

Western Student Learning Results (Program Outcomes) for 2012

Source: Student

of Grads: 150

of Responses: 13

Program: Bio-Medical Electronics

Outcome	Yes	No	Unk	NA	Result	Feedback
What did you like about this program?	13 100.00%	0	0	0		
					Yes	There was hands on which I like the most for learning.
					Yes	I like that this program has a really high rate of students getting jobs before they graduate. I really liked the hands on labs that were taught to you.
					Yes	It really put me up to a challenge. I feel this challenge will be for the better, putting all the countless hours into my studies. I had a great experience here at Western and it is a very learning friendly environment.
					Yes	Challenging electronics studies; improved my problem-solving skills.
					Yes	I liked that we got to go to Gunderson Lutheran for clinicals,
					Yes	Gave a decent base of understanding about anatomy and electronics.
					Yes	Hands-on, small class size, can use items learned in the real world.
					Yes	I like the electronics knowledge that I got.
					Yes	I liked that the Biomed have their own lab as opposed to sharing it with another program. I liked the hands on learning and the ability to go to the HSC and Gundersen-Lutheran Hospital.
What would you change about this program?	13 100.00%	0	0	0		
					Yes	Some labs were very out dated and just thrown at you. There was few direction of what to do or how to do the lab. I get that you want us to figure stuff out on our own but when it comes to a field you have no idea what any type of outcome is suppose to be, it's kind of hard.
					Yes	Try to get new equipment to work with, most of the equipment is very old.
					Yes	I feel that the curriculum has what I need to be successful
					Yes	Get rid of lab reports, since we have to take a technical reporting class. Remove Jon Houge as an instructor, he does not care about students and lacks any motivation or compassion.
					Yes	I would have liked to be encouraged or made to get at different medical devices that are hanging around the lab and "play" with them.
					Yes	Move Tech Reporting to first semester.
					Yes	More attention is necessary on the use of technical manuals and reading schematics. Techs should not run first/immediately to some "tech support."
					Yes	If I were to change one thing about the course I would put more hands work into the courses. We had very limited time in the lab for most of our core classes. Also a few of our classes were 4 hours long and really took a tole, 4 hours was a long time for me to concentrate.

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					Yes	Electronics course should cover 3 phase power. In the imaging field, everything runs off of 3 phase power and we skipped over that section during electronics class.
						Focus far less on windows and DOS commands. Most medical equipment is Unix based and the 1 lab simulation that we were given didn't help my understanding of Unix at all.
					Yes	More hands on experience in solid state.
Use effective communication skills.	13	100.00%	0	0	0	
					Yes	I have achieved the effective communication skills coming out of this program. First reason, it got me a job in the Biomed career. Second, I have received multiple phone-calls from departments on how well I communicated with them.
					Yes	Communication was used everyday because we worked in teams and needed to use effective communication in order to complete the tasks at hand.
					Yes	The communication was pretty good, sometime I wish I got answers to all the questions I asked in an email
					Yes	For the most part yes, I felt at times some things could have been explained a lot better.
					Yes	Less emphasis on Power Points, the only people dealing with this are manager level and higher. And you learn this in most leadership training. This skill is not necessary for new biomed.
					Yes	I feel this was adequately achieved.
Apply mathematical concepts.	13	100.00%	0	0	0	
					Yes	Good
					Yes	The program seemed light or overly brief relative to the application of concepts taught, whether mathematical or otherwise.
					Yes	Yes, I am confident on with my math skills I have learned from this program. I haven't had to use a specific formula but it's nice knowing I have the knowledge to use them when needed.
					Yes	I feel this was adequately achieved.
					Yes	The math was hard, prepared me for the program well
					Yes	In our labs were were required to use the skills we learned in tech math 1 to solve problems.
					Yes	Good level of math.
Transfer social and natural science theories into practical applications.	13	100.00%	0	0	0	
					Yes	Physical Processes certainly achieved this outcome.
					Yes	We did use skills that we learned in physics such as Pythagorean Theorem and pneumatic skills to troubleshoot and solve problems in our labs
					Yes	Good
					Yes	The information was presented in terms and a way that I could understand what was being talked about
Demonstrate ability to think critically.	13	100.00%	0	0	0	

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					Yes	In some areas yes, in others we did not have enough learning at the time to be close to figure out the problem.
					Yes	Absolutely
					Yes	All the time. My manger says I can do this so I must be able too.
					Yes	More troubleshooting labs. The more practice people have with thinking on their own the better their critical thinking will become.
					Yes	We were asked to problem solve
					Yes	We did limited troubleshooting where we had to think critically and figure out a problem. A lot of our labs were to learn the theory and function of medical units.
Demonstrate ability to value self and work ethically with others in a diverse population.	13	100.00%	0	0	0	
					Yes	Absolutely. Especially in the Internship.
					Yes	yes
					Yes	I would have to say yes to this question because I had a bunch of individuals in my program that had different backgrounds.
Use technology effectively.	13	100.00%	0	0	0	
					Yes	somewhat, old equipment
					Yes	We had learned a lot about computers and how they work but as far as medical equipment, the equipment was old and outdated which really will not help us, but we still learned the theory of operation
					Yes	Absolutely
					Yes	Some of the equipment is very old however, the point was demenstrated
					Yes	Yes, I'm comfortable working with all sorts of technology.
Make decisions that incorporate the importance of sustainability	13	100.00%	0	0	0	
					Yes	yes
					Yes	We signed our name on every piece of equipment that we inspected. That has a great deal sustainability on our parts, having the confidence and knowledge to feel comfortable.
					Yes	Including a unit on how a hospital makes its money. This might explain away some of the questions as to why management is pushing on certain topics and also to gain an understanding of budgets.
Demonstrate clinical workplace ethics	13	100.00%	0	0	0	
					Yes	Absolutely
					Yes	Our internship explains everything here. This gave me the real life experience and I learned how to to use my skills to communicate in the workplace.
Utilize knowledge of anatomy, physiology, and medical terminology.	13	100.00%	0	0	0	
					Yes	Yes, I can have a conversation or just listen to hospital personnel describe their problems using their lingo.
					Yes	Absolutely

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					Yes	yes, but I felt that a lot of this is not needed, we need to know terminology yes, but when it comes down to the ion gates, what sodium does to them, we do not need to know that info. I am already hired and have not had to use that learning yet, and neither has any of the other tech I know. Some of the physiology and anatomy is not needed.
					Yes	Medical terminology was given correctly
					Yes	We had a couple classes on anatomy and also one on terminology but more terminology would have been helpful. We were never really tested on terminology.
Demonstrate understanding of the machine/physiology interface.	13	100.00%	0	0	0	
					Yes	Like I said earlier we had a lot of experience on theory but because of the age, not a lot on interfaces of newer units. But however in our clinical experience we seen new units.
					Yes	yes
					Yes	Definetly
Instruct others in the operation of Biomedical equipment.	13	100.00%	0	0	0	
					Yes	More could have been done in this regard.
					Yes	She did a good job
					Yes	Focus more on this, showing techs how to properly use the device prevents future breakages.
					Yes	Yes we just had a final that consisted on giving the class a 30 minute in service presentation
Maintain biomedical equipment using test equipment and hand tools.	13	100.00%	0	0	0	
					Yes	Could always do more. More practice creates better efficiency.
					Yes	Yes, I do that everyday at work.
					Yes	Yeah, this was an everyday occurrence at clinical
Demonstrate basic electronics skills.	13	100.00%	0	0	0	
					Yes	Focus more on block diagrams. 90% of troubleshooting is at the board level now. It is cheaper to replace the board than spend 4 hours trying to find the bad component. Not to mention that even if you do find the bad component, the closest order-able part number is the whole board anyway.
					Yes	Mitch did a great job!!!
					Yes	I was taught electronic skills
					Yes	Yes, I do troubleshooting.
					Yes	Summer electronic courses would have benefitted me from forgetting much of the skills I learned from the first year to the second year.
					Yes	Mitch S. was one of the best teacher I have ever had.
Demonstrate an understanding of computers and networks used with biomedical equipment.	13	100.00%	0	0	0	
					Yes	Medical Networks and operating systems was helpful class

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					Yes	Actual devices that have a computer on board run Unix. Please adjust curriculum to address this. Networking was fine.
					Yes	Specific courses taught me a good understanding about networks, however a great deal more will need to be learned to understand them more clearly
Explain aspects of imaging systems.	13 100.00%	0	0	0		
					Yes	Great job!
					Yes	Yes, I know the aspects of imaging but right now my new job deals nothing with imaging.
					Yes	Good job.
					Yes	Absolutely
Aggregate Assessment of Achievement	221 100.00%	0	0.00%	0	0	