

Proposal | CSE 1002: Project-based Inquiry

Course Title: CSE 1002: Project-based Inquiry

Term(s) offered: Spring semester

Prerequisites: CSE 1001

Credits & grading: 1-2 credits, A-F

Catalog Description:

This course engages students in a faculty-mentored investigation. Working individually or as a team, students choose a field of study that aligns with the instructor's interests. Students negotiate deliverables and conduct an open-ended investigation into the topic of interest, develop a physical model and present results and findings.

Textbook(s)/Required Materials: none

Prepared by: Frank Kelso, Paul Strykowski

Date of preparation: January 13, 2014

Course Leader(s): Frank Kelso, Paul Strykowski

Class Schedule:

One 50 minute lecture each week

Course Topics:

Research and investigation topics of interest, as identified by instructor

Course Objectives:

1. Formulate basic question(s) to be investigated
2. conduct an open-ended investigation
3. develop a physical model or prototype

Course Outcomes:

At the conclusion of the course, students will have

1. experience in designing, conducting and documenting a scientific investigation
2. experience developing oral and written summaries of work progress and results
3. contributed to the Spring CSE Expo

Assessment Tools:

1. attendance
2. intermediate report
3. final report
4. model or prototype
5. Project presentation / demonstration