The CSUMB Campus Transportation System: Analysis and **Encouragement of Alternative Transportation Options**







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Students this fall participating in a community "traffic calming" meeting in the City of Salinas.

Two classes involved



Infrastructure Systems, spring



Sustainability Systems, fall



Define and describe a system. -Give examples of systems in your everyday life. -State and describe principles of



In 2015, the entire Systems class fills a city bus to capacity to visit the Salinas field site.





Weekly readings and assignments, each addressing some aspect of our infrastructure, span many of the topics shown above. Weekly panels of regional experts provide a context for on-the-ground activities associated with each area discussed. This class involves a group-based project.

What is the Sustainable City Year Program?

A partnership between universities and government entities where multiple class projects across campus are developed based on one entities' sustainabilityrelated needs. While this is not a part of the CALL grant, both classes participated in both CALL and SCYP for both an on-campus and off-campus lab experience.

Schools across the country (currently approximately 30) and internationally follow this model. They are a part of the Educational Partnerships for Innovation in Communities Network (EPIC-N).



Both classes during the 2015-2016 academic year participated in BOTH programs!

system function. -Model system dynamics. -Complete a relevant project that involves systems modeling.

Living Lab and Sustainable City Year Program become a part of the picture

What is the Campus as a Living Lab Program?

The Campus as a Living Lab Grant Program provides funds for teams of faculty and facilities staff to develop or redesign a course that ties elements of sustainability into opportunities for learning using the campus physical plant.



2015-2016 Campus Partnership: **CSUMB** Campus Planning Department





Example of a systems model to examine the possible effects of the road diet



Regional governing entity: The City of Salinas, Dept. of Public Works



City of Salinas SCYP Project:

Implications of the West Alisal "road diet" and how it affects regional stakeholders.

View of West Alisal Street and locations of vehicle counters









A survey of bike rack locations on the CSUMB campus



SCYP Program Fall 2015 and Spring 2016 Projects

- "Attractiveness" of driving -Speed of traffic -Bike lane availability and its effects on number of bikers -Safety of pedestrians -Time to cross streets -Effects of bus only lane -Lighting, crosswalk, and sidewalk conditions. -Survey of local business and regional community college reaction to road diet.

What next?

EcoCounter bike counter selected by class and Campus Planning over the ZAP bike counter. It will be installed December, 2016.

The SCYP program continues and classes from across campus participate with the chosen city partner, including the two classes presented here.

A new capstone class for Environmental Studies students is now underway which employs both CALL and SCYP-based projects each fall.

CSUMB Campus Planning Student Outreach Coordinator, Bernard Green, sets up a video traffic counter borrowed from the City of Salinas to count campus cars, bikes and pedestrians. Campus Planning supplied these data and support for both classes.

CSUMB CALL Projects Fall 2015 - Spring 2016

Parking and Driving

-How do commuters use parking lots?

-How are the most impacted lots utilized?

-Are students from a nearby residence hall using their cars to get around campus? -Car counts (both via video and standard).

Biking

-Which bicycle counters would be the best for the campus to purchase? -What would be the best location(s) to place bicycle counters? -What are campus perceptions of sustainable transportation and biking?

-Which policies and regulations would tend to discourage driving and encourage other forms of transportation?

- Where are the bike racks on campus and how fully used are they?

- During rush hours, how many pedestrians and bikers cross some busy intersections near campus?



The author and several leaders of the EPIC-N national program at the 2016 EPIC-N yearly conference at San Diego State University.