

San Bernardino Valley College Electricity/Electronics Department  
Advisory Committee Minutes, April 3, 2012

**Attendees:**

Ed Szumski, Professor, Department Head Electricity/Electronics  
Carlos Busselle, Professor Emeritus, Electricity/Electronics, SBVC  
Bill Montgomery, County of Riverside (Telecommunications)  
Craig Monin, President, Lon's Electric Service  
Dr. Edd Ashley, School of Allied Health Programs, Loma Linda University  
Nita Leighton, Adjunct faculty, CFO, NDP Corp.  
Glen Graham, President of NPD Corp. (by mail)  
David Ebarra, Telecommunications Engineer, City of Moreno Valley  
Achala Chatterjee, Dean, Technical Division

Mr. Szumski opened the meeting at 6:00 p.m., with pizza, and beverages followed by introductions of all members attending. Ed Szumski, Department Head, Electricity/Electronics, began the discussion by reviewing our Student Learning Outcomes (SLOs) and department brochures which include the Programs, Certificates, Degrees, and Electricity and Electronics at San Bernardino Valley College including our General Electrician Certification Program requirements.

Mr. Szumski provided details of San Bernardino Valley College's connection with the statewide "Electrician Trainee" certification program and how the OSHA requirements course will be included in the course curriculum for the General Electrician Certification Program. I also reviewed the Electricity 091 class (solar) which will be taught for only the second time in the Fall 2012 semester.

We then went into a general discussion of interested topics and needed changes. Mr. Monin would like to see some more advanced curriculum in the ELEC 216 coursework along with newer technologies such as LED lighting systems and we still need more room to expand with our addition of solar (photovoltaic) fundamentals. He also suggested better security for the equipment and parts for our ELEC 216 and ELEC 217 classes. Mr. Szumski will look into the purchase of a cage like those in rooms T-109A and T-107A. Danny Hotchkiss (by mail) - suggested we try to get more of a variety of motors for the ELEC 217 class.

Nita Leighton for Glen Graham would like to see an intermediate and advanced PLC class and would like to see more electronics electives. Also our program should include coursework in microcontrollers and robotics. Mr. Busselle spoke to the instrumentation control and electrical section requirement for power plant and other uses and how these types of knowledge should be incorporated into our classes or a new class put together to cover this type of information. Nita Leighton spoke of adding a prerequisite of ELECTR 110 and ELECTR 111 for the ELEC 090, OSHA class. A general comment from the committee concerned the low number of women in our classes. Mr. Szumski will work with the STEM (Science, Technology, Engineer, and Math) group and work to recruit women into our classes.

The discussion then reflected past advisory committee discussions on how electricians should be skilled in the General Electrician Certification program and also have experience with fiber optic technologies, data and telephone networking fundamentals, and cable TV/satellite systems since all of these jobs are used in residential and industrial construction. Mr. Szumski mentioned that a few of our students have reported back that they work in the high desert for an avionics company. A small number of our students are asking about Biomedical Equipment Technician certification. We could put together a program of coursework and work with CSU Long Beach and/or Loma Linda University about transfer of units into their BS programs. According to the Bureau of Labor Statistics this field is expected to grow 27% by 2018, which is much faster than all other occupations (BLS, U.S. Department of Labor, *Occupational Outlook Handbook, 2010-2011 Edition*). Mr. Szumski will investigate these possibilities. Dr. Edd Ashley spoke of how our program graduates could benefit from entry into the BS/MS program in orthotics and prosthetics at Loma Linda University. Our students with an electronics and computer background could work well into this program because the newest prosthetic arms and legs use electronics/computers in their manufacture.

Mr. Szumski also mentioned that nine of our electricity/electronics courses transfer into the Electronics and Computer Engineering Technology Bachelor Degree at Cal Poly Pomona. Our program units also transfer into the Bachelor of Science Degree in Industrial Technology at CSU Los Angeles.

All of our advisory committee members spoke in favor of partnerships to link our community college with industry by requiring SBVC to reinstitute work experience and/or internship classes back into our course curriculum. The committee members agreed unanimously.

The meeting adjourned at 7:15 p.m. and everyone went on a tour of our electricity and electronics classrooms. Some of the advisory committee members were impressed at how much we teach in only four classrooms. Good meeting. Thanks to all that participated.

Sincerely,



Ed Szumski, Professor  
Department Head Electricity/Electronics/Refrigeration

enc: Meeting Agenda  
Sign in sheet

**San Bernardino Valley College Electricity/Electronics Department  
Advisory Committee Agenda**

**April 3, 2012**

**6:00 p.m.**

**Snacks - Pizza and beverage**

**6:05 - 6:10 p.m.**

**Welcome and Introductions**

**Ed Szumski, Professor, Department Head Electricity/Electronics**

**6:10 - 6:15 p.m.**

**Ed Szumski, Department Head, Electricity/Electronics, will discuss the Programs, Certificates, and Degrees in Electricity and Electronics at San Bernardino Valley College Electronics Courses.**

**6:15 - 6:30 p.m.**

**Mr. Szumski will discuss our connection with the statewide "Electrician Trainee" certification program.**

**6:30 - 7:00 p.m.**

**Panel discussion: "What are the needs of the Electrical/Electronics Industry and the Community in terms of power generation, avionics, fiber optic installation, biomedical equipment repair, photovoltaic (solar) fundamentals, and Electrician Trainee certification".**

**Panel discussion: "What are the needs of the Electrical/Electronics Department and our program?"**

**Panel discussion: Fall 2012 Schedule**