

**PSCME – SHOREWOOD STUDENT SURVEY 2005**

**Pre Survey Results (N = 22)**

<b>Grade:</b>	
Range: 9 -12	9 = 9.1%, 10 = 40.9%, 11 = 40.9%, 12 = 4.5%
<b>Race:</b>	
Black/African American	0%
Pacific Islander	0%
Latina/o American	0%
White/Caucasian American	77.3%
Asian American	4.5%
Native American/Alaskan	4.5%
Other (Russian, Greek, White/Native American)	13.6%
<b>Gender:</b>	
Female	0%
Male	95.5%
No Response	4.5%
<b>High School Classes Completed:</b>	
9 <sup>th</sup> Grade Science	72.7%
Biology 1	36.4%
Biology 2	4.5%
Integrated Math 1A	72.7%
Integrated Math 2A	27.3%
Integrated Math 3A	4.5%
Integrated Math 1B	31.8%
Integrated Math 2B	13.6%
Integrated Math 3B	4.5%
Integrated Math 2AH	4.5%
Integrated Math 3AH	4.5%
Integrated Math 2BH	4.5%
Integrated Math 3BH	4.5%
Note: No other High School Classes were indicted as completed.	
<b>Plans Immediately After High School:</b>	
Full-time college, no work	4.8%
Full-time college, full-time work	4.8%
Full-time college, part-time work	47.6%
Part-time college, part-time work	14.3%
Part-time college, full-time work	9.5%
Part-time college, no work	0%
No college, work full time	0%
No college, no work	0%
Armed Forces	19.0%
<b>Highest Level of Education:</b>	
Associate of Arts (AA) or vocational degree	6.3%
Bachelors Degree	43.8%
Bachelors Degree, some graduate work	18.8%
Masters Degree	25.0%
Masters Degree, some work toward doctorate	0%
Doctorate	0%
Other (Law Degree, Medical Doctor)	6.3%
<b>Top 2 first choices for a college major:</b>	
Engineering	18.2%
Computer and Information Science	13.6%
<b>Top 3 second choices for a college major:</b>	
Manufacturing	22.7%
Parks, Recreation, Leisure, and Fitness	9.1%
Physical Science	9.1%

**Please tell us how much you agree or disagree:**

Items	Strongly Disagree 1	Disagree 2	Agree 3	Strongly Agree 4	Mean	Standard Deviation
I am concerned about being able to complete the class requirements.	33.3%	33.3%	28.6%	4.8%	2.05	0.92
I am worried that I will not understand the math involved in the class.	28.6%	52.4%	14.3%	4.8%	1.95	0.80
I am worried that I will not understand the science involved in the class.	19.0%	57.1%	19.0%	4.8%	2.10	0.77
I plan to study or work in manufacturing after completing high school.	0.0%	38.1%	52.4%	9.5%	2.71	0.64
I think that participation in this class will help me get a job.	0.0%	4.8%	57.1%	38.1%	3.33	0.58
I expect this class to be an "easy A."	4.8%	52.4%	28.6%	14.3%	2.52	0.81
I think this class will be more fun than traditional classes	0.0%	4.8%	33.3%	61.9%	3.57	0.60

**How would you describe your ability level for the following:**

Items	Beginner 1	Intermediate 2	Advanced 3	Mean	Standard Deviation
Math Skills	13.6%	68.2%	18.2%	2.05	0.58
Science Skills	13.6%	77.3%	9.1%	1.96	0.49
Engineering Skills	59.1%	40.9%	0.0%	1.41	0.50
Technology Skills	31.8%	45.5%	22.7%	1.91	0.75
Manufacturing Skills	50.0%	50.0%	0.00%	1.50	0.51
Problem Solving Skills	9.1%	54.5%	36.4%	2.27	0.63
Skills in Hands-on Manufacturing Processes	36.4%	50.0%	13.6%	1.77	0.69

**Answer the following:**

Manufacturing sectors such as biotechnology, transportation, pharmaceuticals, and electronics need workers.	<b>True: 86.4%</b> , False: 4.5%, No Response: 9.1%
Basic skills manufacturing employees need are communication, teamwork, and a good work ethic.	<b>True: 95.5%</b> , False: 0%, No Response: 4.5%
Basic elements of most manufacturing operations are:	<b>A. Input, Process, Output, Feedback 72.7%</b> B. Input, Problem Solving, Goal Attainment 4.5% C. Problem, Process, Goal Attainment 9.1% No Response 13.6%

***Please note: Response totals may not equal the number of students because of the open-ended nature of the following questions.***

**What do you hope to learn by participating in the course?**

How to work with metal and use machinery (59%)  
Skills to get a job (32%)  
Make cool stuff (5%)

**What is your greatest concern about participating in the course?**

Failing/Not understanding (23%)  
Learning what we need to get a job (14%)  
Getting hurt (9%)  
Doing it/Welding (9%)  
Getting to the college/conflict with schedule (9%)  
Won't like it (5%)  
Won't make anything (5%)

**Please include additional comments or concerns:**

No written comments

## Post Survey Results (N = 13)

**Please tell us how much you know about the following:**

Items	Hardly Anything 1	Not Too Much 2	Some 3	Lots 4	Mean	Standard Deviation
Manufacturing planning	7.7%	15.4%	76.9%	0.0%	2.69	0.63
Safety in manufacturing	0.0%	0.0%	30.8%	69.2%	3.69	0.48
Total quality management	7.7%	7.7%	84.6%	0.0%	2.77	0.60
Precision measurement	0.0%	0.0%	61.5%	38.5%	3.38	0.51
Interpreting technical drawings	0.0%	7.7%	46.2%	46.2%	3.38	0.65
Shop skills	0.0%	0.0%	30.8%	69.2%	3.69	0.48
Hazardous materials	0.0%	7.7%	46.2%	46.2%	3.38	0.65
Interpersonal effectiveness	30.8%	23.1%	30.8%	15.4%	2.31	1.11
Manufacturing businesses in the community	7.7%	30.8%	46.2%	15.4%	2.69	0.85
Careers in manufacturing	7.7%	15.4%	30.8%	46.2%	3.15	0.99

**Contribution of this class to your skills in the following areas:**

Items	No Contribution 1	Some Contribution 2	Large Contribution 3	Mean	Standard Deviation
Creative Thinking Skills	0.0%	69.2%	30.8%	2.31	0.48
Independent Work Skill	7.7%	53.8%	38.5%	2.31	0.63
Small Group Work Skills	7.7%	46.2%	46.2%	2.38	0.65
Decision Making Skills	15.4%	69.2%	15.4%	2.00	0.58
Reasoning Skills	7.7%	69.2%	23.1%	2.15	0.55
Writing Skills	46.2%	53.8%	0.0%	1.54	0.52
Skills of Persistence in Task Completion	7.7%	46.2%	46.2%	2.38	0.65
Problem Solving Skills	15.4%	38.5%	46.2%	2.31	0.75
Math Skills	7.7%	69.2%	23.1%	2.15	0.55
Science Skills	23.1%	69.2%	7.7%	1.85	0.55
Technology Skills	7.7%	53.8%	38.5%	2.31	0.63
Manufacturing Skills	0.0%	38.5%	61.5%	2.62	0.51
Engineering Skills	0.0%	76.9%	23.1%	2.23	0.44

**Please tell us how much you agree or disagree:**

Items	Strongly Disagree 1	Disagree 2	Agree 3	Strongly Agree 4	Mean	Standard Deviation
This class was a valuable experience for me.	0.0%	7.7%	53.8%	38.5%	3.31	0.63
My teacher was available when I needed him.	0.0%	0.0%	38.5%	61.5%	3.62	0.51
I received enough guidance while completing projects.	0.0%	7.7%	23.1%	69.2%	3.62	0.65
Activities in this class were similar to work-like settings	0.0%	15.4%	53.8%	30.8%	3.15	0.69
I enjoyed working with other students in this class.	0.0%	0.0%	61.5%	38.5%	3.38	0.51
I enjoyed my day-to-day work in this class.	0.0%	0.0%	61.5%	38.5%	3.38	0.51
The class time was fairly balanced between instruction and project time.	0.0%	38.5%	46.2%	15.4%	2.77	0.73
I learned how to be a collaborative team member	0.0%	15.4%	61.5%	23.1%	3.08	0.64
Participation in this class has contributed to my self-confidence.	7.7%	15.4%	69.2%	7.7%	2.77	0.73
My involvement in this class has influenced my educational goals.	7.7%	7.7%	69.2%	15.4%	2.92	0.76
In the future, I want to take at least one more class in manufacturing processes.	7.7%	15.4%	46.2%	30.8%	3.00	0.91
As a result of participating in this class, I am now considering a career in this field.	0.0%	30.8%	53.8%	15.4%	2.85	0.69
Participating in this class has contributed to my personal growth.	0.0%	30.8%	61.5%	7.7%	2.77	0.60
I would recommend this class as a valuable experience to other students.	0.0%	0.0%	46.2%	53.8%	3.54	0.52

<b>Plans Immediately After High School:</b>	
Full-time college, no work	0.0%
Full-time college, full-time work	7.7%
Full-time college, part-time work	23.1%
Part-time college, part-time work	30.8%
Part-time college, full-time work	7.7%
Part-time college, no work	7.7%
No college, work full time	7.7%
No college, no work	0.0%
Armed Forces	15.4%
<b>Highest Level of Education:</b>	
Associate of Arts (AA) or vocational degree	9.1%
Bachelors Degree	27.3%
Bachelors Degree, some graduate work	9.1%
Masters Degree	18.2%
Masters Degree, some work toward doctorate	18.2%
Doctorate	0.0%
Other (Law Degree, Medical Doctor)	18.2%

**Please note: Response totals may not equal the number of students because of the open-ended nature of the following questions.**

**What was the most memorable part of this class? Why?**

Working with the tools (46%)  
The teacher (30%)  
When Mr. Holmes broke a tool insert because he didn't have the proper tools (15%)

**What was the most difficult aspect of this class for you?**

Nothing (23%)  
The measuring/the math (23%)  
Inability to use machines/ Machines were not available due to large class (15%)  
The module work (7%)  
When I didn't know what I was doing (7%)  
Using the tools (7%)

**Describe ways in which your teacher provided support to you.**

Helped us with anything (38%)  
Showed us how to make things out of metal (15%)  
He was always willing to answer a question (15%)  
Working on parts in class (15%)  
Showing how this will benefit in real life (7%)

**What was the greatest benefit to you from your participation in this class?**

Learning about the machines/ how to use the machines (23%)  
How to make things out of metal (15%)  
I plan to go into this field (15%)  
I don't know (15%)  
Learning to measure and teamwork (7%)  
Learning about the different metals (7%)

**What suggestions do you have to improve future class experiences?**

Change modules to make more interesting/hands on instead of worksheets (30%)  
The school needs to purchase more 'working' machines for the shop (15%)  
Keep Holmes as a teacher (15%)  
Everyone should have to learn how to weld (7%)