

dsf 14 @

**2016-17 INSTRUCTIONALLY RELATED ACTIVITIES  
BUDGET REQUEST**

**Course Title and Number: EMP 353, ENGR 305, ENGR 308, ENVS 370, ENVS 410, ENVS 411, ENST 123 CCAT Practicum: Organic Gardening, Green Building, Lost Arts of Living, Herbalism.**

**Faculty Program Director: James Graham**

**College and Department: Associated Students**

**Campus Phone: x3551**

**Email Address: ccathsu@gmail.com**

**1. Please describe the nature and objective of your activity and how it qualifies as an Instructionally Related Activity (IRA) Use the attached examples of evaluation criteria, reference in #3 provided by the IRA Committee. Address the issue of how the course/activity relates to the larger curriculum (i.e. general education, majors, minors, electives). What are the students expected to learn by the end of this course activity that they did not know before? Are there any special requirements for participating in this activity? Please be as clear and concise as possible in your response.**

The Campus Center for Appropriate Technology (CCAT) is a student run demonstration home dedicated to the exploration and implementation of sustainable living practices. The house physically displays to students and the general public the different types of technologies, systems, and behaviors that can be implemented in a residential setting. The space serves as a living laboratory where students can apply their ideas and projects, and allows them the opportunity to design, develop and test their theories.

Due to the variety in the types of courses for which CCAT's IRA funding is utilized, there is a range of expected learning outcomes that come out of working with CCAT. Overall, CCAT seeks to work with academic programs because it is a viable way to have HSU students get hands-on experience in the field of Appropriate Technology, and because we are able to provide learning opportunities that students might otherwise not be exposed to in a conventional classroom setting. The number of careers in the field of sustainability is growing every year, and this kind of experience is important for students looking for a job in the professional world after graduation.

CCAT's IRA budget can be broken down into two categories: (1) learning that takes place through CCAT and Appropriate Technology courses and (2) student and class led projects. The primary goal of the class lessons is to teach students about sustainability and for them to gain understanding of how their actions may affect the world around them. The goal of student led projects is to engage students and require them to take charge of their own learning process. For example, students in Engineering 305 who work with CCAT have self-directed projects, and must set up meetings with the client, develop a design, write up a materials list and budget, and then physically construct the system and overcome obstacles along the way. Many of the classes facilitated through CCAT are requirements for various majors and minors (such as EMP 353 for the EMP Education and Interpretation major, ENGR 305 for the Appropriate Technology minor and Environmental Science major, and ENVS 410 and 411 for the Environmental Science major), as well as fulfilling multiple general education guidelines

Some courses that CCAT supports with IRA funding may have prerequisites associated with them, which are clearly outlined in the course catalog. If a student would like to receive funding for an independent project completed on CCAT grounds, the only requirement is that the student be currently enrolled in an IRA approved class and that the work completed be consistent with the expectations of the course instructor as well as CCAT, which is arranged before the beginning of any project.

**2. How does your program meet all the General Requirements listed in #2 of the IRA Funding Guidelines? If the IRA Program no longer has a course title and number, please explain why it should still be eligible for IRA funding.**

The programs offered through CCAT provide students with hands-on, activity-based learning experiences that directly contribute to the University Goals. Specifically, the IRA funds we receive are used to provide the supplies necessary to undertake practical experimentation in Appropriate Technology and the sustainable arts and sciences. These programs directly prepare students to engage in complex problem solving toward the goal of environmental responsibility. Additionally, the funding we receive is only used for supplies and services as per the definition provided. Some examples include seeds for our gardening class, drill bits for our green building class, canning supplies for homesteading, and ingredients for herbalism demonstrations. All the programs we request IRA funding for have always been structured with the specific objective of creating a hands-on learning environment found nowhere else in the university.

Several courses we offer are listed under Environmental Studies. These courses will be required for ENST majors pursuing the Appropriate Technology emphasis in the program.

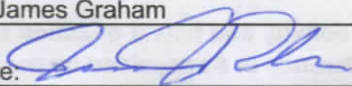
**3. What is the instructor's level of participation in this IRA funded course and activity?**



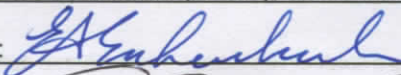
All the courses that we seek IRA funding for are directly taught by or are advised by faculty instructors. ENGR 305 is a class that has a large amount of involvement by the instructor in helping the students budget and manage their projects. Similarly EMP 353 is also carefully facilitated by the instructor to ensure that students produce accurate and effective informational signs for CCAT. For the student-led CCAT Classes, each class has assigned a faculty advisor who helps orient the student instructor about moodle and other campus protocol. We are working to strengthen this relationship to ensure that the HSU faculty member is able understand the curriculum that is to be taught and offer their guidance throughout the duration of the course in order to ensure a productive and professional learning experience for both the student instructors and those enrolled in the class.

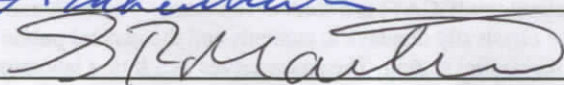
**I have reviewed this Instructionally Related Activities Budget Request in its entirety:**

IRA Program Director Name: James Graham

IRA Program Director Signature: 

Department Chair Name: Beth Eschenbach (ENGR), Steve Martin (ESM)

Department Chair Signature: 

Department Chair Signature: 

Instructionally Related Activities Request Spreadsheet 2017-2018 CCAT										
	Identify Priority: 1 = highest priority	Category (see definitions)	Total Funds Needed	Amount Requested from IRA	Difference	Other Source of Revenue			Explanation/break down of line items; if this line item includes per item, what is the date(s) of the events? (add attachment if necessary)	# of students directly served per year
						University / Associate of Students	Fundraised	Student Contribution		
ENST 123: Lost Arts of Living	3	Supplies and Services	400	400	0				Money for this course is to be used for supplies for class projects. In the past, projects have included canning, herbal remedies, survival skills supplies, bread making, shelter building, and knitting or crocheting.	-20
ENST 123: Green Building	2	Supplies and Services	2000	2000	0				Money for this course will be used for supplies to support class projects, including building materials for hands-on labs and educational handouts. Topics will include green building, sustainable/recycled building materials, living roofs, straw bale constructions, building health and efficiency, and basic construction codes. Anticipated projects include earthen buildings, natural paint and plaster, papercrete and hempcrete, and a fieldtrip to explore examples of green building technologies.	-20
ENGR 305: Appropriate Technology	1	Supplies and Services	1500	1500	0				Many of the projects done in this class represent a culmination of student education in the field of appropriate technology, and sufficient funding allows these students to create lasting projects. Similar classes that teach natural building at other universities are extremely costly and our proposed figure is relatively small. Supplies purchased in this class go towards projects in pedal power, natural building, and development of renewable technology systems like photovoltaics, micro-hydro, or wind turbines.	-25
ENGR 308: Technology & the Environment	10	Supplies and Services	300	300	0				This course focuses on doing environmental comparisons of different technologies, with an emphasis on using computers and spreadsheets to do calculations and make the findings presentable. Money for this class will be used for purchasing measurement and data logging equipment as well as different materials to compare (eg. an incandescent light bulb, a CFL, and an LED).	-20
ENVS 370: Energy, Technology, & Society	9	Supplies and Services	300	300	0				Students collaborate on local campaigns to reduce environmental impacts, giving them experience in organizing and participating in public process. Money for this class will be used to fund public outreach through videos, banners, etc.	-20
ENVS 410: Environmental Science Practicum	8	Supplies and Services	500	500	0				This is the environmental science major's capstone experience. Students are expected to implement problem-solving projects which meet criteria developed on principles of sustainable environmental practices. Money for this class is used towards materials necessary for educational outreach campaigns, (e.g. buttons, paper, poster board, printing, etc) or materials needed to implement a physical system regarding campus or community sustainability.	-30
ENVS 411: Sustainable Campus	7	Supplies and Services	500	500	0				This is the environmental science major's capstone experience. Students are expected to develop a problem-solving framework, consistent with sustainable environmental principles. These principles are then applied around the HSU campus. Money for this course will be used for materials essential to an educational outreach campaign (eg. buttons, paper, poster board, printing, etc) or materials needed to implement a physical system regarding campus sustainability.	-20
ENST 123: CCAT Organic	5	Supplies and Services	400	400	0				Money for this class is used to purchase supplies for gardening, eg. soil, seeds, fertilizers, containers, labels, tools, gloves, etc.	-20
ENST 123: Herbalism Workshop	4	Supplies and Services	700	700	0				Money for this class is used to purchase supplies for creating herbal remedies, i.e. mason jars, droppers, salve cans, linclures, cheesecloth, dried herbs, and essential oils.	-30
EMP 353: Environmental Education & Interpretation Graphics	6	Supplies and Services	800	800	0				The students in this class create educational displays, signs, and pamphlets, which are a focal part of CCAT's outreach and education. Money from this line item will be used in the creation and mounting of interpretive displays.	-20
AS Budget						55670			While CCAT does receive about AS funding, all of this is used for our day to day operations, mostly for employee wages and site maintenance. The additional funding we receive through IRA allows CCAT to reach out and educate a much larger number of students, which wouldn't be possible without these funds. Furthermore, the IRA budget only funds supplies for class experiments and demonstrations. Therefore we need to maintain our AS budget to purchase more long lasting equipment and supplies.	
Other Fundraising							2000		CCAT also fundraises about two to three thousand dollars a year, but this all goes towards funding longer term projects, like our greenhouse or MEDW. Often students in IRA related classes, such as ENGR 305 end up participating in the projects that CCAT uses this money for. As such, none of it is available for funding the projects that IRA funding allows us to do.	
<b>TOTALS</b>			<b>7,400</b>	<b>7,400</b>	<b>0</b>	<b>55,670</b>	<b>2,000</b>	<b>0</b>		
<b>TOTAL REVENUE</b>	<b>65,670</b>									
<b>TOTAL EXPENSE</b>	<b>7,400</b>									
<b>REVENUE OVER EXPENSE</b>	<b>57,670</b>									
<b>2016-17 IRA Allocation</b>	<b>2017-18 IRA Allocation Request</b>	<b>Difference</b>								
7,400	7,400	0								
If your 2017-18 budget request is different than the current year please explain:										

**COURSE(S) TITLE AND NUMBER SPECIFIC TO 2017-18 IRA BUDGET REQUEST**

Course Title	Course No.	No. of Units	No. of Students Granted Credit		Dept. Chair Signature for Verification
			Spring '17 Term	Fall '16 Term	
CCAT Lost Arts of Living/Homesteading	ENST 123	1	~10	~10	Raremy Shewry
CCAT Green Building	ENST 123	1	12	~10	Raremy Shewry
Appropriate Technology	ENGR 305	3	25	Not Offered	Stuber
Technology & the Environment	ENGR 308	3	Not Offered	25	Stuber
Energy, Technology, & Society	ENVS 370	3	~20	Not Offered	SRM
Environmental Science Practicum	ENVS 410	3	~25	~25	SRM
Sustainable Campus	ENVS 411	3	~25	~25	SRM
Organic Gardening	ENST 123	1	~10	~10	Raremy Shewry
Herbalism	ENST 123	1	~10	~10	Raremy Shewry
Environmental Education & Interpretation Graphics	EMP 353	3	~20	~20	SRM

→ Sarah Ray out of town

→ Sarah Ray out of town