

eLearning = Green Learning



What can we do to reduce carbon emissions and offset education expenses?

Some Ideas:

- 🌱 *Replace 1 day of commuting to campus with assignments completed using Blackboard CE 8 and/or Elluminate for your web-supplemented or online class.*

Result:

458.49 pounds LESS of CO₂ emission per student, per semesterⁱ
\$75.31 LESS gas cost per student, per semesterⁱⁱ
60 minutes LESS commute time per studentⁱⁱⁱ

- 🌱 *Replace 2 day of commuting to campus with assignments completed using Blackboard CE 8 and/or Elluminate for your web-supplemented or online class.*

Result:

916.98 pounds LESS of CO₂ per semester^{iv}
\$150.62 LESS gas cost per semester^v
2 hours LESS commute time per student^{vi}

- 🌱 *If the 46% of SJSU students who drive solo to campus replaced 1 day of commuting to campus with assignments completed using Blackboard CE 8 and/or Elluminate for their web-supplemented or online class, the result:*

6,351,003.48 pounds (2862.99 tonnes) LESS of CO₂ a semester^{vii}
\$1,043,194.12 LESS gas cost to our students per semester^{viii}

San Jose State, as a member of the CSU system and the largest higher learning institution in the Silicon Valley, strives to be a leader in online learning, environmental sustainability, and student satisfaction. Please consider that the endless eLearning possibilities offered to San Jose State students through eCampus can contribute directly to all these goals. **eLearning = Green Learning!**

ⁱ Carbon emission calculated as (miles driven/fuel efficiency) x 19.4 (the CO₂ coefficient as stated by the EPA at <http://www.epa.gov/oms/climate/420f05001.htm#calculating>) = CO₂ lbs. Mile driven assumed at 28.24 a day per SJSU A.S. Transportation Solutions, *Fall 2008 Student Commute Survey Report*. Fuel efficiency assumed at 20.3 per U.S. Dept. of Transportation at <http://www.fhwa.dot.gov/policy/ohim/hs05/hm/nt6.htm>. Semester = 17 weeks.

ⁱⁱ Gas cost calculated as miles driven/fuel efficiency (same assumptions as above) x 3.04 (average cost of gas in CA using EIA data at http://www.eia.doe.gov/oil_gas/petroleum/data_publications/wrgp/mogas_home_page.html for 8/17/09-8/31/09).

ⁱⁱⁱ SJSU A.S. Transportation Solutions, *Fall 2008 Student Commute Survey Report*.

^{iv} Same assumptions as note 1, multiplied by 2.

^v Same assumptions as note 2, multiplied by 2.

^{vi} Same assumptions as note 3, multiplied by 2.

^{vii} Using the same assumption from note 1 multiplied by 42.3% of the entire SJSU student body, reported as 32,746 by San Jose State University, *SJSU Facts and Figures 2008-2009*. <http://www.oir.sjsu.edu/Students/QuickFacts/default.cfm?version=graphic> 42.3% being the percentage of students commuting to campus alone as stated by SJSU A.S. Transportation Solutions, *Fall 2008 Student Commute Survey Report*, or 13,852 students.

^{viii} Using the same assumption from note 2 multiplied by 42.3% of the entire SJSU student body, reported as 32,746 by San Jose State University, *SJSU Facts and Figures 2008-2009*. <http://www.oir.sjsu.edu/Students/QuickFacts/default.cfm?version=graphic> 42.3% being the percentage of students commuting to campus alone as stated by SJSU A.S. Transportation Solutions, *Fall 2008 Student Commute Survey Report*, or 13,852 students.

Calculations:

$(28.24/20.3) \times 19.4 = 1.39 \times 19.4 = 26.97$ lbs of CO₂ per trip

$26.97 \times 17 = 458.49$ CO₂ per semester, per student

$1.39 \times 3.04 = \$4.43$ cost of gas per trip

$\$4.43 \times 17 = \75.31 cost of gas per semester per student

$458.49 \times 13,852 = 6,351,003.48$ lbs CO₂ by percent of student body driving each semester

$\$75.31 \times 13,852 = \$1,043,194.12$ cost of gas by percent of student body driving each semester