



# DIXIE STATE UNIVERSITY

HIGHER EDUCATION APPROPRIATIONS  
SUBCOMMITTEE PRESENTATION

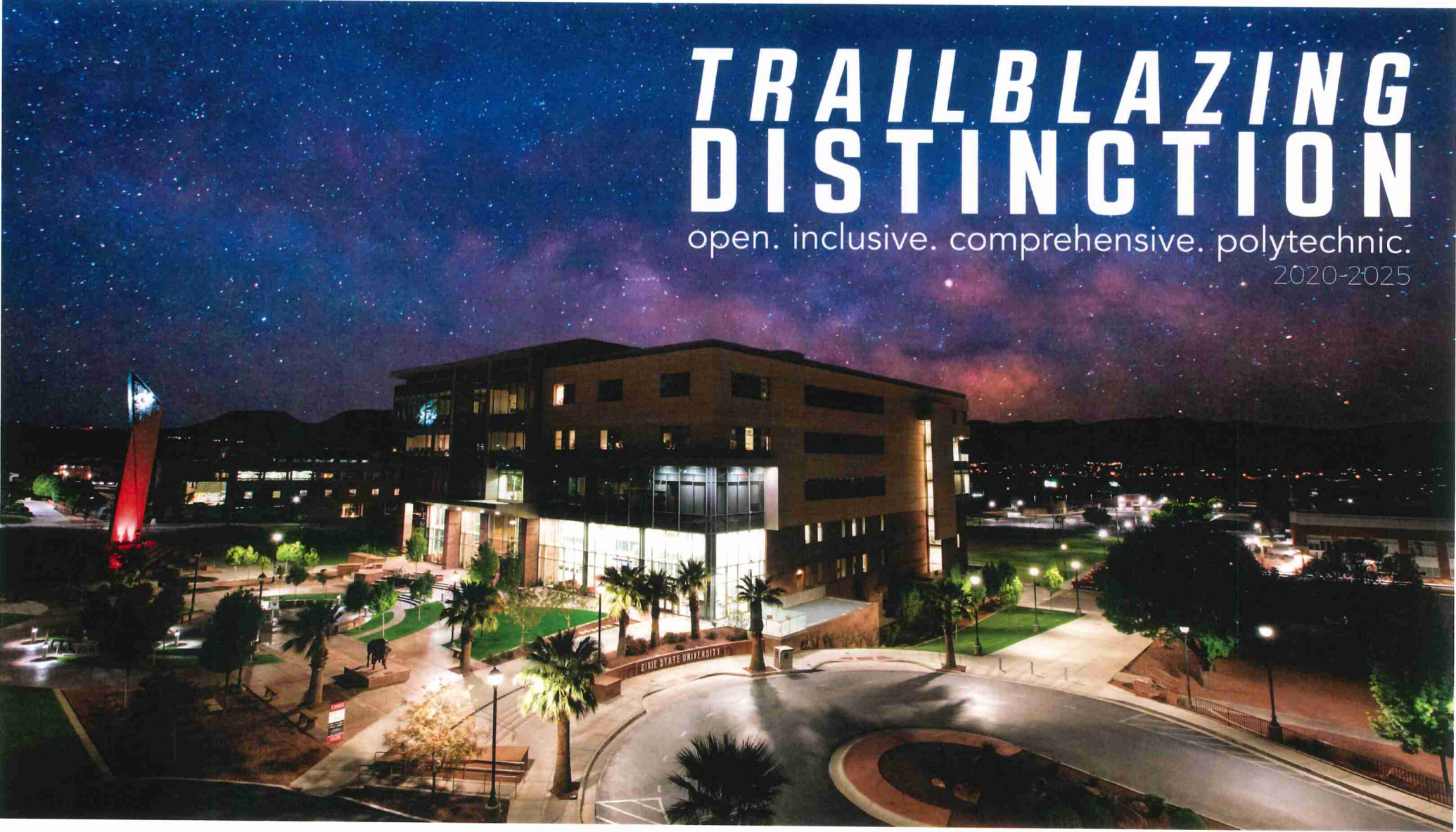
RICHARD B. WILLIAMS, PH.D., ATC

**DSU**<sup>TM</sup>

# TRAILBLAZING DISTINCTION

open. inclusive. comprehensive. polytechnic.

2020-2025





TOP **17** IN THE WEST

PUBLIC SCHOOLS



U.S. NEWS & WORLD REPORT  
BEST COLLEGES  
2021

TOP **48** IN THE WEST

BEST REGIONAL COLLEGES



U.S. NEWS & WORLD REPORT  
BEST COLLEGES  
2021

TOP **25** IN THE NATION

TOP PERFORMER SOCIAL MOBILITY



U.S. NEWS & WORLD REPORT  
BEST COLLEGES  
2021

# U.S. NAVY PARTNERSHIP

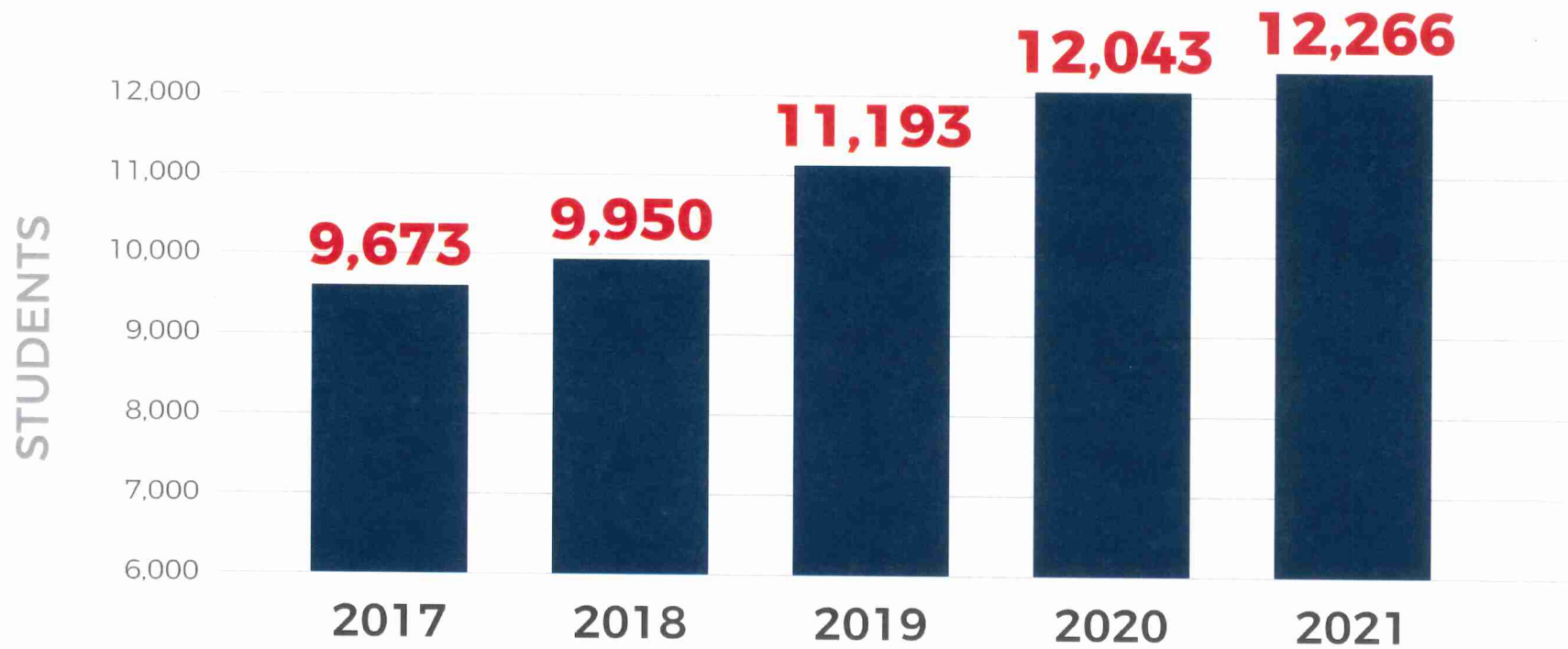
## Child and Youth Trailblazer Program

- \$30,000,000 over six years
- Summer Camp/After School Programs
- K-12 STEM pipeline/Recreation
- Navy installations all over the world
- Student Learning experiences



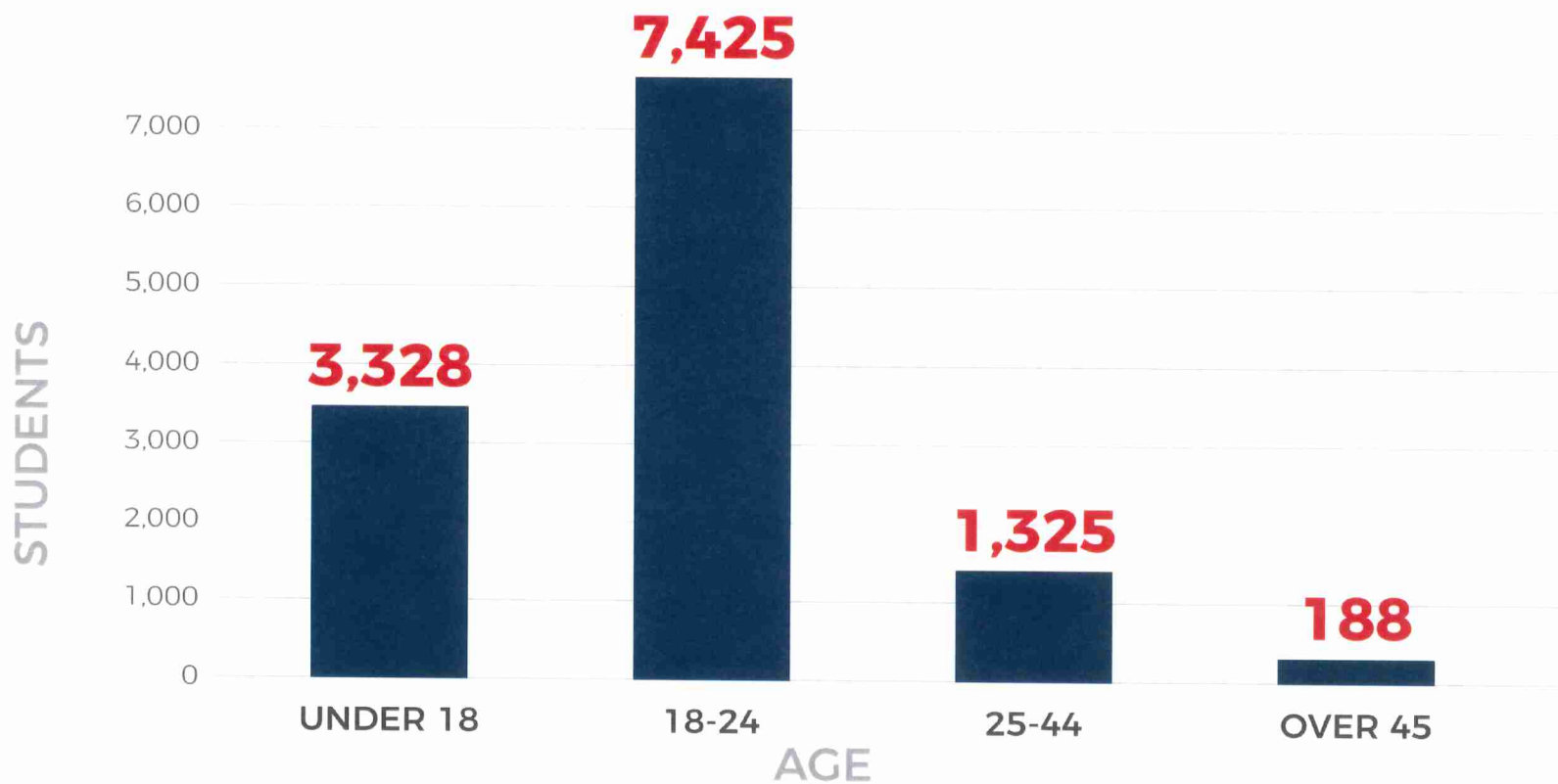


# ENROLLMENT GROWTH



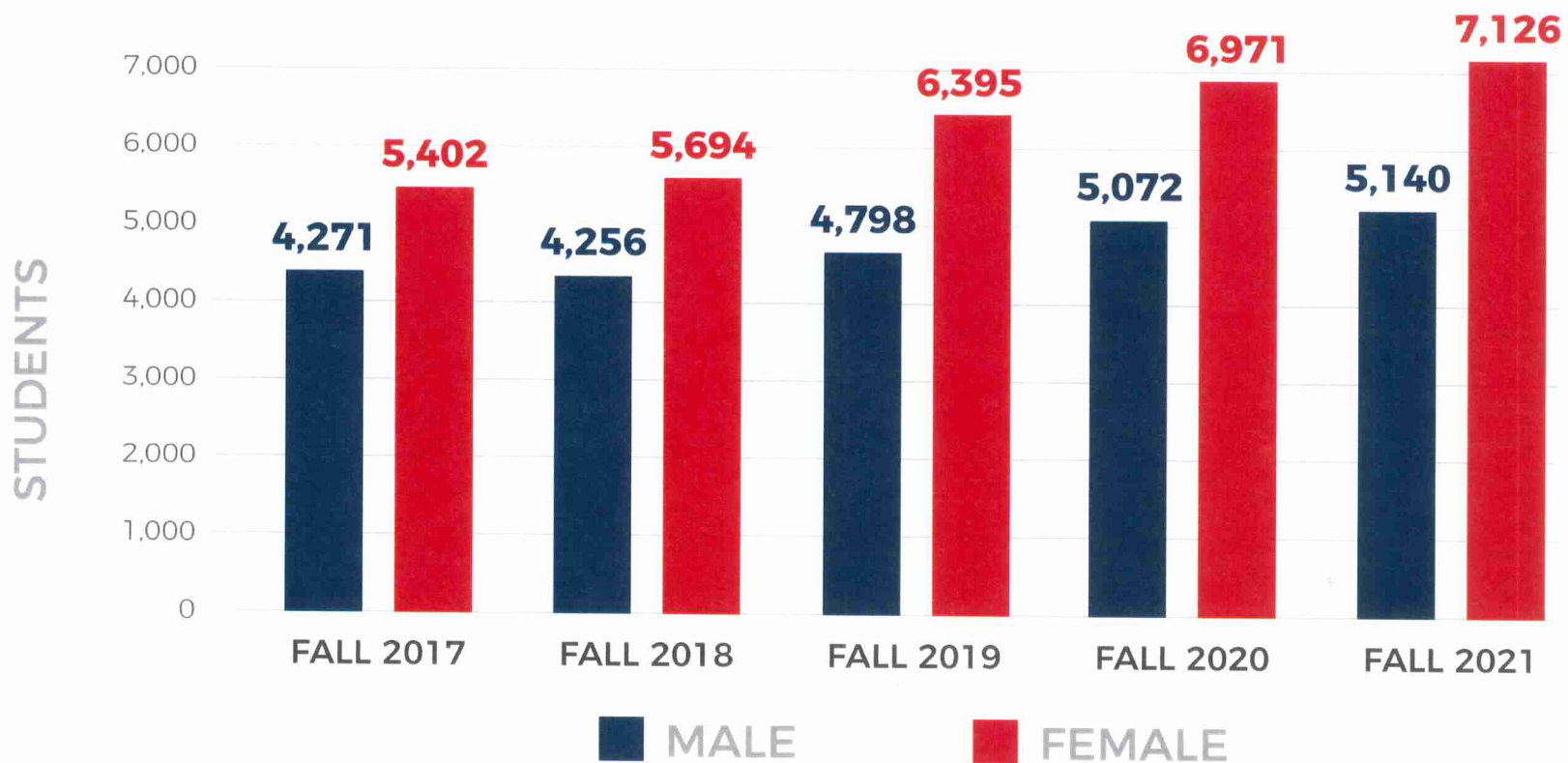
# ENROLLMENT BY AGE

FALL 2021



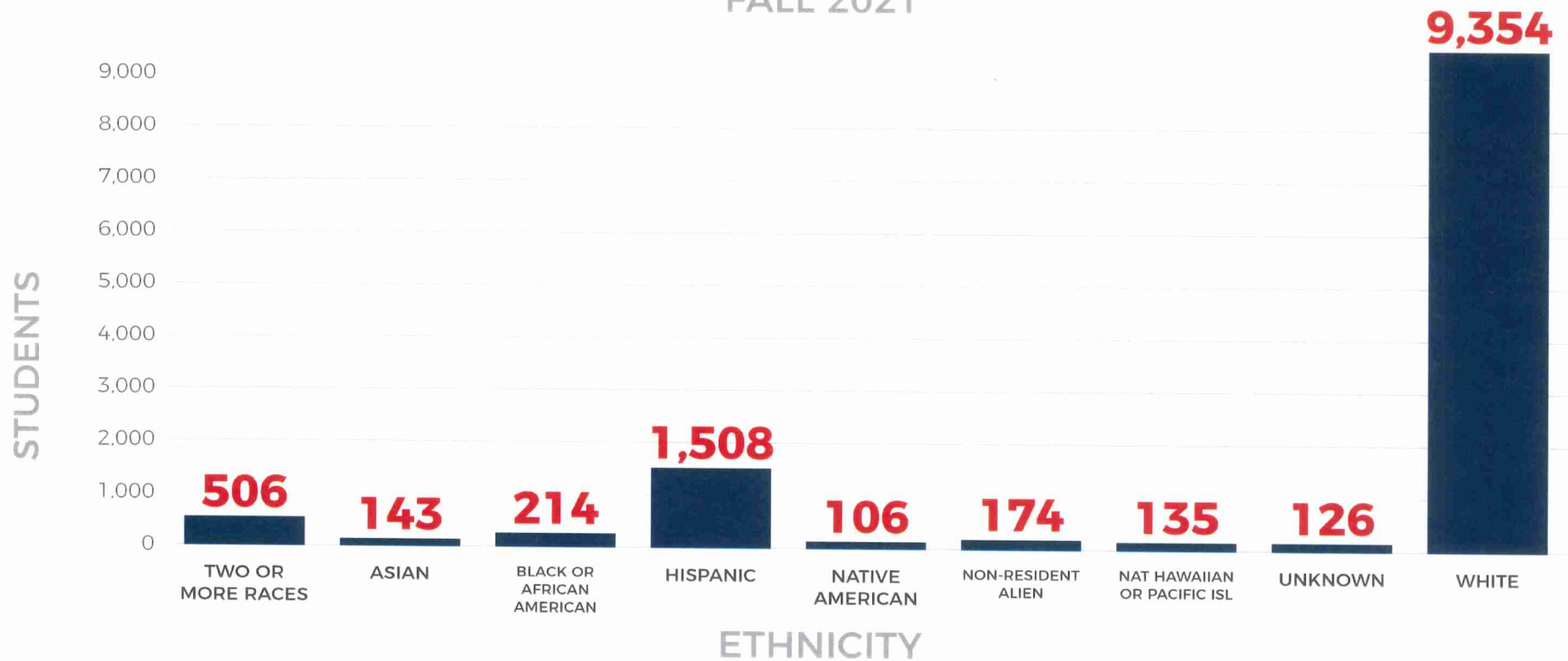


# ENROLLMENT BY GENDER



# ENROLLMENT BY ETHNICITY

FALL 2021



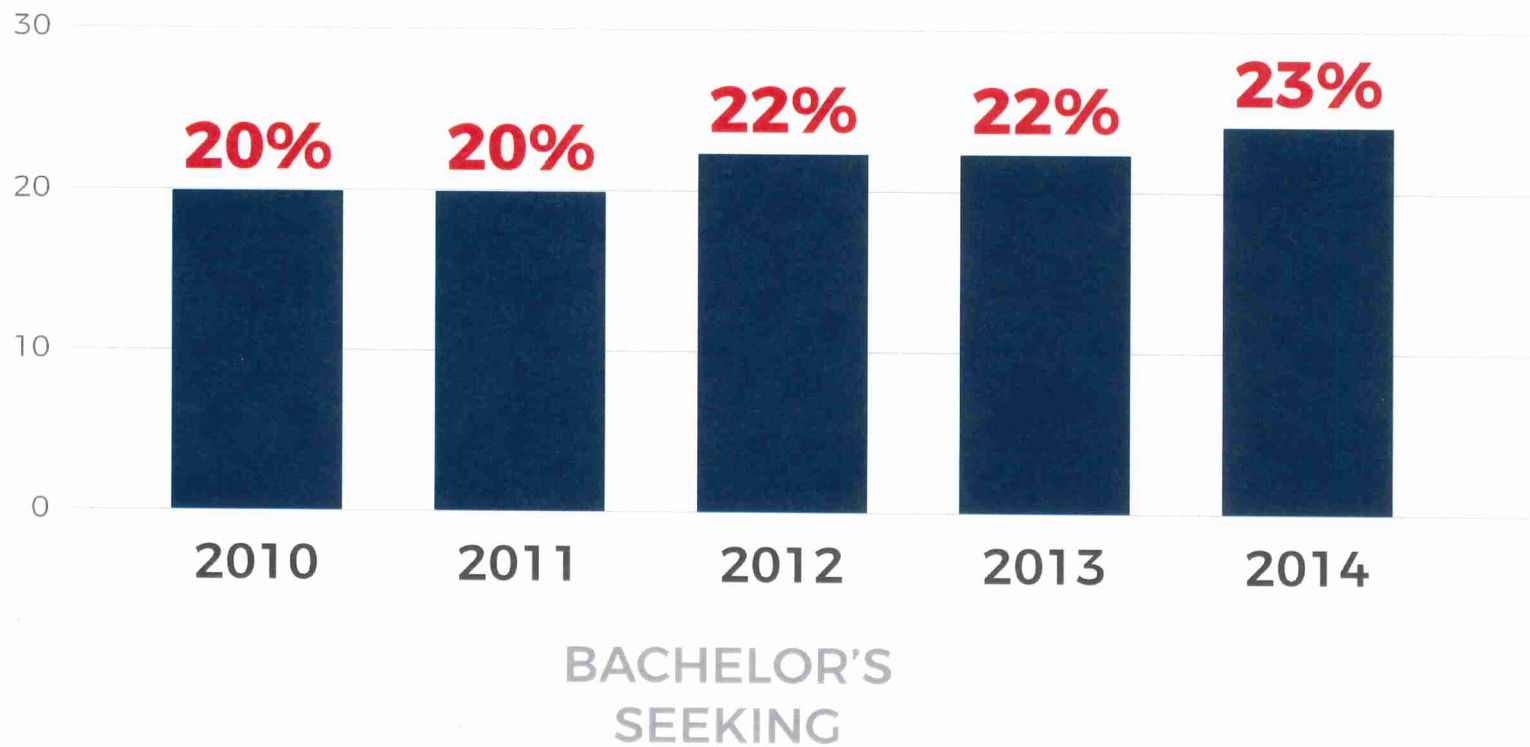


# SERVING UNDER-REPRESENTED POPULATIONS

- DSU's mission statement specifies we will be an open, inclusive institution
- Faculty workshops on inclusive pedagogy
- Creating plans to better support neurodiverse students
- DSU Education Center in Hildale
- AA and BA in American Sign Language



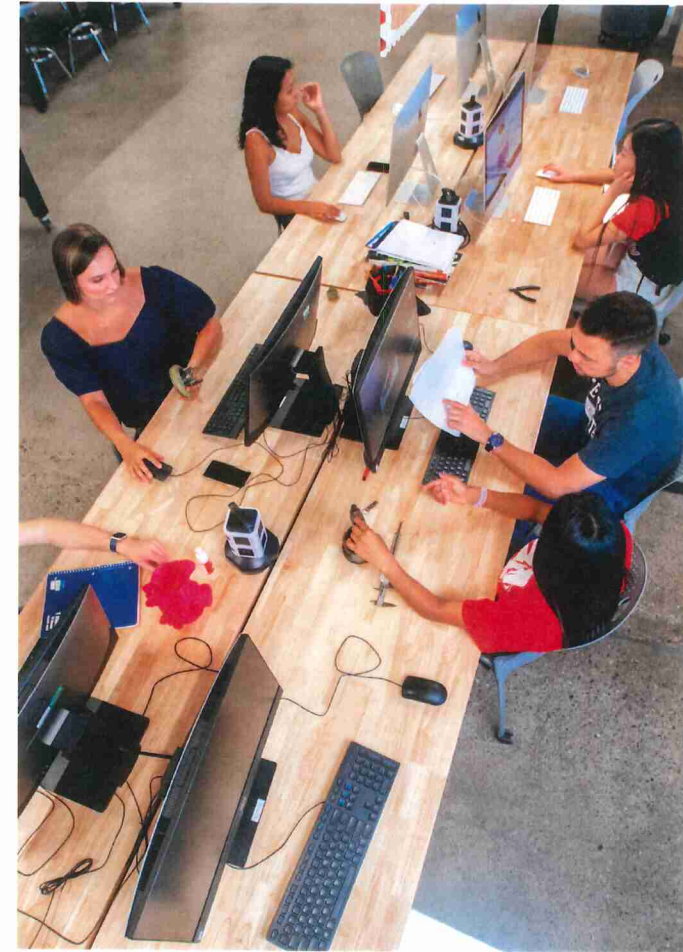
# STUDENT COMPLETION RATES





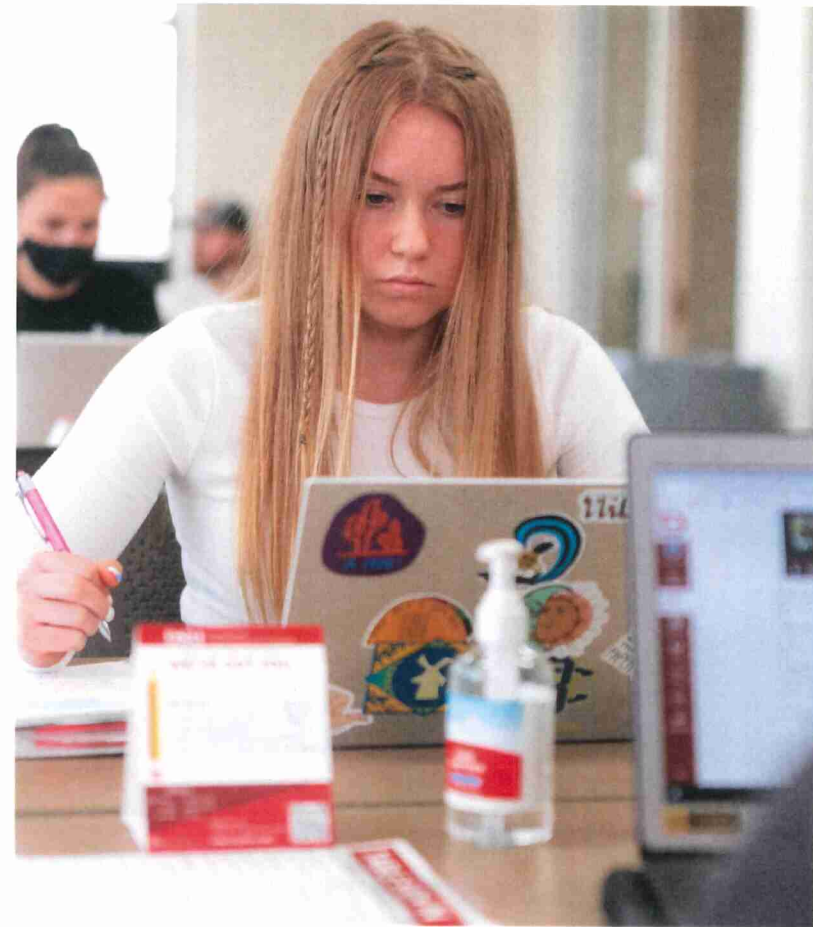
# COMPLETION INITIATIVES

- Creation of University College
  - Intrusive advising
  - Improved advisor to student ratio
  - Incoming freshmen arrive 3 days earlier
  - Increased Trailblazer Connection sections

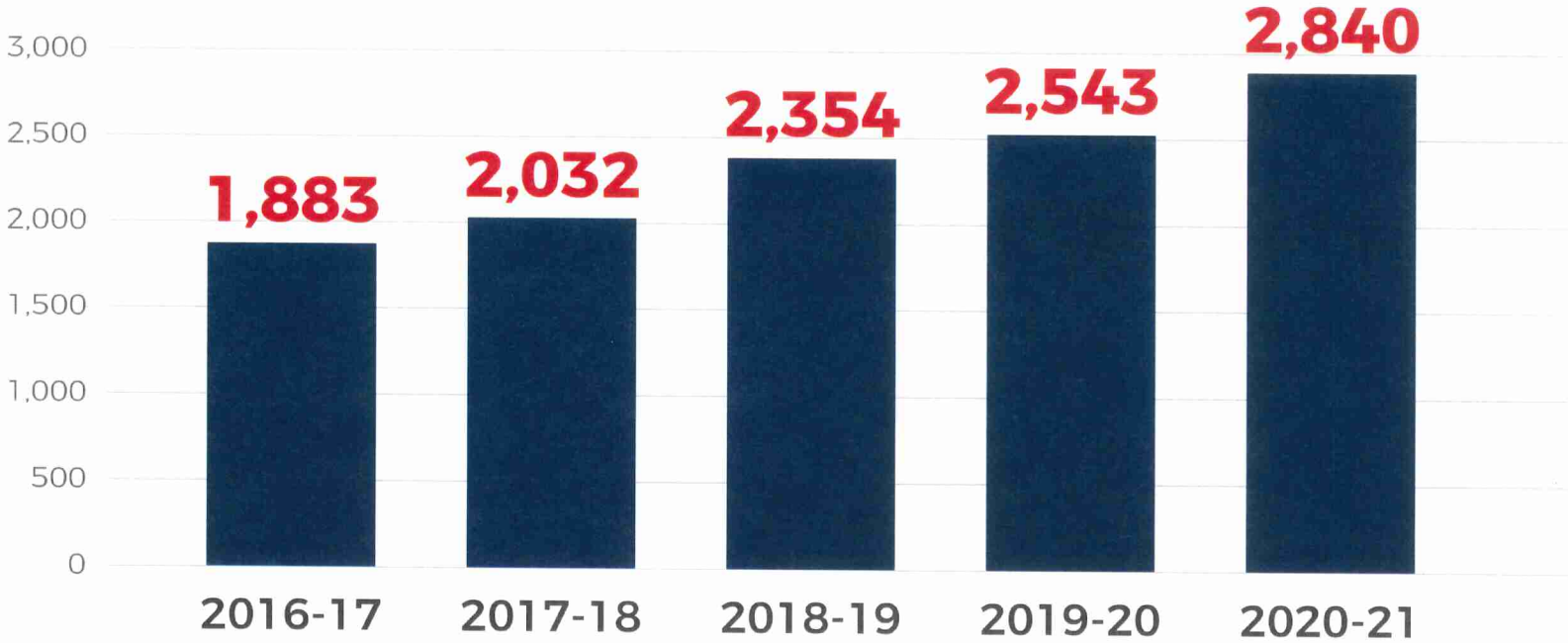


# COMPLETION INITIATIVES

- Completion Initiatives
  - Cohort-based completion
  - EAB/Navigate
  - Retention dashboards created
  - At-risk student focus
    - Decrease advisor workload for at-risk students

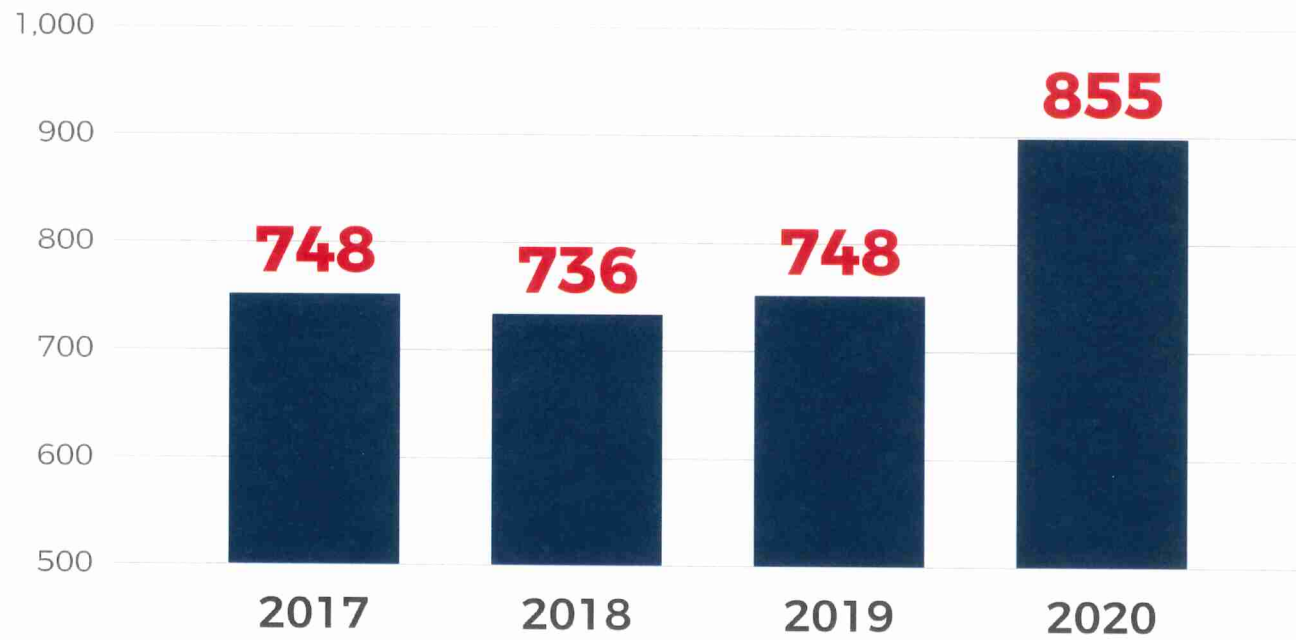


# DEGREES & CERTIFICATES AWARDED





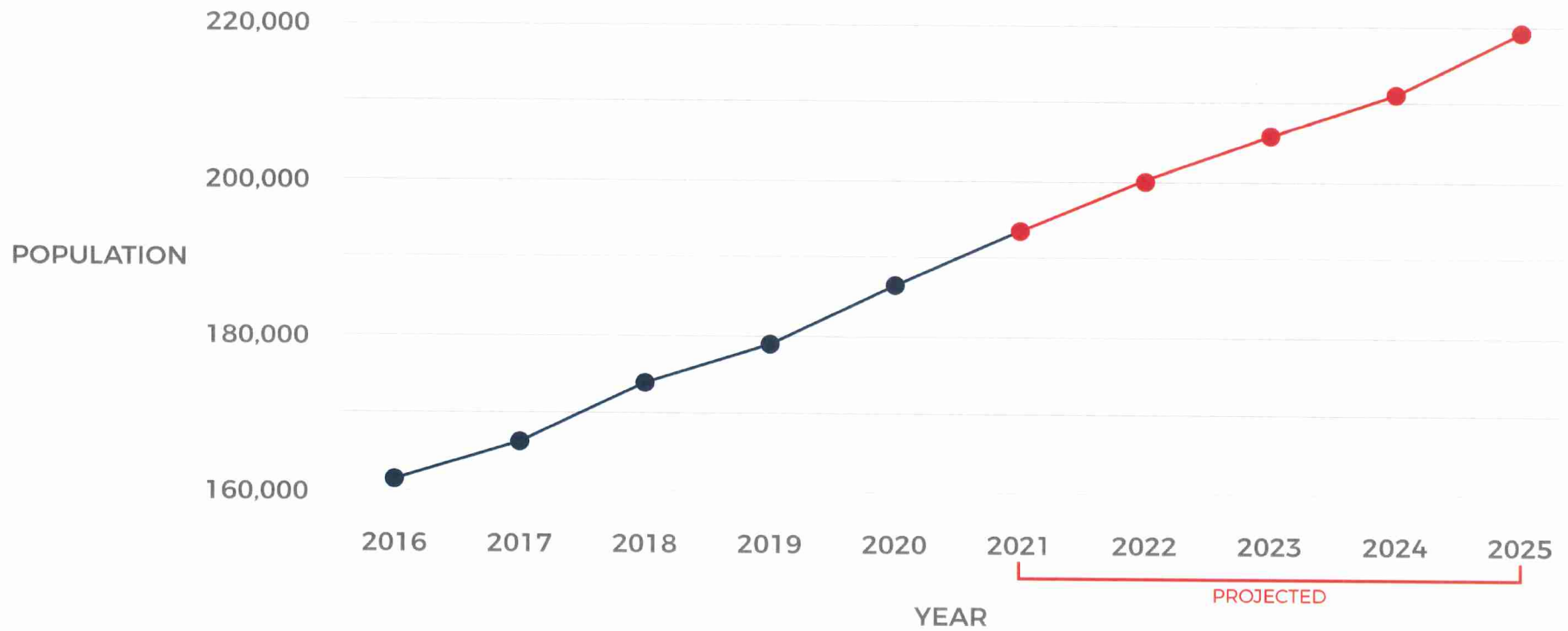
# DEGREES & CERTIFICATES IN HIGH YIELD FIELDS



An aerial photograph of a city, likely Las Vegas, showing a mix of residential and commercial areas, sports fields, and a highway. The number '2050' is superimposed in large, bold, red, textured characters across the center of the image. The background shows a valley with mountains in the distance under a clear sky.

2050

# REGIONAL TRENDS: POPULATION GROWTH





# REGIONAL TRENDS: POPULATION GROWTH

Table 1  
Utah Population by County  
2015-2065

County	2015	2025	2035	2045	2055	2065	Absolute Change 2015-2065	Percent Change 2015-2065	Rank
Beaver	6,710	7,408	8,017	8,606	9,068	9,649	2,939	44%	26
Box Elder	52,971	60,984	67,664	74,440	80,334	86,218	33,247	63%	11
Cache	121,855	146,338	171,969	195,325	212,908	234,744	112,890	93%	7
Carbon	21,164	24,343	26,870	29,069	31,240	33,144	11,980	57%	16
Daggett	1,113	1,232	1,387	1,502	1,603	1,723	610	55%	17
Davis	336,091	385,800	428,627	474,028	510,712	544,958	208,867	62%	12
Duchesne	20,821	24,277	26,596	29,178	31,205	33,153	12,332	59%	14
Emery	10,659	11,550	12,507	13,345	14,226	15,364	4,706	44%	25
Garfield	5,164	5,845	6,405	6,697	7,083	7,509	2,345	45%	24
Grand	9,757	11,182	12,203	13,266	14,139	14,794	5,037	52%	21
Iron	49,406	59,900	67,803	74,812	81,589	89,599	40,193	81%	8
Juab	11,071	15,789	19,925	23,307	26,498	30,069	18,998	172%	4
Kane	7,271	8,684	9,611	10,179	10,736	11,446	4,175	57%	15
Millard	13,104	14,403	15,619	16,605	17,435	18,617	5,514	42%	28
Morgan	11,080	15,613	19,349	21,357	22,678	24,605	13,525	122%	5
Piute	1,631	1,699	1,872	1,938	1,995	2,149	518	32%	29
Rich	2,353	2,535	2,773	2,992	3,158	3,380	1,027	44%	27
Salt Lake	1,094,650	1,249,961	1,361,099	1,470,574	1,594,804	1,693,513	598,863	55%	18
San Juan	15,902	17,932	19,330	20,562	21,775	23,316	7,413	47%	23
Sarpete	29,088	33,696	38,580	41,682	44,609	49,590	20,502	70%	10
Sevier	21,238	24,494	26,896	28,879	30,774	32,802	11,563	54%	20
Summit	39,278	46,404	54,706	60,644	65,624	70,750	31,472	80%	9
Tooele	63,262	83,922	102,338	115,463	125,291	134,272	71,010	112%	6
Uintah	37,396	42,077	45,978	50,609	54,523	57,766	20,370	54%	19
Utah	585,694	768,346	968,498	1,192,304	1,396,997	1,620,246	1,034,552	177%	3
Wasatch	28,613	42,027	54,218	64,526	73,042	82,018	53,406	187%	2
Washington	154,602	219,019	286,768	355,549	429,295	508,952	354,350	229%	1
Wayne	2,725	2,985	3,363	3,593	3,792	4,130	1,405	52%	22
Weber	242,737	286,593	317,344	344,025	368,635	389,334	146,597	60%	13
<b>State Total</b>	<b>2,997,404</b>	<b>3,615,036</b>	<b>4,178,317</b>	<b>4,745,057</b>	<b>5,285,767</b>	<b>5,827,810</b>	<b>2,830,406</b>	<b>94%</b>	

YEAR (POP)	COMPARABLE CITY
2035 (287 K)	PITTSBURGH
2045 (355 K)	CLEVELAND
2055 (429 K)	KANSAS CITY

PITTSBURGH	= 6 UNIVERSITIES
CLEVELAND	= 6 UNIVERSITIES
KANSAS CITY	= 4 UNIVERSITIES

Source: Kem C. Gardner Policy Institute 2015-2065 State and County Projections  
DemographyUTAH Population Committee 2010-2016 Population Estimates.

# REGIONAL TRENDS: THE FOURTH INDUSTRIAL REVOLUTION

Convergence of the physical, digital and biological worlds





# REGIONAL TRENDS: EMERGING TECHNOLOGIES



**#1 Artificial Intelligence**  
AI /Machine Learning / Deep Learning



**#2 Internet of Things**  
IOT, IIOT, Sensors & Wearables



**#3 Mobile/Social Internet**  
Advancements - Search/Social/ Messaging/Livestreams



**#4 Blockchain**  
Distributed Ledger Systems, Apps, Infrastructure, Technologies + Cryptocurrencies & DApps

0 1 0 1  
1 0 1 1  
0 1 1 0

**#5 Big Data**



**#6 Automation**  
Information, Task, Process, Machine, Decision & Action



**#7 Robots**  
Cons./Comm./Indus., Robots, Drones & Autonomous Vehicles



**#8 Immersive Media**  
- #VR/ #AR/ #MR/ 360°/ Video?Gaming



**#9 Mobile Technologies**  
Infrastructure, networks, standards, services & devices



**#10 Cloud Computing**  
SaaS, IaaS, PaaS & MESH Apps



**#11 3D Printing**  
Additive Manufacturing & Rapid Prototyping



**#12 CX**  
Customer Journey, Experience Commerce & Personalization



**#13 EnergyTech**  
Efficiency, Energy Storage & Decentralized Grid



**#14 Cybersecurity**  
Security, Intelligence Detection, Remediation & Adaptation



**#15 Voice Assistants**  
Interfaces, Chatbots & Natural Language Processing



**#16 Nanotechnology**  
Computing, Medicine, Machines + Smart Dust



**#17 Collaborative Tech.**  
Crowd, Sharing, Workplace & Open Source Platforms & Tools



**#18 Health Tech.**  
Advanced Genomics, Bionics & Health Care Tech.



**#19 Human-Computer Interaction**  
Facial/Gesture Recognition, Biometrics, Gaze Tracking



**#20 Geo-spatial Tech.**  
GIS, GPS, Mapping & Remote Sensing, Scanning, Navigation



**#21 Advanced Materials**  
Composites, Alloys, Polymers, Biomimicry, Nanomanufacturing



**#22 New Touch Interfaces**  
Touch Screens, Haptics, 3D Touch, Paper, Feedback & Exoskeletons



**#23 Wireless Power**



**#24 Clean Tech.**  
Bio-/Enviro-Materials + Solutions, Sustainability, Treatment & Efficiency



**#25 Quantum Computing**  
+ Exascale Computing



**#26 Smart Cities**  
+ Infrastructure & Transport



**#27 Edge/Computing**  
+ Fog Computing



**#28 Faster, Better Internet**  
Broadband incl. Fiber, 5G, Li-Fi, LPN and LoRa



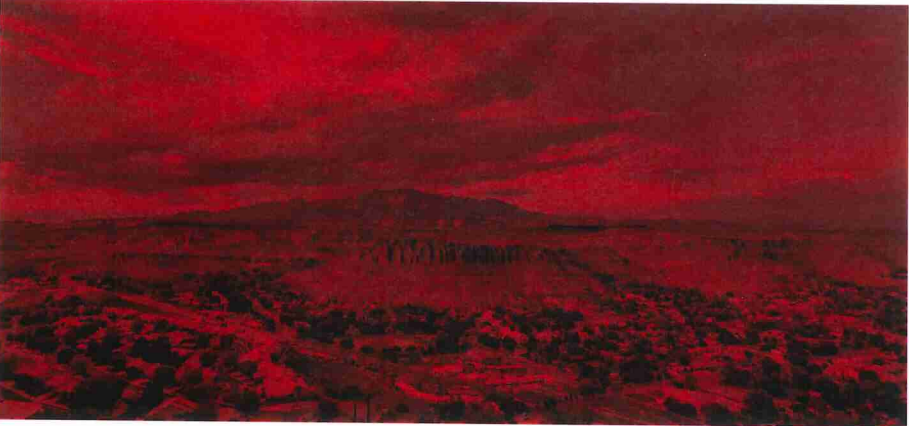
**#29 Proximity Tech**  
Beacons, RFID, Wi-Fi, Near-Field Communications & Geofencing



**#30 New Screens**  
TVs, Digital Signage, OOH, MicroLEDs & Projections



# REGIONAL TRENDS: TECH RIDGE



# MEETING REGIONAL WORKFORCE NEEDS

## ACADEMIC PROGRAMMING MODEL

Comprehensive

• Education  
Sciences

• Arts

• Business

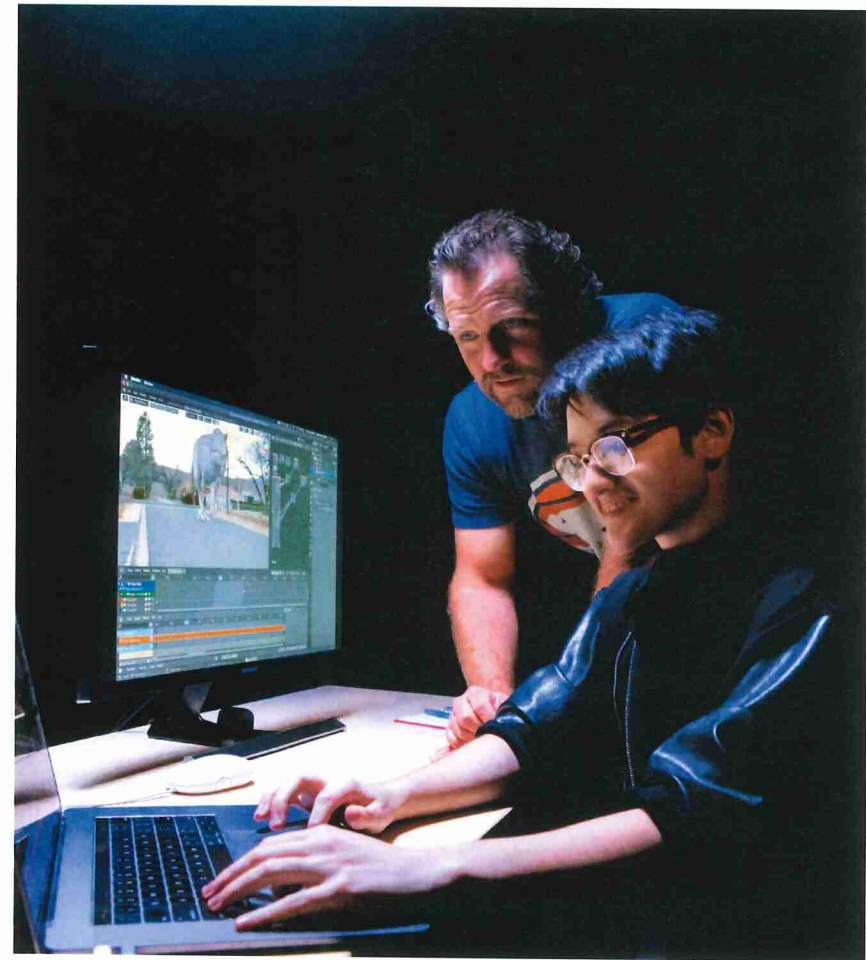
• Humanities  
& Social

**STEM**

(including Health Sciences)

Intensive

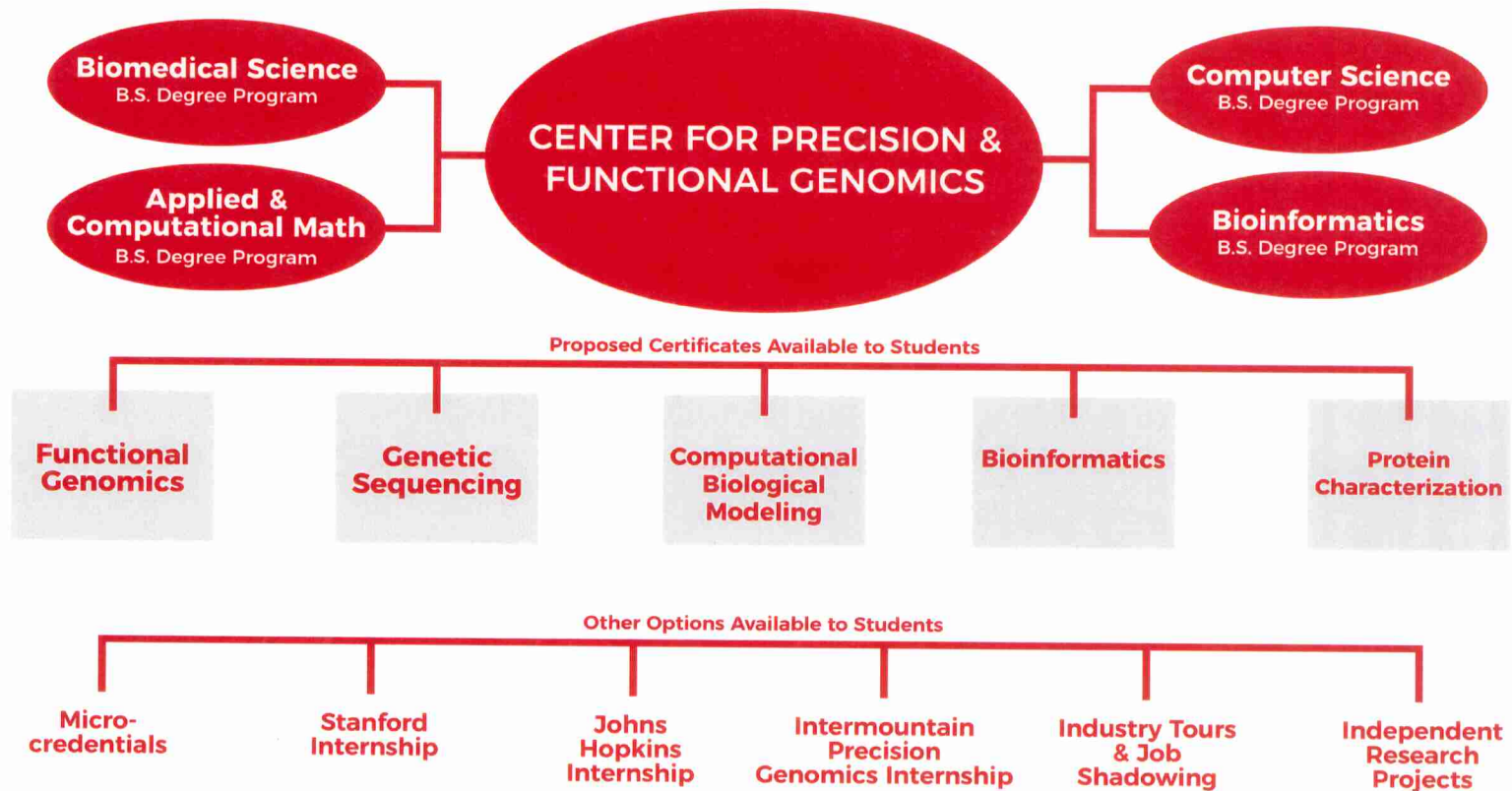
**111 NEW PROGRAMS SINCE 2015 (81% STEM FOCUSED)**





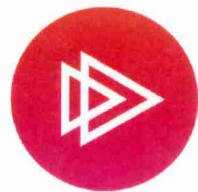
# DEEP/EMERGING TECH: DSU & INTERMOUNTAIN PRECISION GENOMICS

## COLLABORATIVE TEACHING & RESEARCH PROGRAM



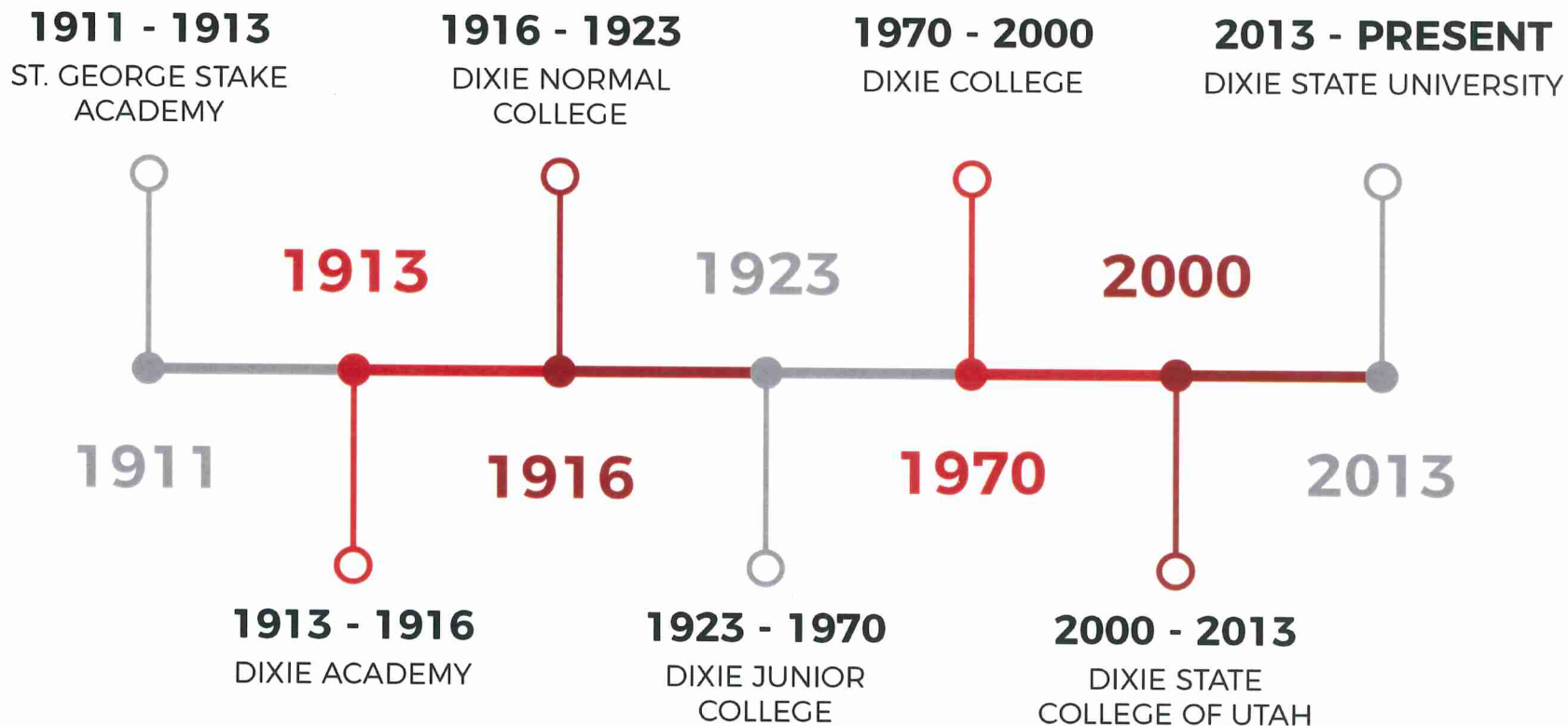
# PLURALSIGHT PARTNERSHIP

- Unlimited access to their “Skills” platform
- Institutional digital literacy campaign
- Pluralsight to assist faculty to maintain currency in tech skills
- Micro-credentials and certifications to all students
- Faculty may incorporate Pluralsight modules into their courses up to 25% of the content



**PLURALSIGHT**

# DSU'S COMMUNITY COLLEGE FOUNDATION





# DSU'S DUAL MISSION ROLE

## COMMUNITY COLLEGE



**52**  
CERTIFICATES



**18**  
ASSOCIATES

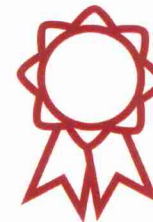
**22%**

OF ALL DEGREES AWARDED  
IN VOCATIONAL FIELDS

## UNIVERSITY



**53**  
BACHELORS



**4**  
MASTERS

# FOUR YEAR, FOUR AWARD MODEL

INDUSTRY  
CERTIFICATE

Certificate in  
Design

ASSOCIATE  
DEGREE

**60**  
CREDITS

AAS in General  
Technology

ADVANCED  
INDUSTRY  
CERTIFICATE

Certificate in  
Advanced  
Design

BACHELOR'S  
DEGREE

**120**  
CREDITS

BS in Design

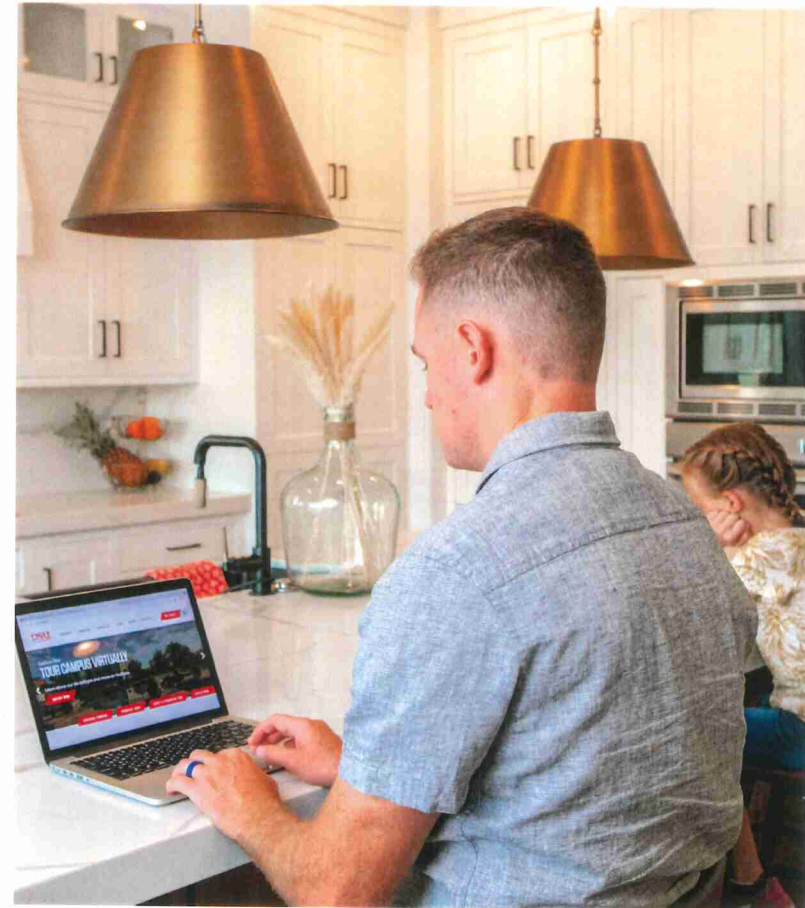
# EXPANDING DSU ONLINE

**100**  
FACULTY  
PARTIPANTS

**9** NEW ONLINE  
DEGREE  
PROGRAMS

**150**  
EXISTING COURSES  
TRANSFORMED TO  
ONLINE FORMAT

**4** ONLINE DEGREE  
PROGAMS IN  
PROGRESS





# DIXIE TECHNICAL COLLEGE PARTNERSHIP

- AAS Pathways
  - AAS in General Technology – Business Emphasis
  - AAS in General Technology – IT Emphasis
  - AAS in General Technology – Digital Design
  - AAS in Biotechnology (in progress)



# DIXIE TECHNICAL COLLEGE PARTNERSHIP

- Articulations

- Digital Media Design
- Drafting & Design
- Information Technology
- Medical Assisting
- Culinary Arts
- Automotive Technician
- Collision Repair
- Diesel Technician
- Industrial Automation Technician
- CNC Machining
- Operations Management
- Welding
- Pharmacy Technician
- Information Technology
- Digital Media Design
- Drafting & Design

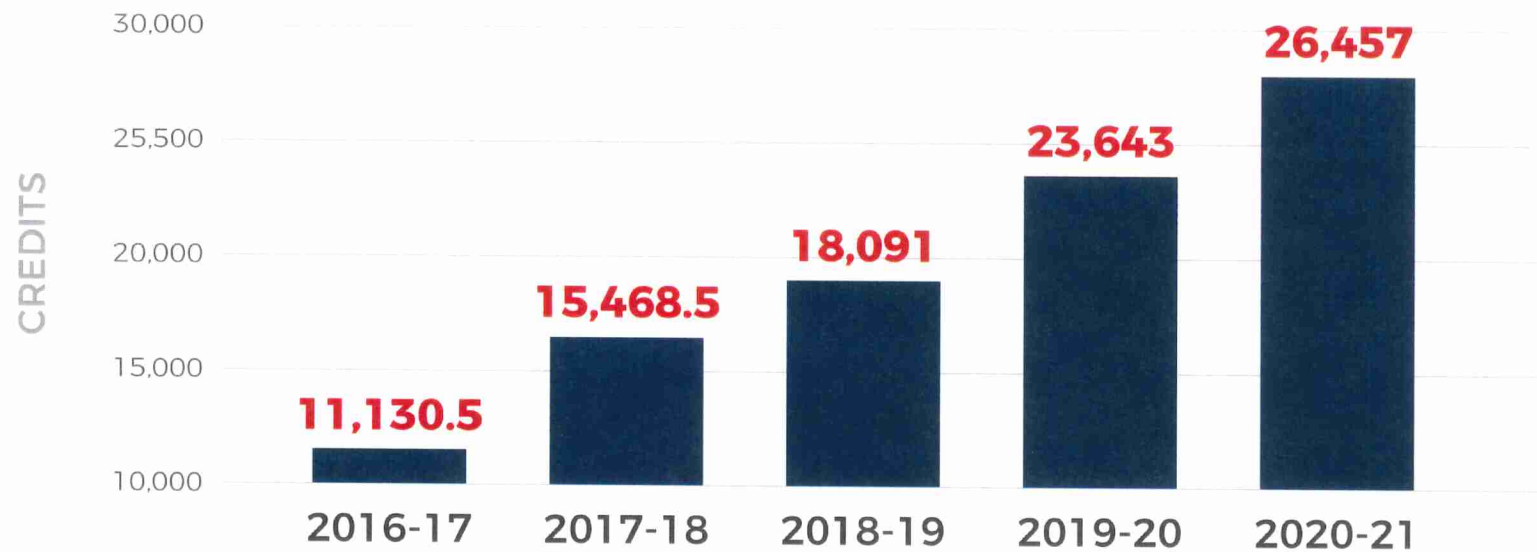
# EXPANDING ACADEMIC PATHWAYS



- 2+2 Articulations
  - Salt Lake Community College (17 degrees)
  - Snow College (1 degree)
  - College of Southern Nevada (13 degrees)



# CONCURRENT ENROLLMENT GROWTH



- Concurrent enrollment participation is up 138% since 2016-2017 academic year
- Increased concurrent enrollment courses taught in high schools

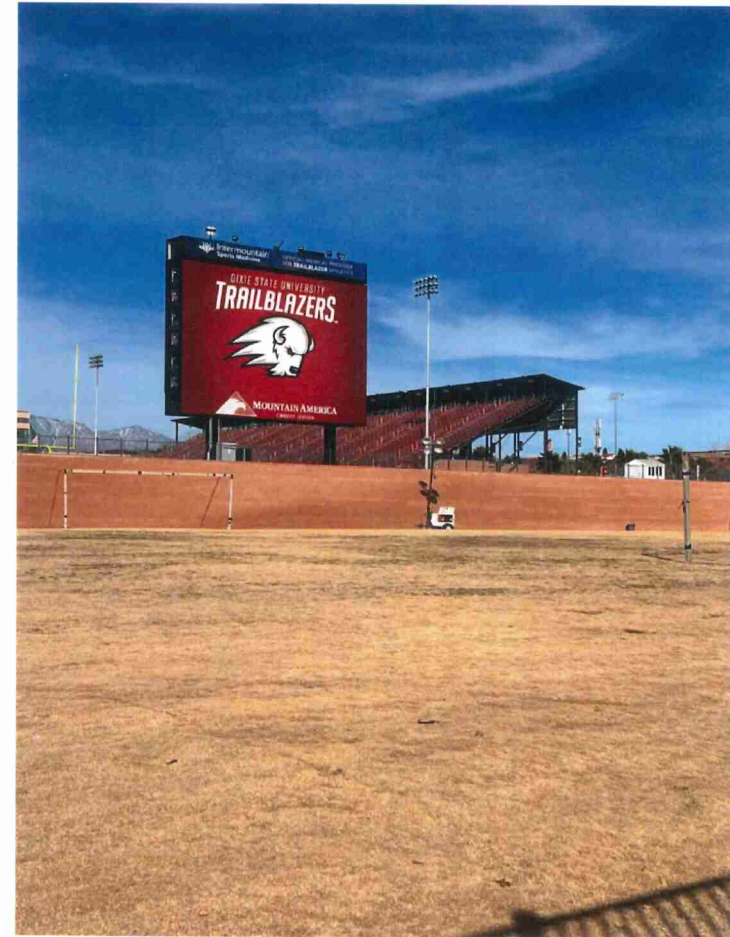
# INTRA-INSTITUTION TRANSFER IMPACTS

- Transfer out rate roughly 28% over past five years
- As DSU builds more robust program offerings, transfer out rates should decrease
- Successful intra-institution transfers count towards timely completion metric in Performance Funding



# WATER CONSERVATION

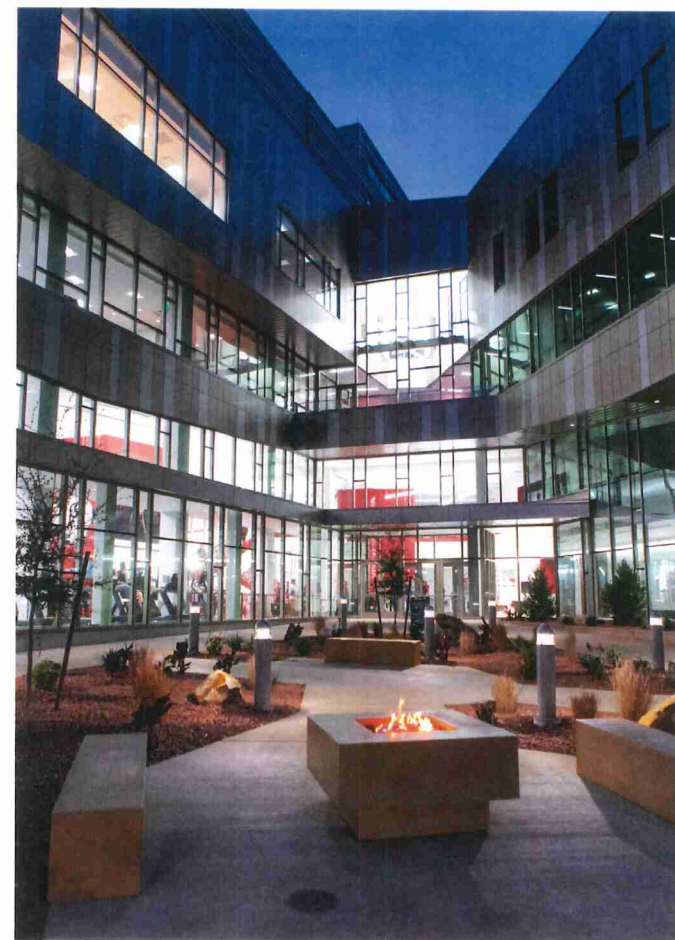
- Responsive to Gov. Cox's Executive Order on water conservation
- Reduced watering schedule to three days per week
- Water only during the hours of 6:00 pm - 10:00 am
- Landscape irrigation water comes from secondary irrigation system
- Planting drought-tolerant grass blends and plants around all new building sites





# RESPONDING TO COVID-19

- Finding efficiencies
  - Searches for vacant positions were canceled or frozen
  - Salary increases were kept to a minimum
  - Institutionally funded construction projects delayed
  - Travel and non-COVID operating expenses minimized



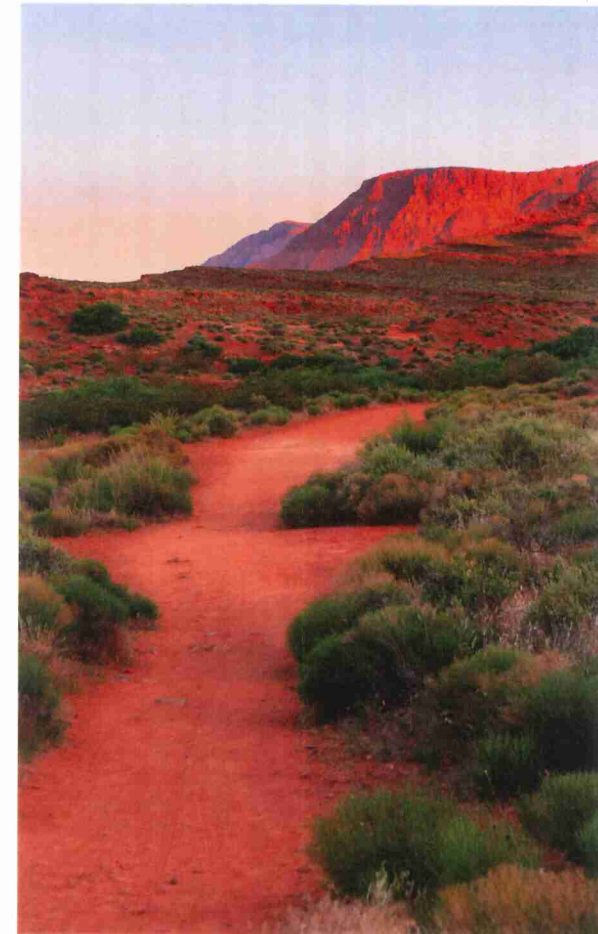
# RESPONDING TO COVID-19

- Finding efficiencies
  - Auxiliary operations personnel reduced
  - Many auxiliary services pivoted to online operations
  - Enrollment growth partially offset loss of state funding
  - Federal relief mitigated revenue losses



# RESPONDING TO COVID-19

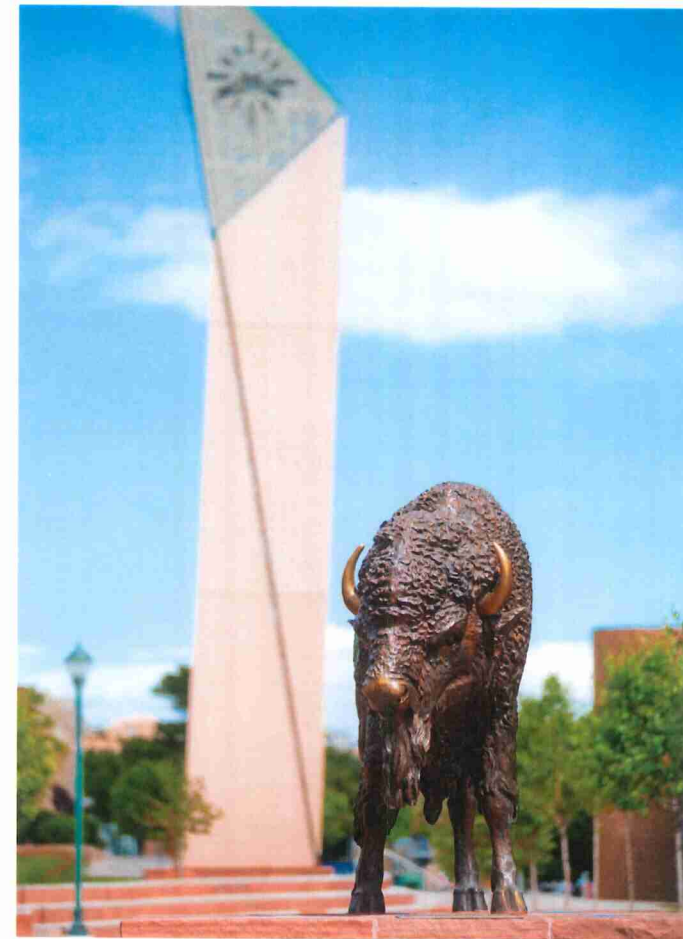
- Facility Use
  - Remote instruction infrastructure dramatically improved
  - Classroom utilization remains high while seat occupancy rates declined due to social distancing
  - Students prefer in-person learning
  - Currently DSU faces significant capacity constraints in housing, parking, and other services





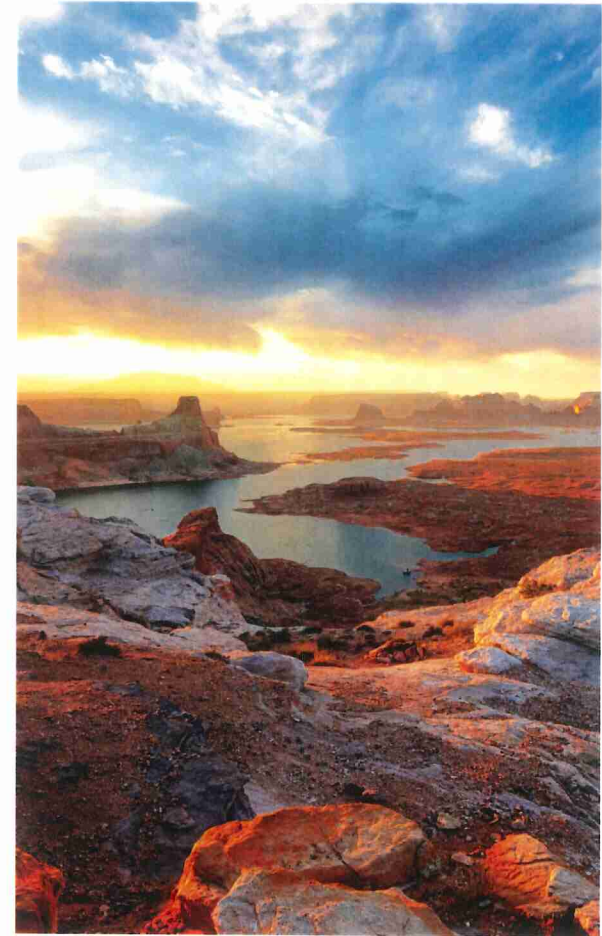
# RESPONDING TO COVID-19

- Faculty Support & Needs
  - Provided training and resources for remote learning
  - New office and laboratory computers
  - Faculty time and focus increasingly directed at supporting student success
  - Impact on morale



# RESPONDING TO COVID-19

- Course development & delivery
  - Classrooms continue to be equipped with state-of-the-art remote capability, especially for non-traditional students
  - DSU Cares Initiative — 8 programs implemented based on industry demand
  - Pluralsight Partnership — Provides technology skills training to all learners
  - Upgraded instructional laboratories



# HIRING CHALLENGES

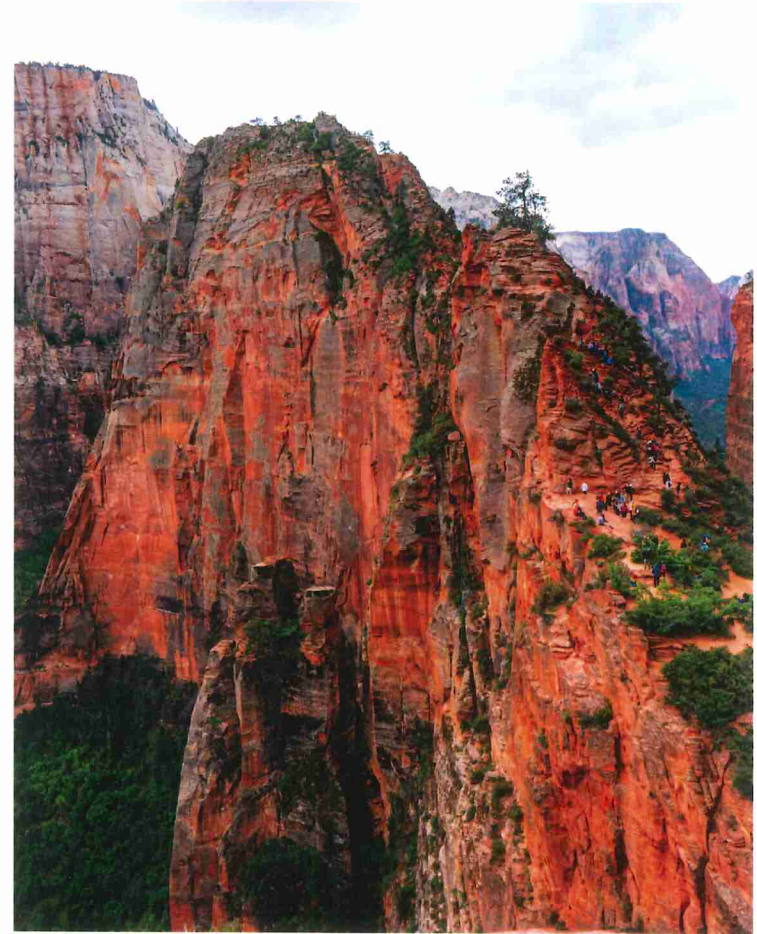
- Hiring challenges
  - Shrinking applicant pools
  - Applicants seeking higher salaries
  - Applicants seeking much greater flexibility
  - Rising cost of living





# RESOURCE REQUEST

- Faculty & Staff Compensation
- Performance Funding \$1,881,000
- Growth Funding \$936,000
- Rebranding \$3,242,914



**THANK YOU**

**DSU**<sup>TM</sup>