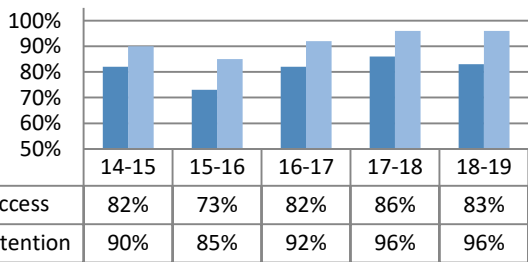
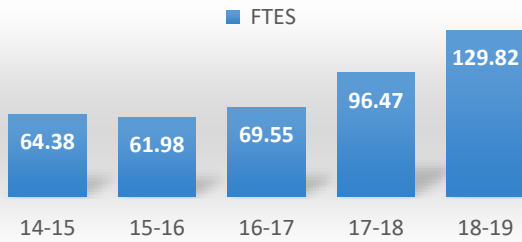


Description:

The Airframe and Powerplant Technician program prepares students for employment in the aviation industry as a certified Airframe and Powerplant Mechanics. The curriculum encompasses 1900 hours of instruction, 750 hours in Airframe, 750 hours power plant, and 400 hours in the airframe and power plant general curriculum. The program is certified by the FAA under Federal Aviation Regulation Part 147.

Two new programs were introduced - flight operations and Aviation Management programs to prepare students to become pilots as well as prepare them for flight operations and aviation management careers.



	14-15	15-16	16-17	17-18	18-19
Duplicated Enrollment	242	237	273	415	656
FTEF	5.98	5.84	5.98	7.89	12.67
WSCH per FTEF	323	319	349	367	307
	14-15	15-16	16-17	17-18	18-19
Sections	14	13	14	21	38
% of online enrollment	0%	0%	0%	0%	0%
Degrees awarded*	3	1	1	3	
Certificates Awarded*	4	29	21	43	

Assessment:

Assessment: (Provide an analysis based on the data provided. As you do so, address each of the tables/charts. 225 Words Max)

1. FTEF increased from last reporting period of 2017-2018 to 129.82 from 96.47. This incredible increase is due in part to the investment made in the program, from the purchase of newer industry standard equipment and mockups which adds to the student learning experience. It is also due to our successful outreach activities in addition to our adding of a full night A&P program, creating an opportunity to double our enrollment as well as attracting a different pool of students currently working and wanting to change careers to the aviation industry.
2. Duplicated enrollment has substantially increased drastically over the last two reporting periods. The latest increase is a 63% increase. The increase in duplicated enrollment is attributed to the same reasons indicated above in item 1 in addition to the innovation of instructor lead curriculum.
3. FTEF has dramatically increased (see reasons stated above in item one) putting the strain on our single Full-time Faculty of the program. We are in desperate need of more Full time Faculty as indicated by the FTEF of 12.67.
4. WSCH has understandably dropped, due to the class size limit and the lab / lecture ratio which is 60%-70% of lab instruction in addition to the increased offerings of more sections for both the night A&P program as well as the aviation management and flight operations programs.
5. Student Success has dropped by 3%, due in part to the increase of student to instructor ratio.
6. Retention has stabilized at 96%. The Certificates awarded rate has dramatically increased

Progress from Last Year's Action Plan:

1. As of January of 2019 the department has obtained 2 additional Redbird Simulators for the flight operations courses. Bringing our total to 4 Simulators that are FAA approved for students to receive flight hours.
2. Hired 5 new adjunct instructors with an additional 2 going through the hiring process in order to maintain the evening programs.
3. Added 17 new sections in the evening. The program has now duplicated the day AMT program onto evenings, Airframe, Power-plant and General maintenance programs; to meet the needs of students and aviation industry in the area as

SAOs/SLOs/PLOs: (Summarize how the assessment of SAOs, PLOs and/or any SLOs that shows significant effect has influenced your goals. 200 Words Max)

The success of Aeronautics students revolves around Federal Aviation Administration (FAA) Part 147 certifications and their ability to Interpret airframe and Powerplant manuals (#3) and successfully write descriptive discrepancy reports, and perform required inspections on aircraft among other PLOs. Our PLOs and SLOs reflect the requirements of the FAA part 147 CFR. Nevertheless, they need to be updated to better reflect industry needs while still being in line with FAA requirements. The FAA regulations allows a part 147 school to teach beyond their requirements. Through advisory meetings we have learned that we require updates our PLOs SLOs and SAOs, to a higher industry standard while keeping within the requirements of the FAA. Over 90% of the PLOs have met the PLOs based on the curriculum we offer.

Furthermore, the feedback received from industry advisories has demonstrated a need to re-assess these PLOs.

To accomplish this, we need to expand some of the course offerings to more comprehensively cover and prepare students for industry required competency levels. This will in turn require additional faculty, lab support, equipment, Supplies, etc.

Departmental/Program Goals:

1. Continue outreach and program promotional activity to improve student enrollment.
2. Increase student success and retention rates by providing high-quality education, innovation, instruction and services to a diverse community of learners.
3. Continue to update instructional technology and teaching aids and equipment to meet industry needs.
4. Focus on close association with industry representatives in a continuing effort to meet the needs of a changing workforce to foster economic growth.
5. Explore industry partnerships to provide our students with internship and or employment opportunities.
6. Hire Full-time Faculty to support the duplicated evening program and the huge enrollment increase.

Challenges & Opportunities:

Challenges & Opportunities: [Challenges & Opportunities should be reflected in the Action Plan.] (200 Words Max)

1. Difficulty operating a program with 38 sections with one full time instructor and at times up to 14 adjuncts remains the biggest challenge for the Aeronautics program
2. New equipment for training and updating exceeds allocated budgets. Grant monies must supplement short falls and are generally difficult to obtain for the program. Nevertheless , Application for Round 5 of the Strong Workforce Program will be submitted and could allow for more class offerings and new equipment.
3. Hiring part-time faculty remains to be a challenge due to high employability in the industry and the slow process of the district in processing potential instructors.
4. Due to space constraints, 2 lab sections are taught in one lab room at the same time.
5. Outreach programs and program promotion are done by part time faculty on a voluntary basis and at their own expense.

Action Plan:

Action Steps2&	Department Goal	Necessary Resources to Complete	Target Completion Date
<ul style="list-style-type: none"> • Hire additional Full-time faculty to reduce current overload and to better serve the Aeronautics airframe and Powerplant evening or day program. 	5	Funding. Also Needs assessment committee approval and ranking process.	May 2020
<ul style="list-style-type: none"> • Purchase new equipment and supplies for the additional evening AMT and flight operations courses. 	2&3	Funding	May 2020