



ANNUAL ACTIVITY/PROGRAM REVIEW: COLLEGE OF ENGINEERING, COMPUTER SCIENCE, AND CONSTRUCTION MANAGEMENT

The IRA Advisory Committee is responsible for the oversight of approved IRA activities/programs. This template will enable the committee to evaluate activities/programs at a high level.

Please submit by **October 31, 2021** to Kim Williams at kwilliams@csuchico.edu

Signature of Associate Dean: 

Print Name: Seema Sehrawat

Date: 11-03-2021

1. Please complete the following information for your college/unit's approved IRA activities/programs:

Approved IRA Activity/Program	Faculty Advisor	Website*
American Concrete Institute (ACI) Student Chapter	Mohammed Albahtiti	https://www.csuchico.edu/cim/student-resources/aci.shtml
Association for Computing Machinery (ACM) Programming Contest	Bryan Dixon	https://icpc.global/regionals/finder/Pacific-Northwest-2021
Baja SAE	Dennis O'Connor	https://www.csuchico.edu/mmem/student-organizations/sae.shtml
Chico State Rocketry and Aerospace Club	Dennis O'Connor	https://www.csuchico.edu/mmem/student-organizations/chico-rocketry-and-aerospace-club.shtml
Collegiate Penetration Testing Competition (CPTC) Western Region	David Zeichick	https://cptc-west.stanford.edu/
Concrete Canoe	Kun Zhang	
Construction Competition Team	Alan Bond	http://www.csuchico.edu/cm/student-act-achievements/asc-student-competition.shtml
Earthquake Engineering Research Institute (EERI) Student Chapter	David (Jared) Debock	https://csuchico.campuslabs.com/engage/organization/eeri
Engineers for Alternative Energy (to be more inclusive, club changed name to Alternative Energy Club)	David Alexander	https://www.csuchico.edu/mmem/student-organizations/eae.shtml
Formula SAE	Harold Koehler	https://www.csuchico.edu/mmem/student-organizations/sae.shtml
Formula SAE Electric – inactive since 2018-19	Joshua Miranda	

GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	Jared Debock	Website for this year's competition is not yet created. UD Davis to host.
Micromouse	Hassan Salehi	http://www.micromouseonline.com/
Steel Bridge	Jared Debock	https://www.csuchico.edu/ce/resources/student-organizations.shtml
Sustainable Engineering and Environmental Health Development (SEEHD)	Stewart Oakley	https://www.csuchico.edu/ce/resources/student-organizations.shtml
Unmanned Aerial Systems Team	Hassan Salehi	
Water Treatment Team	Jackson Webster	h

***All IRA activity/program websites require the placement of the official IRA logo on each page of the site. A high-resolution logo is included in the email with this form.**

College/Unit	IRA Prior Year (2020-21) Carryover	IRA Current Year (2021-22) Baseline Allocation	IRA Carryover as Percent of Baseline
College of Engineering, Computer Science, and Construction Management	\$76,817.19	\$125,000	61.45%

For AY 2020-2021, due to COVID-19 pandemic, travel restrictions and most competitions being cancelled, we only spent \$13,813.37. We were left with a large carryover, which is unusual.

- List the total dollar amount allocated from the college/unit to each activity/program (actual expenses in T6300 which may include those for Exemplary Performance or one-time funding). Other sources should be entered in the "Other Sources of Funding" column. **Do not include Work Study (#3).**

For AY 2021-2022, we have received proposals from nine IRA certified clubs and have allocated the \$125,000 for these nine clubs. Additional \$9,000 was also allocated to the Construction Competition Team from the carryforward balance from AY 20-21. Further, Student participation is low in the remaining clubs due to the pandemic and seven of our certified clubs are still trying to recruit members to participate in competitions during Spring Semester. Therefore, we have held the remaining carryforward amount of \$40,860.46 to allocate during Spring 2022. Clubs are given two deadlines to submit proposals for the remaining funds, i.e. December 5th and Feb 5th, this way they will have an opportunity to still receive funding to compete during Spring 2022.

Approved IRA Activity/Program	IRA Prior Year (2020-21) Baseline Allocation	IRA Current Year (2021-22) Baseline Allocation	IRA Prior Year (2020-21) Actual Expenses	Other Sources of Funding (RF, UF, GF, etc.)	Notes (explain the differences in baseline and actuals, etc.)
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American Concrete Institute (ACI) Student Chapter	\$2300	\$0	\$0	\$	Due to the pandemic competition was cancelled in AY 2020-2021.
Association for Computing Machinery (ACM) Programming Contest	\$500	\$8000	\$0	\$0	Due to the pandemic competition was cancelled in AY 2020-2021.
Baja SAE	\$15000	\$33000	\$4882.53	\$119470 (Cash and equipment/s oftware donations)	Due to the pandemic competition was cancelled in AY 2020-2021. Students used IRA monies to buy materials to practice and knowledge building. Remaining funds from 2020-2021 (\$10,117.47) will carryforward for AY 2021-2022.
Chico State Rocketry and Aerospace Club	\$ 5872	\$12000	\$ 1947.08	\$3450	Due to the pandemic competition was cancelled in AY 2020-2021. Students used IRA monies to buy materials to practice and knowledge building. Remaining funds from 2020-2021 (\$3924.92) will carryforward for AY 2021-2022.
Collegiate Penetration Testing Competition (CPCT)	\$	\$	\$	\$	
Concrete Canoe	\$2010	\$	\$0	\$	Due to the pandemic competition was cancelled in AY 2020-2021.
Construction Competition Team	\$5000	\$19000	\$4898.10	\$16100	
Earthquake Engineering Research Institute (EERI) Student Chapter	\$	\$	\$	\$	
Engineers for Alternative Energy	\$0	\$5000	\$	\$1000	
Formula SAE	\$ 15000	\$33000	\$ 2085.66	\$33500	Due to the pandemic competition was cancelled in AY 2020-2021. Students used IRA monies to buy materials to practice and knowledge

					building. Remaining funds from 2020-2021 (12,914.34) will carryforward for AY 2021-2022.
Formula SAE Electric – <i>inactive since 2018-19</i>	\$	\$	\$	\$	
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$0	\$9000	\$	\$1000	
Micromouse	\$0	\$6000	\$	\$	
Steel Bridge	\$0	\$	\$	\$	
Sustainable Engineering and Environmental Health Development (SEEHD)	\$0	\$	\$	\$	
Unmanned Aerial Systems Team	\$0	\$	\$	\$	
Water Treatment Team	\$800	\$	\$0	\$	Due to the pandemic competition was cancelled in AY 2020-2021.
Baseline held for future allocation (i.e., spring semester, one-time purchase, etc).	\$30335.19	0	\$0	\$	Unused funds from AY 2020-2021 () and remaining unallocated funds from AY 2021-2022 () are set aside to be spent during Spring 2022 as several IRA clubs are in the process of rebuilding membership and competition teams after the Pandemic.
Total Allocation*	\$76817.19	\$125000.00	\$13813.37	\$174520	

*** Must equal total IRA current year baseline allocation as shown in #1 above.**

Please note: Budget transfers to activities/programs are required at the program level by September 30th each year. Additionally, the IRA Advisory Committee recommends determining all activity/program budget amounts by June 30th for the following year.

3. List the total IRA Work Study dollar amount allocated for each activity/program.

None of the ECC IRA clubs avail Work Study dollars at this point.

Approved IRA Activity/Program	2021-22 IRA Work Study Allocation	2020-21 Year IRA Work Study Actual Expenses
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American Concrete Institute (ACI) Student Chapter	\$	\$
Association for Computing Machinery (ACM) Programming Contest	\$	\$
Baja SAE	\$	\$
Chico State Rocketry and Aerospace Club	\$	\$
Collegiate Penetration Testing Competition (CPCT)	\$	\$
Concrete Canoe	\$	\$
Construction Competition Team	\$	\$
Earthquake Engineering Research Institute (EERI) Student Chapter		
Engineers for Alternative Energy	\$	\$
Formula SAE	\$	\$
Formula SAE Electric – <i>inactive since 2018-19</i>	N/A	N/A
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$	\$
Micromouse	\$	\$
Steel Bridge	\$	\$
Sustainable Engineering and Environmental Health Development (SEEHD)	\$	\$
Unmanned Aerial Systems Team	\$	\$
Water Treatment Team	\$	\$

4. Estimate student participation for each activity/program for this academic year (e.g., an activity has 15 members but only 10 attend competitions and incur expenses). Not all columns may apply to your activity/program. Do not include students attending/served by activities/programs.

- a. Provide the following on estimated student involvement:

Please note that this report does not capture out of pocket cost for faculty advisors for IRA clubs.

Approved IRA Activity/Program	<i>Estimated # of Students Participating in Activity/Program</i>	<i>Estimated # of Students Incurring Costs</i>	<i>Estimated Per Student Out-of-Pocket Cost</i>
American Concrete Institute (ACI) Student Chapter	30	10	\$1000
Association for Computing Machinery (ACM) Programming Contest	16	16	\$0 if IRA is funded
Baja SAE	58	30	\$1000
Chico State Rocketry and Aerospace Club	10	10	\$300-\$500
Collegiate Penetration Testing Competition (CPCT)			
Concrete Canoe			\$
Construction Competition Team	51	48	\$665
Earthquake Engineering Research Institute (EERI) Student Chapter			

Engineers for Alternative Energy	10	0	\$
Formula SAE	50	20	\$600
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	10	6	\$250
Micromouse	8	4	\$200
Steel Bridge			\$
Sustainable Engineering and Environmental Health Development (SEEHD)			\$
Unmanned Aerial Systems Team			\$
Water Treatment Team			\$

b. Please list all known competitions/performances/events expected of each activity/program for this academic year:

Approved IRA Activity/Program	Name of Competition, Performance, Event, etc.	Location	Date	Estimated # of Students Directly Participating in Competitions, Performance, Events, etc.
American Concrete Institute (ACI) Student Chapter	ACI Convention	East Coast	spring	10
Association for Computing Machinery (ACM) Programming Contest	ICPC PNW Regional Local ACM contest	Unknown	S22	16
		Chico State	Nov 21	20+
Baja SAE	2022 SAE Baja Eastern Collegiate Competition	Palmyra, NY	5/29/22-6/8/22	10
Chico State Rocketry and Aerospace Club	Spaceport America Cup	Las Cruces, New Mexico	June 21-25	10
Collegiate Penetration Testing Competition (CPCT)				
Concrete Canoe				
Construction Competition Team	Associated Schools of Construction (ASC) Student Competition	Sparks, NV	February 9-12, 2022	48

Earthquake Engineering Research Institute (EERI) Student Chapter				
Engineers for Alternative Energy	California Solar Regatta	Rancho Seco Reservoir CA	5/12 - 5/13	10
Formula SAE	Formula SAE Michigan	Michigan International Speedway	June 15-18	20
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	ASCE Student Geo-Challenge Competition	UC Davis, CA	March 31- April 2, 2022	10
Micromouse	California Micromouse Competition	UC San Diego	May	4
Steel Bridge				
Sustainable Engineering and Environmental Health Development (SEEHD)				
Unmanned Aerial Systems Team				

Water Treatment Team				
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2. Please provide updated information for each of your activities/programs as requested in the tables below and provide appropriate explanations.

Approved IRA Activity/Program	Are any activities/ programs inactive or defunct? If yes, please explain.	Has student participation increased or decreased for any activity/ program? If yes, please provide the percentage and explain.	Has any activity/program's allocation or expenses significantly increased or decreased (5-10%)? If yes, please provide the percentage and explain.
American Concrete Institute (ACI) Student Chapter	no	Decreased 50% Due to covid	Increase 100% Due to covid
Association for Computing Machinery (ACM) Programming Contest	No	0%	1000%
Baja SAE	no	10% decrease, Covid	20% increase, more in house machining and outsourced chassis
Chico State Rocketry and Aerospace Club	No	Decreased by 40% Due to covid	Increased ~100% Due to having to buy all new equipment/parts for competition.

Collegiate Penetration Testing Competition (CPCT)		%	%
Concrete Canoe		%	%
Construction Competition Team	No	0%	168% increase since the competition is back in person
Earthquake Engineering Research Institute (EERI) Student Chapter		%	%
Engineers for Alternative Energy	No	Decrease of 50%, Covid	Increase ~25%, Parts and manufacturing
Formula SAE	no	Decrease 70% Due to covid and no access to campus	Increase 10% Due to further competition, equipment expired
Formula SAE Electric – <i>inactive since 2018-19</i>		%	%
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)		Decrease 70% Due to covid and no access to campus	%

Micromouse	No	Increase 60% Last team graduated and new members accumulated over covid	Increase 20% Have not built a mouse in two years. Would like to design and build a mouse with testing components.
Steel Bridge		%	%
Sustainable Engineering and Environmental Health Development (SEEHD)		%	%
Unmanned Aerial Systems Team		%	%
Water Treatment Team		%	%

5. What process does your college/unit use to determine baseline budget allocations each year?

Proposals are reviewed and ranked based on their merit, the amount awarded in the prior years, and any changes in the competition (e.g., competition fees, if the location of the competition changes such that the travel and hotel expenses are substantially different, etc.).

6. How are each of the activities/programs in your college/unit evaluated each year?

Every ECC IRA club submits an activity report along with request for funding for the coming academic year. Funding for the next cycle takes into account activities of each IRA club.

7. Provide the College's IRA carryover amounts for the last three years. (Colleges/units are to limit their carryover to no more than 20% of baseline allocations. Balances of more than 20% may impact a college/unit's future IRA allocations.)

College/Unit	2020-21 IRA Carryover to 2021-22	2019-20 IRA Carryover to 2020-21	2018-19 IRA Carryover to 2019-20
College of Engineering, Computer Science, and Construction Management	\$76,817.19	\$42,482.56	\$17,015.12

Please explain any carryover (unused) balances your college/unit's activities/programs have and how you plan to spend these funds.

Usually, Individual IRA Clubs are not allowed carryover balance. Only three clubs (Baja, Rocketry, and Formula) were allowed to keep their carryforward balance from AY 2020-2021. Remaining carryforward balance was swept and became part of the distribution for AY 21-22. ECC IRA clubs received a set allocation based on merit and need. For Summer 2022, few IRA clubs will be allowed to carry forward balance since a summer competition is on the schedule.

Approved IRA Activity/Program	Carryover Balance	How will the carryover balance be spent?
American Concrete Institute (ACI) Student Chapter	\$	
Association for Computing Machinery	\$	
Baja SAE	\$10,117.47	The cost of building a Baja car is over \$100,000 and students will use carryover funds towards parts
Chico State Rocketry and Aerospace Club	\$3924.92	Over 15 students travel to New Mexico to compete and the carryover funds will be used towards travel.
Collegiate Penetration Testing Competition (CPCT)		
Concrete Canoe	\$	
Construction Competition Team	\$	
Earthquake Engineering Research Institute (EERI) Student Chapter	\$	
Engineers for Alternative Energy	\$	
Formula SAE	\$12914.34	Cost of building the vehicle is over \$51,000 and students will use carryover funds towards parts
Formula SAE Electric – <i>inactive since 2018-19</i>	\$	

GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$	
Micromouse	\$	
Steel Bridge	\$	
Sustainable Engineering and Environmental Health Development (SEEHD)	\$	
Unmanned Aerial Systems Team	\$	
Water Treatment Team	\$	