Section 1 and 3 - Analysis of Unit PIE & Updates on Goals

PIE - Technology & Health Division Manager

2020-21

Contact Person: Sam Agdasi and Sarah Plesetz
Email/Extension: sagdasi@mtsac.edu and splesetz@mtsac.edu
Analysis of conditions and resulting plans, activities, resources, progress and critical decisions.: PIE - Technology & Health Division Manager

2020-21
Contact Person: Sam Agdasi and Sarah Plesetz
Email/Extension: sagdasi@mtsac.edu and splesetz@mtsac.edu
Summary of Notable Achievements: Contact Person: Sam Agdasi and Sarah Plesetz   Email/Extension: sagdasi@mtsac.edu and splesetz@mtsac.edu
Division Mission Statement: (none currently)
Due to the COVID-19 Pandemic, the Department Chairs were not required to include Section 1: Where We Make an Impact. Section 2: Where Are We Now was suggested but not required. Section 3: Where Are We Going was required.
Thus, the focus for the Manager PIE will be on Section 3: Where Are We Going and updates on goals. Nevertheless, we would be remiss if we did not highlight some of our Division's accomplishments during this past academic year of 2020-2021:
•   Our First Responder programs of Nursing, Paramedic, Respiratory Therapy, and Radiologic Technology were the first to return to campus in a Face-to-Face teaching format in the labs and clinical classes. This was followed closely with the Welding and Air Conditioning/HVAC programs. By the end of the academic year, all of our program labs and clinical classes were offered either on campus or at an off-campus clinical site. Only our Architecture/IDE/Manufacturing and Administration of Justice programs remained in the remote teaching format.
•   We are very proud of our Nursing, Allied Health, and Paramedic programs, all of which returned to hospital sites at the highest and most dangerous point of the pandemic, to care for patients. The students and faculty did not hesitate to return, understanding that this is what their chosen careers expect.
•   Mt. SAC was selected by the Federal Aviation Administration (FAA) to become part of the FAA Unmanned Aircraft Systems Collegiate Training Initiative (FAA UAS-CTI Program). Mt. SAC has an existing 24-year partnership with the FAA AT-CTI Program for Air Traffic Control that leads to employment with the FAA. Adding this new FAA partnership brings prestige to the college by training students to enter the workforce in the cutting-edge, futuristic industry of unmanned aircraft and drones.
•   Once again, we want to thank our IDE/Manufacturing faculty, staff, and students for 3D printing and laser-cutting over 1,300 face shields during the height of the pandemic. This took considerable effort from everyone involved. Thirty-five of these face shields went to our own Respiratory faculty and students for use over the summer. The remainder were donated to Kaiser Hospital in Baldwin Park.
•   Our Respiratory Therapy program received the Commission on Accreditation for Respiratory Care (CoARC) President's Award for Excellence in Credentialing Success. We are the only school in Southern California to receive this award!
•   The Nursing Faculty have collaborated with the Regional Nursing Curriculum Consortium (RNCC) to develop a common curriculum among the Community College Nursing Programs in Los Angeles County.
•   Welding has hired their first female Welding faculty. She is an alumnus and a journey-level millwright.
•   The Technology and Health Division has started plans for our NEW building set to open in 5 to 6 years! Our Department Chairs, Directors, and Department staff have dedicated many hours meeting with the architects and the Mt. SAC planning team.
•   With the challenges of the COVID-19 Pandemic, courses needed restructuring in many of our programs to meet the online or hybrid teaching modalities. Additional costs incurred but were resolved with federal funding available through the CARES Act programs. These funds made it possible for students to continue learning at home, including hands-on lab materials (e.g. IDE students had home access to 3-D printers; many students received laptops for home use; health students received

supplies for skills practice at home; and remote learning programs such as Swift River were purchased). This resulted in tremendous student success. We were able to graduate students and pass accreditations with flying colors in the Respiratory Therapy, Radiologic Technology, Psychiatric Technician, and Paramedic programs.

Closing the Loop - Analysis of Progress on College Goals:
Please see the PIE Updates on Goals section regarding information related to our Technology & Health Division Goals:
• Program promotion: Draw new students through effective program promotion- both on and off campus.
• Program access: Increase program access through the creation of clear pathways for high school students and clear avenues for incumbent workers.
• Student success: Move students through programs efficiently by providing them with effective advising and support and by taking all steps available to engage them in their programs of study.
• Student skill acquisition: Provide students with in-demand skills through up-to-date industry-valued curriculum, quality instruction, and state of the art equipment.
• Path to Transfer and/or Employment: Provide students with a path to transfer and/or employment by establishing productive partnerships with universities and industry.
• Alumni Engagement: Utilize multiple means to increase alumni engagement, including orchestrated social media contact, invitations to program events, guest speaking opportunities, and advisory membership.
• Core Value: In Technology & Health, we use data from multiple sources to assess work toward our goals.

2021 Current Student Survey:
Because of the COVID-19 pandemic, the 2019-20 Current Student Survey was not completed in Spring 2020; however, it was deployed in Spring 2021 (see attached). The survey is usually completed as a paper survey. Due to the pandemic, the survey was sent electronically to 4,452 students, but only 340 students completed it (7%). In comparison, using paper surveys in 2018, the survey response rate was 44%.
This Current Student Survey allowed us to assess our progress on some of the Division Goals across our departments:
Division Goal: Student Success: Move students through programs efficiently by providing them with effective advising and support and by taking all steps available to engage them in their program of study.
        Survey Results:
• Use and High Satisfaction of Support Services (>70%)
a. 67% Used Counseling (All Technology & Health Departments have dedicated counselors)
b. 59% Used Faculty Office hours
Division Goal: Path to Transfer and/or Employment--Provide students with a path to transfer and/or employment by establishing productive partnerships with universities and industry.
        Survey Results:
• Interest in Bachelor's Degrees at Mt. San Antonio College
o Nursing at Mount St. Mary's University = 15%
o Criminology at Mount St. Mary's University = 13%

2020 CTE Employment Outcomes Survey:
Attached is the 2020 CTE Employment Outcomes Survey from our Research Department. The conclusion stated: "The results of the survey showed that completing CTE studies and training; whether or not a credential is earned, whether or not a student transfers, is related to positive employment outcomes."
The survey results allowed us to assess our progress on two Division goals across multiple departments in the Technology & Health Division (please see the attached survey for more detailed results):
Division Goal: Providing Our Students with Industry-Valued Skills
Survey Results:
1. Students satisfied or very satisfied with the education and training received at Mt. SAC = 93.9% (previous survey 97.1%); and 71.6% (previous survey 71.9%) indicated that their current job is in a similar field as their coursework and training. Both indicated good results but a slight decrease from the previous survey.
2. Wages before training at Mt. SAC: $15/hour; after training at Mt. SAC: $22/hour.
Division Goal: Providing Our Students with Clear Paths to Employment
Survey Results:
1. According to the CTE Employment Outcomes Survey, 44.8% of students found employment within 3 months of completing the coursework (a large drop from 71.4% in the previous survey. This could be attributed to the pandemic). 71% of students were working 40 hours per week (up from 67% in the previous survey).
Clear path to employment has also been positively affected by our Work Experience Program:
o 77 students have been offered employment directly related to the WE programs (self-reported by graduates).

Analysis of Curriculum Currency: The Division utilizes a server for monthly tracking of all department submissions of Curriculum and SLOs. In the last semester since this tracking method was utilized, 100% of Department Chairs have participated in the review of their curriculum and SLOs. The Associate Dean conducts a monthly review of Curriculum Currency and provides a status report at each Division Chair Meeting.

External and Internal Conditions Analysis: This section did not require completion by Departments this year. The internal conditions and challenges remain similar to previous years, but the magnitude has increased due to the COVID-19 pandemic.

External:

• Industry needs prompt program growth, which results in the need for more support of resources, staff, and faculty.

• Industry changes prompt program improvement and this results in the need for new equipment upgrade, space to house it in, and professional development for faculty.

Internal:

• Additionally, many internal conditions revolved around the need for Fall 2020 and Spring 2021 classes to go to an online format. These challenges were similar to the previous year, which led to creating a process of collecting information regarding computer and AV equipment each department needs to serve our students better. Some programs needed more specialized computer software for their classes, such as in Electronics/Computer Networking, IDE, and Architecture.

• Another internal challenge for our faculty was to add the Distance Learning addendum to their courses as they transitioned into the remote environment. Additionally, faculty had to be certified in Distance Learning by taking the FOMAR or SPOT training courses.

Program Planning (Equity, Retention, and Success): The College's Integrated Planning and Assessment Data Report captured the following data:

A. Student retention rates: (data from Power BI Nuventive)

1. Over the 2018-2019 years, our Division Retention Rates across all of our programs was 92.3%; during 2019-2020, the rate was 93.9%.

2. During the academic year of 2020-2021, our Retention rate increased to 98.5%. This was an unexpected increase, especially during the COVID-19 pandemic.

These consistent positive numbers could be attributed to efficient scheduling, embedded tutors and supplemental instructors, and the student usage of our resource centers.

Resource Centers:

• Tech Ed Resource Center (TERC) Student Swipe-ins:

? Fall 2019 = 5,499

? Spring 2020 = 1,952 (drop at the beginning of the pandemic)

? Fall 2020 = 743 (COVID pandemic and switch to remote tutoring)

? Spring 2021 = 784 (COVID pandemic and switch to remote tutoring)

•

• Health Careers Resource Center (HCRC) Student Swipe-ins:

? Fall 2019 = 586

? Spring 2020 = no open labs due to COVID pandemic

? Fall 2020 and Spring 2021 = no open labs due to COVID, only students in scheduled courses were allowed for lab work

• Work Experience (WE):

? Technology & Health: 2019-2020 = 203 (168 completions); 2020-2021= 116 (completer number pending). Decrease in number due to pandemic and inability to place students in some WE sites.

? Offered three new WE courses which had been dormant for over a year: AIRC 95, WELD 96 and NURS 20

B. Certificate and Degree Awards: Certificate and degree awards totaled 1,048 awards in 2018-19. Unfortunately, award numbers dropped to 711 during the 2019-20 academic year and 710 during 2020-21. This decrease was most likely due to the COVID-19 pandemic.

Aeronautics ranked third highest for the number of degrees awarded at Mt. SAC, with over 100 A.S. degrees awarded.

Some of our programs have great enrollment numbers but have low certificate and degree numbers. Many of these types of programs are Skill Builders and/or the students "job-out."

C. Equity/Diversity:

• In a faculty study, we found that the Aeronautics Department enrollment of students who identify as female has reached 20% out of a total enrollment of over 600 students per semester. These are significant facts because the FAA just announced an initiative to recruit young people to join the aviation industry, and are specifically targeting those who are considered non-traditional students.

• Other programs with non-traditional students growing in number (Spring 2021):

o Our Nursing program graduated 50 students with 19 male students.

o Our FIRE program graduated 37 students with two female students.

Analysis of Division's Plans, Activities, Resources and Critical Decisions: This academic year continued to be challenging due to the COVID-19 pandemic, which resulted in classes changing to an online format along with the hard work of bringing lab classes back to campus. This work took many hours for the faculty who were already busy with the change to online format for the didactic component (and some lab components) of their classes.

The Technology & Health Division faculty and staff did excellent work in this transition to an online format and in planning for labs to return to campus and to clinical sites. With the help of the CARES Act money, we were able to bring many labs to campus and enabled remote classes to transition more easily. By the end of Spring 2021, all Technology & Health program labs returned to campus, with the exception of Architecture/IDE/Manufacturing and Administration of Justice. Additionally, all of our Health and First Responders returned to clinical sites at our affiliate hospitals.

Our Division has faced many challenges; however, with Leadership support, we continue to offer courses and meet the needs of our students.