

# Owens Community College

## Biomedical Electronics Major Advisory Meeting

Date: March 22, 2013

Location: Honey Diner, Walbridge, OH

Industrial Attendees: Al Noller, Tom Sbrocchi, Mike Sparks

Student Attendees: Jason Jacob

Owens Attendees: Resmi Krishnankuttyrema, Stan Paige, Jacey Parks, Kristen Rothfeld, Diana Stachowiak, Paul Svatik, Randy Wharton

Topic	Discussion/Rationale	Recommendation/Decision/Action
Call to Order and Review of Previous Minutes	<ul style="list-style-type: none"> <li>The meeting was called to order at 12:15 p.m. by Chair Mike Sparks.</li> <li>All minutes are posted to the Owens website under Academics, then the appropriate program.</li> </ul>	<ul style="list-style-type: none"> <li>Minutes were reviewed and approved.</li> <li>Anyone with changes in address, email, or phone number, should give that information to Darla Greer.</li> </ul>
Enrollment and Retention Report	<ul style="list-style-type: none"> <li>The Biomedical program enrollment is down 30 students when compared to last spring (from 93 to 63 students).</li> <li>The Biomedical Electronics Certificate has 2 students, down from 4.</li> <li>Overall College enrollment is down 2.1%.</li> <li>School of Technology (SoT) enrollment is down 7.8%.</li> <li>The Biomedical program has the highest placement of graduates in positions than all of the other EET programs, and that is thanks to the advisory members.</li> </ul>	<ul style="list-style-type: none"> <li>The College is working with area high schools in offering the dual enrollment option and also with area universities on articulation agreements.</li> <li>All faculty are encouraged to conduct high school visits to recruit more students. The Admissions Office is creating a committee to assist faculty in getting them out to the high schools.</li> </ul>
Faculty Report	<ul style="list-style-type: none"> <li>Mike Sparks reported that the internship class is going very well with good students. The Biomed program seems to draw the cream of the crop when it comes to electronic students. These students are more focused on their careers. It gives Mike satisfaction in knowing that these students are very employable.</li> <li>Paul Svatik reported that he held a Biomedical Internship student meeting earlier today. There will be 11 taking the internship in the fall. Two already have positions.</li> <li>Resmi Krishnankuttyrema is following Paul Svatik and getting more familiar and comfortable with the program.</li> </ul>	<ul style="list-style-type: none"> <li>The internship sites are tremendous with what they offer the Biomedical students. The department heads give the program good support making the program very effective.</li> <li>Owens requires background check and 10 panel drug testing. Interns were informed they should double check with the internship site regarding hepatitis and TB testing.</li> </ul>
Student Report	<ul style="list-style-type: none"> <li>Student Jason Jacob will be graduating from the Biomedical program in May. He is interning at UPMC and comes from a trades and construction background. He learned about the Owens program through the 24/7 magazine. He would be happy to help promote the program to high school students.</li> <li>Resmi Krishnankuttyrema let the students take apart power supplies in the EET 211 class and they really enjoyed it.</li> <li>Jason Jacob mentioned that the MESA Project has a warehouse in Findlay. They send refurbished hospital</li> </ul>	<ul style="list-style-type: none"> <li>Student Jason Jacob feels it would be beneficial for the program to have more hands-on opportunities with hospital equipment. Maybe the hospitals could donate old equipment for students to tear apart.</li> <li>If anyone has equipment to donate, please let Paul Svatik know.</li> <li>It was suggested Jason Jacob talk with the men from UPMC to see if they would be willing to oversee a student group who could help them refurbish the</li> </ul>

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	equipment to third world countries. There are a couple of guys from UTMC who are overseeing the effort.	MESA donated equipment.
Outcomes Assessment Status Report	<ul style="list-style-type: none"> <li>• Advisory members were asked for any input they may have on program outcomes or the curriculum map that was distributed.</li> <li>• The committee members were informed of the results of the Fall 2012 student learning outcomes assessment for Taskstream, namely the percentages for the Biomed core courses.</li> <li>• The currently required BIO 211 course services pre-nursing and dental hygiene students, who need in-depth knowledge of the cellular process. Biomedical students need more anatomy and physiology than cellular processes. BIO 121 may be a better fit.</li> <li>• The need for digital circuits in the Biomedical program was discussed. It is important for students to learn the process of analyzing digital circuits which also helps them to develop troubleshooting skills. Having digital circuits will enable the student a wider range of electrical/electronics positions.</li> </ul>	<ul style="list-style-type: none"> <li>• Advisory member agreed that current program outcomes are appropriate because the field is very broad and looks at biological sciences as well as electronics.</li> <li>• The EET Department will investigate the course materials and outcomes of both BIO 211 and BIO 121 to see which would be a better fit for Biomedical students.</li> <li>• It was agreed by all that the Biomedical Electronics students should continue to study digital electronics.</li> </ul>
Outcomes Competency Validation	<ul style="list-style-type: none"> <li>• There are industry standard competencies in all areas of the Biomedical program.</li> </ul>	<ul style="list-style-type: none"> <li>• There is hospital state-of-the-art learning and competency validation for this program.</li> </ul>
Professional Development, Partnerships and Articulation	<ul style="list-style-type: none"> <li>• Owens' partnerships with all the area hospitals are strong.</li> <li>• Chair and faculty are visiting the various high schools.</li> <li>• Dual enrollment (where high school students take College TAG approved courses for College credit) is continuing.</li> </ul>	<ul style="list-style-type: none"> <li>• The Department is working to get more internships for the other electronic degrees.</li> </ul>
Program and Curriculum Enhancements	<ul style="list-style-type: none"> <li>• The Ohio Board of Regents (OBR) is pushing to reduce overall program credit hours to 60-65. The program is currently at 73 credit hours, so courses will need to be eliminated.</li> <li>• The EET Department will be teaching C Programming rather than Visual Basic, in the near future.</li> </ul>	<ul style="list-style-type: none"> <li>• The EET Department is proposing to eliminate Composition II from the curriculum and including more technical writing in the lab portions of the courses. Committee members were asked to provide blank service reports to be used for homework assignments.</li> </ul>
Equipment, Facilities, and Staffing	<ul style="list-style-type: none"> <li>• The College has a hiring freeze in place at this time. With the hiring of Resmi Krishnankuttyrema, the program is in compliance with accreditation standards for faculty.</li> </ul>	<ul style="list-style-type: none"> <li>• Advisory members were asked to let Paul Svatik, Diana Stachowiak, or Resmi Krishnankuttyrema know if there is anything they feel needs adjustment in the program.</li> </ul>
Accreditation Status	<ul style="list-style-type: none"> <li>• All the Electrical/Electronics Engineering Technologies programs and certificates are accredited by ATMAE.</li> </ul>	<ul style="list-style-type: none"> <li>• Student collections will be gathered during the fall of 2013 and spring of 2014 for the spring 2015 visit.</li> </ul>
Other	<ul style="list-style-type: none"> <li>• The meeting adjourned at 1:35 p.m.</li> </ul>	<ul style="list-style-type: none"> <li>• Chair-Mike Sparks, Vice Chair-Steve Hanenkrath, Secretary-<i>Vacant</i></li> </ul>

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