



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

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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.

CSU Chico
Academic Affairs

Please submit by **October 31, 2019** to Kim Williams at kwilliams@csuchico.edu

Signature of Dean/Director: _____

Print Name: Seema Sehrawat

Date: 10/29/2019

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

Approved IRA Activity/Program	Faculty Advisor	Website*
Association for Computing Machinery (ACM) Programming Contest	Bryan Dixon	http://www.icfpconference.org/contest.html
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/sae.shtml
Concrete Canoe	Kenneth Derucher	https://www.2019ascemidpac.org/events/
Construction Competition Team	Chris Souder	http://www.csuchico.edu/cm/student-act-achievements/asc-student-competition.shtml
Engineers for Alternative Energy	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 – <i>inactive since 2018-19</i>	Joshua Miranda	
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	Jared Debock	https://www.2019ascemidpac.org/events/
Human Powered Vehicle – <i>inactive since 2017-18</i>	Greg Watkins	https://www.csuchico.edu/mmem/student-organizations/asme.shtml
Micromouse	Hassan Salehi	https://site.ieee.org/sb-csuchico/projects/
SME Westec Manufacturing – <i>inactive since 2017-18</i>	Scott Brogden	https://www.csuchico.edu/mmem/student-organizations/sme.shtml

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	https://site.ieee.org/sb-csuchico/projects/
Water Treatment Team	Jackson Webster	https://www.2019ascemidpac.org/events/

***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 (2018-19) Carryover	IRA Current Year (2019-20) Baseline Allocation	IRA Carryover as Percent of Baseline
College of Engineering, Computer Science, and Construction Management	\$17,015.12	\$75,662	22.5%

In AY 18-19, our IRA allocation was \$75,662, out of which, on paper we did not spend \$17,015.12 (22.5%). Please note that several of ECC IRA clubs were involved in activities/competitions over the summer and that summer travel in the amount of \$11,325.81 got reimbursed in early fall, reducing our actual carryover funds to \$5,689.31 (7.5%).

- 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).**

IRA Prior Year (2018-2019) actual expenses column in the table below takes into account remaining balances as of June 30th. ECC IRA clubs engage in competitions during summer, which reduced the balances significantly. Also, Steel Bridge had an outstanding PO in 2017-2018, that got dropped in 2018-2019, resulting in a remaining balance of \$3430.16. Further, ECC IRA clubs' members incur significant (\$71,660 in 18-19) out-of-pocket expenses. Faculty advisors of these IRA clubs often have out of pocket expenses that are not reimbursed by the department or college office.

Approved IRA Activity/Program	IRA Prior Year (2018-19) Baseline Allocation	IRA Current Year (2019-20) Baseline Allocation	IRA Prior Year (2018-19) Actual Expenses	Other Sources of Funding (RF, UF, GF, etc.)	Notes (explain the differences in baseline and actuals, etc.)
Association for Computing Machinery (ACM) Programming Contest	\$3,000	\$3,000	\$1,342.51	\$0	Did not spend as much on travel as anticipated. Renewed interest among students for 19-20 and plan to spend all these allocations.

Baja SAE	\$11,000	\$13,000	\$9,751.31	\$134,000 in donations (breakdown of these funds is available, please request if needed)	Remaining balance minus summer travel is \$6.11. Gave some funding to EAE for parts, leftover funding went to Rocketry as well. Faculty advisor pay their own way.
Chico State Rocketry and Aerospace Club	\$5,000	\$6,000	\$5,505.74	\$3000 (machine time and materials donated)	Remaining balance minus summer travel is \$0. Given some funding from Baja SAW, Travel claims paid in 19/20 fiscal year. Faculty advisor pay their own way.
Concrete Canoe	\$8,000	\$9,000	\$7,751.27	\$3500 (Materials donated)	Remaining balance minus summer travel is \$21.37. Travel claims paid in 19/20 fiscal year. Faculty advisor pay their own way.
Construction Competition Team	\$15,000	\$13,751.31	\$14,427.04	\$25,705 UF	Remaining balance is \$572.96
Engineers for Alternative Energy	\$2,400	\$2,400	\$2,692.83	\$650 (Fundraising)	Remaining balance is \$0. Received some extra funding from Baja SAE for parts
Formula SAE	\$14,000	\$13,000	\$9,254.68	\$40,000 (cash donations, materials and machine time)	Remaining balance minus summer travel is \$0. Travel claims paid in 19/20 fiscal year, Gave some funding to Micromouse for parts. Faculty advisor pay their own way.
Formula SAE Electric – inactive since 2018-19	\$	\$	\$	\$0	
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$3,518	\$3,000	\$2,948.75	\$2000	Remaining balance minus summer travel is \$11.53. Travel claims paid in 19/20 fiscal year.

					Also, faculty advisors pay their own way.
Human Powered Vehicle - <i>inactive since 2017-18</i>	\$	\$	\$	\$0	
Micromouse	\$1,864	\$2,000	\$2,364.00	\$0	Remaining balance is \$0. Received some extra funding from Formula SAE for parts
SME Westec Manufacturing – <i>inactive since 2017-18</i>	\$	\$	\$	\$0	
Steel Bridge	\$6,526	\$5,200	\$5,777.09	\$3000 (donations)	There was a PO from 17-18 that got dropped in 18-19, resulting in a big carryforward of \$3430.16. Accounting practices needs to be cleaned out.
Sustainable Engineering and Environmental Health Development (SEEHD)	\$5,500	\$5,000	\$335.92	\$1,700 RF	Remaining balance minus summer travel is \$0. Travel claims paid in 19/20 fiscal year
Unmanned Aerial Systems Team	\$	\$3,000	\$	\$200 (fundraising)	Remaining balance is \$0.
Water Treatment Team	\$4,000	\$3,000	\$3,774.62	\$2000 (Fundraising)	Remaining balance minus summer travel is -\$229.34. Travel claims paid in 19/20 fiscal year
Baseline held for future allocation (i.e., spring semester, one-time purchase, etc).	\$	\$0	\$	\$0	
Total Allocation*	\$79,808	\$81,351.31	\$65,925.76	\$215,755.00	

* **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.

Approved IRA Activity/Program	2019-20 IRA Work Study Allocation	2018-19 Year IRA Work Study Actual Expenses
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Association for Computing Machinery (ACM) Programming Contest	\$0		\$0
Baja SAE	\$0		\$0
Chico State Rocketry and Aerospace Club	\$0		\$0
Concrete Canoe	\$0		\$0
Construction Competition Team	\$0		\$0
Engineers for Alternative Energy	\$0		\$0
Formula SAE	\$0		\$0
Formula SAE Electric – <i>inactive since 2018-19</i>	N/A		N/A
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$0		\$0
Human Powered Vehicle – <i>inactive since 2017-18</i>	N/A		N/A
Micromouse	\$0		\$0
SME Westec Manufacturing – <i>inactive since 2017-18</i>	N/A		N/A
Steel Bridge	\$0		\$0
Sustainable Engineering and Environmental Health Development (SEEHD)	\$0		\$0
Unmanned Aerial Systems Team	\$0		\$0
Water Treatment Team	\$0		\$0

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	Estimated # of Students Participating in Activity/Program	Estimated # of Students Incurring Costs	Estimated Per Student Out-of-Pocket Cost
Association for Computing Machinery (ACM) Programming Contest	16	16	\$80 (\$1,280 total)
Baja SAE	62	45	\$400 (\$18,000 total)

Chico State Rocketry and Aerospace Club	42	15	\$502 (\$7,530 total)
Concrete Canoe	30	15	\$95 (\$1,425 total)
Construction Competition Team	56	56	\$165 (\$9,240 total)
Engineers for Alternative Energy	13	11	\$55 (\$605 total)
Formula SAE	68	68	\$350 (\$23,800 total)
Formula SAE Electric – <i>inactive since 2018-19</i>	0	0	\$0
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	15	15	\$100 (\$1,500 total)
Human Powered Vehicle – <i>inactive since 2017-18</i>	0	0	\$0
Micromouse	5	2	\$60 (\$120 total)
SME Westec Manufacturing – <i>inactive since 2017-18</i>	0	0	\$0
Steel Bridge	32	32	\$200 (\$6,400 total)
Sustainable Engineering and Environmental Health Development (SEED)	4 Multiple students in some projects	4	\$55 (\$220 total)
Unmanned Aerial Systems Team	8	8	\$55 (\$440 total)
Water Treatment Team	20	20	\$55 (\$1,100 total)

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.
Association for Computing Machinery (ACM) Programming Contest	Pacific NW Region Programming Contest	San Jose, CA	11/9/19	16
Baja SAE	Baja SAE Arizona	Tucson, Arizona	4/16-	25-35
	Baja SAE Illinois	Peoria, Illinois	4/19/20 6/3- 6/6/20	15
Chico State Rocketry and Aerospace Club	Spaceport America Cup IREC Challenge	Las Cruces, NM	6/16- 6/20/20	15
Concrete Canoe	Mid-Pac 2019-20 Conference	Berkeley, CA	4/23- 4/25/20	30

Construction Competition Team	Associated Schools of Construction Student Competition	Sparks, NV	2/5-2/8/20	56
Engineers for Alternative Energy	California Solar Regatta	Rancho Seco Reservoir, CA	5/2/20	11
Formula SAE	FSAE California FSAE Michigan	Fontana, CA Brooklyn, MI	6/17-6/20/20 5/6-5/9/20	30 14
Formula SAE Electric – <i>inactive since 2018-19</i>				
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	ASCE Student Geo-Challenge Competition	Berkeley, CA	4/23-4/25/20	15
Human Powered Vehicle – <i>inactive since 2017-18</i>				
Micromouse	California American Micromouse Competition	San Diego, CA	May/June 2020	2
SME Westec Manufacturing – <i>inactive since 2017-18</i>				
Steel Bridge	AISC Steel Bridge Regional Event	Berkeley, CA	4/23-4/25/20	20
Sustainable Engineering and Environmental Health Development (SEEH)	Lake Atitlan Project Solid Waste Mgmt & Waste Treatment Project Cortina Rancheria Project Ceramic Filter Project	Guatemala City Belgrade, Serbia Williams, CA CSU, Chico campus	Summer 2020 May/June 2020 Ongoing Ongoing	4 2 Multiple students Multiple students
Unmanned Aerial Systems Team	Collegiate Drone Racing Competition	TBD	TBD	3-5
Water Treatment Team	Mid-Pac 2019-20 Conference	Berkeley, CA	4/23-4/25/20	20

5. 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.
Association for Computing Machinery (ACM) Programming Contest	No	Same	%
Baja SAE	No	Increase 13%	%
Chico State Rocketry and Aerospace Club	No	Increase 35%	%
Concrete Canoe	No	Same	%
Construction Competition Team	No	Same	%
Engineers for Alternative Energy	No	Decrease 18%	%
Formula SAE	No	Increase 13%	127% more expenses for vehicle parts
Formula SAE Electric – <i>inactive since 2018-19</i>	Yes	%	%
GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	No	Increase 25%	%
Human Powered Vehicle – <i>inactive since 2017-18</i>	Yes	%	%
Micromouse	No	Same	%
SME Westec Manufacturing – <i>inactive since 2017-18</i>	Yes	%	%
Steel Bridge	No	Increase 52 %	%
Sustainable Engineering and Environmental Health Development (SEEHD)	No	Same	%
Unmanned Aerial Systems Team	No	Same	%
Water Treatment Team	No	Increase 35%	%

6. 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., if the location of the competition changes such that the travel and hotel expenses are substantially different).

7. 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 next academic year. Funding for the next cycle takes into account activities of each IRA club.

8. 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	2018-19 IRA Carryover to 2019-20	2017-18 IRA Carryover to 2018-19	2016-17 IRA Carryover to 2017-18
College of Engineering, Computer Science, and Construction Management	\$17,015.12	\$9,081.63	\$24,421.09

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

Individual IRA Clubs will not be allowed carryover balance. Carryover balance of \$5,689.31 was combined with IRA 19-20 allocation for ECC. ECC IRA clubs received a set allocation based on merit and need.

Approved IRA Activity/Program	Carryover Balance	How will the carryover balance be spent?
Association for Computing Machinery	\$1657.49	
Baja SAE	\$6.11	
Chico State Rocketry and Aerospace Club	\$444.26	Summer 2019 travel claims. Remaining balance is \$0.
Concrete Canoe	\$248.73	\$227.36 in Summer 2019 travel claims. Remaining balance is \$21.37.
Construction Competition Team	\$572.96	Remaining balance is \$572.96.
Engineers for Alternative Energy	\$0	
Formula SAE	\$4,580.67	Summer 2019 travel claims. Remaining balance is \$0.
Formula SAE Electric – inactive since 2018-19		

GeoWall Challenge Team (ASCE Mid-Pac Student Conference)	\$569.25	\$454.72 in Summer 2019 travel claims. Remaining balance is \$114.53.
Human Powered Vehicle – <i>inactive since 2017-18</i>		
Micromouse	\$0	
SME Westec Manufacturing – <i>inactive since 2017-18</i>		
Steel Bridge	\$ 3430.16	There was a PO from 17-18 that got dropped in 18-19, resulting in a big carryforward of \$3430.16. Accounting practices needs to be cleaned out.
Sustainable Engineering and Environmental Health Development (SEEHD)	\$5164.08	Summer 2019 travel claims. Remaining balance is \$0.
Unmanned Aerial Systems Team	\$0	
Water Treatment Team	\$225.38	Summer 2019 travel claims. Remaining balance is -\$229.34.