A Systemic Approach to Desi and Develop Online Programs State of the Practice and **Future Projections**

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educational offerings via distance education and, specifically, presented below. online learning. Despite the various administrative and academic structures needed to deliver the enterprise effectively, online programs continue to thrive. Yet, the benefits of a centralized versus a decentralized organization to manage distance education continue to be debated. This A. Current State paper focuses on the merits of taking a systemic approach to online learning, which uses standardized procedures and practices while leveraging research data related to student learning preferences, student completion rates, workforce needs, and trends, along with statistical evidence from local, state and regional sources. From partial terms to accelerated terms to traditional semester-long courses, online programs benefit from using a systemic approach to design and delivery. This paper delves into these advantages and concludes with recommendations.

Index Terms² online learning, distance learning, accelerated learning, growth, program creation, instructional design, management, faculty development

I. INTRODUCTION

of the internet, mobile devices and the affordability of widen access to higher education opportunities [8]. educational modality, interest in pursuing accelerate students each year. options has intensified [2]. That online learning has

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Abstract² In the past 15 years, higher education institutions increase revenue [4][5]. A centralized approach to KDYH ZRUNHG GLOLJHQWO\ WR LQFUddeshgy, Hdevleyog Garld WahlageD fulfy Hohline WpRog Walfish lisU

FRAMEWORK FORWORK REVIEW

The proliferation of online courses and programs started at many institutions as a grassroots approach, with adopters advocates promoting and implementation. Shortly after, institutions began to experience increased interest for online courses due to graduation requirements [6], and the advantages to tecrui expert faculty and students. However, the offerings were limited to single courses, as fully online programs had additional requirements imposed by accrediting agencies [3]

B. Centralized, Intentional, and Focused

Practitioners and scholars continue to debate the advantages and disadvantages of decentralized and centralized units responsible for administering online In the past 15 years, higher education institutions have rogram offerings, specifically regarding planning for the educational offerings via distance education and case a Campus, was chosen as the stratagem to develop, specifically, online learning. Fueled by the proliferation administer, and deliver 100% online learning programs to computers, online learning has experienced a steady and A dedicated campus with a well-defined charter to healthy increase in participants. In the United States, the eate and implement policy that outlines what programs number of students taking at least one online course rose develop and deliver represents a sound approach that to 6.3 million [1]. Academic offerings via online learning offers a more certain and more expedient return on have increased progressively, evolving from single nvestment [8]. Established in 2014 as part of Tarrant courses to complete degree programs at both the ounty College District, one of the 20-largest higher undergraduate and graduate levels students have education institutions in the U.S., TCC Connect Campus become more familiar and comfortable with this is a 100% online campus that serves more than 20,500

agencies led to the issuance of guidelines to ensure online Tarrant County College was established by a countyprograms offer the same academic rigor as traditionalide election on July 31, 1965, as Tarrant County Junior classrooms [3]. It is expected for this trend to continue a college; the name was changed to Tarrant County more academic institutions seek to boost their enrollment ollege in 1999. In the fall of 1973, TCC introduced ZLWK

instructional television. Nearly 800 students enrolled in these two classes, which immediately demonstrated an interest in flexible schedules that were more convenient academic degree in a reduced time led us to implement for the students. TCC Connect Campus opened in 2011Airee accelerated initiatives. Our signature accelerated with approximately 12,000 students enrolled in 350program, Weekend College, is a seven-week, once-acourses and 18 programs, which translates toweek on site program. Students enroll in two courses approximately 25, 000 enrollment8henomenal growth every term, allowing them to complete their associate has occurred over the five years of the calculus \ Videgree in 18 months or less. The initiative began in the existence, makingeLearning at TCC one of the largest fall 2014 with 72 students, with 52 percent (38) programs in TexasLocated in Fort Worth, Texas, with a graduating within two years, Experiencing steady growth current credit enrollment of more than 100,000 credit and since 2014, the program now serves more than 750 non-credit students. Tarrant County College is a-twear students per semester and enabled more than 2.200 to public institution with more than forty years of history complete their associate degree in a shorter amount of delivering distance education offerings. time. The Weekend College program boasts a remarkable

The campus is mandated by policy to offer online72% success rate [15], [16] courses, certificates and programs [9], and as a way to accomplish the mandates, operational procedures were the community, the workforce, and the students.

offerings, TCC Connect Campus was able to expedite the advantages of short-term courses [18], [19] faculty, combined with the experience of a full squad of the number of initiatives implemented since the inception instructional as well as graphic designers, strengthened the campus. and expedited the course and program development process.

IV. ACCOMPLISHMENTS OR UNDERTAKINGS

The outcome of these efforts has produced sever initiatives ranging from academic to operational, quality assurance to student services, and have generated no revenue streams. Between 2014 and 2018, 22 fully online programs 10 unique to TCC Connect Campubave been established. The programs are in the areas Business Administration, Information Technology, Office Administration, and Human Resources.

A. Peer-developed Courses

As a quality assurance and student success initiative we developed a robust peer-based course development process. The process follows a project management tools and strategies with learning outcomes. More than 76erm offered during the holidayabeginning the last day process.

B. Accelerated Initiatives

Monthly Starts

developed and anchored by standardization, common in 2017, monthly starts began, letting students enroll in syllabus, and peer-developed courses course that lasts four weeks beginning every first uses research data related to student learning preferences and student learning preferences are stu and student completion rates to redesign courses b QOLQH FRXUVHV LQGLFDWHV 3VLJQ infusing them with activities that incorporate bestfound in academic performance, with students in the fivepractices [1]. Similarly, the impetus to adapt and week session showing stronger academic performance develop new programs for online delivery is supported by than the full-V H P H V W H U V W X G H Q W V ′ > data reports from municipal, regional, state, and national 7], "Shorter term length facilitates the regularity and sources, enabling precise alignment between the needsf@quency of assignments, exams, and other projects, providing the necessary structure and routine that might % \ KDYLQJ VROH UHVSRQVLELOQthyriviserbe layrkings." Qtheo of yeligest hip ve redicted ed of the

scalability of online course delivery in anticipation of an The literature has shown that the compressed schedule exponential increase in our offerings [12], [13]. The usellows students to hone in on the course, thus increasing of subject matter expert teams instead of individual their chances to successfully complete it. Table I shows

TABLE I. INITIATIVES IMPLEMENTED

	INITIATIVES PER YEAR								
	Initiative	Implementation date							
r	Online Peer Course Development	Fall 2014							
e.	W Redesigned Online Certification	Fall 2014							
ıe	Wintermester Online	Winter 2016							
_	Summer Online	Summer 2016							
	8-week Programs	Spring 2017							
	Monthly Starts	Fall 2017							
	Online Advising	Fall 2018							
е	eFaculty Coach	Fall 2018							

Wintermester

approach, leveraging the expertise of groups of subject Following a similar strategy, and keeping student matter experts (faculty) paired with instructional andpreferences in mind, in 2016 we implemented the first graphic designers [10], [4]. The goal is to align teaching online Wintermester. This is an accelerated four-week courses have been designed or redesigned using that the fall semester and ending the first week in January with the sole goal to help students get ahead of the spring semester. Students enroll in one courseC rules require students to enroll in the same or fewer The needs and preferences of the dentury students number of hours than weeks in a termeducing the are changing rapidly. Availability of high-paying jobs, chances for student to drop or fail the course. the prospects of social mobility and the need to complet Approximately 1,100 students enroll in Wintermester

with an 88% success rate. A total of 1,002 students welearning, and that prioritizes sound system navigation, enrollment. 6.9% recreied a grade R I 3'' R UThie)' withdrawa rate for this session was only 2% (see Table II).

TABLE II. WINTERMESTER ENROLLMENTS AND SUCCESSRATES

Year	Enrollments	Passed with C or better		Received D or F		Withdrew	
2019	1,002	890	88.90%	69	6.90%	42	4.20%
2018	753	613	81.40%	63	8.40%	77	10.20%
2017	499	420	84.20%	36	7.20%	43	8.60%

E. Online Advising and eFaculty Coaches

DGGLWLRQ DGYLVRUV academic journey in two ways: after an early alert isDQG SURJUDPV initiated, and once students have made initial contact withespond to opportunities, mandates, or business proposals. an advisor [20], [21]Recently, we added another success initiative known as eFaculty coaches. The initiative is designed to help faculty with the management of the course from facilitation to discussion forums and from grading to their online presence. The coach observes how a group of faculty performs in the virtual classroom and identifies common areas where improvements can be This is a single author contributor conducted research, made through training [22

TABLE III. SUCCESSRATES FOR ONLINE COURSES

Semester	FL 2018	SU 2018	SP 2018	FL 2017	SU 2017
Success Rates	68.40%	79.70%	69.30%		79.80%
% Change Success Rate	2	-0.13%	1.3	-1.7	-0.4

For students to be successful in their higher education endeavors, they need dedicated services that include faculty experienced in accelerated, online and andragody to professional development, instructional design and digital scholarship [21]. These are quality assurances strategies institutions need to implement as they embark upon distance education plans.

V. CONCLUSIONS AND RECOMMENDATIONS

We recommend that institutions consider centralizing7] distance education operations. Data shows that students benefit from dedicated and specialized services that align with the modality and their individual learning styles. The student experience needs to be one, minimizing the chances for variables in classroom learning versus online

enrdled in the 2019 TCC Connect Campus Wintermesteactivities, assignments, and outcomes [10]. Expedited session. Of the 1,002 students effed 890 passed with a course design and redesign, as well as the creation of new JUDGH RI 3 & wiRidd is E 848 199% of the total programs. Accordingly, a centralized operation is better able plan strategically and expedite course design and redesign by leveraging research and best practices specific to this modality.

Institutions of higher education seeking to expand online learning operations should embark upon long-term planning, supported by data related to enrollment, success rates, completion, economic forecast, and student success. The preparation of a separate plan for online learning that includes timelines, budget, marketing, faculty and human UHVRXUFHV DQG WHFKQRORJ\ LV success.

The institution also benefits from a centralized approach by avoiding duplicative staff and efforts, and ensuring consistency of the virtual allaV URRP¶V

navigation, look, and feel. Institutions also benefit from Centralizing the administration of an online campuscost reductions, as highly specialized staff, such as also allows for the identification of specialized academic instructional designers, multimedia technicians, trainers, and student services. A key component of student successed graphic designers, can be organized and managed in (see Table III) is online advising, which provides students uniform way to advance a common goal. Our with time management, course and program selections. Irentralized practice has shown, through planning, that it 3 V K D G R Ziś bettet kogipped Wov mantage Litre x scalkability kift buches WKXV LQFUHDVLQJ W

> CONFLICT OF INTEREST The author declare no conflict of interest.

AUTHOR CONTRIBUTIONS

analyzed the data and wrote the paper.

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