

**Engineering Technology Advisory
Committee Minutes
March 8, 2016**

PRESENT: Chad Cowley, Jayme Engen, Tyler Paul, Kevin Martin, Chris Padilla, Brett Jochim, Cleary Johs, Scott Olson

ABSENT: Tim Langerud

GUESTS: Tyler Wollmuth

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

Meeting began around noon

Discussion started with an introduction of our guest attending the meeting. Chris Padilla introduced Tyler Wollmuth, engineer with the NDDOT Bismarck Division. Chris indicated that he felt his current position was a further disconnect from the needs of the DOT regarding the Engr Tech program, and that he was hoping Tyler could be his replacement. Tyler's name came forward after Chris inquired within the DOT circles. The committee had no objections; Tyler's term will begin July 1. *[Thanks to Chris P for his many years of service to the committee!]*

Discussion continued with a review of the ABET site visit. Dave discussed the Concern, the Weakness and the Deficiency in the site visit report. The Concern is in regards to workload and the lack of a lab instructor. BSC is aware of the concern but is not in a position to do anything immediate about it at this time. The Deficiency relates to the assessment process and "closing the loop" with assessment results. Dave and Mark have been working on this since the site visit and are trying to remedy the Deficiency items this spring. The Weakness is in relation to the periodic review of the program Objectives (an ABET requirement for advisory committees / constituents). Earlier this spring, proposed sample Objectives and reworded Outcomes were sent to committee members for review with the plan to vote on during this meeting. After discussion and with some modifications, the committee voted to approve the proposed Objectives and Outcomes with the discussed changes. *[Updated Objectives and Outcomes are shown on included poster.]*

Discussion continued with a review of the BAS in Geomatics degree at BSC. Dave gave a brief history of the plan, including the initial plans to have NDSU deliver the 3rd and 4th years of a 2+2 degree. Last fall, those plans fell through and BSC began plans to seek approval from the SBHE to deliver the 4 year degree. Those plans were approved by the SBHE on February 3 of this year. Preliminary plans are to hire an instructor this fall and have students "in the pipeline" beginning next January. The approved plan is for a 2+2 degree where students from BSC or NDSCS could start the 4 year program immediately after graduating in the spring and complete the program in 15 months following a summer internship, 39 credits in 2 semesters, and another summer internship. Dave indicated that the program would be 51 credits; to accommodate this change, the Engineering Tech

program would increase from 63 credits to 69 credits (3 addn'l credits of GIS and 3 credits of Boundary and Cadastral Surveying). The changes to the 2 year program help with the accelerated nature of the 2+2, with the proposed changes to ND Surveying requirements (as proposed by the NDSPLS) and meets Montana requirements for GIS credits for surveyors. For the 2+2 program, the faculty member hired would need to have a master's degree (to meet Higher Learning Commission accreditation requirements) and would need to be a registered professional surveyor (to meet Montana licensing requirements). Dave indicated that if and when the program starts, the new faculty would likely teach the 200 level surveying courses and that he (Dave) would likely be the program coordinator and assessment/accreditation coordinator for the 2+2 degree.

[Please note, due to the need to have the proposed Boundary and Cadastral Surveying course and updated degree plan changed approved immediately to align with the 2+2 plan approved by the SBHE, changes to the curriculum have been put in motion that were not discussed with the advisory committee ahead of time. The accelerated nature of these changes allows us to change the catalog and the degree plan for incoming freshman (fall 2016) so they are on the correct path for entrance into the 2+2 program upon their graduation. These changes also help us get ahead of the curve for the proposed ND surveying requirement changes and to meet existing Montana licensure requirements for GIS credits. Within a few weeks of the SBHE vote, we were able to get the Boundary and Cadastral Surveying course approved through the curriculum committee and faculty senate despite not following BSC protocol for new course approval.]

Discussion continued with an inquiry into current enrollments. Dave and Mark indicated there were 13-14 students in the 200 level courses which normally equates to graduation numbers. *[Dave reviewed with ENGR 205 students on 3/9/16; some will be graduating in the fall after a delayed completion of gen ed requirements for several students. Numbers are more like 9-10 this spring with 3-4 this fall.]*

Discussion continued with the required vote for continuation of the program. No objections were heard and the committee voted unanimously to recommend continuation.

Discussion concluded with a discussion of appointments and reappointments. As previously discussed, Tyler will be replacing Chris. Brett indicated that since his term is up, he would consider stepping aside if his proposed replacement from AE2S would fill his spot. *[That did happen later on 3/8/16, so Brett will be stepping down June 30 and Jasper Klein will take his spot beginning July 1. Thanks also to Brett J for his many years of service to the committee!]*.

[Additionally, Dave misread the form and Tyler Paul's term is set to expire this year also. Dave discussed with Tyler and Tyler would like to be reappointed to another 3 year term].

Meeting concluded shortly after 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. See next page for attachment.



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