

Present: Chris Toothman, Dr. Jerry Bacza, Gary Schultz, Jody Ware, Paige Robinson, Jarod Graffius, Sherry Strother, Jessica Frye, Vanessa Haymond

Jerry Bacza introduced and welcomed members of the Industrial Advisory Committee.

ATMAE: Association of Technology Management Applied Engineering.

CURRICULUM CHANGES: Chris Toothman discussed curriculum proposal changes with the committee. The Physics class was dropped. Inventor and mapping were added to CAD to make the Drafting/Design program stronger. Civil 3D and blueprint reading (one-hour credit class) will be offered in the fall. The program is required to cut from 65 to 60 hours. Engineering Graphics is an introduction to CAD and covers all formats of board drafting, drafting, sheet sizes, and scales to prepare for AutoCAD. A sheet metal inventor class was added. AutoCAD, the mechanical end, is becoming obsolete. The time saved between Inventor and AutoCAD is about 3:1. Industry will recognize this difference in production rate. More AutoDesk products are being utilized. This helps students be more viable in the market place.

Jerry Bacza noted that the WVCTC mandated all associate degree programs be no more than 60 hours. All baccalaureate programs are also restricted to 120 hours. The Physics requirement was under the old accreditation, ABET. ATMAE does not require 8 hours of lab-based natural science. Our guidelines come from WVCTC, HLC and ATMAE. We seem to have done well.

Chris gave handouts on the changes from the old model schedule to the new model schedule. This should make 15 hours per semester for students, rather than 16 as before. The Architectural program was reduced from 4 to 3 hours. The mapping, sheet metal design and blueprint reading classes are each one-hour classes. Eliminated was the Physics 102. The Capstone and Architecture classes were each dropped one hour.

Jerry noted the Tool Design class was changed due to decreased manufacturing, eliminating Jig and Fixture Design. This was made into a capstone course to prep students graduate.

Jerry noted that Sally Frye, Career Services, will come by next week to discuss Monster.com, where interviews will be done. A company will be set up and students can interview for X position for X company. Interviews will be set up and a resume and cover letter will be needed.

Dr. Bacza discussed the WVU a 2+3 Model Schedule for a mechanical engineering degree. There will be changes in the math and physics classes.

Chris Toothman asked for input on changes, adjustments, or additions to the Drafting program. The blueprint reading class was discussed, including Assembly drawings, print layout, technical discounts, and print sheets. Optional names for the class would be print layout and print reading.

Mapping: Jerry commented we need a formal course in mapping. This will be required for the new LanMan course.

There is no Civil content in any of the two-year Drafting courses. Civil 3-D is in the AutoCad package and has been utilized. The Civil market has grown with the Marcella Shale market. Chris will be trained this summer in the Civil 3-D. More rationale for the mapping class was discussed.

Vanessa noted there was a recent meeting at the technical center for training needs of the oil and gas industry.

Jerry noted the DRFT 2224 course, with Inventor and Sheet Metal Application. This included Descriptive Geometry and no books are now available. ABET had required descriptive geometry. ATMAE did not require this course. Last fall Jerry offered Descriptive Geometry and Sheet Metal Fabrication in the same class. The class filled quickly. Also offered was an electronic ebook vs. paper book.

Prototyper: Chris discussed the two prototypers available. There is a possibility of buying a 3-D scanner. Many items have been made with the Prototyper, including a logo given to the Pierpont President.

Gary Schultz asked why the Print Reading is offered in the second year of the program and this was discussed.

Jerry noted that he and Chris took the ATMAE for a CEG, a certified engineering graphics specialist. The capstone class will require everyone to take this exam, although not required to pass. There is no CAD in this test. A CAD Skills certificate is offered. Five courses are given for the CAD skills certificate. He felt the AutoCad certification exam would be more appropriate for the CAD skills certificate. And the ATMAE CEG exam would be more appropriate for the two-year associate degree.

Jerry and Chris took the certification exam in Las Vegas but were not pleased with it. Chris noted that they felt the AutoDisk tests were based on their textbooks. The AutoCAD exam needs reviewed again.

Global 21 is the assessment test and was explained. This is state-mandated. A new hands-on test was created.

Jerry noted the ATMAE test is required to take, but not to pass. Check ATMAE.org.

CURRICULUM: Chris reviewed the curriculum and asked for input. The committee approved the proposed model schedule.

INTRO to PHYSICS 1101: Dr. Martina Bachlechner was hired to teach Physics. Students were surveyed and asked what they needed and the response was science. Martina has done a great job of bridging this by developing a course called preparatory science/physics. Curriculum must be at 60 hours for fall 2012. Students need Physics they can understand.

Committees Updates.

Tracking Graduates: facebook.

Microstation: License was dropped. Several people working for the state use Microstation. Chris stated there is still a need for Inventor and Solid Works. It is difficult to teach both. Jerry would like to see this added back.

Wrap Up.