UTAH SYSTEM OF HIGHER EDUCATION

Increasing Impact of Technology in Higher Education
Fall 2019

Of the 187,561 students enrolled at public colleges and universities in Utah, as of the third week of fall semester 2019, 81,431 (43.4%) participated in some form of technology-delivered instruction. Of that total, 60,009 (32.0%) enrolled in at least one online class within the Utah System of Higher Education. Over the past ten years, the proportion of credits taught online has grown from 9.9% to 16.3%. Despite availability of online courses and degrees, data shows students prefer using online courses to augment, rather than replace, a traditional campus schedule:

- 83.1% of all students who enrolled for courses in fall 2019 took at least half of their courses on campus;
- 4.1% of full-time students enrolled solely in online courses; and
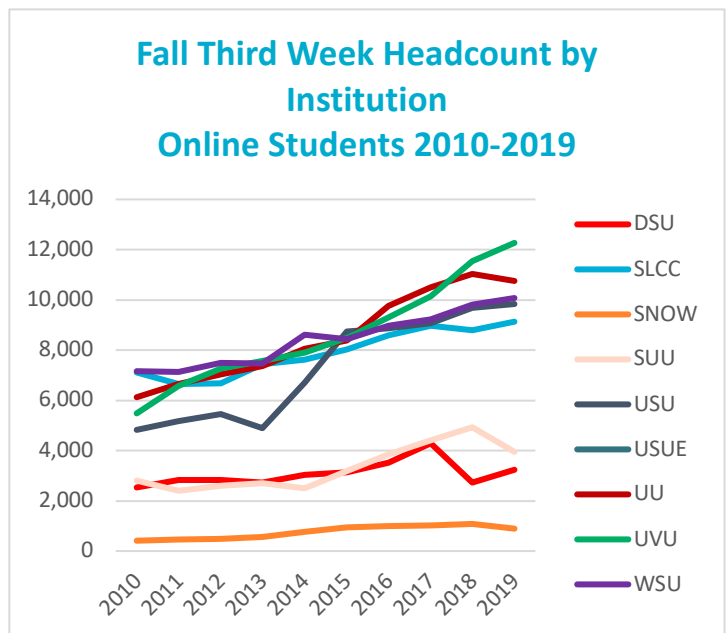- Fully online students were most likely to be: enrolled part-time (74.3%) and 25 years or older (58.6%).

Technology-delivered Instruction and Learning across USHE Institutions

2,261 Online courses

- From fall 2017 to fall 2018, USHE institutions added 189 fully online courses, eight interactive audio/video courses, and lost 23 hybrid courses.
- Online enrollments rose by 540 students (0.9%) from fall 2018 to fall 2019.
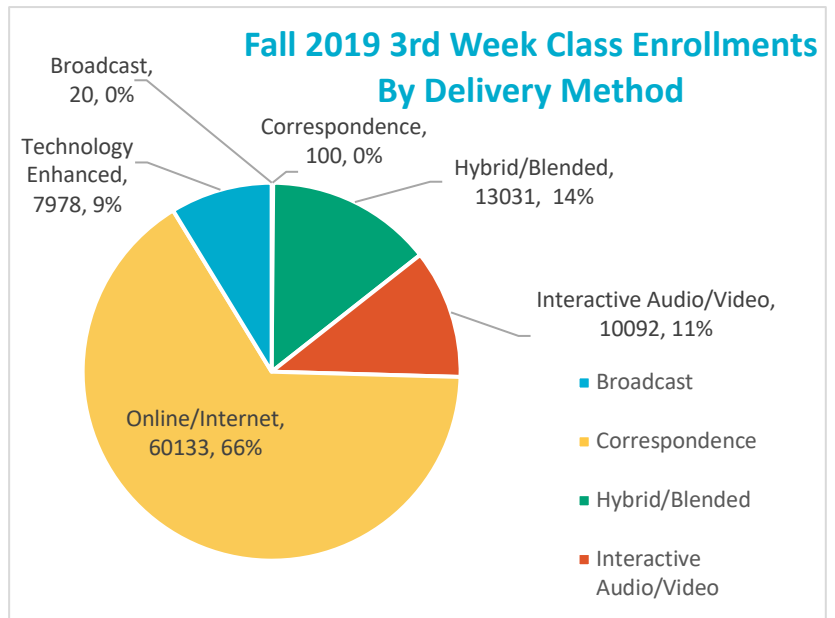- 15,945 (8.5%) students enrolled solely in online classes in fall 2019.

165 Online programs

- USHE students can earn entire awards online (see list, pg. 5):
    - 8 Associate of Applied Science
    - 25 Associate
    - 42 Bachelor's
    - 48 Master's
    - 1 Doctorate
    - 38 Certificates
    - 3 Licensure/Endorsement

Fall Third Week Headcount by Institution Online Students 2010-2019

53 Interactive Video Conferencing (IVC) programs

- USHE students can earn entire awards over video conferencing (see list, pg.8):
  - 3 Associate of Applied Science
  - 2 Associate
  - 20 Bachelor's
  - 12 Master's
  - 1 Doctorate
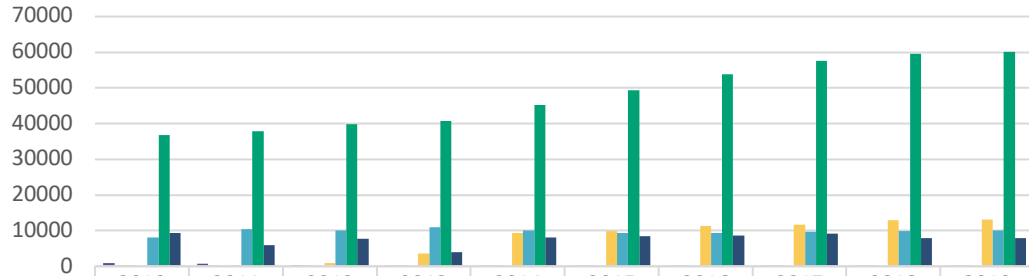 - 7 Certificate
  - 8 Licensure/Endorsement

Fall 2019 3rd Week Class Enrollments By Delivery Method

Broadcast, 20, 0%
Correspondence, 100, 0%
Technology Enhanced, 7978, 9%
Hybrid/Blended, 13031, 14%
Interactive Audio/Video, 10092, 11%
Online/Internet, 60133, 66%

Legend:
- Broadcast
- Correspondence
- Hybrid/Blended
- Interactive Audio/Video

School	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
DSU	2,531	2,834	2,835	2,722	3,025	3,130	3,507	4,289	2,730	3,234
SLCC	7,110	6,650	6,689	7,453	7,627	8,016	8,595	8,963	8,793	9,132
SNOW	411	448	496	552	767	939	1,003	1,011	1,079	889
SUU	2,801	2,400	2,606	2,698	2,493	3,175	3,854	4,412	4,928	3,951
USU	4,824	5,180	5,445	4,897	6,700	8,744	8,856	9,061	9,677	9,836
USUE	267	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UU	6,124	6,648	7,038	7,363	8,065	8,377	9,764	10,496	11,032	10,747
UVU	5,480	6,572	7,263	7,556	7,893	8,492	9,708	10,144	11,543	12,270
WSU	7,158	7,131	7,484	7,470	8,608	8,433	8,982	9,232	9,811	10,074
Total	**36,706**	**37,863**	**39,856**	**40,711**	**45,178**	**49,306**	**54,269**	**57,608**	**59,593**	**60,133**

Table 1: Online Headcount by Institution/Fall Third Week 2010-2019

Other Technology-delivered Modalities

USHE students have multiple delivery modalities to choose from. Interactive Video Conferencing (IVC) and Online are important delivery methods for rural students. Also, hybrid classes, courses that are a mix of face-to-face and technology-delivered curriculum, show dramatic growth. NOTE: USHE began tracking hybrid courses in 2011.
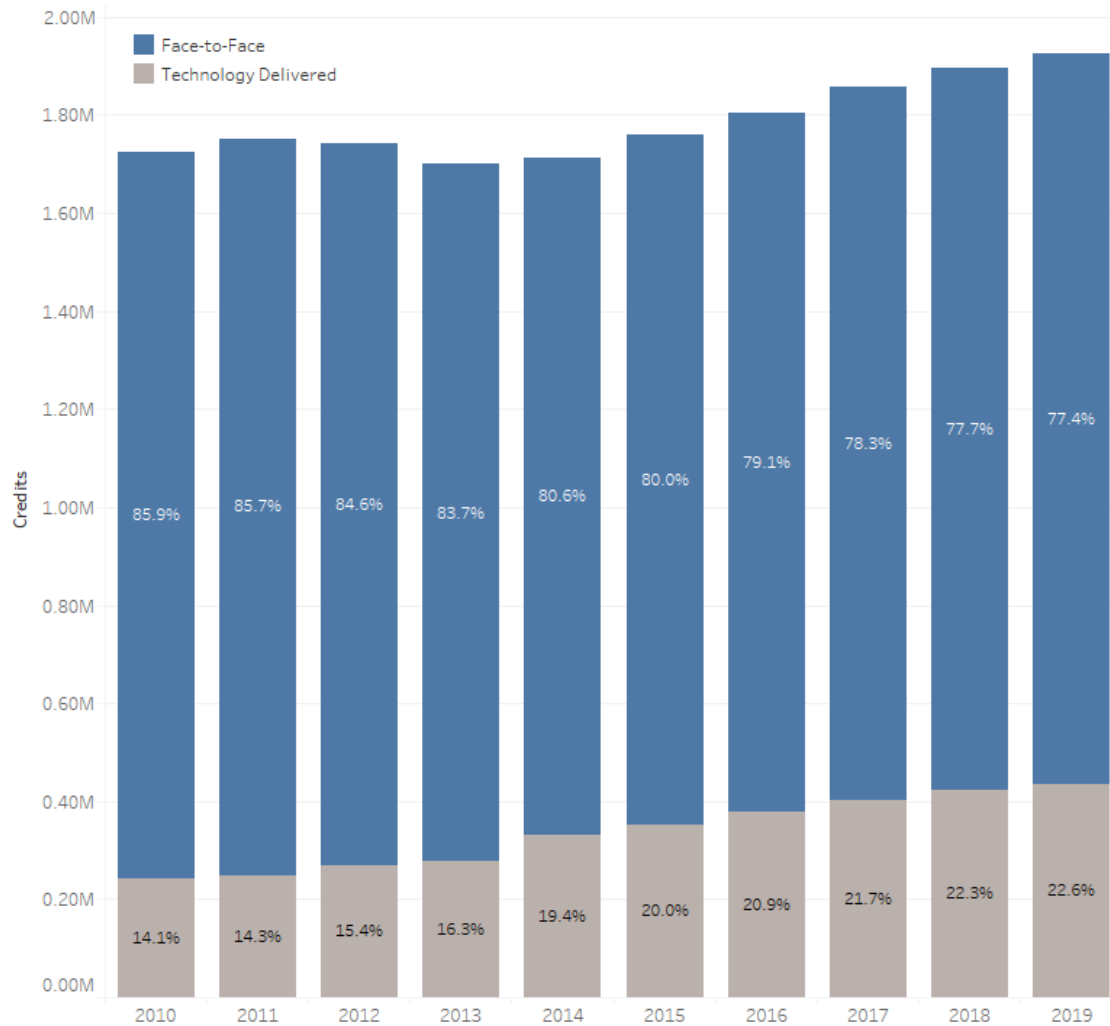
Distance Education and Technology Delivery
Fall Third Week Headcount 2010-2019

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
■ Broadcast	816	724	276	169	107	55	5	101	5	20
■ Correspondence	174	159	233	144	144	164	82	80	82	100
■ Electronic Media	117									
■ Hybrid/Blended		424	972	3679	9263	9836	11335	11734	12961	13031
■ Interactive Audio/Video	8045	10475	10118	10930	9961	9300	9401	9687	9925	10092
■ Online/Internet	36706	37863	39856	40711	45178	49306	53871	57608	59593	60133
■ Technology Enhanced	9296	5972	7692	3962	8009	8470	8675	9213	7871	7978

Over the past ten years, the number of credits has grown for both technology-delivered and on-campus courses. Since fall 2010, the proportion of credits taught through some form of technology has grown from 14.1% to 22.6% while the face-to-face share has fallen from 85.9% to 77.4%.

Credits Taught by Delivery Method
Fall Third Week 2010-2019

Availability of Tech Courses by Academic Level

USHE students have opportunities to take technology-delivered courses as both undergraduates and graduate students:

Snapshot of Technology Delivered Courses by Academic Level/Fall 3rd Week							
Level	Hybrid/ Blended	Correspon dence	Technology -Enhanced	Online	Interactive Audio/ Video	Broadcast	TOTAL
Graduate	112	8	45	520	145	1	**831**
Upper	208	27	20	742	70	0	**1067**
Lower	145	13	124	943	230	0	**1455**
Remedial	8	0	5	56	4	0	**73**
TOTAL	**473**	**48**	**194**	**2261**	**449**	**1**	**3426**

Technology-delivered Student Services

In addition to instruction, technology enhances numerous services:

- Students apply, register, pay tuition, purchase textbooks, and seek advising online
- Students receive academic progress notification and tracking online through CANVAS analytics as well as new Student Relation Management systems
- Students, faculty, and staff receive emergency messaging
- Online course evaluations incorporate course objectives and measurable outcomes
- Courses encourage public-private partnerships to develop higher education technology solutions

Snapshot of Technology Based Services by Institution/Fall 2019								
	STUDENT SERVICES			PROGRAMS		COURSES (Fall 3rd Week)		
	Apply Online	Register Online	Pay Tuition Online	Online AS in Gen Studies	Online Certificates/ Degrees	Online	Hybrid/ Blended	IVC
U of U	√	√	√		24	357	0	49
USU	√	√	√	√*	32	450	47	302
WSU	√	√	√	√	23	382	156	12
SUU	√	√	√	√	22	275	78	0
Snow	√	√	√	√	1	59	0	44
DSU	√	√	√		1	120	49	0
UVU	√	√	√	√*	16	323	143	40
SLCC	√	√	√	√	16	295	0	2
TOTAL					135	2261	473	449

offer all GenEd courses required for a 4-year degree through a combination of IVC and online

ATTACHMENT A: USHE Online Programs Available September 2019

UU	Cert	Applied Positive Psychology
	Cert	Gerontology (undergrad)
	Cert	Gerontology (grad)
	Cert	Nursing Care Management (grad)
	Cert	Nursing Education (grad)—**NEW 2019**
	Cert	Public Policy (grad)—**NEW 2019**
	Cert	Teaching English to Speakers of Other Languages
	BS	Economics
	BS	Nursing RN to BS
	BS	Sustainable Tourism and Hospitality Management
	BS	Psychology
	BS	Family, Community and Human Development
	BS	Family, Community and Human Development: Financial Planning Emphasis—**NEW 2019**
	BS	Sociology
	BS	Social Work
	MBA	Master of Business Administration
	MS	Biomedical Informatics—**NEW 2019**
	MS	Electrical Engineering
	MS	Gerontology
	MS	Information Systems
	MS	Nursing Care Management
	MS	Nursing Education—**NEW 2019**
	MS	Nutrition & Integrative Physiology
	MA	Fine Arts Teaching
	OTD	Occupational Therapy
USU	AS	Agricultural Science
	AS	Criminal Justice—**NEW 2019**
	AS	General Technology
	AS	General Studies—**NEW 2019**
	BS	Agribusiness
	BS	Communicative Disorders & Deaf Education
	BS	Communicative Disorders (2nd Bachelors)
	BS	Economics
	BS	Family Life Studies
	BS	Human Experience Design & Instruction—**NEW 2019**
	BA	Liberal Arts
	BS	Psychology
	MS	Agricultural Extension and Education—**NEW 2019**
	MS	Aviation Safety
	MBA	Business Administration
	MEd	Career and Technical Education—**NEW 2019**
	MDA	Dietetics Administration
	MEd	Educational Technology and Learning Sciences
	MS	Family and Consumer Sciences Education and Extension—**NEW 2019**
	MS	Food Safety & Quality—**NEW 2019**
	MPH	Health Education & Promotion—**NEW 2019**
	MS	Instructional Technology & Learning Sciences
	MMIS	Management Information Systems
	MNR	Natural Resources
	MEd	Physical & Sport Education—**NEW 2019**
	MPSH	Professional Studies in Horticulture
	MPH	Public Health & Nutrition—**NEW 2019**
	MTC	Technical Communication
	MS	Technology & Engineering Education—**NEW 2019**
	MS	Veterinary Public Health—**NEW 2019**
	Cert	Administrative Supervisory Concentration

	Cert	Blindness
	Cert	Deafblindness Preservice Training
	Cert	Dietetics Internship (grad)—NEW 2019
	Cert	Engineering Education (grad)
	Cert	Geographic Information Systems—NEW 2019
	Cert	Interfaith Leadership—NEW 2019
	Cert	National Environmental Protection Act (NEPA)
	Cert	Rehabilitation Counseling (grad)—NEW 2019
	Cert	Women & Gender Studies
	Endorsement	Administrative Supervisory Licensure
	Endorsement	Chemistry Secondary Science
	Endorsement	Deaf Education - Listening and Spoken Language (grad)
WSU	AS	General Studies
	AAS	Computer Science—NEW 2019
	AAS	Early Childhood—NEW 2019
	BS	Emergency Healthcare Services
	BS	Health Information Management
	BS	Health Promotion & Human Performance
	BS	Health Services Administration
	BS	Medical Laboratory Sciences
	BS	Professional Sales
	BS	Radiological Sciences
	BS	Respiratory Therapy
	BIS	Computer Science, Health Administration Services, Health Promotion, Health Sciences, Sales and Service Technology, Lifespan Nutrition
	MS	Criminal Justice
	MSN	Nursing Educator
	MSN	Nursing Executive
	MHA	Executive Master of Healthcare Administration
	MSRS	Master of Science in Radiologic Sciences (Executive format)
	MSRT	Master of Science in Respiratory Therapy (Executive format)
	Cert	Health Care Coding & Classification
	Cert	Health Information Management Institutional Certificate
SUU	Cert	General Education—NEW fall 2019
	Cert	Mobile Teaching, Learning & Design
	Cert	Special Education
	Cert	Technological Innovations in Teaching & Learning
	AA/AS	General Studies
	AA/AS	Legal Studies
	BA/BS	Accounting
	BA/BS	Communication
	BA/BS	Elementary Education—NEW fall 2019
	BA/BS	Family Life and Human Development—NEW fall 2019
	BA/BS	General Studies
	BA/BS	Management
	RN to BSN	Nursing
	MAcc	Accountancy
	MA	Arts Administration
	MBA	Business Administration
	MS	Cyber Security & Information Assurance
	MEd	Education
	MIS	Interdisciplinary Studies—NEW fall 2019
	MM	Music Education
	MM	Music Technology
	MA	Professional Communication
	MPA	Public Administration
	MSW	Social Work
	MS	Sports Conditioning & Performance

	MIS	Interdisciplinary Studies
SNOW	AS	"a non-major transfer associate degree that will qualify for pursuit of a four-year degree at UVU or at another college or university"
DSU	AS	Early Childhood Education—**NEW fall 2019**
	BS	Nursing RN-BSN
	BAS	Healthcare Administration—**NEW fall 2019**
UVU	Cert	Accounting
	Cert	Advanced Manufacturing—**NEW 2019**
	Cert	Advanced Substance Use Disorder Counseling
	Cert	Substance Use Disorder Counseling
	Cert	General Education—**NEW 2019**
	AS	Business—**NEW 2019**
	AAS	Business Management—**NEW 2019**
	AS	Pre-Major in Business—**NEW 2019**
	AAS	Aviation Science
	AS	Aviation Science
	AS	Emergency Services
	AAS	Fire Officer Emphasis—**NEW 2019**
	AAS	Firefighter/Emergency Care Emphasis—**NEW 2019**
	AS	Criminal Justice
	AAS	Technology Management—**NEW 2019**
	AS	University Studies
	BS	Aerospace Technology Management—**NEW 2019**
	BS	Aviation Management
	BS	Professional Pilot
	BS	Business Management—**NEW 2019**
	AAS to BS	Dental Hygiene
	BS	Emergency Services Administration
	BS	Hospitality Management
	BS	Criminal Justice
	BA/BS	Family Science
	RN to BSN	Nursing
	BS	Technology Management
	MSN	Nursing
	MPS	Public Service
SLCC	AS	Communication Studies (renamed from Speech Comm, same degree)
	AS	Business
	AS	Criminal Justice
	AS	Education
	AS	General Studies
	AS	Sociology
	AS	Political Science—**NEW 2019**
	AAS	Criminal Justice
	CERT	Accounting—**NEW 2019**
	CERT	Business Management—**NEW 2019**
	CERT	Retail Management—**NEW 2019**
	CERT	General Education—**NEW 2019**
	CERT	CSIS Information Assurance & Cyber Defense
	CERT	CSIS Network Routing & Switching
	CERT	CSIS Network & System Administration
	CERT	CSIS Windows System Administration
	CERT	CSIS Linux System Administration
	CERT	CSIS Network & System Administration
		Source: USHE Distance Education Directors

ATTACHMENT B: USHE IVC Programs Available September 2019

SUU	MEd	Education
USU	AAS	IT Support and Web Development
	AAS	Nursing
	AAS	Ornamental Horticulture
	AS	General Studies
	AS	General Studies - Criminal Justice
	BS	Accounting
	BS/BA	Biological Science (Composite Teaching)
	BS/BA	Biology
	BS	Business Education
	BS/BA	Early Childhood Education (K-3)
	BS/BA	Elementary Education
	BS	English – Teaching
	BS	Environmental Studies
	BS	Health Education & Promotion
	BS	History – Teaching
	BS	Horticulture
	BS	Human Development & Family Studies—**NEW 2019**
	BS	Management—**NEW 2019**
	BS	Management Information Systems
	BS	Mathematics Education
	BS	Recreation Resource Management
	BS	Residential Landscape Design and Construction
	BS	Social Work
	BS/BA	Special Education—**NEW 2019**
	BS	Wildlife Ecology and Management
	EdS	Curriculum & Instruction (post-masters)
	Med	Curriculum & Instruction
	Med	Instructional Leadership
	Med	Psychology - School Counseling
	ME	Engineering
	MS	Applied Environmental Geoscience
	MS	Computer Science
	MS	Curriculum & Instruction
	MS	Human Resources (Executive Program)
	MS, MEd	Special Education
	MSW	Social Work
	PhD	Education
	Certificate	Digital Design
	Certificate	Gerontology
	Certificate	Medical Assisting
	Certificate	Ornamental Horticulture
	Certificate	Professional Bookkeeper
	Certificate	Professional Bookkeeping
	Certificate	Web Business
	Endorsement	Early Childhood
	Endorsement	English as a Second Language
	Endorsement	Gifted & Talented
	Endorsement	Reading
	Endorsement	School Library Media
	Endorsement	Utah Mathematics Endorsement Project
	Licensure	Secondary Education (ARL) (Post Baccalaureate)
	Licensure	Secondary Teacher Education Program (Undergraduate)
	Source: USU Regional Campuses & Distance Education; SUU Director, Distance Education	

ATTACHMENT C: USHE Blended/Hybrid Programs Available September 2019

SUU	BIS	Interdisciplinary Studies
USU	BS/BA	Elementary Education
	BS/BA	Family, Consumer, & Human Development
	ME	Engineering (ME)
	MRC	Rehabilitation Counseling (MRC)
	Cert	Gerontology
	Cert	Rehabilitation Counseling
	Endorsement	E-Learning (Grad)
	Endorsement	STEM
	Licensure	(ATP) Alternative Teacher Prep. - Special Education (Grad)
	Licensure	Administrative/Supervisory Concentration (Grad)
DSU	BS	Communication Studies (Organization and Leadership)
	MS	Technical Writing and Digital Rhetoric—**NEW fall 2019**
Source: USU Regional Campuses & Distance Education; SUU Director, Distance Education; DSU Director, Distance Education		