAREER

Current State

- . No engagement with CECA
- . Some co-op jobs would be "GE" but are not identified
- . No communications with employers or students through co-op
- . Some corporate engagement - GE discussion limited
- . Have large co-op and entrepreneurial culture in Waterloo

1 CECA Engagement

- (1) Build internal database of GE jobs available
- (2) Learn more about how CECA works; Build relationships with CECA
- (3) Prove that CECA should look for more GE jobs: employer/student surveys

2 Corporate Partners

- (1) Lunch & Learns: Define GE, why they should look to hire GE skills
- (2) Find recruiters who want to hire GE skills: use to advertise GE/lobby CECA
- (3) Develop set of GE interview questions and present to CECA/employers

3 Student Engagement

- (1) Create definition of GE jobs : provide examples (JF's)
- (2) Make GE jobs accessible: weekly email postings; feature profiles
- (3) Have GE come up as a topic at all EWB events- GE solutions to other problems

4 Incorporating GE into available jobs

- (1) Talk to current employers about incorporating GE into positions
- (2) Search for ways to make regular jobs more GE: side projects etc.
- (3) Develop tools to give to students on how to make their jobs more GE friendly

Future State

- . CECA lobbied to promote "GE" student skills
- . Corporate partners consulted and support GE skills
- . Chapter events promote GE to students and employers
- . Database of "GE approved" co-ops and opportunities