IT’S A GREAT TIME TO PLAN FOR THE FUTURE

TODAY’S AGENDA

1. PROCESS & VISION FEEDBACK
2. REGIONAL ANALYSIS
3. STUDENT DEMOGRAPHICS
4. SPACE INVENTORY & UTILIZATION
5. PHYSICAL ANALYSIS
6. NEXT STEPS
PROCESS & VISION FEEDBACK
DISCOVERY: KICKOFF VISITS

FROM IN-PERSON TO ONLINE
WHAT WE HEARD

WHO IS ESTRELLA MOUNTAIN?
• 10 RESPONSES

CAMPUS STRENGTHS & WEAKNESSES
• 21 RESPONSES

This plan will be successful if we continue with the positive, open-to-all discussions that currently happen at all levels of leadership.

Students graduate feeling capable and confident in their skills.

Any plan we come up with will be successful if we think through it carefully, work together, and follow through.

If each individual college considers the good of all students in the district first and not necessarily what is just good for one campus.

"We all have input. We remember those who made the school possible, founding and long term faculty, a place for all who spend time here to leave a mark."

It is well thought-out, enables growth for students and faculty, and is scalable.

PHOTO UPLOADS
• 1 SUBMISSION

MCCCD Comprehensive District Facilities Plan: Estrella Mountain
OPEN HOUSE SUMMARY: STRENGTHS + WEAKNESSES

STRENGTHS
• Aesthetics
• Open Space
• Architecture
• EST – 1st floor
• Service Area

WEAKNESSES
• Parking – amount and shade
• Street Visibility for first time visitors
• Komatke hall – flow and space
• Building Wayfinding
EMERGING THEMES

CTE
- Expand West-MEC
- Focus on Nursing and expand other Allied Health disciplines
- Be flexible and respond to workforce demands with programs offered

STEM
- Continue to focus on advancing technology
- Expand partnerships and internships like Microsoft

CAMPUS + COMMUNITY
- Buckeye School District
- Focus on West Valley Communities
- Expand student services, dining, collaboration spaces

ESTRELLA MOUNTAIN CC
EMCC FEEDBACK & EMERGING THEMES

QUESTIONS

Do these emerging themes seem to capture our goals for the Facilities Plan?

Do the perceived strengths and weaknesses resonate?

How might we best leverage the student voice moving forward?
REGIONAL ANALYSIS
DISTRICT-WIDE ENVIRONMENTAL SCAN

Value of the Environmental Scan

- Allows campus leadership to proactively respond to external impacts through a more informed facility planning process.
- Opportunity to engage stakeholders from across the district to address district-wide challenges.

CH 1: DEMOGRAPHIC TRENDS
CH 2: GIS DATA & MAPS
CH 3: COLLEGE READINESS
CH 4: BEST PRACTICES FOR HISPANIC SERVING & MINORITY INSTITUTIONS
CH 5: ECONOMIC TRENDS
CH 6: WORKFORCE TRENDS
CH 7: TECHNOLOGY TRENDS
CH 8: POLITICAL TRENDS
CH 9: ENROLLMENT & CAPTURE RATE ANALYSIS
CH 10: MCCCD & PEER INSTITUTION BENCHMARKING
60/30 PLAN
REDUCING BARRIERS TO OPPORTUNITY

HOLISTIC STUDENT SUPPORT

Educational Attainment: Maricopa County

- College Degree
- High School
- Less than High School

Non-Hispanic | Hispanic
---|---

60% BY 2030
REGIONAL ANALYSIS

KEY TAKEAWAYS & QUESTIONS

- Are there key elements of the regional demographics not captured here that are critical for us to understand?

- How does this demographic information affect Estrella’s mission and decision-making regarding curriculum offerings?
ESTRELLA MOUNTAIN CC

STUDENT SWIRL

DISTRICT STUDENT SWIRL

- 1 College: 44%
- 2 Colleges: 31%
- 3 Colleges: 16%
- 4 or More Colleges: 10%

STUDENT SWIRL

- EMCC Only: 21%
- Two Colleges: 32%
- Three Colleges: 25%
- 4 or More Colleges: 23%
ENROLLMENT
MCCCD ENROLLMENT PROJECTIONS

Fall 2020 Public Two-Year Community College Enrollment
- 9.5% decline nationally from previous year, -27.5% for Hispanics, -10.5% in 18-20 age group
- 17.5% decline in Arizona from previous year

Source: MCCCD Summary Forecast - Faculty Staff Student FTE (November, 2020)
SHIFTING EDUCATIONAL NEEDS

Student Preferred Options for College: August 2020

Since the onset of the pandemic, Americans have expressed a consistent preference for nondegree and skills training options.

2 in 5 Americans (38%) say the most important factors in choosing an educational program are whether it is related to their work and suited to their personal needs.
ESTRELLA MOUNTAIN CC

TOP 10 PROGRAMS BY DEGREE/CERTIFICATE AWARDED

- Liberal Arts and Sciences, General Studies and Humanities: 742
- Visual and Performing Arts: 679
- Business, Management, Marketing, and Related Support Services: 268
- Computer and Information Sciences and Support Services: 165
- Multi/Interdisciplinary Studies: 109
- Physical Sciences: 109
- Homeland Security, Law Enforcement, Firefighting and Related Protective Services: 88
- Health Professions and Related Programs: 76
- Engineering Technology and Engineering-Related Fields: 33
- Personal and Culinary Services: 28
THE TALENT NEEDS OF THE POST-COVID ECONOMY

What might it look like…

THE READINESS ECONOMY
COVID-19 has revealed how ill-prepared we all are. Being more prepared will boost demand in healthcare, infrastructure, cybersecurity, environmental technology, insurance, etc.

THE REMOTE ECONOMY
As more work gets performed remotely, there will be growing dependence on the data and software that are the key underpinnings of the remote economy.

THE LOGISTICS ECONOMY
Manufacturers have come to appreciate the vulnerability of supply chains, etc. Reshoring some industries will put greater focus on advanced manufacturing. Similarly, there will be greater need for logistics expertise.

THE AUTOMATED ECONOMY
Employers will prioritize automation over hiring back low-value workers. Jobs driving automation will thrive.
MARICOPA COUNTY: JOB POSTINGS 2020 VS. 2019

Source: Emsi Q4 2020 Data Set
### MARICOPA COUNTY JOB POSTINGS BY OCCUPATION*

*Filtered by: Posting Intensity Greater Than 10:1 & % Change Greater Than 50%*

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>11-3011</td>
<td>Administrative Services &amp; Facilities Managers</td>
<td>15</td>
<td>8</td>
<td>13 : 1</td>
<td>50%</td>
<td>6</td>
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<tr>
<td>11-9021</td>
<td>Construction Managers</td>
<td>24</td>
<td>8</td>
<td>22 : 1</td>
<td>57%</td>
<td>15</td>
</tr>
<tr>
<td>17-3023</td>
<td>Electrical &amp; Electronic Engineering Technicians</td>
<td>96</td>
<td>43</td>
<td>11 : 1</td>
<td>100%</td>
<td>51</td>
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<tr>
<td>28-2031</td>
<td>Cardiovascular Technicians</td>
<td>15</td>
<td>5</td>
<td>13 : 1</td>
<td>50%</td>
<td>8</td>
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<tr>
<td>29-2052</td>
<td>Pharmacy Technicians</td>
<td>464</td>
<td>162</td>
<td>17 : 1</td>
<td>131%</td>
<td>48</td>
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<tr>
<td>29-2055</td>
<td>Surgical Technologists</td>
<td>102</td>
<td>50</td>
<td>14 : 1</td>
<td>71%</td>
<td>34</td>
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<tr>
<td>31-1128</td>
<td>Home Health &amp; Personal Care Aides</td>
<td>106</td>
<td>38</td>
<td>10 : 1</td>
<td>59%</td>
<td>42</td>
</tr>
<tr>
<td>49-3023</td>
<td>Automotive Service Technicians</td>
<td>178</td>
<td>78</td>
<td>10 : 1</td>
<td>74%</td>
<td>40</td>
</tr>
<tr>
<td>49-3031</td>
<td>Bus/Truck Mechanics &amp; Diesel Engine Specialists</td>
<td>53</td>
<td>19</td>
<td>10 : 1</td>
<td>108%</td>
<td>17</td>
</tr>
<tr>
<td>49-9041</td>
<td>Industrial Machinery Mechanics</td>
<td>19</td>
<td>6</td>
<td>10 : 1</td>
<td>125%</td>
<td>13</td>
</tr>
</tbody>
</table>

Source: Emsi Q4 2020 Data Set
## Workforce Demand Gap Analysis in Maricopa County: 2020-2030

<table>
<thead>
<tr>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bookkeeping, Accounting &amp; Auditing Clerks</td>
<td>19,472</td>
<td>21,551</td>
<td>2,614</td>
<td>502</td>
<td>(2,112)</td>
<td>Certificate</td>
<td>$42,618</td>
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<tr>
<td>Nursing Assistants</td>
<td>8,742</td>
<td>11,851</td>
<td>1,453</td>
<td>656</td>
<td>(797)</td>
<td>Certificate</td>
<td>$33,334</td>
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<tr>
<td>HVAC</td>
<td>7,648</td>
<td>9,796</td>
<td>1,064</td>
<td>274</td>
<td>(790)</td>
<td>Certificate</td>
<td>$46,207</td>
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<tr>
<td>Licensed Practical &amp; Vocational Nurses</td>
<td>5,571</td>
<td>7,535</td>
<td>684</td>
<td>239</td>
<td>(445)</td>
<td>Certificate</td>
<td>$56,088</td>
</tr>
<tr>
<td>Dental Assistants</td>
<td>6,087</td>
<td>7,367</td>
<td>878</td>
<td>448</td>
<td>(430)</td>
<td>Certificate</td>
<td>$44,151</td>
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<tr>
<td>Telecommunications Equipment Installers</td>
<td>3,085</td>
<td>3,380</td>
<td>384</td>
<td>17</td>
<td>(367)</td>
<td>Certificate</td>
<td>$52,757</td>
</tr>
<tr>
<td>Paralegals &amp; Legal Assistants</td>
<td>5,763</td>
<td>6,821</td>
<td>768</td>
<td>498</td>
<td>(270)</td>
<td>Associate's</td>
<td>$52,538</td>
</tr>
<tr>
<td>Physical Therapist Assistants</td>
<td>2,110</td>
<td>2,737</td>
<td>362</td>
<td>122</td>
<td>(240)</td>
<td>Associate's</td>
<td>$35,738</td>
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<tr>
<td>Aircraft Mechanics</td>
<td>3,749</td>
<td>4,074</td>
<td>353</td>
<td>140</td>
<td>(213)</td>
<td>Certificate</td>
<td>$68,325</td>
</tr>
<tr>
<td>Automotive Service Techs &amp; Mechanics</td>
<td>9,870</td>
<td>11,250</td>
<td>1,160</td>
<td>1,102</td>
<td>(58)</td>
<td>Certificate</td>
<td>$42,802</td>
</tr>
</tbody>
</table>

Source: Emsi Q4 2020 Data Set (November 2020)
STUDENT DEMOGRAPHICS

QUESTIONS

- What future changes are anticipated in the college's student demographic? What impact will these changes have on space and facility needs?

- Enrollment changes are predicted between 2019 and 2029. If accurate, how will these changes impact the college moving forward?

- The pandemic is altering both economic and occupational labor demands. Is the college contemplating any new certifications, certificate or degree programs?
SPACE INVENTORY, UTILIZATION AND METRICS
FACILITY INVENTORY

- Developed room-by-room inventory for 6.2 million sf
- Identified space use (i.e. classrooms, teaching labs, offices, etc.)
- Ensured consistent classification of space types across all colleges
- Serves as the basis for space needs analysis
- Developing dashboards for building inventories and instructional space utilization
• Ten Campus total is 4,809,228 Assignable Square Feet
• Mesa Community College has the largest amount of space
• Offices are the largest space category at 1,126,084 ASF or 23.4% of total space
• Teaching and open laboratories comprise 1,056,925 ASF or 22% of total space
UTILIZATION METRICS

ASSIGNABLE SQUARE FEET (ASF) PER STATION
Space ASF divided by the number of student seats or stations

STUDENT STATION OCCUPANCY (SSO)
The percentage of seats filled when a course is scheduled as compared to the actual number of seats in a room

WEEEKLY ROOM HOURS (WRH)
Number of hours per week a credit-bearing course is scheduled into a room
CLASSROOM UTILIZATION OUTCOMES: FALL 2019
ESTRELLA MOUNTAIN - AVONDALE

Actual Utilization:
- 34 Average Weekly Room Hours
- 72% Average Student Station Occupancy

Classroom Guideline:
- 32 Weekly Room Hours
- 65% Student Station Occupancy

- Highest Use on Monday and Tuesday at 10:00 AM
- No more than 56 of the 62 classrooms in use at any one time
- Significant utilization on Friday
### Teaching Laboratory Utilization Summary by Campus

<table>
<thead>
<tr>
<th>Campus'</th>
<th>Teaching Labs (210)</th>
<th></th>
<th></th>
<th></th>
<th>Computer Labs (211)</th>
<th></th>
<th></th>
<th></th>
<th>Technical Labs (212)</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Average ASF per</td>
<td>Average</td>
<td>Hours in Use</td>
<td>Student Station</td>
<td>Average ASF per</td>
<td>Average</td>
<td>Hours in Use</td>
<td>Student Station</td>
<td>Average ASF per</td>
<td>Average</td>
<td>Hours in Use</td>
</tr>
<tr>
<td></td>
<td>Station</td>
<td>Weekly Room</td>
<td></td>
<td>Occupancy</td>
<td>Station</td>
<td>Weekly Room</td>
<td></td>
<td>Occupancy</td>
<td>Station</td>
<td>Weekly Room</td>
<td></td>
</tr>
<tr>
<td>Chandler-Gilbert Pecos Campus</td>
<td>49.7</td>
<td>37</td>
<td>67%</td>
<td></td>
<td>34.6</td>
<td>28</td>
<td>69%</td>
<td></td>
<td>53.5</td>
<td>18</td>
<td>45%</td>
</tr>
<tr>
<td>Chandler-Gilbert Williams Campus</td>
<td>51.2</td>
<td>24</td>
<td>74%</td>
<td></td>
<td>48.3</td>
<td>12</td>
<td>74%</td>
<td></td>
<td>50.7</td>
<td>11</td>
<td>69%</td>
</tr>
<tr>
<td>Estrella Mountain Avondale</td>
<td>51.2</td>
<td>17</td>
<td>71%</td>
<td></td>
<td>44.3</td>
<td>28</td>
<td>72%</td>
<td></td>
<td>103</td>
<td>12</td>
<td>24%</td>
</tr>
<tr>
<td>GateWay Washington Campus</td>
<td>42.3</td>
<td>19</td>
<td>67%</td>
<td></td>
<td>33.4</td>
<td>13</td>
<td>58%</td>
<td></td>
<td>43.8</td>
<td>9</td>
<td>74%</td>
</tr>
<tr>
<td>Glendale Main Campus</td>
<td>43.9</td>
<td>28</td>
<td>88%</td>
<td></td>
<td>36.2</td>
<td>29</td>
<td>60%</td>
<td></td>
<td>69.9</td>
<td>31</td>
<td>70%</td>
</tr>
<tr>
<td>Mesa Southern &amp; Dobson Campus</td>
<td>46.8</td>
<td>25</td>
<td>70%</td>
<td></td>
<td>30.3</td>
<td>20</td>
<td>67%</td>
<td></td>
<td>40.1</td>
<td>6</td>
<td>64%</td>
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<tr>
<td>Paradise Valley Union Hills</td>
<td>43.3</td>
<td>20</td>
<td>50%</td>
<td></td>
<td>32.0</td>
<td>13</td>
<td>70%</td>
<td></td>
<td>47</td>
<td>18</td>
<td>54%</td>
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<tr>
<td>Phoenix College Main Campus</td>
<td>49.9</td>
<td>22</td>
<td>69%</td>
<td></td>
<td>41.8</td>
<td>20</td>
<td>65%</td>
<td></td>
<td>34.8</td>
<td>16</td>
<td>67%</td>
</tr>
<tr>
<td>Scottsdale</td>
<td>43</td>
<td>19</td>
<td>56%</td>
<td></td>
<td>31.2</td>
<td>26</td>
<td>69%</td>
<td></td>
<td>36.8</td>
<td>8</td>
<td>63%</td>
</tr>
<tr>
<td>South Mountain Main Campus</td>
<td>42.7</td>
<td>18</td>
<td>57%</td>
<td></td>
<td>36.1</td>
<td>26</td>
<td>59%</td>
<td></td>
<td>53.3</td>
<td>14</td>
<td>59%</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td><strong>46.4</strong></td>
<td><strong>23</strong></td>
<td><strong>67%</strong></td>
<td></td>
<td><strong>36.8</strong></td>
<td><strong>22</strong></td>
<td><strong>66%</strong></td>
<td></td>
<td><strong>53.3</strong></td>
<td><strong>14</strong></td>
<td><strong>59%</strong></td>
</tr>
</tbody>
</table>

**Lab Utilization Guideline**

- 24 Weekly Room Hours @ 70% Occupancy
- 20 hours @ 68% Occupancy
Institutions Close to Trendline:
- Estrella Mountain
- Rio Salado
- Paradise Valley
- South Mountain

Slightly Above Trendline:
- Phoenix
- Scottsdale
- GateWay

Above the Trendline:
- Chandler-Gilbert
- Glendale
- Mesa
QUESTIONS

- Are there internal factors (i.e., technology, scheduling practices, size of rooms) impacting utilization of classrooms and labs?

- Are there strategic goals or strategies that will require new space or the renovation of existing space on your campuses?

- Are there pending capital projects that would improve operational efficiency or student success?

- Do answers to responses above require new sites or the consolidation of existing sites?
LEGEND

- Good
- Fair
- Poor
- Consider Replacement
LEGEND

- Over-Utilized
- Ideal Utilization
- Under-Utilized
- Poor Utilization
ESTRELLA MOUNTAIN CC

PARKING

2,646
Total parking spaces

.25
Parking spaces per total headcount

-1%
Less than the district average

MCCCD Comprehensive District Facilities Plan: Estrella Mountain
ESTRELLA MOUNTAIN CC
OPEN SPACE + LANDSCAPE

LEGEND
Key Outdoor Space
Turf Areas
Water Element
Rock/Planting Area
Major Detention
Property Line

MCCCD Comprehensive District Facilities Plan: Estrella Mountain
ESTRELLA MOUNTAIN CC
CHARACTER - IDENTITY

MODERN BUILDINGS

COVERED WALKWAYS

LIBRARY

PERFORMING ARTS

CELEBRATION OF WATER

INDOOR/OUTDOOR

EVENT LAWNS

LUSH LANDSCAPE

SHADE

VEGETATION
PHYSICAL ANALYSIS

KEY TAKEAWAYS & QUESTIONS

- The MAR building appears to be underutilized, while the MON building is considered in poor condition despite age and renovation. Are these assumptions accurate and has there been discussion about the future of these assets?

- Continue to build on a strong landscape framework to provide opportunities for outdoor learning.

- Are there site projects / considerations that we need to understand? Future uses for western part of campus?

- How do we use the Image Zone today? Future?
NEXT STEPS
NEXT STEPS

January 2021:
Engage each college Steering Committee to present and discuss full analysis and receive feedback on future plans and vision

Q1-Q2 2021:
Alternative Scenario Development for each College and the District