



**Engineering Technology Advisory
Committee Minutes
April 26, 2018**

PRESENT: Tyler Paul, Kevin Martin, Cleary Johs, Jayme Engen, Tyler Wollmuth, Jasper Klein, Jennifer Malloy

ABSENT: Chad Cowley, Tim Langerud,

INSTRUCTORS PRESENT: David Sagsveen, Liz Braunagel (Dept. Chair)

Meeting began around noon

Discussion started with introductions.

Discussion continued with an update on the Frontier Precision equipment partnership. Frontier will be supplying new equipment yearly to the surveying lab. Equipment will come from their rental pool and will be the latest GNSS equipment and data collectors. Additionally, BSC will have access to a scanner for the duration of about a month each year. Partnership begins this summer. Dave indicated that the partnership came about from a discussion with Frontier last December and was announced during Surveyor's week in March.

Discussion continued with an update on the program trailer. A trailer has been purchased and has been used already for hauling the sandbox to a few elementary schools. Dave hopes to build carts for the surveying lab that will hold equipment in the lab and be capable of being moved and strapped into the trailer to make it a mobile surveying lab. The trailer wrap with BSC and sponsor logos will be designed and installed this summer after BSC hires a new graphic designer.

Discussion continued with an ABET update. Dave hopes to complete the ABET report by end of semester and is also hopeful that we have done all of the necessary "to-do" list items to satisfy the last ABET review.

Discussion continued with an update on open adjunct and full-time positions. Dave indicated that in an attempt to shed work load, BSC is hoping to hire an adjunct surveying lecture instructor and an adjunct surveying lab instructor that would work under the direction of the lecture instructor. In making this move, BSC is hoping to satisfy regional requirements (Montana specifically) for credentials of surveying instructors by hiring an instructor that is a registered professional land surveyor. To this point, BSC has interviewed one candidate after a local search but is reopening its search statewide through the NDSPLS. If anyone is interested or knows of someone interested, please let Dave know and he can forward job information to them. If the search comes up empty handed, another alternative is to shift workload and seek CAD a instructor (or instructors) instead and have Dave continue to teach surveying in the Fall. The downside of this being the Montana requirement would not be satisfied.

Regarding full time positions, BSC is also looking for a full time Engineering Professor for our Engineering Transfer program beginning this fall. Candidate must possess a Master's degree in Engineering and would be responsible for teaching Engineering Graphics, Statics, Dynamics, Thermodynamics, and Mechanics of Materials. Position has been announced on the website, the Bismarck Tribune, and the Chronicle of Higher Ed; position is open till May 11 at this point.

Discussion continued with a discussion on curriculum review. Dave handed out the BSC curriculum along with other curricula from NDSCS, Detroit Lakes Tech (MnState), Southeast Tech (Sioux Falls) and Flathead Valley Community College (Montana). The committee's "homework" is to review the curricula prior to our next meeting. If there are any proposed changes to the BSC curriculum, we (BSC) would need to act on them this coming fall to have the changes in place for the following fall. So if there are new technical courses we wanted to add or replace some general education courses, now is the time to consider that. Dave indicated that as long as we have ABET status, we would need to have 1/3 general education and 2/3 technical, so that may dictate what could be replaced, added, etc. Discussion continued regarding the validity of POLS 116, ECON 201, CSCI 101 and the possibilities of replacing with other courses that include Microsoft Access and/or Excel, and an introduction to business course. Topics such as negotiating were also discussed and if that was included in Construction Project Management (or if it were in available in another course). Discussion continued with job shadow discussion and internship/coop discussion (neither currently required in the curriculum). Discussion on this topic concluded with the plan to continue it at our fall meeting

Follow-up: Dave will review current course offerings at BSC that would/could match items discussed and offer options at the fall meeting. Additionally, if anyone has a suggestion prior to the fall meeting, please let Dave know and he can review current courses or put on paper proposed courses.

Clarification: I (Dave) misspoke about the Excel course. There currently is an Excel course offered at BSC but it wouldn't be available to our students (it's in a certification curriculum through the computer information dept). However, the instructor did offer to develop a specific Excel course for us; we would just need to be able to have enough students to offer it. Dave incorrectly said that we couldn't do that.

Discussion continued with a recommendation from the committee to continue the program for 2018-2019. Discussion concluded with Cleary being reappointed for another 3 year term. Meeting ended around 1 p.m.

Submitted by,
David Sagsveen

Thank you for your continued support of the Engineering Technology Program. If there appears to be any errors or missing items in the minutes, please contact David Sagsveen at 224-5443 or David.Sagsveen@bismarckstate.edu.