

# Western Student Learning Results (Program Outcomes) for 2012

Source: Student

# of Grads: 9

Program: Electromechanical Technology

# of Responses: 4

Outcome	Yes	No	Unk	NA	Result	Feedback
What did you like about this program?	4 100.00%	0	0	0		
					Yes	I like learning servo motors and stepper motors it was fun, and interesting.
					Yes	I liked the hands on experiences. I liked the few times we would get input on labs so we could make it something that seemed relevant to our understanding of the material.
					Yes	There was a lot of Questions that could not be answered by the instructor or he did not know how to explain them,Over time I believe he will grow to be a good teacher, but he still needs to change roles from a manager to a instructor
What would you change about this program?	4 100.00%	0	0	0		
					Yes	I would have liked it if we could have learned things a little more thoroughly. It's way easier to learn something if first the instructor lays out what is going to be taught, how it relates to or is used in conjunction with things we already learned, and then shows us how to do whatever it is we are learning. After that we try to do it on our own, while asking questions. After that we should be expected to be able to perform things by ourselves. We often skipped ahead right to the being expected to figure it out on our own for some classes. The project class was really nice to finally tie things together. It would be nice if while doing the hydraulic or pneumatic labs if we could work on actual machinery instead of trainers that only teach students how to plug hose A into slot C to watch D move. I didn't get anything out of those courses.
					Yes	Instructor needs to instruct more. We spent too much time trying to figure things out for ourselves and then being ridiculed when we had to ask too many questions.
					Yes	I would add more trainers for and update the computers.
					Yes	I would have to say the equipment is outdated and needs to be replaced, some areas I believe need to be hit a little longer. exp. Servo motors and stepper motors. Not so much the information but the programming.
Use effective communication skills.	4 100.00%	0	0	0		
					Yes	I do believe that it would have been nice to have an instructor that was not fresh into teaching it made it hard for us. I think the school should have planned this a little better and maybe had him watch the group for a year with an experienced instructor.
Apply mathematical concepts.	4 100.00%	0	0	0		
					Yes	When it came to figuring out what size resistors to install to slow down a motor we used mathematics.
					Yes	Once again I think the Tech Math was a little too much for the program. it could have been easily done with electrical math 1,2,3 leaving more time for the actual learning of the program.

<b>Outcome</b>	<b>Yes</b>	<b>No</b>	<b>Unk</b>	<b>NA</b>	<b>Result</b>	<b>Feedback</b>
Transfer social and natural science theories into practical applications.	4 100.00%	0	0	0		Yes We Applied laws of gravity to our ramp on our final project. Yes This part of the course was good and explained well.
Demonstrate ability to think critically.	4 100.00%	0	0	0		Yes Figuring out how to program our touch screen for our card dealer we had to do critical thinking. Yes I do think more trouble shooting would have been nice to see.
Demonstrate ability to value self and work ethically with others in a diverse population.	4 100.00%	0	0	0		Yes This was a obstacle for some of us but by the end all that matters is the job gets done safe and efficient. Yes Every day we had to be self motivated.
Use technology effectively.	4 100.00%	0	0	0		Yes like I said earlier that the outdated equipment was used effectively. Yes Everyday
Make decisions that incorporate the importance of sustainability	3 75.00%	1 25.00%	0	0		Yes Everyday Yes This was accomplished No I don't think we covered this at all.
Build or assemble electromechanical hardware	4 100.00%	0	0	0		Yes Yes our final project and our power supplies and our multimeters. Yes This was effective Yes We did this, but the big issue was that we had to teach ourselves how to do things, many times without instruction.
Adhere to proper safety practices and procedures	4 100.00%	0	0	0		Yes Everyday Yes This was one of the main topics that they drilled home with equipment and tools.
Troubleshoot and repair electromechanical and electronic equipment and systems	4 100.00%	0	0	0		Yes as we were made to do things ourselves, we also had to troubleshoot what we did. Yes Like I said repair yes, troubleshoot more time needed Yes Sometimes I felt like we didn't really get to understand the physical actions we were doing. At the end of a lot of labs, I left thinking well we accomplished that...but what did we really do? We didn't get to see the big picture of what we were doing a lot it felt like. Yes Final project we had to trouble shoot and our labs we did to.

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Perform preventative maintenance	4 100.00%	0	0	0		Yes We didn't cover this really as far as I remember. Yes This was good Yes Everyday
Maintain parts and equipment inventory including service documentation.	3 75.00%	1 25.00%	0	0		Yes Everyday we did this Yes We didn't cover this. Yes Maintain parts and equipment inventory was good.
Modify, install, maintain, and program electronic and electromechanical systems	4 100.00%	0	0	0		Yes Everyday we worked with something different. Yes Good
Modify, install, and maintain hydraulic and pneumatic systems.	4 100.00%	0	0	0		Yes First year we did.. Yes Good Teacher he explains well and you can tell he loves his job Yes I think there are more interesting and better ways to teach this. Bring in a motorcycle brake system or some 'system' that we can see the big picture of how and why it works. Trainers are a good supplement but plugging hoses into cylinders to watch them go up and down didn't do it for me. I don't think that taught me many of the concepts.
Install, modify and program industrial network systems on the devices and control levels.	4 100.00%	0	0	0		Yes Everyday we did.. Yes This was kind of a nightmare most times. Again, instruction before the lab would have been super helpful to just get an understanding of what we were doing and how to go about it. Obviously we are connecting things together. We knew that. But apart from that, we didn't get much background into concepts. Yes would have been nice if the instructor had more knowledge on this subject
<b>Aggregate Assessment of Achievement</b>	<b>66 97.06%</b>	<b>2 2.94%</b>	<b>0</b>	<b>0</b>		