UAS Pre-Engineering Program Assessment Plan
April 1, 2011

Goal 1. Increase the number of engineering majors in the state of Alaska by recruiting and retaining students in the UAS Pre-Engineering Certificate Program

a. Annual Assessment of Recruiting:
   i. Track the number of students taking 1 or more ENGR courses at UAS
   ii. Track the number of new Pre-engineering majors

b. Annual Assessment of Retention:
   i. Track the number of Pre-Engineering certificates awarded
   ii. Track the number of students who transfer to a baccalaureate engineering program (in-state and out-of-state)
   iii. Track the number of Pre-Engineering students retained at UAS through a change of major
   iv. Track the number of UAS Pre-Engineering students who complete a BS in engineering at UAA or UAF

Goal 2. Foster an interest in and understanding of the engineering profession and opportunities in Alaska with an emphasis on Southeast Alaska.

a. Annual Assessment:
   i. Track number of student internships/employment with local engineering firms
   ii. Track the number of students who complete the engineering seminar

Goal 3. Prepare students academically for transfer into the 2nd year of a 4-year baccalaureate engineering program, with emphasis on UAA and UAF.

a. Student learning objectives: Develop skills in problem solving, teamwork, engineering ethics, and communication
   i. Review student design projects from ENGR 151
   ii. Review programming projects from ENGR 161
   iii. Review final papers from ENGR seminar

b. Student transfer objectives: Ensure a fluid transfer of individual courses and pre-requisites so that students can begin taking 2nd year engineering courses immediately upon transfer
   i. Exit surveys (upon transfer from UAS to an engineering BS program, and upon completion of their first year post-UAS) with a focus on preparedness, course transfer and course sequencing
   ii. Annual meeting with UAA and UAF faculty to discuss an areas of concern with academic preparedness and course transfers specific to UAS transfer students