

## Student Achievement 2021 Response and Strategies

January 10, 2022

Note that much of the strategies are focused on the current pandemic and addressing issues that are pressing and continue to impact the Key Performance Indicators.

### College Readiness Math

KPI Measure	Definition	Expected Threshold Growth over Prior Year	Prior Year	Threshold	Current Year	Year of Data	3 Year Rolling Average
College Readiness Math	Fall students enrolled in MATH 0311/0312/0314/0332 that successfully complete the course within 1 year. <small>Fall students enrolled in DIDM/INDIM</small>	1.5%	65%	66%	65%	2019-2020	61%

Although only one percentage point below our threshold, there are some struggles to meet or exceed the thresholds and need to evaluate how we can continue to improve. The previous year we were able to make great strides to increase successful course completion (was 52%) and have maintained that level of success this year. However, the math department continues to work towards improvement. The actions for the 2021-2022 year include preparation for understanding the upcoming demands based on changes from the standardized testing (TSIA2) that change where students are enrolling at entry. Actions include creating new tutorials for math, including new non-course-based options. Additionally, the department is adding new course levels before co-req to help students get to college level.

### Successfully Completed First College-Level Math & English Courses

(Reading/Writing)	course within 1 year.						
Successfully Completed First College-Level Math Course	Fall students enrolled in MATH 1314/1332/1342/1324 that successfully complete the course within 1 year.	1.5%	73%	74%	69%	2019-2020	63%
Successfully Completed First College-Level English (Reading/Writing) Course	Fall students enrolled in ENGL 1301 that successfully complete the course within 1 year.	1.5%	75%	76%	70%	2019-2020	72%
Successfully Completed 15	Fall students that complete 15 or more						

Six percentage points below the threshold for both college-level Math and English within the first year. Spring and Summer 2020 were both hard hit by the pandemic for Math and English completion campus-wide. Actions for the 2021-2022 Year take into considerations these unmet thresholds and the changes from standardized testing (TSIA2). Both departments made curricular changes that are in effect for this year. The department has updated curriculum for the 1314/1332/1324 courses. Specifically, there is a fully new statistics curriculum (1342) that is in place for the 2021-2022 year. English has added project-based curriculum changes for improvement in success in the 1301 course.

**Graduates in Critical Fields**

Degrees/Certificates Awarded	STEM/Allied Health						
Graduates in Critical Fields	Fall students (unduplicated) that complete a Science, Technology, Engineering, Math, or Allied Health degree or certificate within 3 years. <small>Fall students enrolled for the first time at a</small>	2%	816	832	828	2017-2018	803

Although the target is under by four graduates, there are actions for the 2021-2022 year. The STEM Pathway Mentorship Group will participate in upcoming Alvin Community College (ACC) recruitment events. As a part of the ACC Strategic Enrollment Management Plan, STEM majors who are one semester away from graduation will be contacted and encouraged to enroll and complete their degree. Increase tutoring in STEM classes will be offered in the ACC Learning Commons.

**Licensure**

As indicated in our previous strategy plan, our thresholds for our licensure moved toward departmental goal setting based on the national or statewide rates while taking into consideration our own historical rates. We have three programs that did not meet the departmental thresholds.

Major	State Threshold	National Threshold	ACC Department Goal	Current Year	Prior Year	Additional Notes
American Board of Registration of Electroencephalographic and Evoked Potential Technologies		80%	90%	75%	76%	6 out of 8 passed
Board of Registered Polysomnographic Technologists			90%	100%	76%	
CCI-Cardiovascular Credentialing International, ARDMS (American Registered Diagnostic Medical Sonographer)		60%	90%	100%	100%	
EMT and Paramedic Certification through National Registry (NREMT)	75%	86%	75%	65%	69%	13 out of 20 passed
National Board for Respiratory Care/Texas Medical Board		80%	80%	85%	90%	
National Council of State Boards of Nursing (NCSBN) - NCLEX Exam /Texas Board of Nursing	80%	80%	90%	99%	93%	
National Council of State Boards of Nursing (NCSBN) - NCLEX Exam/Texas Board of Nursing	80%	80%	90%	100%	100%	
Paramedic Certification through National Registry (NREMT)	88%	72%	75%	82%	69%	
Pharmacy Technician Certificate Board		58%	80%	67%	67%	8 out of 12 passed
Texas Commission on Law Enforcement (TCOLE)	80%		90%	100%	100%	
Texas Department of State Health Services			80%	100%	100%	

Electroneurodiagnostic Technologist - For the class of 2020, 9 ENDT students graduated in December 2020. Of the 9 students, 5 students took the National Registry Exam and passed on the first attempt. The remaining 4 students have not taken the exam yet according to the Program Director. Seven of the 9 students are currently employed as electroneurodiagnostic technicians. The profession does not require the students to have their registry before they begin employment. Some students wait to take the exam because their employer will pay for it after they have worked for a set amount of time. The program continues to offer board preparation assignments, practice exams, and clinical scenarios in the ENDT 2661 capstone course. Additionally, the ENGT 2661 capstone course incorporates re-exploring and re-teaching topics from previous courses to bring all the information full circle in preparation to the comprehensive national registry exam.



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Emergency Medical Technician - To improve EMT Program certification exam pass rates, the curriculum for EMT, Advanced EMT, and Paramedic courses were revised and updated to meet current standards. The Program requires each student successfully complete an end-of-course certification practice exam offered by EMSTesting.com before being awarded a course completion certificate that allows him/her to sit for the national certification exam. Students who do not successfully complete the practice exam are required to complete remediation before attempting the practice exam again.

Pharmacy Technician - Pharmacy Technician program has increased PHRA 1243 (Pharmacy Technician Certification Review course) from 16 to 32 hours (1 credit to 2 credit) and began Fall 2021. Additional tutoring sessions are currently being held with the program director to remediate students until the change takes place.

#### Recommended changes

Implemented in this tracking cycle was the addition of our workforce programs to our licensures. This is in response to the regional needs for more certified or licensed professionals in workforce fields. These will be included in the next cycle and action steps will be tracked toward any needed improvements for these programs with our academic credit programs.