

Engineering Department Meeting Minutes

Thursday, November 7, 2019

Present: Milan Georgevich, Ashod Minasian, Pavan Nagpal, Arkadiy Sheynshteyn, Jacquelyn Sims

Review minutes from September 26, 2019.

Milan Georgevich motion to approve, Arkadiy Sheynshteyn second it, all in favor. Minutes Approved.

Curriculum Updates and SLO's

- Circuits course and Matlab will now be called Computer Science and would like these courses to be taught by math professors. Students are aware of this course and are expressing interest.
- Math 190 will be the prerequisite for the Matlab course.
- Milan Georgevich submitted all of the SLO's reports from last semester and informed Pavan Nagpal.

MESA has a high percentage of Computer Science majors. Arturo Hernandez will forward that information to Dean Sims.

Consultation with Physics Department regarding New Circuit Course

Below include suggestions and recommendations:

- To remove Engineering 12 as a corequisite
- To include the lab into the corequisite but some concerns are not having enough equipment that will arrive by January 2020.
- Keep the equipment (Kits) in the classroom
- Arturo Hernandez can create a survey for the MESA students to see what their interests are.
- To offer both lab and lecture together
- It was mentioned that the New Circuit Course should be required for the Engineering majors. It was explained that many other schools offer this course along with the lab.
- It was recommended to offer 3 units for the lecture and 1 unit for the lab. The course can be 4 units since the equipment will be in the classroom.
- Instead of spending money on laptops, the money can be used for manuals or textbooks.
- Dean Sims recommended for Pavan Nagpal to write a letter to the Dean of Physics to have their professors review the course and to endorse (support) the course as well.

Equipment for Circuits Course

Pavan Nagpal displayed the equipment for the lab and will forward the link to the visual video of the equipment to the Math Division office. It was questioned if the equipment will be compatible with the current lab tops being used. It was recommended to keep the equipment in the classroom. The cost of the kit (bundled) will be \$319.00. The wires are \$100.00 for the year for the entire classroom. The budget is \$34,000 that needs to be spent. Pavan Nagpal will put together a list and of the items needed for the proposal.

The equipment may need to be charged and will possible need a charging station. The laptops will be compatible with the equipment. It was explained that The New Circuit Course should be one unit for the lab and will be included in the proposal.

Advisory Board Creation

There is currently an Advisory Board for Computer Science and was recommended for an Advisory Board for Engineering and an interdisciplinary committee should be created and could be meet two times a year, once a semester. There was a discussion of recruiting individuals to join the Advisory Board of Engineering if created. It was explained that all disciplines (Structural Mechanical Engineering, Electrical Engineering, Aerospace, Computer Science...) should be included. Art Hernandez will send out personal invitations, which should include Physics and Mathematics professors, and possibly Chemistry and economics. It was suggested to have members from other community colleges. If created the Advisory Board of Engineering can begin Spring 2020.

Other Remarks

Dean Sims thanked and recognized the committee members for doing a great job.