

IRA THREE-YEAR PROGRAM REVIEW QUESTIONS

College of ECC

Please answer the following questions for review by the IRA Advisory Committee. Limit your responses to no more than a total of two typed pages.

1. All IRA funded programs are outgrowths of the CSU, Chico educational curriculum. The IRA fee revenue dollars fund co-curricular activities to further the educational opportunities of students.

- a. List each of your IRA programs and its faculty advisor.

Program	Department	Faculty Advisor
Steel Bridge	CIVL	Jared DeBock
Geo Challenge Team (ASCE Mid-Pac Student Conference)	CIVL	Jared DeBock
Concrete Canoe	CIVL	Ken Derucher
Water Treatment Team	CIVL	James Scolaro
Sustainable Engineering and Environmental Health Development (SEEHD)	CIVL	Stew Oakley
Human Powered Vehicle	MMEM	Chris Gallagher
Supermileage Vehicle	MMEM	<i>NOT ACTIVE</i>
Formula SAE IC	MMEM	Daisuke Aoyagi
Formula SAE Electric	MMEM	Josh Miranda
SME Manufacturing Challenge	MMEM	Scott Brogden.
Baja SAE	MMEM	Dennis O'Connor
Intelligent Ground Vehicle	MMEM	<i>NOT ACTIVE</i>
Engineers for Alternative Energy	MMEM	Greg Kallio
IEEE Micromouse	EECE	Hadil Mustafa
Video Animation	CAGD	Clarke Steinback
ACM Programming Contest	CSCI	Bryan Dixon
Construction Competition	CMGT	Chris Souder

- b. Explain how each IRA program relates to your college/unit's educational mission and how co-curricular activities impact the college/unit and the students.

Program	Relate to Education Mission and Impact
Steel Bridge competition	Reinforce hands-on experience in learning, apply engineering knowledge in practical design and construction of bridge structures.
Geo Challenge Team (ASCE Mid-Pac Student Conference)	Increase knowledge and technical skill of designing and constructing mechanically stabilized earth retaining wall.
Concrete Canoe	Reinforce hands-on learning, practice design concepts and construction of reinforced concrete.
Water Treatment Team	Acquire hands-on experience and practical knowledge of water resources and treatment methods.
Sustainable Engineering	Increase awareness of various aspects of social issues and

and Environmental Health Development (SEEHD)	societal responsibilities. Learn to develop communities, provide economical engineering and sustainable environmental health solutions in the areas of water supply, sanitation, energy, and shelter
Human Powered Vehicle	Application of engineering knowledge in energy conversation and applications.
Supermileage Vehicle	Application of engineering knowledge in energy conversation and applications.
Formula SAE IC	Reinforce hands-on learning, apply engineering knowledge in internal-combustion vehicle design.
Formula SAE Electric	Reinforce hands-on learning, apply engineering knowledge in electric vehicle design.
SME Manufacturing Challenge	Integrate and apply manufacturing design, planning, and technology in projects.
Baja SAE	Reinforce hands-on learning, apply engineering knowledge in vehicle design and construction.
Intelligent Ground Vehicle	Reinforce hands-on concept and apply knowledge in smart system design and construction.
Engineers for Alternative Energy	Acquire knowledge and increase awareness of alternative energy and sustainability
IEEE Micromouse	Reinforce hands-on concept and applied knowledge in control and smart systems design.
Video Animation	Increase knowledge of technology and skills in video animation.
Assoc. Computing Machinery (ACM) Programming Contest	Apply learning of computer programming in problem solving.
Construction Competition	Reinforce hands-on experience and apply knowledge in construction planning and management.