Establishing a Leadership Team

for

Technical Students

by
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IVCCs Leadership Team

A Leadership Team of students in engineering design and electronics programs at Illinois Valley Community College honors students who have demonstrated leadership potential and provides them with opportunities for personal and professional growth.

Criteria for Selection to the Team

Technical instructors nominate students for the team. A committee selects students to be invited on the basis of attitude, commitment and work ethic, willingness to help others and leadership potential; grades are not a determining factor.

Selected students are personally contacted by an instructor and receive a written invitation to join the team. They attend an informational lunch meeting where team activities are explained, and they sign a commitment form indicating the activities they find most interesting.

Leadership Team Training

Leadership Team members receive training through a course in college strategies, networking opportunities with business and industry representatives, attendance and participation in professional conferences, attendance at an Etiquette Dinner and other team activities, listed below. The skills which are emphasized: communication, teamwork, and the commonly-accepted leadership skills of decision-making, taking initiative, motivating people to accomplish common goals, and mentoring. (Cordova-Wentling *et.al.*2007 and Crawford, 1998)

The college strategies course is provided tuition free and is intended to assist team members with their mentoring responsibilities as well as with their own college courses. The interaction and networking opportunities with business and industry representatives occur at various events including meetings of an advisory board for the technical programs, on field trips, and at recruiting activities. Leadership team members are also encouraged to participate in engineering-related conferences by presenting a poster, writing a paper or giving a presentation. That participation is designed to help them sharpen their communication skills, network with university engineering students and professors, and pursue a bachelor's degree. If the Leadership Team students are invited to give a presentation, they receive financial support to attend the conference. Team members who participate in an Etiquette Dinner, where they receive training in proper dining etiquette, attend the dinner free of charge.

Leadership Team Activities

Leadership Team members organize and participate in a variety of recruiting activities for their programs, mentor other technical students, and participate in professional activities, mentioned above. The specific activities vary from year to year, partly because the students are encouraged to define their role as leaders by planning and developing their own activities, but typical activities include:

- Speaking to high school classes or community organizations about IVCC programs
- Assisting with events such as a Career Night, Job Fair and open houses
- Assisting with events for high school or grade school students such as an Edible Car Contest or Inventor's Camp
- Assisting with the MIMIC Fair (freshmen only)
- Mentoring other students pursuing a degree in their field
- Serving as an advisory board member for student input in the development of curriculum
- Participating in a professional conference including preparation of a poster or writing an article. A thumbnail of a poster team members presented at the 2008 IL/IN Section of the American Society for Engineering Education Conference is below.



Leadership Team members presented a poster, thumbnail copy above, at the American Society for Engineering Education regional conference at Rose-Hulman Polytechnic Institute in March 2008.

Leadership Team students agree to participate in a certain number of activities each semester.

Leadership Team Costs

Costs for the Leadership Team include small stipends to team members, tuition waivers for a course designed to improve their success in college, meal costs for an informational lunch and Etiquette Dinner, and travel expenses to attend a conference.

Leadership Team members are paid a stipend each semester, based on their participation in a certain number of approved activities each semester. Students who participate in the minimum number earn \$50 and those who participate in the maximum number earn \$100.

All of the leadership students are eligible to enroll in a Strategies For College course tuition free. They also attend an informational lunch and Etiquette Dinner free of charge.

Members of the Leadership Team are encouraged to apply to give a poster presentation at the Ill/Ind Section Conference of the American Society for Engineering Education. If they are selected to present, their travel expenses are covered.

For 2007, team expenses were under \$2,400.

Stipends	\$800
Tuition waiver*	120
Conference	1,200
Informational Lunch	200
Etiquette Dinner	75
TOTAL	\$2,395

^{*}One student enrolled in the Strategies For College course

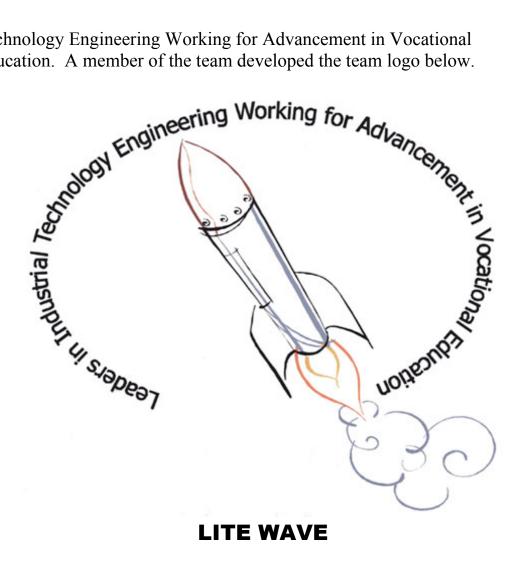
The Leadership Team was established in 2006, with support from a National Science Foundation grant. The grant is covering Leadership Team expenses through 2008. The stipends and tuition waivers are minimal expenses and sustainable beyond the grant period. For conference travel expenses, the technical instructors will likely seek alternate funding sources, potentially by developing industry partnerships.

Success of IVCCs Team

Technical instructors have been successful in recruiting more than twice as many students for the team as they planned, and the students have taken ownership of the team, developing and participating in more activities than the organizers envisioned. In 2006, one member of the Leadership Team received a scholarship to attend and participate in the Advanced Technological Education Principal Investigators Conference, sponsored by the National Science Foundation and American Association of Community Colleges, in Washington D.C. In 2007, two team members received awards to attend and participate in the conference.

The 2006 Leadership Team members decided to develop their team identity by adopting the name of LITE WAVE, an acronym for Leaders in Industrial

Technology Engineering Working for Advancement in Vocational Education. A member of the team developed the team logo below.



Leadership Team Publicity

Team members and team activities are widely publicized on the college web site and in newspaper throughout the college district. The publicity honors teams members for their accomplishments and assists in recruiting efforts for the technical programs. New team members sign a release allowing the college to use their names and photographs in promotional materials, and team members are asked to provide potential press release information.

Team Information and Forms for Organizing a Team

A variety of informational materials and forms utilized to organize, publicize and assess the IVCC Leadership Team are included in the following pages.



YOU HAVE BEEN RECOMMENDED AND SELECTED AS A POTENTIAL MEMBER FOR A



LEADERSHIP TEAM AT IVCC

We are looking for students who are pursuing a degree related to engineering technology (CAD, Electronics/Electricity, and Manufacturing) at IVCC to assist us in mentoring and advising during the development and implementation of an IVCC curriculum project related to MIMIC and a National Science Foundation grant that will impact the CAD, electronics/electricity, and manufacturing programs.

If you join this *Leadership Team*, you can receive:

* Free Class – Strategies for College: SFC 1000

* Stipend (\$) pay

As a member of this *Leadership Team*, you will be asked to participate in some of the following ways:

If you are interested in joining this *Leadership Team*, please contact: <u>Dorene_Perez@ivcc.edu</u> (815) 224-0221 or Jim Gibson@ivcc.edu (815) 224-0453

PLEASE RESPOND TO JIM OR DORENE BY <u>THURS. DEC. 1</u>, IF YOU WANT TO JOIN THE TEAM.





MIMIC/NSF Leadership Team Commitment

am interested in participating in the following Leadership Team activities:	
Speaking to a high school class about IVCC programs.	
Assisting with the Edible Car contest	
Participating in Career Nights and/or Job Fair	
Speaking to a community organization	
Assisting with the MIMIC Fair (freshmen only)	
Participating in a conference, March 30-31, at Indianapolis, Ind. including preparation of a poster. The conference is the 2007 Annual American Society for Engineering Education Illinois/Indiana conference.	
Mentoring IVCC Freshmen who are pursuing a degree in your field	
Serving as an Advisory Board member for student input in the developmen curriculum	t of
Working on other promotional/recruiting activities	
Starting a student chapter of a technical organization	
Developing a student-initiated activity	
understand that I must participate in a minimum of five Leadership Team activitien refer to earn the full stipend for the semester.	es in
(signature) (date)	_

Selection for the MIMIC/NSF Leadership Team is intended to honor students who have demonstrated leadership potential. The Leadership Team recognizes deserving students by providing additional opportunities for personal and professional growth.

LEADERSHIP TEAM PUBLICITY RELEASE & INFORMATION

	J
ILLINOIS	VALLEY
	TY COLLEGE

Photo/Video/Statement Release

I hereby release rights to photographs, video and statements taken by Illinois Valley Community College to use in possible promotional or, educational materials, including IVCC's Web site.

	Signature	Date	
1.	Your name, as you would like to see it	in news releases:	
	(please print)		
2.	Current address:		
3.	Phone numbers - Home: Cell:	Work: (If okay to call)	
4.	Email address: (print carefully)		_
5.	Date of birth:/	Freshman Sophomo	re
6.	High School:	Year graduated:	
7.	Have you already taken Strategies For	College (SFC 1000) yes no	
	If not, do you think you will enroll in the	future (tuition reimbursed) yes n	0
8.	Current major:		
9.	Career plans:		
10	. Current job:		_
11	.Comments about leadership team (benefits, what you hope to gain from it,	

why you joined, etc.) Continue on back if you wish.

Leadership Team Early Survey

Name					
Have you taken Strategies	For College?	yes	curr	ently enrolled	no
If YES, Strategies For	College has b	een beneficial.			
1	2	3	4	5	
Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
PLEASE EXPLA	IN: (continue c	on back of page	e if needed)		
As you begin your Leaders your communication skills		eriences, how	comfortable/o	confident do you feel a	about
1	2	3	4	5	
Very	Somewhat	Neutral	Somew		
Comfortable	Comfortable			ortable Uncomfortable	e
I hope my leadership team	experiences w	vill help me to	improve my	communication skills.	
Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
How comfortable/confider	nt do you feel a	about your team	nwork skills. 4	5	
Very	Somewhat	Neutral	Somew	hat Very	
Comfortable	Comfortable	e	Uncomfo	ortable Uncomfortable	e
I hope my leadership team	experiences w	_		teamwork skills.	
1	. 2	3	4	5	
Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
How comfortable/confider	nt do you feel a	bout your deci	ision-making		
1	2	3	4	5	
Very	Somewhat	Neutral	Somew	•	
Comfortable	Comfortable	e	Uncomfo	ortable Uncomfortable	e
I hope my leadership team 1	experiences w	vill help me to	improve my	decision-making skills 5).
Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
How comfortable/confider	nt do you feel a	about your abil	ity to take ini 4	itiative.	
Very	Somewhat	Neutral	Somew	hat Very	
Comfortable	Comfortable			ortable Uncomfortable	e
I hope my leadership team	experiences w	vill help me to	improve my	ability to take initiativ	e.
Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
~ o g. j g c c	0		21245100	~ andagi 00	

How comfortable/confide	nt do you feel a	ıbout your abılı	ty to motive	people	e to accomplish a	
common goal						
1	2	3	4		5	
Very	Somewhat	Neutral	Somew	hat	Very	
Comfortable	Comfortable	2	Uncomfo	rtable	Uncomfortable	
I hope my leadership tean	n experiences w	vill help me to i	mprove my	ability	to motivate peop	le to
accomplish a common go	al.					
1	2	3	4		5	
Strongly agree	Agree	Neutral	Disagree	Stron	gly disagree	
Please explain						
How comfortable/confide	nt do you feel a	lbout your abili	ty to mentor	other	students in your f	field
1	2	3	4		5	
Very	Somewhat	Neutral	Somew	hat	Very	
Comfortable	Comfortable	e	Uncomfo	rtable	Uncomfortable	
I hope my leadership tean students in my field.	n experiences w	vill help me to i	mprove my	ability	to mentor other	
1	2	3	4		5	
Strongly agree	Agree	Neutral	Disagree	Stron	gly disagree	

Any comments?

Leadership Team Followup

Name	; <u></u>					
1. Dic	l you take Strategies	For College?	yes	no		
	If YES, Strategies	s For College h	elped me with	n my other cou		
	1	2	3	4	5	
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	If YES, Strategies	s For College h	elped me in n	ny work on the	e leadership track.	
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	PLEASE EXPLA	IN: (continue o	on back of pag	ge if needed)		
2. Dic	l you attend the Etiq	uette Dinner?	yes	no		
	If YES, the Etiqu	ette Dinner was	s beneficial to		_	
	l Gu 1	2	3	A	5	
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	PLEASE EXPLA	IN: (continue	on back of pa	ge if needed)		
3. Dic	I you participate in o	-	ofessional con no	ferences as a l	Leadership Team member?	?
	If YES, participat	tion in the conf	erence(s) was	beneficial to 1	me. 5	
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree	
	PLEASE EXPLA	IN: (continue	on back of pa	ge if needed		
4. Ple	ase check any activi	ties you partici	pated in or or	ganized:		
	Speaking to a high	school class at	oout IVCC (w	hat school/cla	ss?)	
	Assisting with the	Edible Car Cor	ntest for IVCC	students		
	Assisting with the	Edible Car Cor	ntest for kids			
	Participating in Ca	reer Night and	or Job Fair (w	which?)		
	Speaking to a com	munity organiz	ation (what or	rganization?)		
	Assisting with the	MIMIC Fair (o	nlv if vou we	re not on a MI	MIC team)	

Participating in the	ASEE Illinois/I	ndiana Confe	rence poster session	n
Working on other p	romotional/recr	ruiting activition	es (please explain)	·
Assisting / Mentoring	ng IVCC studer	nts who are pu	rsuing a degree in	your field
Other (please explain	in)			
5. How comfortable/confic	dent do you feel	about your co	ommunication skill	s at this point.
1	Z 1 4))	4 1 4	•
Very Comfortable	Somewhat Comfortable	Neutral		Very Uncomfortable
6. My leadership team exp	periences helped	d me to impro	ve my communicat 4	tion skills. 5
Strongly agree	Agree	Neutral	Disagree Stron	ngly disagree
7. How comfortable/confid	dent do you feel	about your te	amwork skills.	
1	2	3	4	5
Very Comfortable	Somewhat Comfortable	Neutral		Very Uncomfortable
8. My leadership team exp	eriences helped	me to improv	e my teamwork sk 4	ills.
Strongly agree	Agree	Neutral	Disagree Stron	ngly disagree
9. How comfortable/confid	dent do you feel	about your de	ecision-making ski	
1	2	3	4	5
Very Comfortable	Somewhat Comfortable	Neutral		Very Uncomfortable
10. My leadership team ex	periences helpe	ed me to impro	ove my decision-ma	aking skills.
Strongly agree	Agree	Neutral	•	ngly disagree
11. How comfortable/conf	ident do you fee	el about your a	ability to take initia	ative.
Very Comfortable	Somewhat Comfortable	Neutral	Somewhat Uncomfortable	Very Uncomfortable
12. My leadership team ex	periences helpe	ed me to impro	ove my ability to ta 4	ke initiative.
Strongly agree	Agree	Neutral	Disagree Stron	ngly disagree
13. How comfortable/conf common goal	ident do you fe	el about your a	ability to motive po	eople to accomplish a
1	2	3	4	5
Very	Somewhat	Neutral	Somewhat	Very
Comfortable	Comfortable		Uncomfortable	Uncomfortable

14. My leadership team experiences helped me to improve my ability to motivate people to accomplish a common goal.					
accomp	onsn a common goa 1	11. 2	3	4	5
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
15. Ho	w comfortable/conf	fident do you fo	eel about your a	ability to me	ntor other students in your
Tiera	1	2	3	4	5
	Very	Somewhat	Neutral	Somew	
	Comfortable	Comfortable			ortable Uncomfortable
16. My my fiel	_	xperiences help	ed me to impro	ove my abilit	y to mentor other students in
,	1	2	3	4	5
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
17 Mv	experiences as a le	eadership stude	nt have been be	eneficial to n	ne
17.111	1	2	3	4	5
	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
18. Wh	at activities do you	suggest for fu	ture leadership	students?	

19. Any other suggestions or comments?

Survey of Academic Assistance (given to students in classes with Leadership Team members)

1.	Your program: engineering, CAD electronics
2.	Are you currently a freshman a sophomore
3.	In the past year, did you ask for any help with the classes or labs in your field from any of the following students, who are members of the Leadership Team:
	Engineering/ engineering design Electronics (list them)
	(See list in #4 below for examples of some of the type of help you might have requested)
	yes (If yes, please continue) no (If no, skip to question #7)
4.	If yes, what types of help did you request?
	questions about class content, assignments or the textbook
	help with computer programs/software in your field (such as Auto CAD, Solid Works, Multi Sim, Rockwell Automated Challenge, etc.)
	help with general purpose computer programs (such as Word, Power Point or Internet searches)
	help with equipment/technology specific to your field (such as rapid prototyping, component identification, PLC, oscilloscopes, meters, bread boarding, etc.
	help in preparing working drawings, assemblies, or detail drawings
	help with communication assignments (such as oral presentations or written reports)

help with course material outside of your field	
other (please explain)	
5. How often did you receive the help you needed from any of those students?	
Every time Most of the time Some of the time Seldom New 10 9 8 7 6 5 4 3 2	/e
Comments:	
6. Please rate the attitude of the leadership team students from whom you requested help:	
Very positive & tried to helpSomewhat positive & somewhat triedSomewhat Negative & not especially helpfulVery negative & not at all helpful	
Comments:	
7. If you did NOT request help from any of the listed students, please indicate why you didn't:	
did not need help	
did not know those students were supposed to provide help	
other (please explain)	_
8. Suggestions for future leadership teams:	

Leadership Team Member Survey – Academic Assistance

1. Your pro	ogram:	engineering	g, CAD	electronics		
classes	or while you w for examp	ı were working	g on your pro	te to other students in your ojects in the lab? (See list in f assistance you might have		
	yes		_ no			
3. If yes, p	olease indica	ate the types of	assistance y	ou have provided:		
		g questions about the genments or the		itent, general questions		
	help with computer programs/software in your field (such as Auto CAD, Solid Works, Multi Sim, Rockwell Automated Challenge, etc.)					
		general purpo int or Internet	-	programs (such as Word,		
	rapid pro	equipment/tectotyping, composes, meters, but	ponent identi			
	help in pr drawings	reparing worki	ng drawings	, assemblies, or detail		
		communications or written	•	nts (such as oral		
	_ help with	course materi	al outside of	your field		
	other (ple	ase explain)				

4.	4. How often were you able to provide the help the student(s) needed?						
	Every time 10 9		Some of the time 5 4	Seldom Never 3 2 1			
	Comments:						
5.	How comforta	ble were you in pro	oviding that help?				
	Very Comfortable	Somewhat Comfortable	Somewhat Uncomfortable	Very Uncomfortable			
	Comments:						
6. My leadership team experiences provided me with the guidance/training I needed to provide assistance to other students.							
	Strongly Agree	Agree	Disagree	Strongly Disagree			
	Comments:						
7.	Suggestions fo	r future leadership	teams:				

Establishing a Leadership Team

Steps in a Establishing a Team

The steps below will guide you in establishing a leadership team

- 1. Decide the goals for a student leadership team.
- 2. List the instructors and areas or disciplines that might participate.
- 3. Secure approval from administrative staff and recruit the instructors.
- 4. Determine types of activities.
- 5. Set a budget.
 - What funds are necessary for start up?
 - Instructor/staff stipends to organize/supervise the team and to provide students with additional training to be successful on the team?
 - Student stipends?
 - Training activities?
 - Cost for team activities (conferences etc.)
 - Other?
- 6. Determine potential funding sources
 - Grants
 - Donations
 - Fundraising
- 7. Acquire or plan for funding

Do you have an upcoming meeting or in-service session in which staff members could brainstorm ideas for a leadership team?

Once these planning issues are addressed, organization begins:

- Providing participating instructors with planning time together
- Determining criteria for picking team members and deciding who will participate in the selection process
- Setting student requirements
 - o Role they will play at your college/school
 - o Responsibilities they can reasonably assume
 - o Who they will serve
 - o Time commitment the team might demand
 - o How many you hope to recruit
- Deciding how to invite students to the team
- Planning and scheduling a kickoff event for team members Determining potential training needs of participating students
- Organizing and scheduling those trainings
- Determining and providing communication channels for the student team (e-mail, discussion board?)
- Selecting, adapting, or developing forms for the team to use for approval at various stages
- Designing assessments of student performance
- Planning recognition events

Once a team is organized, Leadership Team members should participate in reviewing and revising the team organization and in deciding, organizing and planning their training and activities.

Brainstorming Prompt for Leadership Team Ideas

Review the information about the Leadership Team (LITE WAVE) at Illinois Valley Community College, then brainstorm on the questions listed below.

Brainstorming questions

- 1. Who might be on your student team?
- 2. What would the goal(s) or purpose(s) of your team be?

- 3. What activities would be useful to the team members?
- 4. What activities would be useful to other students, your college/school or your department?
- 5. What responsibilities would a leadership student have?
- 6. What might your kickoff event be?
- 7. Any ideas for funding sources?

Additional Information

For further information on the Leadership Team

See the NSF grant web site at

http://www.ivcc.edu/mimic/nsf/leadership

Reference

Cordova-Wentling, Rose Mary and Raymond Price. Human Behavior Skills in Engineering Education, <u>Proceedings of the American Society for Engineering</u> Education Annual Conference, 2007.