March 23, 2020

To: President Jim Johnsen
Fr: Chancellor Cathy Sandeen
Re: Expedited Program Review Recommendations

Background
As requested, the University of Alaska Anchorage has undertaken an expedited program review as a result of budget cuts imposed by the governor and legislature. I have closely read the expedited program reviews that resulted from this process, reports and recommendations from the deans and the provost, as well as additional responses from some programs. I have also reviewed nearly 200 emails and letters as well as verbal input provided at approximately 20 meetings, including a large public testimony session. I have consulted with the chancellors at UAF and UAS regarding their recommended program changes.

I want to emphasize that all programs at University of Alaska Anchorage are high quality. All programs produce graduates who are prepared to address specific workforce needs. Our faculty are excellent and deeply committed to the UAA mission of teaching, scholarship, and service. Our programs provide a unique and vital sense of community, a sense of “home,” for faculty, staff, and students in those programs. These decisions are extremely difficult and in many cases heartbreaking. While we have been transparent, data-informed, and mission-driven as much as possible throughout this process, at the end of the day, these are judgment calls.

I am providing you with these recommendations, not because I want to make these decisions, but because I am called to do so given the situation the University of Alaska confronts. I believe these are the best decisions under the circumstances. UAA will contract and become smaller with a more focused mission. Much is retained under my recommendations and I am confident that this path forward will allow UAA to sustain excellence and the ability to continue to serve the region and the State of Alaska. UAA will remain Alaska’s vibrant open access urban/metropolitan university.

Please note I will continue to encourage all UAA programs, on all our campuses, to become more streamlined and efficient in producing graduates to meet workforce needs, while maintaining academic quality as defined by the faculty.

I realize these are recommendations only and that you will develop your own proposal and that the University of Alaska Board of Regents will make final decisions.

(Continued, next page)
Decision
I concur with the recommendations of Interim Provost John Stalvey dated March 9, 2020, with the following two exceptions:

Anthropology (MA)
Changed to Continued Review

Marketing (BBA)
Changed to Continuation
Appendix: Faculty Reductions from Expedited Academic Program Review

Community and Technical College

CTC is reducing by 3 lines following the program review outcomes. Two retirements (not replacing), Aviation and Culinary & Hospitality in FY21. For Fiscal Year 2022 we will need to reduce by an additional faculty member.

College of Engineering

One tenure-track non-replacement in EE in FY21 and 2 tenure-track non-replacement of anticipated retirements (1 in CE and 1 in CS&E) in FY22.

College of Business and Public Policy

The cost savings is through not replacing faculty. One term faculty in Logistics and another two tenure-track faculty in Information Science & Decision Science (MIS).

College of Arts and Sciences

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<th>Program</th>
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<th>NTT Reductions after 1 year</th>
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The decreases in CAS are particularly large because they also include addressing the structural debt that the college has been carrying the past two FY.

College of Health

One non-replacement of a tenure-track faculty in Legal Studies and one non-replacement of a tenure-track faculty in Justice.

Total number of **faculty lines** reduced: 31.5.
Total estimated decrease is $3.25M from eliminated **faculty lines** outlined above.
Date: March 9, 2020

To: Cathy Sandeen, Chancellor

From: John Stalvey, Interim Provost

Cc: Denise Runge, Dean, Community & Technical College
    Dennis Eastman, Assistant Professor, Millwright
    Steve Johnson, Associate Professor, Computer Information Systems
    Jason Smilie, Career & Technical Coordinator
    Meg Smith, Advisory Committee member
    Marty Krueger, Advisory Committee member
    Dan O'Connor, Director, Prince William Sound College
    Susan Kalina, Vice Provost for Academic Affairs
    Claudia Lampman, Vice Provost for Student Success

Re: AY20 Expedited Program Review Findings – Millwright OEC

I have reviewed the dean’s findings and the completed Expedited Program Review Template for the Millwright OEC. The Provost’s Office did not receive an Optional Program Response Form from the program.

Recommendations

My recommendation is to accept the decision and recommendations of the dean. An interim progress report on all recommendations is due to the dean by March 1, 2021. The dean will submit a review along with the program’s interim progress report to the provost by April 1, 2021. A follow-up Program Review will be conducted in AY22.

Decision

Recommend Continued Review
Date: February 12, 2020

To: John Stalvey, Interim Provost

From: Denise Runge, Dean

Cc: Dan O’Connor, Director, Prince William Sound College

Re: AY20 Expedited Program Review Findings

Program/s in this review: Millwright (OEC)

Specialized accrediting agency (if applicable): none

Campuses where the program is delivered: Prince William Sound College

Members of the program review committee:

- Dennis Eastman, Assistant Professor
- Steve Johnson, Associate Professor
- Jason Smilie, Career & Technical Coordinator
- Meg Smith, Advisory Committee member
- Marty Krueger, Advisory Committee member

Centrality of Program Mission and Supporting Role

The Millwright OEC aligns well with the mission of UAA, CTC, and of the PWSC campus. The program prepares students for highly skilled occupations in precision instrumentation, welding, construction, blueprint reading, turbines, generators, rigging, conveyor systems, and safety. The program utilizes a nationally recognized curriculum certified by the National Center for Construction Education and Research (NCCER) and prepares students for immediate employment in mining, gas & oil, energy production, and fish processing industries. Department of Labor data indicate that there are approximately 300-350 millwrights working in Alaska, with substantial numbers of them expected to retire in the next five to ten years.

Program Demand (including service to other programs), Efficiency, and Productivity

Demand for the program has remained small but steady during the review period, and the program has taken steps to better align to student interests while improving efficiency. The program began with three majors in 2017 and 2018, expanding to eight during the 2019 review year. Due to the nature of the labs where instruction takes place, course enrollments are capped at ten. For 2019, the student credit hours per full time equivalent faculty member, or SCH/FTEF was 182.6. Its tuition revenue per credit hour is $146 and its cost per credit hour is $501.8 for a ratio of .29, indicating the program is covering only about one-third of its instructional costs. The campus receives external funding from the City of Valdez to offset a
portion of the faculty member’s salary, reflecting the city’s belief that the program supports local industries and brings residential students into the community. Overall the program is experiencing flat enrollment and high costs, with capacity constrained due to its small instructional space.

**Program Quality, Improvement and Student Success** During the 2016-2017 and 2017-2018 academic years, some enrolled students were not completing the Millwright OEC, noting that the 6-credit internship course requirement was a barrier to completion. The majority of students were completing the five Millwright modules and receiving NCCER Millwright certification. In 2018-2019, the 6-credit internship course requirement was removed, resulting in 100% completion (nine graduates) of the OEC and NCCER Millwright certification for 2019. While completing the five Millwright course sequence, students are required to work on a project that integrates and applies what they have learned throughout the five NCCER certification modules. The program faculty note that their advisory committee has commended this approach to preparing skilled applicants to fill high paying entry-level positions within their industries. Additionally, program faculty note the high job placement of their graduates within oil & gas, mining, and marine sectors in Alaska.

**Program Duplication / Distinctiveness** The PWSC Millwright program is the only program in the state that provides all five NCCER levels of instruction and training.

**Commendations and Recommendations** Commendations: The program is commended for its ongoing efforts to ensure student success and placement. Recommendation: The program and the campus should work diligently to find an alternative to the cramped and limited instructional shop space. The program should explore options for alternative delivery methods, incorporating its existing secondary partnerships, apprenticeships, and/or partial distance delivery alternatives to expand its reach.

**Decision**  *Continued Review:* Program is required to address specific issues and to undergo another review within the next two academic years.
AY20 Expedited Program Review Template
Updated 10-8-2019

Submission Date: January 24, 2020

Program/s in this review: Millwright (OEC)

Specialized accrediting agency (if applicable): None

Campuses where the program is delivered: PWSC only

Members of the program review committee:
Dennis Eastman, Asst. Professor, PWSC
Steve Johnson, Assoc. Professor, PWSC
Jason Smilie, Career & Technical Coordinator, PWSC
Meg (Day) Smith, Millwright Advisory Committee, PSWC
Marty Krueger, Millwright Advisory Committee, PWC

1. Centrality of Program Mission and Supporting Role (700 words or less)

The Millwright OEC aligns with PWSC, UAA, and UA mission and goals to grow and strengthen a career and technical workforce by preparing students for highly skilled occupations in precision instrumentation, welding, construction, blue print reading, turbines, generators, rigging, conveyor systems, safety, and much more. Millwrights are experts at installing, maintaining, and repairing all sizes of industrial machinery. The OEC in Millwright Program is based on a nationally recognized curriculum certified by the National Center for Construction Education and Research (NCCER) and has oversight by Carpenters and Millwrights Local 1281 to provide candidates for apprenticeship programs and the Alaska Process Industry Career Consortium.

2. Program Demand (including service to other programs), Efficiency, and Productivity (7 year trend; 1400 words or less)

The Millwright OEC is ideal for employers looking to affordably develop their employees' skills, or for individuals looking to change careers or increase credentials while seeking employment. According to national research, by 2025, 65 percent of jobs will require some form of post-secondary education. In many cases, credentials like the NCCER Millwright OEC is all that are necessary.

Millwright OEC completion compared to students receiving NCCER Millwright certification:

During the 2016-2017 and 2017-2018 academic years, students were not completing the Millwright OEC as the 6-credit internship course requirement was a barrier to completion. The majority of students were completing the five Millwright modules and receiving NCCER Millwright certification. In 2018-2019, the 6-credit internship course requirement was removed, resulting in 100% completion of the OEC and NCCER Millwright certification.

The following are trends that indicate program demand, efficiency, and productivity over the last seven years:

- The average enrollment for the millwright program is 7.43; keeping in mind the facilities can only handle 8 - 10 students to maintain a safe instructional environment.
- The Millwright program changed from an AAS and/or a certificate to an Occupational Endorsement to better meet local, regional, and statewide workforce demand. Under the previous AAS program there were only four completers; most students were only interested in completing the 5 Millwright modules to prepare for placement in a good paying job. As of 2018, the revised Occupational Endorsement eliminated the internship, which was a barrier for student to complete the Millwright certificate.
- The average student credit hour is 168.43/academic year.
- The average FTE is 11.23/academic year.
The Millwright class average size has been 7.43.
The percentage of capacity in the program has been 74%.
As of 2018-2019, average credit hours of traditional cohort completers is 25.5, but over the previous six years, it was 30.
Data on course pass rates indicate that only two students either receive an “NB” No Basis grade or have withdrawn.

3. Program Quality, Improvement and Student Success (1500 words or less)

While completing the five Millwright course sequence, students are required to work on a project that integrates and applies what they have learned throughout the five NCCER certification modules. The Millwright Advisory Committee has commended this approach to preparing skilled applicants to fill high paying entry-level positions within their industries.

4. Program Duplication / Distinctiveness (300 words or less)

The PWSC Millwright program is the only program in the state that provides all five NCCER levels of instruction and training. Students in the Millwright OEC program have a 90% success rate with job placements, unless they decide to continue their academic career. Specific placement includes:

- Academic Year 18-19: Students went to work at TCC, Providence Valdez Medical Center, Pogo Mines, UAF Research Center and Hess Oil Field Services.
- Academic Year 17-18: Students went to work at Otis Elevators, Petro Star, Pogo Mines, Hilcorp, Red Dog Mine, private business, and career enhancement in the U.S. Coast Guard.
- Academic Year 16-17: Students went to work at Petro Star, Copper Valley Electric, HD Marine, Alyeska, and career enhancement in the U.S. Coast Guard.

5. Summary Analysis

PWSC has the only recognized Millwright program in the state and the core curriculum provides:

- students with the basic knowledge for immediate employment;
- small class size and individualized instruction;
- hands experiences that integrates theory with practice; and
- 80% – 90% placement for students looking for work as a Millwright.

Some areas of concern include:

- advances in technology with automation makes it difficult to maintain current instruction of advanced applications of equipment used in the field;
- access to remote locations to see Millwrights scope of work and use of specialized equipment on job sites make field trips a challenge;
- the Millwright work space that needs electrical and ventilation upgrades; and
- the Millwright shop is only large enough to provide training for 8-10 students safely and this restricts program growth.

Industry partners continue to offer opportunities for field trips to job sites, access to equipment, and specialized expertise that augments Millwright instruction – for example, partners have offered to help upgrade accessibility to compressors, turbines, etc., for specialized Millwright training.