CANKDESKA CIKANA COMMUNITY COLLEGE

Serving Spirit Lake Tribe 1974-2024

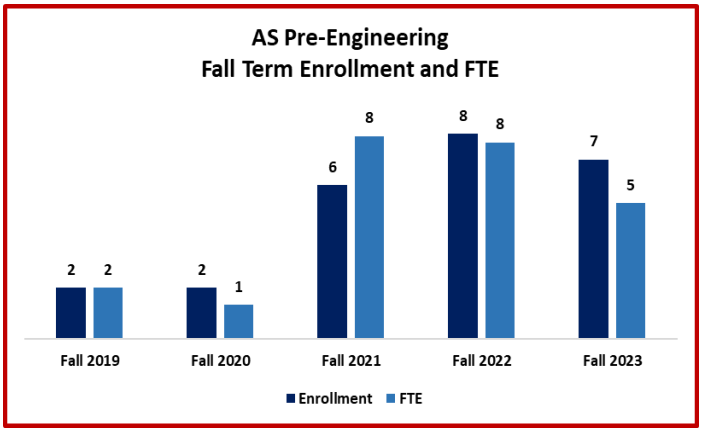
Spring 2024 Annual Program Snapshot

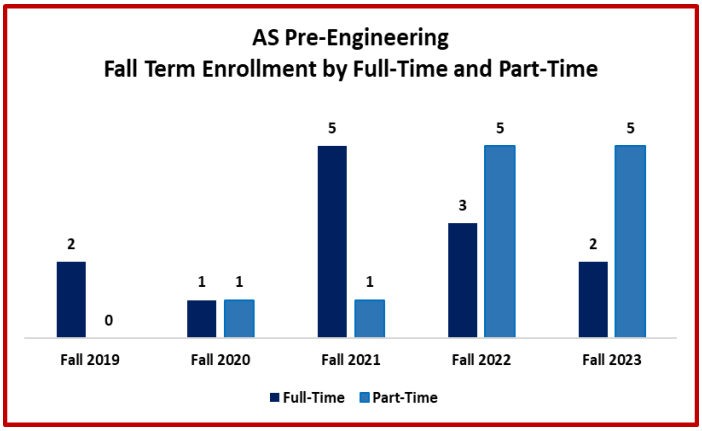
Program Name:

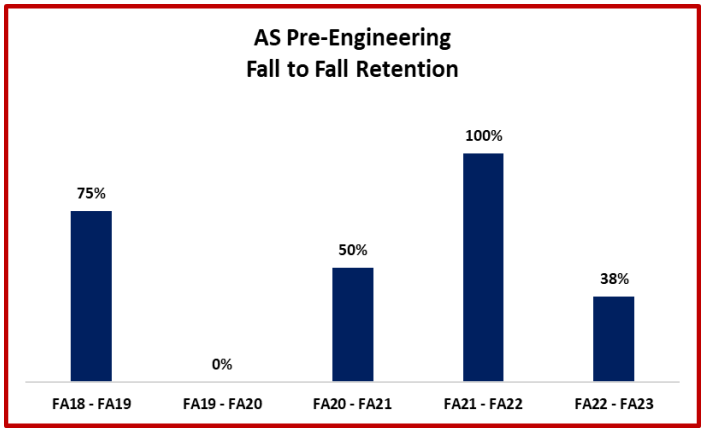
AS Pre-Engineering

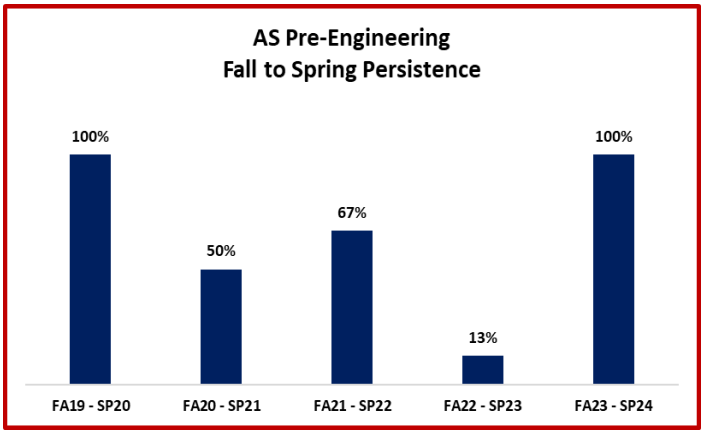
Program Faculty:

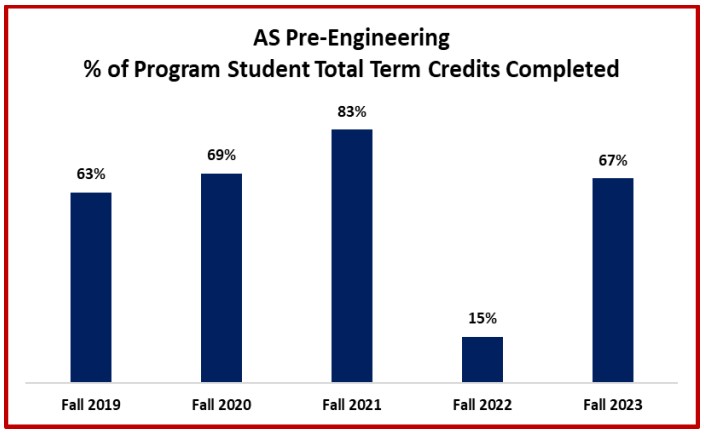
Mike Parker

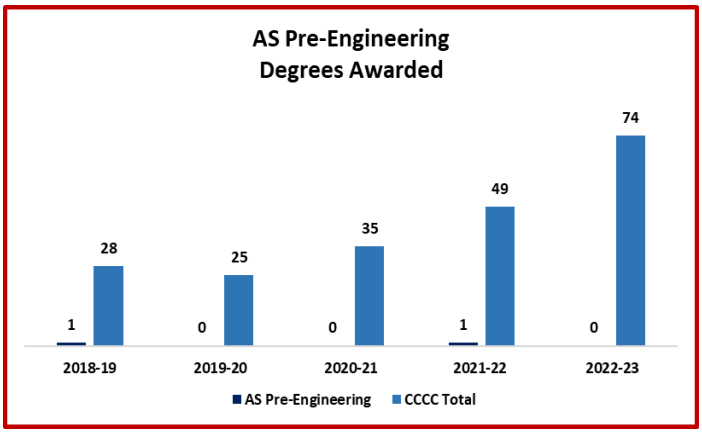












Program Highlights 2023-24

1. NASA grant awarded to CCCC (lead) and UND (subrecipient) for design/fabrication/testing of lunar boot attachments

2. Added a Nylon 11 carbon fiber powder sintering 3D printer to the lab inventory to increase prototype capabilities

3. Three students attended the summer data science academy

Current Program Goals 2023-24

[as reported on the Fall 2023 Program Goal Status Report]

1. Complete the curriculum committee requirements to enable the AM certificate offering to be become an officially recognized program.

2. Investigate industry candidates who might partner with the AM certificate program in TCAP.

3. Start a transition process for an incoming Engineer hire for the pre-engineering and ICE-TI math positions as well as adjunct personal for instructing in the AM certificate program.

Progress on Current Program Goals 2023-24

1. The original AM certificate program of study involving traditional pedagogical instruction was shelved for a modified proposal that is still in the works involving more PBL methodology and a wider degree of industrial manufacturing technology. This new certificate program would utilize UND resources to increase capabilities.

2. The search for industry candidates will resume when the new certificate(s) are in a cooperative development phase with potential industry partners who will contribute based on specific skill sets that industry demands for its employees.

3. The original goal is still in progress for the upcoming year.

Updated/Revised Program Goals for 2024-25

[Note: At least one program goal should be targeted at improving classroom pedagogy or curriculum.]

1. The future for the engineering/AM program is one based on a cohort with fellow ND TCU's and UND for a centralized satellite CCCC (TCU) campus physically located at UND that combines the manufacturing capabilities of the CCCC lab with the opportunities present in research and industry contact at UND. The goal is to develop a plan with tribal students at the center of its overall focus.

2. Improve the program's outreach by regularly scheduled visits to feeder schools and more participation in other recruitment settings such as jobs fairs and exposing them to more opportunities in engineering and advanced manufacturing in order to replenish the stream of incoming freshmen.

3. Continue to work on recruitment of full-time and adjunct faculty in engr/math.