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**Cover Sheet for In-State Institutions
New Program or Substantial Modification to Existing Program**

Institution Submitting Proposal

Capitol Technology University

Each action below requires a separate proposal and cover sheet.

<input checked="" type="radio"/> New Academic Program	<input type="radio"/> Substantial Change to a Degree Program
<input type="radio"/> New Area of Concentration	<input type="radio"/> Substantial Change to an Area of Concentration
<input type="radio"/> New Degree Level Approval	<input type="radio"/> Substantial Change to a Certificate Program
<input type="radio"/> New Stand-Alone Certificate	<input type="radio"/> Cooperative Degree Program
<input type="radio"/> Off Campus Program	<input type="radio"/> Offer Program at Regional Higher Education Center

Payment	<input checked="" type="radio"/> Yes	Payment	OR*STARS #	Payment	Amount:	\$850	Date
Submitted:	<input type="radio"/> No	Type:	<input checked="" type="radio"/> Check #	99319	Submitted:	12/15/25	

Department Proposing Program	Graduate School			
Degree Level and Degree Type	Master of Research (MRes)			
Title of Proposed Program	Healthcare Informatics			
Total Number of Credits	30			
Suggested Codes	HEGIS: 15-1211.01	CIP: 51.2706		
Program Modality	<input type="radio"/> On-campus	<input checked="" type="radio"/> Distance Education (fully online)	<input type="radio"/> Both	
Program Resources	<input checked="" type="radio"/> Using Existing Resources	<input type="radio"/> Requiring New Resources		
Projected Implementation Date (must be 60 days from proposal submission as per COMAR 13B.02.03.01)	<input checked="" type="radio"/> Fall	<input type="radio"/> Spring	<input type="radio"/> Summer	Year: 2026
Provide Link to Most Recent Academic Catalog	URL: https://catalog.captechu.edu/			
Preferred Contact for this Proposal	<p>Name: Christopher Linski Title: Dean of Graduate School Phone: 240-696-4607 Email: clinski@captechu.edu</p>			
President/Chief Executive	<p>Type Name: Bradford Sims Signature:  Date: 12/15/25</p>			
	Date of Approval/Endorsement by Governing Board: DEC. 15, 2025			

Revised 4/2025



December 15, 2025

Dr. Sanjay K. Rai
Secretary of Maryland Higher Education
Maryland Higher Education Commission
217 East Redwood Street, Suite 2100
Baltimore, MD 21202

Dear Dr. Rai,

Capitol Technology University is requesting approval to offer a **Master of Research (MRes) in Healthcare Informatics**. The degree curriculum will be taught using a significant number of existing faculty at our university and will be supplemented by new courses supporting the **MRes**. **Healthcare Informatics**. The mission of Capitol Technology University is to provide practical education in engineering, computer science, information technology, and business that prepares individuals for professional careers and affords the opportunity to thrive in a dynamic world. A central focus of the university's mission is to advance practical working knowledge in areas of interest to students and prospective employers within the context of Capitol's degree programs. The university believes that an **MRes in Healthcare Informatics** is consistent with this mission.

Organizations are reporting significant workforce shortages of trained personnel with a masters' degree and experience in leading organizations, especially in the domain of healthcare. Moreover, the shortage is growing each year, driven by increasing demand and the departure of large numbers of existing data and information professionals who are reaching retirement age. The Healthcare Informatics degree is designed for new master's-level and non-traditional students who desire to advance in their careers by gaining leadership skills in healthcare informatics. This program is fully remote and research-focused, which differentiates from current on-campus programs.

To respond to needs, we respectfully submit for approval the MRes in Healthcare Informatics. The required proposal is attached, along with a letter from me, as university president, confirming the adequacy of the university's library to meet the needs of students.

Respectfully,

A handwritten signature in blue ink, appearing to read 'BLS'.

Bradford L. Sims, PhD
President



December 15, 2025

Dr. Sanjay K. Rai
Secretary of Maryland Higher Education
Maryland Higher Education Commission
217 East Redwood Street, Suite 2100
Baltimore, MD 21202

Dear Dr. Rai,

This letter is in response to the need for confirmation of the adequacy of the library of Capitol Technology University to support the proposed **Master of Research in Healthcare Informatics**. As president of the university, I confirm that the library resources, including support staff, are more than adequate to support the **Master of Research in Healthcare Informatics (MRes)**. In addition, the university is committed to and has allocated funds for the ongoing improvement of its library resources.

Respectfully,

A handwritten signature in blue ink, appearing to read 'BLS'.

Bradford L. Sims, PhD
President

CAPITOL TECHNOLOGY UNIVERSITY		VENDOR NO.	17911	DATE	12/1/2025	CHECK NO.
INVOICE NUMBER	INVOICE DATE	DESCRIPTION	GROSS AMOUNT	DISCOUNT/ADJUSTMENTS	PAYMENT AMOUNT	
BTSP Program 2	11/24/2025	MHEC Application Fees\$ in New Academic <i>Miles Healthcare Informatcs</i>	850.00	0.00	850.00	

ORIGINAL CHECK HAS A COLOR BACKGROUND PRINTED ON CHEMICAL REACTIVE PAPER- SEE BACK FOR DETAILS

CAPITOL TECHNOLOGY UNIVERSITY		VENDOR NO.	17911	DATE	12/1/2025	CHECK AMOUNT
 CAPITOL Technology University 11301 SPRINGSFIELD ROAD, LAUREL, MD 20708 PH: 301-389-2500						*****850.00
PAY	EIGHT HUNDRED FIFTY AND NO/100 DOLLARS					
TO THE ORDER OF	Maryland Higher Education Commission 217 E. Redwood Street Suite 2100 Baltimore, MD 21202					
						<i>Bryant S. Dennis Daniels</i>

099319 191 204 33180921 030112661#

Proposed Master of Research in Healthcare Informatics
Graduate School
Capitol Technology University
Laurel, Maryland

A. Centrality to Institutional Mission and Planning Priorities:

- 1. Provide a description of the program, including each area of concentration (if applicable), and how it relates to the institution's approved mission.**

Master of Research in Healthcare Informatics Program Description:

The **Master of Research in Healthcare Informatics** is a specialized graduate program designed to meet the growing demand for expertise at the intersection of healthcare, information technology, and data science. In today's rapidly evolving healthcare environment, informatics plays a crucial role in enhancing patient outcomes, improving operational efficiency, and ensuring data security and compliance. This program emphasizes research-based learning, enabling students to design and conduct original investigations into healthcare informatics challenges while applying cutting-edge tools and methodologies. Capitol Technology University is uniquely positioned to offer this degree due to its expertise in technology-driven education and proximity to national healthcare, policy, and research centers. The **M.Res. in Healthcare Informatics** offers students the opportunity to engage in research and contribute original findings that advance both scholarship and practice. The program is designed for professionals seeking to strengthen their ability to address healthcare data and technology issues and to position themselves as leaders in research, innovation, and applied practice.

Relationship to Institutional Approved Mission:

The **M.Res. in Healthcare Informatics** is consistent with the University's mission to educate individuals for professional opportunities in engineering, computer science, information technology, and business. The University offers relevant learning experiences that foster success in the evolving global community. Fundamental to the degrees in the Graduate School's Masters level programs are opportunities to pursue cutting-edge knowledge in technological applications, engineering principles, improved techniques, and modified procedures. The **M.Res. in Healthcare Informatics** aligns with this philosophy. This same philosophy is supported by the University's existing degree programs and learning opportunities. In addition to many others, the University offers M.Res. programs in Artificial Intelligence, Quantum Computing, Project Management, Sustainability, and System Engineering. The **M.Res. in Healthcare Informatics** degree is an integral part of the new Strategic Plan for FY 2025-2026 and succeeding years. Funding to support the new degree has been included in the institutional and departmental budgets for FY 2026-2027 and forecasted budgets going forward.

The **M.Res in Healthcare Informatics** degree will be offered online, utilizing the Canvas Learning Management System and Zoom. The result is the convenience required by the 21st-century learner, providing interaction with faculty and fellow students that is critical to the high-level learning experience. The curriculum equips Master's level students with the necessary

learning tools that the University believes are critical to success in the Healthcare Informatics sector. The degree is also consistent with the university's interdisciplinary nature.

2. Explain how the proposed program supports the institution's strategic goals and provide evidence that affirms it is an institutional priority.

Capitol Technology University operates on five strategic goals:

1. Expand and innovate enrollment strategies to attract new groups of prospective students and retain a robust student community.

- Implement data-informed enrollment tactics to target and attract students
- Implement data-informed tactics to retain students, ensuring that all students, regardless of background, have the opportunity to succeed and thrive.
- Strengthen brand awareness through bold and multi-channel marketing focused on affordability and ROI
- Engage community and youth through intentional outreach

2. Implement interactive, industry-focused, personalized learning, and co-curricular experiences aligned with student career goals.

- Enhance career readiness by aligning academic and co-curricular programs with student interests and industry needs
- Implement evidence-based and data-driven pedagogical approaches and academic experiences to improve student outcomes.
- Promote interdisciplinary applied learning models to encourage curricular innovation and program growth

3. Advance a vibrant learning community dedicated to creating meaningful career pathways in collaboration with industry.

- Build and maintain strategic partnerships across industries and sectors to ensure mutual benefit and alignment.
- Create engaging campus and virtual learning environments that are attractive to students and promote success.

4. Cultivate an environment that is welcoming, supportive, and attractive to a broad community representing local and global perspectives.

- Implement systems that support and sustain data-driven decision-making and are available to decision makers
- Improve institutional efficiency by standardizing and streamlining operations while effectively leveraging technology
- Implement data-informed practices to create a sustainable, high-performing workforce
- Foster a vibrant culture to increase student engagement and retention

5. Enhance and diversify revenue streams by leveraging campus resources, building strategic partnerships, and expanding non-tuition income opportunities.

- Maximize campus assets for mission-aligned revenue generation
- Strengthen the culture of philanthropy and fundraising across the institution
- Pursue grant opportunities that align with institutional priorities and existing programs.

The **M.Res. in Healthcare Informatics** program will support all the University's strategic goals. The proposed degree builds upon the already successful graduate areas of study. The University's terminal degree programs are structured to prepare students to provide critical, expert leadership, as well as technical and business expertise, at the highest level, to meet the needs of modern technology- and information-dependent healthcare organizations. The University's programs have been preparing professionals for rapid advances in information and technology, intense global competition, and increasingly complex technological engineering and management environments for decades. The **M.Res. in Healthcare Informatics** will enable students to expand their knowledge to the cutting-edge technological limits of Healthcare Informatics and contribute to the body of knowledge in the field.

The new **M.Res. in Healthcare Informatics** is fully supported by the University's new Vision and Strategic Goals. Funding to support the degree has been included in forecasted budgets going forward.

The University has active partnerships (e.g., Leidos, Patton Electronics, Lockheed Martin, Northrup Grumman, Cyber Security Forum Initiative, IRS, NCS, PryorHealth, and Thermo Fisher) in the private and public arenas. The **M.Res. in Healthcare Informatics** degree will provide new opportunities for partnerships and expanded research. The increase in partnerships and placement of our graduates in our partner organizations will serve to expand the University's enrollment and reputation. While additional enrollment will increase the University's financial resources, securing additional partnerships and grants in the field of study will help diversify and further enhance the University's financial resources.

3. Provide a brief narrative of how the proposed program will be adequately funded for at least the first five years of program implementation. (Additional related information is required in section L.)

Capitol Technology University will support the proposed program through the same process and level of support as the University's existing programs. The University has also budgeted funds to support program and course development, online support, office materials, travel, professional development, and initial marketing. There is no substantial impact to the institution due to the advanced budgeting of these funds. If approved, the program will be self-sustaining going forward.

4. Provide a description of the institution's commitment to:

a. Ongoing administrative, financial, and technical support of the proposed program

The proposed degree is an integral part of the University's Strategic Plan for FY 2025-2027 and forward. The institutional and departmental budgets for FY 2026-2027, as well as the forecasted budgets going forward, include funding for the administrative, financial, and technical support of the new degree.

b. Continuation of the program for a period of time sufficient to allow enrolled students to complete the program.

Capitol Technology University is fully committed to continuing the proposed **M.Res. in Healthcare Informatics** degree program for a sufficient period to allow enrolled students to complete the program.

B. Critical and Compelling Regional or Statewide Need as Identified in the State Plan:

1. Demonstrate demand and need for the program in terms of meeting present and future needs of the region and the State in general based on one or more of the following:

a. The need for advancement and evolution of knowledge.

The **M.Res. in Healthcare Informatics** upgrades the vocational and technical skills of healthcare and IT professionals by developing advanced competencies in data analysis, systems design, and digital health technologies. It addresses the workforce demand for expertise in health informatics, projected to grow significantly in both healthcare organizations and supporting industries. It prepares graduates for research and senior leadership roles that bridge the gap between clinical practice, information technology, and policy development.

The State of Maryland has a long history of fostering and encouraging business ventures as well as blazing new trails with groundbreaking research. If approved, this new degree will build on that legacy with a groundbreaking new master's program in a field that is evolving due to rapidly changing technology, data analytics, and management skill sets. The University's **M.Res. in Healthcare Informatics** program will produce the next generation of top leaders with the technological expertise and modern management insights needed now and in the future by the medical and healthcare communities.

b. Societal needs, including expanding educational opportunities and choices for minorities and educationally disadvantaged students at institutions of higher education.

Capitol Technology University is a diverse, multiethnic, and multiracial institution with a long history of serving minority populations. The University has a 51% minority student population, with 7% of the students' minority status being undisclosed. The Black/African American population is 34%. The university has a military/veteran population of 22%. The University also has a 22% female population – a significant percentage given its status as a technology institution. If approved, the proposed **M.Res. in Healthcare Informatics** will expand the field of opportunities for minorities and disadvantaged students.

c. The need to strengthen and expand the capacity of historically black institutions to provide high quality and unique educational programs.

While Capitol Technology University is not a historically black institution, the university is a diverse multiethnic and multiracial institution with a long history of serving minority populations. The University has a 51% minority student population, with 7% undisclosed. The Black/African American population is 34%. The University has a military/veteran population of 22%. The university also has a 22% female population – a significant percentage given its status as a technology institution. If approved, the proposed **M.Res. in Healthcare Informatics** will expand the field of opportunities for minorities and disadvantaged students. Given the substantial minority population of Capitol Technology

University, it is also reasonable to assert that the **M.Res. in Healthcare Informatics** program will add to the base of minority participation in the medical and healthcare fields.

2. Provide evidence that the perceived need is consistent with the Maryland State Plan for Postsecondary Education.

The 2022 Maryland State Plan for Postsecondary Education articulates three goals for postsecondary education:

1. **Access:** Ensure equitable access to affordable and high-quality postsecondary education for all Maryland residents.
2. **Success:** Promote and implement practices and policies that will ensure student success.
3. **Innovation:** Foster innovation in all aspects of Maryland higher education to improve access and student success.

Goal 1: Access

"Ensure equitable access to affordable and quality postsecondary education for all Maryland residents."

Capitol Technology University is committed to ensuring equitable access to affordable postsecondary education for all Maryland residents. The University meets its commitment in this arena through its diverse campus environment, admissions policies, and academic rigor.

- Priority 1: Study the affordability of postsecondary education in Maryland.
- Priority 2: Examine and improve financial literacy programs for students and families to encourage financial planning to pay for postsecondary education.
- Priority 3: Analyze systems that impact how specific student populations access affordable and quality postsecondary education.

The Capitol Technology University community is committed to creating and maintaining a mutually respectful environment that recognizes and celebrates diversity among all students, faculty, and staff. The University values human differences as an asset and works to sustain a culture that reflects the interests, contributions, and perspectives of members of diverse groups. The University delivers educational programming to meet the needs of diverse audiences. We also seek to instill those values, understanding, and skills to encourage leadership and service in a global multicultural society.

The composition of the University's student body reflects the institution's commitment to diversity. Capitol Technology University has a 51% minority student population, with 7% undisclosed. The Black/African American population is 34%. The University has a military/veteran population of 22%. The University also has a 22% female population – a significant percentage given its status as a technology university.

Achievement gaps: The University offers leveling courses to support individuals seeking a career change to a field of study that is not necessarily consistent with their current skills. There are situations where undergraduate courses best serve students' needs in subject areas. The University makes those courses available.

The University offers diversity training to its institutional population, including students. Diversity and inclusiveness are integral to the curriculum, enabling graduates to operate effectively in a global environment. The University supports multiple diversity-enhancing initiatives, including team projects and grants across various degree programs. This approach has proven effective in supporting various aspects of diversity.

Capitol Technology University does not discriminate on the basis of race, color, national origin, sex, age, sexual orientation, or handicap in admission, employment, programs, or activities.

Through its academic programs, Capitol Technology University seeks to prepare all of its graduates to demonstrate four primary characteristics:

- **Employability:** The ability to enter and advance in technical and managerial careers, appropriate to their level and area of study, immediately upon graduation.
- **Communications:** Mastery of traditional and technological techniques of communicating ideas effectively and persuasively.
- **Preparation of the Mind:** The broad intellectual grounding in technical and general subjects required to embrace future technical and managerial opportunities with success.
- **Professionalism:** Commitment to life-long learning, ethical practice, and participation in professions and communities.

The proposed **M.Res. in Healthcare Informatics** program, along with university financial aid, will be available to all Maryland residents who qualify academically for admission. The University has successfully supported financial aid for its students since its founding in 1927.

The **M.Res. in Healthcare Informatics** program, with its academic rigor, will produce highly qualified Construction leaders with the highest level of skills and abilities to advance their careers. The University has a proven record of rigorous high-quality education in all of its degrees. The University is fully accredited by five accrediting organizations. The University receives its regional accreditation from the Middle States Commission on Higher Education (MSCHE). The University also holds specialized accreditation from the International Accreditation Council for Business Education (IACBE), the Accreditation Board for Engineering and Technology (ABET), the National Security Agency (NSA), and the Department of Homeland Security (DHS). The **M.Res. in Healthcare Informatics** program is consistent with the MSCHE criteria for regional accreditation of the delivery of high-quality higher education.

Goal 2: Success

"Promote and implement practices and policies that will ensure student success."

The courses for the **M.Res. in Healthcare Informatics** degree will be offered in a sync manner but allowing for real time communication using the Canvas Learning Management System and Zoom. The University provides a tuition structure that is competitive with its competitors. The University tuition structure does not differentiate between in-state and out-of-state students. The University's Student Services provide advising, tutoring, virtual job fair attendance, and other activities supporting student completion and employment for both on-ground and online students.

Students receive information throughout the admissions process regarding the cost to attend the University. The information is also available to the public on the University's website. The University's Admissions Office and Office of Financial Aid identify potential grants and

scholarships for each student. The Office of Financial Aid also provides plans for each student to reduce potential student debt. The net cost versus gross costs is identified clearly for the student. Students receive advising from Financial Aid Advisors before enrolling in classes for the first time. Admissions personnel, Student Services Counselors, and Departmental Chairs advise students of the need for academic readiness as well as the degree requirements. Academic Advisors also develop a specific success pathway for each student.

The University's tuition increases have not exceeded 3%. The University also has a tuition guarantee for undergraduates, which means full-time tuition is guaranteed not to increase more than 1% per year above the rate at the time of initial enrollment. The tuition remains at this rate if the student remains enrolled full-time without a break in attendance.

The University provides services and learning tools to guide students to successful degree completion. Programs such as Early Alert give the University's faculty and staff opportunities for early student intervention on the pathway to graduation. This program applies to all students regardless of the mode of course delivery or degree program. Capitol Technology University is also a transfer-friendly institution and participates in multiple programs for government and military credit transfer. Capitol Technology University participates in the Articulation System for Maryland Colleges and Universities (ARTSYS) and has numerous transfer agreements with local institutions at all degree levels.

The University has in place services, tutoring, and other tools to help ensure student graduation and successful job placement. The University hosts a career (job) fair twice a year. The University has an online career center available to all students covering such topics as career exploration, resume writing, job search techniques, social media management, mock interviews, and assistance interpreting job descriptions, offers, and employment packages.

The University also works with its advisory boards, alumni, partners, and faculty to help ensure the degrees offered at the University are compatible with long-term career opportunities in support of the state's knowledge-based economy.

Goal 3: Innovation

"Foster innovation in all aspects of Maryland higher education to improve access and student success."

Capitol Technology University's past, present, and future are inextricably intertwined with innovation. The University has a long tradition of serving as a platform for the use of new and transformative approaches to delivering higher education. New technology and cutting-edge techniques are blended with proven strategies to enable student success in all classroom modalities as well as in a successful career after graduation. As a small institution, Capitol Technology University has the agility to rapidly integrate new technologies into the curriculum to better prepare students for the work environment. The University designs curriculum in alliance with its accreditation and regulating organizations and agencies.

The University also employs online virtual simulations in a game-like environment to teach the application of knowledge in a practical hands-on manner. The University engages with a partner creating high-level virtual reality environments for use by students pursuing this degree. This use of current technology occurs in parallel with traditional, proven learning strategies. These elements of the University's online learning environment are purposeful and intended to improve

the learning environment for both the student and faculty member. The approach is intentionally designed to increase engagement, improve outcomes, and improve retention and graduation rates. The University believes that innovation is the key to successful student and faculty engagement.

Example: The University engages its students in fusion projects that allow students to contribute their skills in interdisciplinary projects such as those in our Astronautical Engineering and Cyber Labs. In those labs, students become designers, builders, and project managers (e.g., to send a CubeSat on a NASA rocket) and data analysts (e.g., to analyze rainforest data for NASA). The University's students launched their satellite aboard a NASA rocket from a location in Norway. We are also recruiting additional partners for the proposed **M.Res. in Healthcare Informatics**, for which real-world projects will provide students with integrative learning opportunities in the medical and healthcare fields.

The University also supports prior learning assessment. Portfolio analysis is available. The University accepts professional certifications for credit for specific courses. The University also allows students to take a competency exam for credit for required courses up to the current state limits. These are all on an individual basis, and approval is needed from the Dean of the Doctoral Program.

C. Quantifiable and Reliable Evidence and Documentation of Market Supply and Demand in the Region and State:

Leaders in the healthcare industry are facing an ever-increasing need to apply new engineering principles, methods, and technologies to their field in order to remain competitive, efficient, and viable now and in the future. Companies today depend on and thrive on timely, accurate, and relevant information. As technology enables the creation and capture of ever-increasing amounts of data, the effective leadership, management, and understanding of resource needs is becoming an enormous challenge. Healthcare informatics has far-reaching implications in the global, environmental, integration, and security aspects of society. The leaders at the highest levels in companies are now being driven to develop new solutions and techniques to survive and thrive. Effective leadership in this industry can only be achieved with a holistic approach and the advanced skills that will be covered in this proposed degree.

The State of Maryland has a long history of fostering and encouraging business ventures as well as blazing new trails with groundbreaking research. If approved, this new degree will build on that legacy with a groundbreaking new Master's program in a field that is evolving due to rapidly changing technology. The University's **M.Res. in Healthcare Informatics** program will be producing the next generation of top leaders and practicing professionals with the technological and management expertise needed now and in the future.

1. Describe potential industry or industries, employment opportunities, and expected level of entry (ex: *mid-level management*) for graduates of the proposed program.

Graduates with the **M.Res. in Healthcare Informatics** will be expected to fill mid and senior-level management positions in hospitals, research companies, other healthcare organizations, the military, and academia, with titles such as:

- Clinical Informatics Specialist

- Health Data Analyst / Healthcare Data Scientist
- Healthcare IT Project Manager
- Health Information Manager
- Research Scientist in Healthcare Informatics
- Public Health Informatics Specialist

Graduates from the proposed **M.Res. in Healthcare Informatics** will possess in-depth knowledge of research in healthcare, enabling them to serve as leaders in their field. Graduates will also possess the required knowledge to serve as a subject matter expert and work in private companies, public healthcare organizations, or government agencies.

1. Present data and analysis projecting market demand and the availability of openings in a job market to be served by the new program.

The Occupational Outlook Handbook (OOH), a key resource produced by the Bureau of Labor Statistics (BLS), categorizes the profession of healthcare informatics under the 51-2706 CIP (Classification of Instructional Programs) code, which is crosswalked to the SOC (Standard Occupational Classification) code of 15-1256, Software Developers and Software Quality Assurance Analysts and Testers. To best analyze and project academic and occupational opportunities for our metropolitan area, the University selected the location quotient to illustrate the demand and need for Healthcare Informatics education in the Maryland and District of Columbia region. According to the BLS, Maryland and the District of Columbia have relatively high location quotients for the profession in the U.S.A. See below for data.

States with a high concentration of jobs and location quotients in Medical Informatics professionals:

State	Employment	Employment per thousand jobs	Location quotient	Hourly mean wage	Annual mean wage
California	249,620	14.36	1.50	\$ 64.60	\$ 134,370
Texas	109,510	8.81	0.92	\$51.89	\$107,940
<u>Virginia</u>	73,310	18.90	1.97	\$55.02	\$114,440
Maryland	29,710	11.0	1.15	\$55.71	\$116,080

<https://www.bls.gov/ooh/computer-and-information-technology/software-developers.htm>
(visited November 19, 2025)

Furthermore, the state of Maryland projects that the Informatics profession within the state will grow by 7.1%, adding at least 371 additional positions.

(<https://www.maryland.gov/pages/search.aspx?site=mogvnwn994&name=Labor&q=Medical+co+mputin>) accessed 11-19-2025

2. Discuss and provide evidence of market surveys that clearly provide quantifiable and reliable data on the educational and training needs and the anticipated number of vacancies expected over the next 5 years.

According to the Bureau of Labor Statistics Occupational Outlook Handbook, Overall employment in this field is projected to grow faster than the average for all occupations from 2024 to 2034. About 287,900 openings are projected in these occupations due to employment growth and the need to replace workers who leave the occupations permanently.

The median annual wage for this group was \$131,450, significantly higher than the median annual wage for all occupations, which was \$49,500.

(Source: <https://www.bls.gov/ooh/computer-and-information-technology/software-developers>; accessed 8-27-2025)

3. Data showing the current and projected supply of prospective graduates.

Deloitte Touche Tohmatsu Limited, through its DataUSA initiative, reported the following regarding student demands in Medical Informatics.

1. Total degrees awarded in 2023 (BS, MS, and PhD) – 2,689, growing at 24.3%
2. Total People in Workforce – 4.6 million, growing at 4.16%
3. Average Employee Age – 42.5, declining by .17%

There is a significant and growing demand for Healthcare Informatics skills in the US job market. However, a significant shortage of qualified talent is expected due to the anticipated decline in graduates and retirements. This talent gap could result in major economic losses if the shortfall is not addressed. The Deloitte report encourages more people to enter the profession to meet future demand.

(<https://datausa.io/profile/cip/medical-illustration-informatics>; Accessed 11-20-2025)

The future of Medical and Healthcare Informatics is bright; graduate students who embrace and develop the new tools and methodologies will be well-positioned to lead the way into the future.

D. Reasonableness of Program Duplication

1. Identify similar programs in the State and/or the same geographical area. Discuss similarities and differences between the proposed program and others in the same degree to be awarded.

There are no **M.Res. in Medical Informatics** degrees in Maryland. The proposed **M.Res. in Medical Informatics** would be the first. If approved, Capitol Technology University's program will position its graduates to meet the requirements for senior leaders and top experts in Medical and Healthcare organizations in Maryland, the United States, and allied nations. If approved, Capitol Technology University's M.Res. in Healthcare Informatics will position its graduates to meet the demand for senior leaders and top experts in Healthcare Informatics research in Maryland and the United States, as well as in allied nations. While UMGC, Hood, and JHU offer similar degrees in Informatics and Information Management, their programs concentrate on biomedical informatics, computer sciences, data management related to health science versus our program which will examine the specific needs of data science within the entirety of the healthcare system. Capitol Technology University's programs are offered 100% online and focuses on empirical research through a mentored dissertation program. This differs from the

current ground-based programs listed above. Based on the significant differentiation, we believe that these programs are not considered competitive or complimentary and did not complete the requested action of collaboration with these institutions, as listed in the Letter of Intent feedback.

2. Provide justification for the proposed program.

The proposed **M.Res. in Healthcare Informatics** program is strongly aligned with the University's strategic priorities and is supported by adequate resources. The proposed **M.Res. in Healthcare Informatics** degree will strengthen and expand upon the existing technology, engineering, management, and applied degree programs at the University. Additionally, the M.Res. in Healthcare Informatics program will be an option for all students, as the field aligns well with the market needs of the University's other programs. A thorough discussion of the program's need is presented in Sections B and C of this document.

E. Relevance to high-demand programs at Historically Black Institutions (HBIs):

1. Discuss the program's potential impact on the implementation or maintenance of high-demand programs at HBIs.

The University does not anticipate any impact on the implementation or maintenance of high-demand programs at HBIs. There are no M.Res. programs in Healthcare Informatics in Maryland or the United States. The proposed **M.Res. in Healthcare Informatics** would be the first.

F. Relevance to the identity of Historically Black Institutions (HBIs):

1. Discuss the program's potential impact on the uniqueness and institutional identities and missions of HBIs.

The University does not anticipate any impact on the uniqueness and institutional identities and missions of HBIs. There are no M.Res. programs in Healthcare Informatics in Maryland or the rest of the United States. The proposed **M.Res. in Healthcare Informatics** would be the first.

G. Adequacy of Curriculum Design, Program Modality, and Related Learning Outcomes (as outlined in COMAR 13B.02.03.10):

1. Describe how the proposed program was established, and also describe the faculty who will oversee the program.

The University's New Programs Group established the proposed program through a rigorous review of unmet needs. The group includes selected representation from the University's faculty, administrators, and Executive Council. Please see Section I for a detailed list of the faculty's backgrounds and qualifications. Capitol Technology University is a primary teaching university at the Undergraduate, Master's, and doctoral levels. This degree adds a specific focus to our core theory.

2. Describe educational objectives and learning outcomes appropriate to the rigor, breadth, and (modality) of the program.

Learning Objectives:

1. Gain practical research experience
2. Enhance their expertise in a specific area
3. Advance their careers by learning in-demand skills
4. Contribute original research to evolving fields of knowledge
5. Prepare for doctoral programs

Learning Outcomes:

Upon graduation:

1. Evaluate the need for the application of Healthcare Informatics
2. Recognize areas in which research is needed to maintain space safety.
3. Demonstrate advanced knowledge and competencies needed in quantitative and qualitative methodologies.
4. Investigate Healthcare Informatics issues from a global perspective.
5. Plan a research topic in Healthcare Informatics.
6. Execute a plan to complete a significant piece of scholarly work in Healthcare Informatics and defend this before their academic peers.

3. Explain how the institution will:

a) Provide for assessment of student achievement of learning outcomes in the program

Capitol Technology University will assess student achievement of the learning outcomes per the regulations specified by the University's regional accreditation organization: the Middle States Commission on Higher Education (MSCHE).

Under MSCHE, the University will use Standard V, Educational Effectiveness Assessment, of the Standards for Accreditation and Requirements of Affiliation. Standard V requires:

Assessment of student learning and achievement demonstrates that the institution's students have achieved educational goals aligned with their program of study, degree level, the institution's mission, and the appropriate expectations for institutions of higher education.

(Source: <https://www.msche.org/standards/>, retrieved 11/19/2025)

Per the MSCHE's accreditation requirements, Capitol Technology University will measure Standard V by using the following criteria:

An accredited institution possesses and demonstrates the following attributes or activities:

1. clearly stated educational goals at the institution and degree/program levels, which are interrelated with one another, with relevant educational experiences, and with the institution's mission;
2. organized and systematic assessments, conducted by faculty and/or appropriate professionals, evaluating the extent of student achievement of institutional and degree/program goals. Institutions should:

- a. define meaningful curricular goals with defensible standards for evaluating whether students are achieving those goals;
 - b. articulate how they prepare students in a manner consistent with their mission for successful careers, meaningful lives, and, where appropriate, further education. They should collect and provide data on the extent to which they are meeting these goals.
 - c. support and sustain assessment of student achievement and communicate the results of this assessment to stakeholders;
3. consideration and use of assessment results for the improvement of educational effectiveness. Consistent with the institution's mission, such uses include some combination of the following:
 - a. assisting students in improving their learning;
 - b. improving pedagogy and curriculum;
 - c. reviewing and revising academic programs and support services;
 - d. planning, conducting, and supporting a range of professional development activities;
 - e. planning and budgeting for the provision of academic programs and services;
 - f. informing appropriate constituents about the institution and its programs;
 - g. improving key indicators of student success, such as retention, graduation, transfer, and placement rates;
 - h. implementing other processes and procedures designed to improve educational programs and services;
4. if applicable, adequate and appropriate institutional review and approval of assessment services designed, delivered, or assessed by third-party providers; and
5. periodic assessment of the effectiveness of assessment processes utilized by the institution for the improvement of educational effectiveness.

The University will also evaluate student achievement of the learning outcomes using the Quality Assurance Agency for Higher Education (QAA) Framework for Higher Education Qualifications and its related assessment tools. The following tables provide a high-level view of the QAA Qualification Frameworks for doctoral programs. This model is used as it is a research degree program.

QAA Qualifications Framework for M.Res.

The M.Res is a research degree and that is the basis for assessment and evaluation of the knowledge and attainment. It is not intended to move anything other than a master's level but one by research, applied or pure, based of research methodologies.

4.18 Descriptor for a higher education qualification at level 8 on the FHEQ and SCQF level 12 on the FQHEIS: doctoral degree

The descriptor provided for this level of the frameworks is for any doctoral degree which should meet the descriptor in full. This qualification descriptor should also be used as a reference point for other level 8/level 12 qualifications.

Doctoral degrees are awarded to students who have demonstrated:

- the creation and interpretation of new knowledge, through original research or other advanced scholarship, of a quality to satisfy peer review, extend the forefront of the discipline, and merit publication
- a systematic acquisition and understanding of a substantial body of knowledge which is at the forefront of an academic discipline or area of professional practice
- the general ability to conceptualise, design and implement a project for the generation of new knowledge, applications or understanding at the forefront of the discipline, and to adjust the project design in the light of unforeseen problems
- a detailed understanding of applicable techniques for research and advanced academic enquiry.

Typically, holders of the qualification will be able to:

- make informed judgements on complex issues in specialist fields, often in the absence of complete data, and be able to communicate their ideas and conclusions clearly and effectively to specialist and non-specialist audiences
- continue to undertake pure and/or applied research and development at an advanced level, contributing substantially to the development of new techniques, ideas or approaches.

And holders will have:

- the qualities and transferable skills necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex and unpredictable situations, in professional or equivalent environments.

QAA Qualifications Framework for M.Res. (Continued)

4.18.1 Doctoral degrees are awarded for the creation and interpretation, construction and/or exposition of knowledge which extends the forefront of a discipline, usually through original research.

4.18.2 Holders of doctoral degrees are able to conceptualise, design and implement projects for the generation of significant new knowledge and/or understanding. Holders of doctoral degrees have the qualities needed for employment that require both the ability to make informed judgements on complex issues in specialist fields and an innovative approach to tackling and solving problems.

4.18.3 Doctoral programmes that may have a substantial taught element in addition to the research component (for example, professional doctorates), lead usually to awards which include the name of the discipline in their title (for example, EdD for Doctor of Education or DClinPsy for Doctor of Clinical Psychology). Professional doctorates aim to develop an individual's professional practice and to support them in producing a contribution to (professional) knowledge.

4.18.4 The titles PhD and DPhil are commonly used for doctoral degrees awarded on the basis of original research.

4.18.5 Achievement of outcomes consistent with the qualification descriptor for the doctoral degree normally requires study equivalent to three full-time calendar years.

4.18.6 Higher doctorates may be awarded in recognition of a substantial body of original research undertaken over the course of many years. Typically a portfolio of work that has been previously published in a peer-refereed context is submitted for assessment. Most degree awarding bodies restrict candidacy to graduates or their own academic staff of several years' standing.

(Source: UK Quality Code for Higher Education, Part A: Setting and Maintaining Academic Standards, The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies, October 2014)

4. Provide a list of courses with title, semester credit hours and course descriptions, along with a description of program requirements.

Program description, as it will appear in the catalog:

The **M.Res. in Healthcare Informatics** degree provides students with the opportunity to conduct extensive and sustained original research at a high level in the field of Healthcare Informatics. This unique doctoral program is designed to meet the demands of skilled professionals who aspire to become leaders and researchers involved in advancing, expanding, and supporting technological innovations. Driven by advancements in computing, software, data warehousing, data analysis, and AI. As these trends evolve, graduate students who embrace and develop these new tools and methodologies will be well-positioned to lead the way into tomorrow.

The program is for current professionals in the field who desire to elevate their skills to a higher level and contribute to the body of knowledge in Healthcare Informatics. Additionally, it is designed as a master degree by research, where students will quickly become able to engage in leadership, research, and publishing.

Description of program requirements:

Entrance Requirements

To be accepted into the **M.Res. in Healthcare Informatics** program, students must have completed an appropriate degree with a cumulative GPA of no less than 3.0 on a 4.0 scale. Students must also possess a high level of experience in the field, or a closely related field, and show the academic promise of their future ability to produce original research of publishable quality (suitable for a scholarly peer-reviewed journal or publication and presentation of high stature). The Dean of the Graduate School will make individual decisions on a case-by-case basis at the application stage.

International students are required to take the TOEFL and score at least 550 on the paper-based test or 79 on the internet-based test if their degree was not earned from a University where English is the primary language of instruction.

Degree Requirements:

The **M.Res. in Healthcare Informatics** program is designed for students who hold an appropriate degree and possess relevant experience. During the program, students will conduct original research in an approved area of study. Successful completion of the program culminates in the award of the **Master of Research (MRes) degree in Healthcare Informatics**.

The completion of the **M.Res. in Healthcare Informatics** program is achieved by producing and defending a Thesis.

Degree Course Requirements:

The following is a list of courses for the **M.Res. in Medical Informatics** degree. Students expecting to complete this degree must meet all prerequisites for the courses listed below.

Master of Research in Healthcare Informatics
Courses
Total Credits: 30

30 CREDITS

HCI 700 Fundamentals of Graduate Research & Design (6 Credits)

Project I will introduce the fundamentals of graduate research and design. The project will focus on graduate level writing, APA style, and the fundamentals of scientific inquiry. The project will cover the areas of technology research, ethics of research, the stages of the research process, conceptualization and operationalization of research questions, data collection techniques, analytics, an Introduction to qualitative and quantitative methods and measurement, a discussion of program evaluation research, and research proposal development. **Prerequisite(s)** – None.

HCI 710 Ethics and Philosophy of Research and Data Collection (6 Credits)

Students will study research ethics, data collection, qualitative and quantitative methods of various research. Assignments and case studies are used to enhance the learning objectives and applications to prepare for the next three courses. **Prerequisite(s): AE-700**

HCI 715 Healthcare Informatics Proposal (6 Credits)

Under a Chair, a student will further research the future demands in the Healthcare Informatics field and how these influence specific research questions. Data collection and applications will be central to evaluating the needs of Healthcare Informatics on the short, medium and long term. The literature review will be more specific in focus and direction at this stage. The ARB will be completed at this stage. **Prerequisite(s): AE-710**

HCI 725 Healthcare Informatics Research and Data Collection (6 Credits)

The student will produce a proposal for research that is comprehensive in detail and planning. The proposal will address the research topic, scope and aims, objectives and include a timing plan. The student will then complete the research milestones according to the proposal and research plan. The IRB will need to be completed by this stage. **Prerequisite(s): AE-715**

HCI 735 Healthcare Informatics Thesis and Defense (6 Credits)

Upon approval from the University Reviewers and M.Res. Review Board, the student will prepare and deliver an oral presentation summarizing the body of research and defend the same through viva voce (i.e., oral examination). The student's Chair, Committee and M.Res. Review Board will confer to determine if the student has provided a sufficient and necessary final oral defense of the research. **Prerequisite(s): AE-725**

Notes:

- HCI 700 must be taken as the only class in the first semester.
- No more than one class allowed in following semesters without Dean's approval.

5. Discuss how general education requirements will be met, if applicable.

N/A. This is a graduate program.

6. Identify any specialized accreditation or graduate certification requirements for this program and its students.

The program will be accredited regionally by the Middle States Commission on Higher Education (MSCHE).

7. If contracting with another institution or non-collegiate organization, provide a copy of the written contract.

The University will not be contracting with another institution or non-collegiate organization.

8. Provide assurance and any appropriate evidence that the proposed program will provide students with clear, complete, and timely information on the curriculum, course and degree requirements, nature of faculty/student interaction, assumptions about technology competence and skills, technical equipment requirements, learning management system, availability of academic support services and financial aid resources, and costs and payment policies.

The **M.Res. in Healthcare Informatics** program will provide students with clear, complete, and timely information on the curriculum, course and degree requirements, nature of faculty/student interaction, assumptions about technology competence and skills, technical equipment requirements, Learning Management System, availability of academic support services and financial aid resources, and costs and payment policies.

Curriculum, course, and degree information will be available on the university website and via e-mail as well as regular mail (by request). The expectations for faculty-student interaction are available to students through virtual open house events, literature, the website, and other means. Additionally, this information is included in the materials distributed for each course. Students receive guidance on proper behavior/interaction with their Chair, as well as the online environment, which is used to facilitate a high-level doctoral learning experience. Technology competence, skills, and technical equipment requirements are part of the material distributed for each course. The technical equipment requirements are also listed on our website and included in the welcome package provided to students.

The University's academic support services, financial aid resources, costs and payment policies, and learning management system are covered in the university's open houses, application process, welcome aboard process, orientation, student town halls, and individual counseling.

9. Provide assurance and any appropriate evidence that advertising, recruiting, and admissions materials will clearly and accurately represent the proposed program and the services available.

The **M.Res. in Healthcare Informatics** program's advertising, recruiting, and admissions materials will clearly and accurately represent the proposed program and the services available. The content for every new program is derived from the new program request sent to the Maryland Higher Education Commission is the source of the content for every new program at the University.

H. Adequacy of Articulation:

- 1. If applicable, discuss how the program supports articulation with programs at partner institutions. Provide all relevant articulation agreements.**

This program does not currently have articulation partners. However, the articulation process will work as it does for the University's current degrees. The University is very active with its transfer partners throughout the state and beyond. The goal of the University is to work with partners to make the transfer as seamless as possible and to maximize the student's transfer credits as possible. There are University transfer admissions personnel to guide the student through the process.

I. Adequacy of Faculty Resources (as outlined in COMAR 13B.02.03.11):

- 1. Provide a brief narrative demonstrating the quality of the program faculty. Include a summary list of the faculty with appointment type, terminal degree title and field, academic title/rank, status (full-time, part-time, or adjunct) and the course(s) each faculty member will teach.**

Almost all of the faculty listed below have been engaged with the University for several years. Dr. Butler is a full-time faculty member. All of the faculty members hold terminal degrees. The University leadership is confident in the quality of the faculty and their ability to provide a learning environment that supports the University's goals for student success. Additional Ph.D.-qualified faculty will be added as needed. Based on COMAR 13B.02.02.17(G), at least 1/2 of all courses will be taught by Full Time Faculty, including those listed in the table below.

Instructors who will be engaged with the **M.Res. in Healthcare Informatics** are:

INSTRUCTOR	BACKGROUND	COURSES ALIGNED TO BE TAUGHT
Dr. William Butler Full Time	DSc Cybersecurity M.Sc. Strategic Studies B.S Computer Science	All HCI 700 Level Courses
Dr. Christopher Linski Full Time	D.Mgt Organization Development M.S. Management	All HCI 700 Level Courses
Dr. Delores Springs Adjunct	Ph.D. Strategic Leadership M.S. Executive Leadership B.S. Psychology	All HCI 700 Level Courses
Dr. William Triplett Adjunct	PhD. Healthcare Technology Ph.D. Cybersecurity M.B.A.	All HCI 700 Level Courses

Program Champion: Dr. Christopher Linski

Dr. Linski earned his Doctorate in Management, a Master of Science in Management, and Bachelor of Science in Criminal Justice. He brings an extensive academic and professional resume to the position at Capitol Tech and has over 20 years of previous experience in a variety of fields and industries.

Professionally, Dr. Linski has been an organization development and strategy consultant for small businesses and nonprofit organizations. Dr. Linski is a retired Army noncommissioned officer and worked within the Department of Defense and defense-contracted organizations.

2. Demonstrate how the institution will provide ongoing pedagogy training for faculty in evidence-based best practices, including training in:

a) Pedagogy that meets the needs of the students

The primary pedagogy for faculty at Capitol Technology University is the Active Learning model. The university believes strongly in a highly-interactive, thinking, and hands-on experience for students in each class to the maximum extent possible.

It was two Missouri State professors, historian Charles Bonwell and psychologist James Eison, who coined the term "active learning." In their 1991 book on the subject, *Active Learning: Creating Excitement in the Classroom*, they offered this definition of the concept: "active learning involves students in doing things and thinking about the things they are doing."

The definition, though it seems circuitous, marks a definitive pedagogical shift in college teaching and learning. Rather than think about what they are watching, hearing, or reading, students are first encouraged to be "doing" something in class, and then to apply critical thought and reflection to their own classroom work and activity. Their argument was backed up by research. Even Bligh, 20 years earlier, had pointed out that the immediate rehearsal of new information and knowledge had a significant impact on learning.

This approach is as helpful in the sciences as it is in the arts or humanities: whether it's organic chemistry, creative writing, or behavioral economics, concepts are all best understood through repeated practice and open, social exploration. The central tenet of active learning is that practice matters, and that classroom time is better spent giving students opportunities to work with concepts over and over, in a variety of ways and with opportunities.

The central tenet of active learning — that practice and interaction matters — can be applied across disciplines for immediate feedback, so that knowledge can take hold in their own minds.

(Source: Preville, P. *Active Learning: The Perfect Pedagogy for the Digital Classroom: An Essential Guide for the Modern Professor*)

All faculty receive regular periodic and recurring pedagogical training during the academic year. Those training sessions occur in a hybrid format — simultaneously live online and live on-ground in the classroom. The sessions are designed to reach all faculty, both fulltime and adjunct, in order to ensure everyone receives the training. Additionally, the sessions are recorded for those faculty who are unable to attend the live training session due to other professional and teaching commitments.

b) The Learning Management System

The University's Department of Online Learning and Information Technology Division supports the online program needs of faculty and students. The Department of Online Learning and IT Help Desk provide 24-hour support to the faculty. Canvas is the University's online Learning Management System. When a new faculty member is assigned to teach an online course, the Department of Online Learning provides formal training for the instructor. New faculty are assigned an experienced faculty mentor to ensure a smooth transition to the online environment as well as to ensure compliance with the institution's online teaching pedagogy. The University believes this provides the highest-level learning experience for the faculty member and, in turn, students attending online classes.

c) Evidenced-based best practices for distance education, if distance education is offered.

Faculty at Capitol Technology University receive training in Keller's ARCS Motivational Model and his associated strategies for distance education/online learning.

A model used in the online delivery of teaching and learning to increase learner motivation is Keller's ARCS motivational model. This model has been considered an important element in online education because of its implications on increased learner motivation and learning outcomes. The Keller's model consists of motivating students by maintaining and eliciting attention (A), such as virtual clinical simulations; making the content and format relevant (R), by modeling enthusiasm or relating content to future use; facilitating student confidence (C), by providing "just the right challenge"; and promoting learner satisfaction (S), by providing reinforcement and praise when appropriate. Examples of Keller's model include increasing motivation including the arousal of curiosity of students, making the connection between learning objectives and future learning goals, autonomous thinking and learning, and fostering student satisfaction. Keller's ARCS model has been researched by various educational online programs to analyze student motivation and learning outcomes. Keller's model serves as an example and guide for instructors to motivate and increase online engagement with their students as wells as research purposes.

A qualitative study by Chan Lin investigated online student learning and motivation. Discussion boards, student projects, and reflection data were collected and analyzed from a 12-week web-based course. Respondents indicated the importance of online feedback from the instructor and peer modeling of course tasks to visualize learning progress. The study revealed using Keller's ARCS strategies fosters greater student online engagement by fostering self-efficacy and a sense of accomplishment.

In a mixed-method study, assessing the use of Keller's ARCS on instructional design, the use of educational scaffolding fostered positive levels of student motivation. Relevancy, attention, confidence, and satisfaction were all common factors associated with student success in the course and course completion.

(Source: Pinchevsky-Font T, Dunbar S. Best Practices for Online Teaching and Learning in Health Care Related Programs. The Internet Journal of Allied Health Sciences an Practice. January 2015. Volume 13 Number 1.)

All faculty receive regular periodic and recurring training on evidence-based practices for distance education/online learning during the academic year. Those training sessions occur in multiple formats: asynchronous, synchronous (i.e., live online), hybrid (i.e., simultaneously live online and live on-ground), and on-ground in the classroom. The sessions are designed to reach all faculty, both fulltime and adjunct, to ensure all members receive the training. Additionally, the live sessions are recorded for those faculty who are unable to attend the live training session due to other professional commitments or who are teaching classes at the training delivery time.

J. Adequacy of Library Resources (as outlined in COMAR 13B.02.03.12):

- 1. Describe the library resources available and/or the measures to be taken to ensure resources are adequate to support the proposed program. If the program is to be implemented within existing institutional resources, include a supportive statement by the President for library resources to meet the program's needs.**

Library Services: The Puente Library offers extensive services and a wide collection for Capitol Technology University students to be academically successful. Library resources are available digitally. The library also provides a mailing service for materials borrowed through the Maryland system.

The library is currently supporting the following degrees at the undergraduate level: B.S. in Astronautical Engineering, B.S. in Aviation Professional Pilot, B.S. in Computer Engineering, B.S. in Computer Technology, B.S. in Computer Science, B.S. in Construction Information Technology and Cybersecurity, B.S. in Construction Management and Critical Infrastructure, B.S. in Construction Safety, B.S. in Human Factors, B.S. in Cyber Analytics, B.S. in Cybersecurity, B.S. in Data Science, B.S. in Electrical Engineering, B.S. in Electrical, B.S. in Technology, B.S. in Facilities Management and Critical Infrastructure, B.S. in Information Technology, B.S. in Management of Cyber and Information Technology, B.S. in Mechatronics Engineering, B.S. in Mechatronics and Robotics, B.S. in Software Engineering, and B.S. in Technology and Business Management, B.S. in Unmanned and Autonomous Systems, and B.S. in Web Development.

The library is currently supporting the following degrees at the graduate level: Master of Business Administration (M.B.A.), Master of Science (M.S.) in Astronautical Engineering, M.S. in Aviation, M.S. in Aviation Cybersecurity, M.S. in Computer Science, M.S. in Construction Cybersecurity, M.S. in Construction Safety, M.S. in Critical Infrastructure, M.S. in Cyber Analytics, M.S. in Cybersecurity, M.S. in Information Systems Management, , M.S. in Internet Engineering, M.S. in Unmanned and Autonomous Systems Policy and Risk Management, Technical Master of Business Administration (T.M.B.A.) in Business Analytics and Data Science, and T.M.B.A. in Cybersecurity, Doctor of Science (D.Sc.) in Cybersecurity, Master of Research(M.Res.) in Artificial Intelligence, M.Res. in Aviation, M.Res. in Business Analytics and Data Sciences, M.Res. in Construction Science, M.Res. in Critical Infrastructure, M.Res. in Emergency and Protective Services, M.Res. in Human Factors, M.Res. in Manufacturing, M.Res. in Occupational Health and Safety, M.Res. in Product Management, M.Res. in Quantum Computing, M.Res. in Technology, M.Res. in Technology/M.S. Research Methods Combination Program, M.Res. in Unmanned Systems Applications.

Therefore, the library is fully prepared to support a **M.Res. in Construction Science and Management.**

Services provided to online students include:

- "Ask the Librarian"
- Research Guides
- Tutorials
- Videos
- Online borrowing

The John G. and Beverley A. Puente Library provides access to management, decision science, and research methods materials through its 10,000-title book collection, e-books, and its 90 journal subscriptions. The library will continue to purchase new and additional materials in the management, decision science, and research methods area to maintain a strong and current collection in the subject area. Students can also access materials through the library's participation in Maryland's Digital eLibrary Consortium. This online electronic service provides access to numerous databases (Access Science, NetLibrary) that supply students with the documents they need. Available databases include ProQuest, EBSCO, ACM, Lexis Nexis, Taylor Francis, and Sage Publications.

The Puente Library can provide access to historical management and decision science materials through its membership in the Maryland Independent College and University Association (MICUA) and the American Society of Engineering Education (ASEE). Reciprocal loan agreements with fellow members of these organizations provide the library access to numerous research facilities that house and maintain archives of management and decision science documents. The proximity of the University of Maryland, College Park, and other local area research and academic libraries provide the Puente Library with quick access to these materials as well.

The library currently supports the needs of students at the undergraduate, masters, and doctoral levels.

K. Adequacy of Physical Facilities, Infrastructure and Instructional Equipment (as outlined in COMAR 13B.02.03.13):

- 1. Provide an assurance that the physical facilities, infrastructure, and instruction equipment are adequate to initiate the program, particularly as related to spaces for classrooms, staff and faculty offices, and laboratories for studies in the technologies and sciences. If the program is to be implemented within existing institutional resources, include a supportive statement by the President regarding adequate equipment and facilities to meet the program's needs.**

No new facilities are required for the program. The online class platform is web-based and requires no additional equipment for the institution. The current Learning Management System, Canvas, and Zoom meet the needs of the degree program. The Business and Technology Lab, Computer Science Lab, Cyber Lab, Robotics Lab, and Unmanned Systems Lab meet the potential research needs of the students. The labs provide both local and virtual support.

- 2. Provide assurance and any appropriate evidence that the institution will ensure students enrolled in and faculty teaching in distance education will have adequate access to:**

a. An institutional electronic mailing system

Capitol Technology University provides an institutional electronic mailing system to all students and faculty. The University requires the use of the email system by all students and faculty in all the institution's modalities of course delivery. Capitol Technology University students and faculty are required to use the institution's email addresses (e.g., xxxxxxxx@captechu.edu) in all University matters and communications. The University uses the email capabilities in Microsoft Office 365 and Microsoft Outlook.

b. A Learning Management System that provides the necessary technological support for distance education

Capitol Technology University provides a robust Learning Management Systems (LMS) through the use of the Canvas LMS by Instructure (www.canvaslms.com). The University pairs Canvas with Zoom (zoom.us) to provide a platform for every student and faculty member to meet face-to-face in a synchronous "live" mode of communication. The University requires Canvas for every class; as a result, every course has a classroom on Canvas and Zoom. All syllabi, grades, and assignments must be entered into Canvas on a timely basis throughout the semester.

Canvas provides the world's most robust LMS. It is a 21st Century LMS; Canvas is a native cloud, Amazon Web Service hosted system. The system is adaptable, reliable, and customizable. Canvas is easy to use for students and faculty. The system is fully mobile and has proven to be timesaving when compared to other systems. The following list provides the features of the system:

Time and Effort Savings

- **CANVAS DATA**
Canvas Data parses and aggregates more than 280 million rows of Canvas usage data generated daily.
- **CANVAS COMMONS**
Canvas Commons makes sharing a whole lot easier.
- **SPEEDGRADER ANNOTATIONS**
Preview student submissions and provide feedback all in one frame.
- **GRAPHIC ANALYTICS REPORTING ENGINE**
Canvas Analytics helps you turn rich learner data into meaningful insights to improve teaching and learning.
- **INTEGRATED MEDIA RECORDER**
Record audio and video messages within Canvas.
- **OUTCOMES**
Connect each learning outcome to a specific goal, so results are demonstrated in clearly measurable ways.
- **MOBILE ANNOTATION**

- Open, annotate, and submit assignments directly within the Canvas mobile app.
- **AUTOMATED TASKS**
Course management is fast and easy with automated tasks.
- **NOTIFICATION PREFERENCES**
Receive course updates when and where you want - by email, text message, even Twitter or LinkedIn.
- **EASE OF USE**
A familiar, intuitive interface means most users already have the skills they need to navigate, learn, and use Canvas.
- **IOS AND ANDROID**
Engage students in learning anytime, anywhere from any computer or mobile device with a Web-standard browser.
- **USER-CUSTOMIZABLE NAVIGATION**
Canvas intelligently adds course navigation links as teachers create courses.
- **RSS SUPPORT**
Pull feeds from external sites into courses and push out secure feeds for all course activities.
- **DOWNLOAD AND UPLOAD FILES**
Work in Canvas or work offline—it's up to you.
- **SPEEDGRADER**
Grade assignments in half the time.

Student Engagement

- **ROBUST COURSE NOTIFICATIONS**
Receive course updates when and where you want—by email, text message, and even Facebook.
- **PROFILE**
Introduce yourself to classmates with a Canvas profile.
- **AUDIO AND VIDEO MESSAGES**
Give better feedback and help students feel more connected with audio and video messages.
- **MULTIMEDIA INTEGRATIONS**
Insert audio, video, text, images, and more at every learning contact point.
- **EMPOWER GROUPS WITH COLLABORATIVE WORKSPACES**
By using the right technologies in the right ways, Canvas makes working together easier than ever.
- **MOBILE**
Engage students in learning anytime, anywhere from iOS or Android, or any mobile device with a Web-standard browser.

- **TURN STUDENTS INTO CREATORS**
Students can create and share audio, video, and more within assignments, discussions, and collaborative workspaces.
- **WEB CONFERENCING**
Engage in synchronous online communication.
- **OPEN API**
With its open API, Canvas easily integrates with your IT ecosystem.
- **BROWSER SUPPORT**
Connect to Canvas from any Web-standard browser.
- **LTI INTEGRATIONS**
Use the tools you want with LTI integrations.
- **MODERN WEB STANDARDS**
Canvas is built using the same Web technologies that power sites like Google, Facebook, and Twitter.

Lossless Learning

- **CANVAS POLLS**
Gauge comprehension and incorporate formative assessment without the need for "clicker" devices.
- **MAGICMARKER**
Track in real-time how students are performing and demonstrating their learning.
- **QUIZ STATS**
Analyze and improve individual assessments and quiz questions.
- **LEARNING MASTERY FOR STUDENTS**
Empower students to take control of their learning.

(Source: <https://www.canvaslms.com/higher-education/features>)

Capitol Technology University has been using Canvas for over five years. Canvas has proven to be a wholly reliable LMS system that provides the necessary technological support for distance education/online learning.

L. Adequacy of Financial Resources with Documentation (as outlined in COMAR 13B.02.03.14):

1. Table 1: Resources.

TABLE 1: RESOURCES

Resource Categories	Year 1	Year 2	Year 3	Year 4	Year 5
1. Reallocated Funds	\$0	\$0	\$0	\$0	\$0
2. Tuition/Fee Revenue (c + g below)	\$23,940	\$49,104	\$75,492	\$103,248	\$132,300
a. Number of F/T Students	0	0	0	0	0

b. Annual tuition/Fee rate	\$0	\$0	\$0	\$0	\$0
c. Total F/T Revenue (a x b)	\$0	\$0	\$0	\$0	\$0
d. Number of P/T Students	2	4	6	8	10
e. Credit Hour Rate	\$665	\$682	\$699	\$717	\$735
f. Annual Credit Hour	18	18	18	18	18
g. Total P/T Revenue (d x e x f)	\$23,940	\$49,104	\$75,492	\$103,248	\$132,300
3. Grants, Contracts and Other External Sources	0	0	0	0	0
4. Other Sources	0	0	0	0	0
TOTAL (Add 1 – 4)	\$23,940	\$49,104	\$75,492	\$103,248	\$132,300

A. Provide a narrative rationale for each of the resource categories. If resources have been or will be reallocated to support the proposed program, briefly discuss those funds.

1. Reallocated Funds

The University will not need to reallocate funds for the program.

2. Tuition and Fee Revenue

Tuition is calculated to include an annual 2.5% tuition increase. A 20% attrition rate has been calculated.

3. Grants and Contracts

There are currently no grants or contracts.

4. Other Sources

There are currently no other sources of funds.

5. Total Year

No additional explanation or comments needed.

2. Table 2: Program Expenditures.

TABLE 2: EXPENDITURES

Expenditure Category	Year 1	Year 2	Year 3	Year 4	Year 5
1. Faculty (b + c below)	\$6,000	\$12,000	\$18,000	\$24,000	\$30,000
a. #FTE	1	1	1	1	1
b. Total Salary (\$1000/semester/student)	\$6,000	\$12,000	\$18,000	\$24,000	\$30,000
c. Total Benefits (20% of salaries) No Benefits	\$0	\$0	\$0	\$0	\$0
2. Admin Staff (b + c below)	\$960	\$989	\$1,017	\$1,047	\$1,078
a. #FTE	.01	.01	.01	.01	.01
b. Total Salary	\$800	\$824	\$848	\$873	\$899
c. Total Benefits	\$160	\$165	\$169	\$174	\$179
3. Support Staff (b + c below)	\$780	\$802	\$826	\$850	\$875
a. #FTE	.01	.01	.01	.01	.01
b. Total Salary	\$650	\$669	\$689	\$708	\$729
c. Total Benefits	\$130	\$133	\$137	\$142	\$146
4. Technical Support and Equipment	\$500	\$515	\$530	\$545	\$561
5. Library	\$0	\$0	\$0	\$0	\$0
6. New or Renovated Space	\$0	\$0	\$0	\$0	\$0
7. Other Expenses	\$0	\$0	\$0	\$0	\$0
TOTAL (ADD 1-7)	\$8,240	\$14,306	\$20,373	\$26,442	\$32,514

A. Provide a narrative rationale for each expenditure category. If expenditures have been or will be reallocated to support the proposed program, briefly discuss those funds.

a. Faculty

Table 2 reflects the faculty hours in total, but this does not necessarily imply that these are new hire requirements.

b. Administrative Staff

Capitol Technology University will continue with current the administrative staff through the proposed time period.

c. Support Staff

Capitol Technology University will add additional support staff to facilitate the program.

d. Equipment

Software for courses is available free to students or is freeware. Additional licenses for the LMS will be purchased by the University at the rate of \$70 per student in Year 1. The rate is estimated to increase by \$5 per year.

e. Library

Money has been allocated for additional materials to be added to the on-campus and virtual libraries to ensure the literature remains current and relevant. However, it has been determined that the current material serves the needs of this degree due to the extensive online database.

f. New or Renovated Space

No new or renovated space is required.

g. Other Expenses

Funds have been allocated for office materials, travel, professional development, course development, marketing, and additional scholarships.

h. Total Year

No additional explanation or comments needed.

M. Adequacy of Provisions for Evaluation of Program (as outlined in COMAR 13B.02.03.15):

1. Discuss procedures for evaluating courses, faculty and student learning outcomes.

The assessment process at the University consists of a series of events throughout the Academic Year. The results of each event are gathered by the University Assessment Team and stored in Canvas for analysis and use in annual reports, assessments, etc. The University Assessment Team analyzes the results, develops any necessary action plans, and monitors the implementation of the action plans.

Academic Year Assessment Events:

Fall Semester:

- At the August Faculty Retreat, the faculty reviews any outstanding student learning challenges that have not been adequately addressed. The issues are brought to the Academic Dean for review and development of implementation plans.
- Faculty submit performance plans consistent with the mission and goals of the University and department. The documents are reviewed and approved by the Academic Dean.
- Department Chairs and Academic Dean review the Graduating Student Survey data.
- Department Chairs and Academic Dean review student internship evaluations.
- Department Chairs and Academic Dean review grade distribution reports from the spring and summer semesters.
- Department Chairs and Academic Dean review student course evaluations from the Summer Semester.
- Departments conduct Industrial Advisory Board meetings to review academic curriculum recommendations. The Advisory Board meets to begin curriculum review or address special

issues that may arise related to the curriculum. Based on an analysis and evaluation of the results, the Academic Dean, faculty, and the advisory boards will develop the most effective strategy to move the changes forward.

- NOTE: A complete curriculum review for degrees occurs every two years. In most cases, the changes only require that the Academic Dean inform the Vice President of Academic Affairs and University President and provide a report that includes a justification and the impact of the changes as well as a strategic plan. Significant changes typically require the approval of the Executive Council.
- The Academic Dean attend the Student Town Hall and review student feedback with Department Chairs.
- Department Chairs conduct interviews with potential employers at our Career Fair.
- Post-residency, the Academic Dean meet with the faculty to review the student learning progress and discuss needed changes.

Spring Semester:

- Faculty Performance Plans are reviewed with faculty to identify issues of divergence and to adjust the plan as needed.
- Department Chairs and Academic Dean review grade distribution reports from the Fall Semester.
- Department Chairs and Academic Dean review the Graduating Student Survey data.
- Department Chairs and Academic Dean review student course evaluations from the Fall Semester and the Spring Semester (in May before the Summer Semester begins).
- Department Chairs and Academic Dean meet to review the content of the graduating student, alumni, and course surveys to ensure the surveys continue to meet the university's assessment needs.
- At the Annual Faculty Summit in May, the faculty review and discuss student learning challenges from the past academic year and provide recommendations to the Academic Dean. The results also lead to implementation plans for improvement.
- Department Chairs conduct interviews with potential employers at our Career Fair.
- Departments conduct Industrial Advisory Board meetings to review academic curriculum recommendations.

In addition to these summative assessments, the Academic Dean meet with the Department Chairs every week to review current student progress. This formative assessment allows for immediate minor changes, which increase faculty effectiveness and, ultimately, student outcomes.

The Faculty Senate meets monthly from August through April. The Faculty Senate addresses issues that impact student outcomes as those issues emerge. The leadership of the Faculty Senate then provides a report on the matter to the Academic Dean. The report may include a recommendation or a request to move forward with a committee to examine the issue further. In most cases, the changes only require the Academic Dean to inform the Vice President of Academic Affairs and University President and provide a report that includes a justification and the impact of changes as well as a strategic plan. Significant changes typically require the approval of the Executive Council.

2. Explain how the institution will evaluate the proposed program's educational effectiveness, including assessments of student learning outcomes, student retention, student and faculty

satisfaction, and cost-effectiveness.

Student Learning Outcomes:

Student learning outcomes for the proposed **M.Res. in Healthcare Informatics** will be measured using the instruments identified in Section G and Section M as well as the assessment measures dictated by the accreditation requirements of the University's regional accreditor [i.e., Middle States Commission in Higher Education (MSCHE)]. This program is designed to meet the requirements of MSCHE. The University will also evaluate student achievement of the learning outcomes using the UK Quality Assurance Agency for Higher Education (QAA) Framework for Higher Education Qualifications and its related assessment tools. The University is in good standing with all its accrediting bodies.

Student Retention:

The University maintains a comprehensive student retention program under the Vice President for Student Engagement. The program assesses student retention at all levels, including individual courses, majors, and degrees. During the semester and term, the University's Drop-Out Detective capability, within its Learning Management System (i.e., Canvas), provides an early alert at the course level to potential issues related to retention. Within the Office of Student Life, Academic Advisors monitor Drop-Out Detective and contact students who appear to be experiencing difficulties with their academic performance. The Academic Advisors work with each student to create a plan to remove any barriers to success. The Academic Advisors also work with the course instructors as needed to gain additional insight that may help correct the situation.

Each student also meets with their Academic Advisor each semester to evaluate their progress toward degree completion. An updated plan of action is developed for each student for their next semester's registration and each following semester through degree completion.

The Vice President for Student Engagement also meets regularly with the Vice President of Academic Affairs and Academic Dean to review student retention within each degree program and address any issues that appear to be impediments to degree completion.

Student and Faculty Satisfaction:

Evaluations and assessment of Student and Faculty satisfaction occur every semester. Faculty members are evaluated every semester by students enrolled in their courses. Students are required to complete a course evaluation online within a specified time frame at the end of the semester for every enrolled course, or they are locked out of Canvas (the University's Learning Management System) until they complete each survey. Every faculty member is also required to review each of their courses after each semester; the goal is to ensure up-to-date content, effective and efficient methods of delivery, and appropriate outcomes.

The Department Chairs and Academic Dean review the student evaluations for every course offered at the University. The Department Chairs and Academic Dean also review faculty satisfaction every semester. If changes are needed at the course level, the changes are developed and implemented by the faculty upon approval of the Department Chairs and Academic Dean. If changes are required at the faculty level, the Department Chairs will make the changes. At the end of the following semester, appropriate stakeholders analyze the results of a follow-on evaluation for the effectiveness of the changes. This cycle is an ongoing process.

Cost Effectiveness:

Based on the year-long inputs, evaluations, and reviews described in Section M.1, the Department Chairs and Academic Dean prepare the proposed academic budget for each program for the upcoming year. Budget increases are tied to increasing student learning and performance as well as critical strategic initiatives.

The Interim Vice President of Finance and Administration also monitors each academic program throughout every semester and term for its cost-effectiveness. Additionally, the revenue and costs of every University program are reviewed annually by the Executive Council and Board of Trustees before approving the next year's budget.

N. Consistency with the State's Minority Student Achievement goals (as outlined in COMAR 13B.02.03.05 and the State Plan for Post-Secondary Education):

- 1. Discuss how the proposed program addresses minority student access & success, and the institution's cultural diversity goals and initiatives.**

Capitol Technology University is a majority-minority school. Our programs attract a diverse set of students who are multiethnic and multicultural. The University actively recruits minority populations for all undergraduate and graduate-level degrees. Special attention is also provided to recruit females into the STEM and multidisciplinary programs at all degree levels – undergraduate, master's, and doctoral. The University will use the same approach for the **M.Res. in Healthcare Informatics**.

O. Relationship to Low Productivity Programs Identified by the Commission:

- 1. If the proposed program is directly related to an identified low productivity program, discuss how the fiscal resources (including faculty, administration, library resources, and general operating expenses) may be redistributed to this program.**

This program is not associated with a low productivity program identified by the Commission.

P. Adequacy of Distance Education Programs (as outlined in COMAR 13B.02.03.22)

- 1. Provide affirmation and any appropriate evidence that the institution is eligible to provide Distance Education.**

Capitol Technology University is fully eligible to provide distance education. The University has a long history of providing high-quality distance education. The University is accredited regionally by the Middle States Commission in Higher Education (MSCHE) and through four specialized accrediting organizations: International Accreditation Council of Business Education (IACBE), Accreditation Board for Engineering and Technology (ABET), NSA, and DHS. All five accrediting organizations have reviewed the University's distance education program as part of their accreditation process. Capitol Technology University is fully accredited by MSCHE, IACBE, ABET, NSA, and DHS. The University is in good standing with all its accrediting bodies.

- 2. Provide assurance and any appropriate evidence that the institution complies with the C-RAC guidelines, particularly as it relates to the proposed program.**

Capitol Technology University has a long history of providing high-quality distance education/online learning that complies with the Council of Regional Accrediting Commissions (C-RAC) Interregional Guidelines for the Evaluation of Distance Education. The University will also continue to abide by the C-RAC guidelines with the proposed **M.Res. in Healthcare Informatics**.

a. Council of Regional Accrediting Commissions (C-RAC) Interregional Guidelines for the Evaluation of Distance Education.

1. Online learning is appropriate to the institution's mission and purposes.

Online learning is consistent with the institution's mission, purpose, and history. Please refer to Section A of this proposal.

2. The institution's plans for developing, sustaining, and, if appropriate, expanding online learning offerings are integrated into its regular planning and evaluation processes.

All programs at the University – online, hybrid, and on-ground – are subject to the same regular planning, assessment, and evaluation processes. Please see Section M of this proposal for the detailed process.

3. Online learning is incorporated into the institution's systems of governance and academic oversight.

All programs at the University – online, hybrid, and on-ground – are subject to the same regular planning, assessment, and evaluation processes. Please see Section M of this proposal for the detailed process.

4. Curricula for the institution's online learning offerings are coherent, cohesive, and comparable in academic rigor to programs offered in traditional instructional formats.

Online programs/courses meet the same accreditation standards, goals, objectives, and outcomes as traditional instruction at the University. The online course development process incorporated the Quality Matters research-based set of standards for quality online course design to ensure academic rigor of the online course is comparable to the traditionally offered course. The University Academic Dean, chairs, and faculty review curriculum annually. Courses are reviewed at the end of each term of course delivery. This process applies to online and traditional classes. In addition, advisory boards are engaged in the monitoring of course quality to ensure quality standards are met regardless of the delivery platform.

5. The institution evaluates the effectiveness of its online learning offerings, including the extent to which the online learning goals are achieved, and uses the results of its evaluations to enhance the attainment of the goals.

Online programs/courses meet the same accreditation standards, goals, objectives, and outcomes as traditional classroom delivery. The University selects the learning platforms

to ensure the high standards of the technical elements of each course. The Academic Dean monitor any course conversion from in-class to online to ensure the online course is academically equivalent to the traditionally offered course and that the technology is appropriate to support the expected rigor and breadth of the course.

Faculty responsible for delivering the online learning curricula and evaluating the students' success in achieving the online learning goals are appropriately qualified and effectively supported.

The Graduate School, where this degree will be sponsored, is staffed by a qualified University Academic Dean, Dr. Chris Linski. Other appropriately credentialed faculty with multi-disciplinary level skills will be part of the delivery process.

The evaluation of the courses in the program will be done using the same processes as all other programs at the University. (Please see Section M.) All Capitol Technology University faculty teach in the traditional classroom environment and online. (Please see faculty qualifications in Section I of this document.)

7. The institution provides effective student and academic services to support students enrolled in online learning offerings.

Students can receive assistance in using online learning technology via several avenues. Student aides are available to meet with students and provide tutoring support in both subject matter and use of the technology. Tutors are available in live real-time sessions using Zoom or other agreed-upon tools. Pre-recorded online tutorials are also available.

In addition to faculty support, on-ground and online tutoring services are available to students in a one-on-one environment.

Library services and resources are appropriate and adequate. Please refer to Section J of this document and the attached letter from the University President. The library adequately supports the students learning needs.

8. The institution provides sufficient resources to support and, if appropriate, expand its online learning offerings.

The University has made the financial commitment to the program (please refer to Section L). The University has a proven record of accomplishment in supporting degree completion.

9. The institution assures the integrity of its online offerings.

Current faculty serve on internal advisory boards that examine possible for program changes, including course and program development. All faculty are selected on domain expertise and program-related teaching experience.

When new faculty or outside consults are necessary for the design of courses offered, the University's Human Resource Department initiates a rigorous search and screening process to identify appropriate faculty to design and teach online courses. Again, all faculty are selected on domain expertise and program-related teaching experience

The University online platforms offer several avenues to support instructors engaged in online learning. The Director of Online Learning Division is highly skilled and trained in faculty development. Several seminars and online tutorials are available to the faculty every year. Mentors are assigned to new faculty. Best practice sharing is facilitated through the Academic Dean, Department Chairs, and formal meetings.

The assessment for online learning classes/students is the same as for all academic programs at the University. Faculty provide required data on student achievement. The Learning Management System includes data on student achievement. Proof of these assessments is available during the class and following class completion to the Academic Dean and Department Chairs. On an annual basis, the information is reported to the University's accreditation authorities such as MSCHE and NSA/DHS.