SAN JOSÉ STATE UNIVERSITY

"da Vinci Day" Recognizing Teaching Innovation at SJSU

Innovative Teaching – Course Redesign project (ITCR)

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METR 12: Global Warming

Examination of past, present and future climates. Examination of global warming and mitigation strategies.

Brief description of the course and its place in the curriculum

METR 12 is a GE course (Area B2) and a required course for Meteorology students with a concentration In Climate Science. The course was first developed three years ago and enrollment is growing as we now offer three sections per semester. The class size is typically capped at 50 because of the room size, but we'd like to offer at least one large section if we can secure an appropriate room.

Summary of course re-design activities

I would like to teach this course using the 'flipped' class approach so that students would get more hands on science experience through in-class activities and projects.

I have just completed a section of another GE course (METR 112) where I used the 'flipped' model for the first time. This enabled me to work more closely with students. Initial assessment data shows Improved student achievement.

To redesign this course, I plan to:

1) Take my existing Powerpoint lectures and produce videos that students can watch online;
2) Revise and expand on my existing set of in-class experiences (e.g. activities, projects, discussions etc.);
3) Revise existing evaluation instruments;
4) Develop a plan for seeking student feedback throughout the semester.