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INDIANA UNIVERSITY OF PENNSYLVANIA SENATE CURRICULUM COMMITTEE B-2

NEW COURSE PROPOSAL

Department: Safety Sciences
Person to contact for further information: R. E. McClay
Course affected: SA 299 - Initial Experience in Cooperative Education
SA 399 - Subsequent Experience in Cooperative Education Desired semester of change: Fall 1987
Approvals:
Department Curriculum Committee Chairperson:
Department Chairperson:
College Advisory Committee Chairperson:
College Advisory Committee Chairperson: Jane B. Slience College Dean: Jarold C. Wengard
A. DESCRIPTION OF ACADEMIC NEED
Al. Catalog Description: (PLEASE ATTACH)
A2. Course Syllabus:(PLEASE ATTACH)
A3. Need Fulfilled: The COOP experience allows the student to see first hand
the actual functions performed by the Safety Professional. This makes
subsequent course work more relevant and sharpens the students' perspective
on career options. Students learn how industrial organizations function
and the actual practice of hazard control.
The classroom is, and should be, the primary place where higher education
disseminates information to educate the student. However, the work place
cannot only be used to put this information into practice, but can allow
the students to learn in new ways. It can also bring maturity to the
student which will enable him/her to be a better student on campus. (We
have all had experiences with the older student who has been, or is, in
the work place and know that, although learning for him/her can be more
difficult, he/she usually is a better student).

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Α4.	Effect on other courses: This course will have no effect on any course now
	offered by the Safety Sciences Department or any other Department.
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A5.	Does this course follow traditional offerings in the department? No, it does
	not follow the traditional format, it is instead a type of experiential
	education carried out at an off-campus worksite.
A6.	Has this course been offered at IUP on a trial basis? Yes, and it has been
	offered by the Safety Sciences Department (with the Provosts' approval) on a
	trial basis. The list of past COOP students and locations in Attachment A
	to this proposal and a course evaluation is included as Attachment B.
A7.	Is this a dual level course? No.
A8.	Do other universities offer this course? Yes, Northeastern University, Drexel
	Akron and other schools in the northeast U.S. offer COOP coursework on a
	regular basis. Over two hundred thousand higher education students
	participate in the national cooperative education programs each year.
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A9.	Is this course recommended or required by a professional society? No. however
	potential employers of Safety Science graduates strongly endorse the COOP
	course for Safety Science students.
В.	INTERDISCIPLINARY IMPLICATIONS
B1.	Will the course be offered by one instructor or will there be a team? One or
	possibly more departmental COOP coordinators will administer the program
	together with staff personal in the PLE office. The faculty member, other
	other places referred to as the coop coordinator, will receive a load of
	1/8 credit for each coop student being supervised that is not receiving credit
B2.	Are additional or corollary courses needed? No.
в3.	What is the relationship of the content of this course to the content of courses offered by other departments?
	There is no relationship between the course and courses offered by other
	Departments.
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B4.	Is this course applicable in a program of the school of continuing education directed at other than full-time students?
	Not applicable.
c.	EVALUATION
C1.	What procedures are expected to be used to evaluate student progress?
	The COOP on-site supervisor will fill out the attached evaluation form (See
	Attachment C) after each COOP experience. These are retained in the students
	departmental file.
C2.	Variable credit? This course is not proposed for variable credit, the course
	is for zero credit.
) .	IMPLEMENTATION
01.	What resources are needed to teach this course? <u>Initially</u> , job development/
	coordinators will be hired with grant funds (100%). Selection will be
	jointly made by the Co-op Ed office and the department they will service.
	The development/coordinators will be responsible for developing Cooperative
	Education job sites for students and advising, placing and evaluating
	students in their respective department assignments.
	Existing faculty Cooperative Education coordinators will be paid with grant
	funds and will be assigned coordinating duties as 25% of their regular load

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D1. (con't) Coordinators will be responsible for recruit	ing, advising students,
assisting with and the placement of students. Final	izing, evaluating, and
supervising the Cooperative Education experience wil	.1 be done by Safety
Sciences faculty in accordance with Paragraph Bl.	
The other resource needed will be the necessity for	travel funds. Travel
funds for the program will be covered in part by exi	sting supplemental
federal grants. These grants are awarded to institu	tions such as IUP who
wish to initiate a co-op program within its curricul	um. Travel will be for
the purpose of developing work sites for use of coop	
D? Now many sections? Not applicable	
D2. How many sections? Not applicable.	
	•.
D3. How often will the course be offered? Students will be	oe able to complete a
	••
COOP work experience during the Spring, Summer or Fa	II terms.
D4. How many students will be accommodated? As many as an	oply, qualify and are
selected, up to the number of available coop job sit	tes.

ATTACHMENT D

Course Description for COOP Course Proposal

SA 299 - Initial Experience in Cooperative Education - 0 sh.

Prerequisites: Approval of academic advisor, COOP Coordinator and Departmental Chairperson.

The initial experience in a program designed to combine classroom theory with practical application through job related experiences. The course is open to SA majors and minors usually in their sophomore year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences, only one of which may be a summer experience.

SA 399 - Subsequent Experience in Cooperative Education - 0 sh.

Prerequisites: SA 299

A second experience in a program designed to combine classroom theory with practical application through job related experiences. The course is open to SA majors and minors usually in their junior or senior year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences, only one of which may be a summer experience.

SAFETY SCIENCES DEPARTMENT

COOP STUDENTS AND LOCATIONS

FALL 1983	SITE	LOCATION
Hallman, Jeff Kebort, Kim Simmers, Dennis	Philadelphia Electric Co. Allied Corporation IBM	Philadelphia, PA Morristown, NJ Kingston, NY
Simmers, Dennis	LDii	<u></u>
<u>SPRING 1984</u>		Unloigh MC
Hoffman, Julie Mikan, John	IBM IBM	Raleigh, NC Kingston, NY
O'Neill, Brian	Philadelphia Electric Co.	Philadelphia, PA
SUMMER 1984		
Bartha, Donna	IBM .	Kingston, NY Raleigh, NC
Cover, Tania Hallman, Jeff	Philadelphia Naval Shipyard	Philadelphia, PA
McDermott, James	Philadelphia Naval Shipyard	Philadelphia, PA
O'Neill, Brian	Philadelphia Electric Co.	Philadelphia, PA
FALL 1984	•	m da da labera DA
Halligan, Tom	Philadelphia Electric Co. IBM	Philadelphia, PA Triangle Park, NC
Mouser, John Simmers, Dennis	IBM	Kingston, NY
SPRING 1985		Kingston, NY
Patterson, Mark	IBM	KINGSCOM, WI
SUMMER 1985		Deleich NC
Hoffman, Julie	IBM IBM	Raleigh, NC Kingston, NY
Nairn, Doug O'Neill, Brian	McNeal Pharmaceuticals	Spring House, PA
Shaffer, Bart	Wakefern Foods	Elizabeth, NY
FALL 1985		
Cover, Tania	IBM	Raleigh, NC Spring House, PA
O'Neill, Brian	McNeal Pharmaceuticals	Spring nouse, in
SPRING 1986		w to the analysis and the same
Bence, Greg	IBM Philadelphia Electric Co.	Kingston, NY Philadelphia, PA
Pell, Doug	riiiladeipiila meetile ee	·
<u>SUMMER 1986</u>		Kingston, NY
Bence, Greg Holman, Brad	IBM Philadelphia Electric Co.	Philadelphia, PA
HOTHIGH, DIG	· · · •	
FALL 1986		Niontio CM
Kovach, Elizabeth	CN Flagg IBM	Niantic, CN Charlotte, NC
Nairn, Doug	TDLI	•

REPORT ON SAFETY SCIENCES COOP PROGRAM EVALUATION

In the Spring of 1983, the Safety Sciences Department at 10P was encouraged by Safety Professionals at 1BM Inc., Kingston, NY, to pursue the development of a COOP Program. The Department was also encouraged by the office of Professional Laboratory Experiences at 10P, which funded two faculty trips to the eastern scaboard for the purpose of recruiting COOP sites. By the start of the Pall term 1983, three (3) COOP sites had agreed to the hiring of COOP students and had each select one student to complete a COOP during the Pall term. The placement of COOP students has continued each semester until the present time, and these placements are summarized in attachment 1.

The nature of the COOP Program established for trial purposes by the Safety Sciences Department conformed to the needs of the Department and IBM, one of the largest Corporate Sponsors of COOP Programs in the country. Students obligated themselves for two semesters of COOP activity with no academic credit attached. The COOP students were paid for their services. Safety Science COOP students were placed in positions within the safety organization of industrial firms and under the supervision of professional safety managers. They were evaluated only by their site supervisors.

Eleven (II) different Safety Science majors, sophmores and juniors, have, to date, been placed at COOP sites; one student has completed COOP periods at two separate sites and another is now completing his second period at the same site where he was first placed. The evaluations and the informal reports provided by the site supervisors have indicated satisfaction with the performance of these students. The students in turn have provided a very positive reaction to their COOP experiences.

A more formal evaluation of the COOP experiences was recently conducted using the instrument shown in attachment 2. Each student who has served at a COOP site participated, however, the student who worked at two separate sites, evaluated these separately. This provided 12 sources of data for consideration. The returns were unanimous in claiming the COOP as a very positive learning experience:

- ---All students indicated that the experience substantially complimented and reinforced classroom learning.
- ---All students indicated that they would be better prepared to enter their chosen profession because of the COOP experience.
- ---All students indicated that the COOP experience was something which they could recommend to students in this and other majors.
- ---All students indicated that they would again volunteer to participate in a COOP experience if given the chance.
- --- All students indicated that they received adequate direction and supervision at the COOP site.

Students were also questioned about the problems which they experienced in leaving IUP, relocating, and returning to IUP. The summary of problems experienced, (Attachment 3) shows that the problems were significant but not critical. The students also provided good insight into how these problems could be minimized. The problems of greatest significance fall into two (2) categories:

- ---Problems associated with late placements at the site.
- ---Problems associated with housing at the COOP site.

The other problems were more random, but should be and can be effectively addressed.

Our inexperience with COOP Program set-ups has caused some of the arrangements to be finalized late and the students to be more rushed into relocating than should be the case. A more long-term approach is being put into effect and should minimize the related problems.

We have not apparently been enough involved with providing COOP students with housing information and assistance in finding housing at the COOP site. A more active role here for the IUP SA-COOP Program Coordinator will provide this needed assistance.

Faculty loading for COOP Coordination has not been provided out of teaching contracts in the Safety Sciences Department to date. Since no contractual loading formula exists for COOP Faculty loading, it seems desirable to maintain the zero credit feature of the COOP experience until a suitable formula can be negotiated between IUP administration and APSCUF. We believe that small pilot COOP Programs can be developed in many academic departments to establish feasibility and the value of the learning experience before academic credits are assigned.

SAFETY SCIENCES COOP PLACEMENTS 1983-84

COOP SITE	I:ALL 1983	SPRING 1984	SUMMER 1984	FALL 1984
Allied Chemical Co. Morristown, NJ	Kim Kebort			
IBM Kingston, NY	Dennis Simmers	John Mikan	Donna Bartha	Dennis Simmers
IBM Raleigh, NC		Julic Noffman	Tania Cover	John Mouser
Philadelphia Electric Co. Philadelphia, PA	Jeff Hallman	Brian O'Neill	Brian O'Neill	Thomas Halligan
Philadelphia Naval Shipyard Philadelphia, PA			James McDermott Jeff	
			Hallman	

COOP STUDENT QUESTIONNAIRE RESPONSE SUMMARY

1.	Location (s) v	where COOP exper	rience was gaine	ed <u>Five differe</u>	nt locations
	were visited l	y participants	in this evaluat	ion.	
2.	Date of COOP o	experience: Fro	om	То	
		Fro	on .	To _.	
3.	Anticipated gr	aduation date_			
4.	Did your COOP learning in yo	experience subs our major? Yes_	tantially compl	ement and reinf	orce classroom
5.	Was the COOP e	xperience a lea in your major?	rning experienc Yes 12	that you coul	d recommend to Uncertain_0
6.	Was the COOP e students in ot	xperience a lea her majors? Ye	rning experiences 12 No_	e that you coul O Uncert	d recommend to
7.	Did you receiv Yes 12	e adequate dire No <u>0</u> Unc	ction and super ertain0	vision at your	COON location?
8.	Will you be be your COOP expe	tter prepared trience? Yes	o enter your ch	osen profession Uncertain	because of
9.	If you had it experience? Y	to do over, wou es <u>12</u> No	ld you again vo	lunteer to comp tain 0	lete a COOP
10.	Which choice by	elow best descr t IUP to begin	ibes the proble your COOP exper	ms you experien ience (check on	ced in leaving
	No real prob- lems were experienced	Problems minor and easily overcome	Moderate prob- lems experi- enced, easily overcome	which were	O Problems which could not be overcome
11.	Which choice be established at	elow best descr your COOP loca	ibes the proble	ms you experien).	ced in getting
	No real prob- lems were experienced	8 Problems were minor and were easily over-come	Moderate prob- lems were ex- perienced and overcome	0 Major prob- lems were overcome	Problems which could not be overcome
12.	Which choice b turning to IUP	elow best descr to resume clas	ibes the proble ses (check one)	ms your experie	nced in re-
	5 No real prob- lems were experienced	Problems were minor and were easily overcome	Moderate prob- were experi- enced and over come	lems were	O 2 Problems which N could not be overcome

^{*}These COOP Students are still working at their first COOP site.

• • •										
	13,	Briefly summaria		COOP	experienc	e and	the benef	its you	gained	from it.
			**							
	14	Briofly explain	the pro	ob Lems		experie	enced in 1	the COOP	progra	m and
	14.	Briefly explain recommend ways	in which	ı thes	se could b	e avoi	ded.			
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	•	•								
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SUMMARY

OF PROBLEMS EXPERIENCED BY COOP STUDENTS

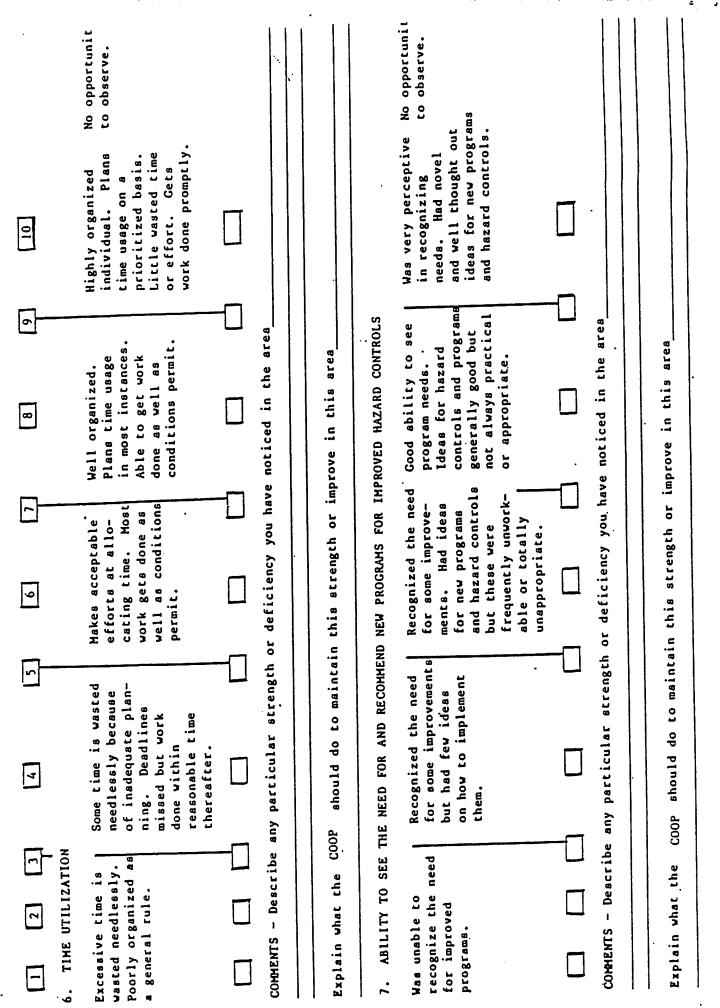
Late Notification of selection by COOP site.	5 out of 12
Difficulty in leaving IUP Housing Arrangement.	3 out of 12
Difficulty in locating Housing at COOP site.	7 out of 12
Difficulty in Registering for classes upon return to 1UP.	1 out of 12
Inadequate Orientation by CCOP site.	1 out of 12
Problems in Maintaining Financial and Arrangements.	1 out of 12
Difficulty in the Selection Process.	1 out of 12

DOP's Name	Date		Name of firm	
e following scale is to be completed by the ntemporaries, and this rating is not meant	supervisor of t	he student named above. comparison with experience	above. Students are rated only a sperienced professionals.	only against their
		8	9 10	
IOWOWLEDGE OF OCCUPATIONAL SAFETY AND HE	HEALTH		Check ONE block only on	only on each line below
basic concepts ledge of basic concepts concepts and principles.	Has attained satisfactory level of know-ledge and principles.	Understands most of the important concepts and principles.	Has a full understanding of all important concepts and principles.	No opportunity to observe,
The strike any particular arrenorh	or deficiency you have	le noticed in this area		
e COOP should do	in this strength or	improve in this area		
. PERFORMANCE (APPLICATION OF KNOWLEDGE)		•		
ppropriate of appropriate tandards hazard methodology. as many problems. problems.	Usually utilizes appropriate evaluation methodology. Has typical problems.	Utilizes appropriate evaluation method-ology. Has very few problems.	achieved a level of performance rarely seen in student interns.	No opportuni to observe.
	.n			
OMMENTS - Describe any particular strength or	h or deficiency you have	ve noticed in this area	e 8	
xplain what the COOP should do to maintain this	ain this strength or or	r improve in this area	to	

	•		•	
	No opportunity organize to observe. cate rying s.		gability No opportunit; himself/ to observe. all -	
01	Outstanding ability to organize and communicate ideas of varying complexities.		Outstanding ability to express himself/ herself in all - situations.	
6	express herself and concisely matters.	area	ive oral all Has lary. this area	
8	Justiten Language a. Written Language be written Language complet to express expressing himself/ herself. Sometimes coulty with more complex ideas complex ideas. complex ideas.	should do to maintain this strength or improve in this area	b. Oral Language Poor pronunciation. Can't formulate ideas pattern. Can't formulate ideas pattern. Limited vocabulary. Uses effective oral language in all situations. Has good vocabulary. Ungrammatical. COMMENTS - Describe any particular strength or deficiency you have noticed in this area Explain what the COOP should do to maintain this strength or improve in this area	
	Usually expresses. himself/herself clearly and correct- ly - has some difficulty with more complex ideas. deficiency you have	ingth or imp	incy you hav	
9	Usually expressed himself/herself clearly and correstly - has some d culty with more complex ideas.	in this stre	Acceptable pattern. t or deficie ain this str	
	himself/ himself/ metimes al. Can't is/her .	o to mainta	Often mispronounces. Can't formulate ideas vell. Doesn't project voice. Sometimes ungrammatical. I ny particular strength p should do to mainta	
4	Has difficulty expressing himself/ herself. Sometimes ungrammatical. Can' formulate his/her ideas well.	1 1	Often misprono Can't formulativell. Doesn't voice. Sometiungrammatical.	
	Written Language to express Ha learly - ex stical. un fo	the C00]	oral Language onunciation. ce quality. rtical. vocabulary. S - Describe a	
[7]	3. COMMUNICATION SKILLS a. Written Language Unable to express ideas clearly - ex ideas clearly - he ungrammatical. COMMENTS - Describe any	Explain what the COOP	b. Oral Language Poor pronunciation. Ungrammatical. Limited vocabulary. COMMENTS - Describe Explain what the	
نسا	3. Una ide ung COI	🛍 '		

Explain what the	COMMENTS	Shows no interest in the profession dakes no attempt to meet minimum standards.	5. PROFI	Explain v	SINTHMOC		Joes not get :long with others.	Pekso	
whac ch	1	profession. profession. no attempt t minimum rds.	PROFESSIONAL ATTITUDE	what the	- Descr		Bet h other	PEKSONALITY	2
e C00P	Describe		111	. COOP	ibe a		•		-[
should do	any particular strength or deficiency	Shows little interest in the profession. Has difficulty achieving minimum standards. Is defensive when criticized.	TUDE	should do to	Describe any particular strength or deficiency you have noticed		Has difficulty in getting along with others.		4
to maintain this	rength (eving		maintain	ength o	<u></u>			<u>-</u> 5
n this strength		Has some interest in the profession. Achieves minimum standards consistently. Accepts criticism.		chis screngch	r deficiency y		Has an understanding of good personal relations and satisfactorily achieves a workabl relationship with others.		6
9	you have	ofession. minimum consis- Accepts		or	ou have		nderstand- ood per- lations sfactorily a workable ship with	, 	<u> </u>
improve in this area	e noticed in this area	Shows a definite interest in the profession. Will work beyond minimum requirements. Accepts criticism graciously.		improve in this area	noticed in this area		Relates well and has above average ability to achieve good working relations with others.		8
		F: 0 7 E F: C X					er er er		40
		Has a keen and sus- N taining interest tin the profession. Eager to work beyond requirements. Invites criticism and accepts it gratefully.					Outstanding ability to cooperate and obtain cooperation from others.		10
		No Lo					no op		
		opportunity observe.					opportunity observe.		•

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8. Was the COOP Program administered in a way satisfactory to you?	isfactory to you? (Comment below on how administration could improve
9. Would your organization be willing to participate ag	again in the future?
YES	NO
OTHER COMMENTS (Please elaborate where you feel that the above scale does	es not adequately reflect COOP performance.)
•	
Safety Sciences Department 2A Uhler Hall INDIANA UNIVERSITY OF PENNSYLVANIA Indiana, PA 15705	Signed
	Address