

VIRGINIA COMMONWEALTH UNIVERSITY BOARD OF VISITORS ACADEMIC AND HEALTH AFFAIRS COMMITTEE December 7, 2023 VCU James Branch Cabell Library 907 Floyd Ave. Room 303 RICHMOND, VIRGINIA

MINUTES

DRAFT

COMMITTEE MEMBERS PRESENT

Dr. Tonya Parris-Wilkins, *Chair* Dr. Dale Jones, *Vice Chair* Mr. Steve DeLuca Ambassador Carmen Lomellin Mr. Keith Parker Dr. Clifton Peay Mr. P2 Sandhu

COMMITTEE MEMBERS NOT PRESENT

Ms. Rooz Dadabhoy

OTHERS PRESENT

Dr. Michael Rao, President
Dr. Fotis Sotiropoulos, Provost and Senior Vice President for Academic Affairs
Dr. Marlon Levy, Interim Senior Vice President for Health Sciences and Interim CEO of the VCUHS
Dr. Aaron Hart, Vice President for Student Affairs
Dr. Hernan Bucheli, Interim Vice President for Strategic Enrollment Management and Student Success
Dr. Srirama Rao, Vice President for Research and Innovation
Ms. Jamie Stillman, Executive Director of Academic Operations, Office of the Provost
Members of the VCU Board of Visitors
Presidential Cabinet of VCU
VCU students, faculty and staff
Members of the media

CALL TO ORDER

Dr. Tonya Parris-Wilkins, Chair of the Academic and Health Affairs Committee, called the meeting to order at 3:10 p.m. The public was able to view the open session of the meeting via livestream at <u>https://mssvideo.vcu.edu/BOV</u>.

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ACTION ITEMS

Dr. Parris-Wilkins began by asking the committee to consider approving two items that were provided in advance for review: the September 14, 2023 committee meeting minutes and the proposals to create five academic programs: a bachelor of science degree program in supply chain management in the School of Business; both a bachelor of science degree program and a master of science degree program in digital forensics and incident response in the College of Humanities and Sciences; a master of science degree program in data science in the College of Humanities and Sciences; and a bachelor of arts degree program in computer science in the College of Engineering. On a motion duly made and seconded, each of the two items were approved. The meeting minutes are posted at https://bov.vcu.edu/meetings/minutes/. The five program proposal briefs are attached hereto as *Attachment A* and is made a part hereof.

REPORTS

- Dr. Fotis Sotiropoulos, provost and senior vice president for academic affairs, provided a report on the university's progress toward its 10-year reaccreditation by the Southern Association of Colleges and Schools Commission on Colleges, which is more commonly called SACSCOC. The university will host a site visit in February. The SACSCOC Board of Trustees will make the final accreditation decision in June 2024. A copy of the presentation slides is attached hereto as *Attachment B* and is made a part hereof.
- Dr. Marlon Levy, interim senior vice president for health sciences and interim CEO of VCU Health provided updates for each of the six health sciences schools. He also noted recent, outstanding accomplishments of three faculty members: **Dr. Alice Coombs**, chair of the Department of Anesthesia in the School of Medicine, was became the first Black female president of the Medical Society of Virginia and the first person ever to serve as president of two state medical societies, having served previously as the president of the Massachusetts Medical Society; **Dr. Ken Kendler**, professor of clinical psychiatry in the School of Medicine, achieved the No. 1 lifetime ranking from ScholarGPS, which analyzes researchers and their publications based on productivity, impact and quality; and **Dr. Curt Sessler**, professor of internal medicine in the School of Medicine, was named VCU Innovator of the Year for inventing the Richmond Agitation Sedation Scale (RASS), which is the "world standard" for ICU patient comfort. A copy of the presentation slides is attached hereto as *Attachment C* and is made a part hereof.
- Dr. Srirama Rao, vice president for research and innovation, provided an update on technology commercialization and economic development at VCU, including an overview of the significant impact of VCU innovation over the past decade including the current fiscal year. Dr. S. Rao reported that as VCU innovations are brought to the marketplace, they are contributing to the prosperity of the Commonwealth and improving lives. VCU has licensed its technologies to major corporations, new ventures and startups including those led by VCU faculty, and those licensed technologies are generating significant revenue. The TechTransfer and Ventures team in the Office of Vice President for Research and Innovation provides multifaceted startup and new venture support including an entrepreneur in residence program. VCU works with several entrepreneur

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support organizations in this process, including Activation Capital. The committee was pleased to hear from their president and CEO, Chandra Briggman. Ms. Briggman reviewed the pillars of Activation Capital's mission in growing the regional innovation economy: ecosystem development, space making and entrepreneur development. A copy of the presentation slides is attached hereto as *Attachment D* and is made a part hereof.

ADJOURNMENT

There being no further business, Dr. Parris-Wilkins adjourned the meeting at 4:21 p.m.

Attachment A

Virginia Commonwealth University Proposed Program Brief Proposal to create a Bachelor of Science degree program in Supply Chain Management

Overview

Virginia Commonwealth University seeks approval for a Bachelor of Science (B.S.) degree program in Supply Chain Management at the Monroe Park Campus in Richmond, VA. The proposed program will be administered by the Department of Supply Chain Management and Analytics in the School of Business.

The purpose of the proposed program is to equip students with the necessary skills to assume roles as supply chain managers within both public and private sector organizations. The proposed degree program will provide students with a comprehensive understanding of the managerial principles and quantitative methods necessary for improving the efficiency and responsiveness of an organization's supply chain. Students will learn to effectively analyze information and data in order to address the complex challenges presented by modern, global supply chains. Through experiential learning opportunities, students will be exposed to techniques that support sound decision making in areas such as sourcing, logistics and distribution, sustainability, process management, quality management, forecasting, and inventory management. Students of the proposed program will gain an ability to work across diverse populations, navigate cultural differences, and incorporate people from different socioeconomic backgrounds in their roles as supply chain managers. Graduates of the proposed degree program will be well-prepared for a wide range of supply chain vocations, including procurement, logistics and distribution planning, sustainability, vendor management, and quality management.

Delivery Format

The proposed program will be offered in a face-to-face delivery format.

Target Implementation Date

Fall 2024

Demand and Workforce Development

The Bureau of Labor Statistics (BLS) and the Virginia Economic Commission (VEC) do not currently report employment projections under the title of "supply chain manager". Instead, they report projections for various career paths that fall under the broader domain of supply chain management. Projected growth rate for occupation such as logisticians, which falls under the broader supply chain management domain, is 29% over the next 10 years.

External Competition

Virginia Commonwealth University would be the first public institution in Virginia to offer a dedicated B.S. degree program in Supply Chain Management. No other public institution in the Commonwealth offers such a program.

Target Population

All interested undergraduate students will be encouraged to consider the major. Of particular interest are students enrolled in a supply chain management concentration currently offered at

VCU and in-state students interested in supply chain management but who would need to attend out-of-state schools due to lack of available in-state options.

Impact on Existing Programs

The proposed B.S. in Supply Chain Management will not compromise any existing degree programs at Virginia Commonwealth University. No degree programs will close as a result of the initiation and operation of the proposed degree program.

Impact on Faculty

The Supply Chain Management and Analytics (SCMA) department has 10 full-time faculty, six tenured and four non-tenure (term) faculty, all of which will teach coursework throughout the proposed program. As part of the School of Business core requirement, the Department of Economics, the Department of Information Systems, the Department of Accounting, the Department of Finance, the Department of Marketing, and the Department of Management will be impacted.

Funding

The proposed program will require 5.75 FTE faculty instructional effort in the initiation year, rising to 7.25 FTEs by the target year 2028-29. The Department of Supply Chain Management and Analytics in the School of Business will be the primary funding source to initiate and sustain the proposed degree program. The program will be supported by resources already in place to sustain existing academic programs, including student support services (enrollment services, library support, and career services) and faculty support services.

Alignment with the VCU Mission

The proposed program aligns with the institution's mission. The curriculum emphasizes "realworld learning" where actual industry problems related to supply chain management are integrated throughout the coursework. Because supply chain management involves integrating the supply and demand sides of an organization, the proposed program will train students on effectively managing "interdisciplinary collaborations" with other fields such as marketing, finance, and operations management. The proposed program will emphasize the global nature of modern supply chains, teaching students how to incorporate the "diversity, inclusion and equity" of the many cultural, socioeconomic, and ethnic backgrounds found across the globe. Finally, the proposed program will train students on solutions to one of "society's most complex challenges": global supply chain management.

<u>Next Steps</u>

- October 26 University Committee on Academic Affairs (UC-AA) Meeting
- November 2 University Council (UC) Meeting
- November 6 President's Cabinet
- December 8 Board of Visitor's Meeting (BOV)

Virginia Commonwealth University Proposed Program Brief Proposal to create a Bachelor of Science degree program in Digital Forensics and Incident Response

Overview

Virginia Commonwealth University seeks approval for a Bachelor of Science (B.S.) degree program in Digital Forensics and Incident Response at the Monroe Park Campus in Richmond, VA. The proposed program will be administered by the Department of Forensic Science in the College of Humanities and Sciences.

The purpose of the proposed B.S. degree program is to equip students with the necessary knowledge and skills to effectively collect, analyze, and preserve a variety of digital evidence for forensic purposes, as well as identify, combat, and respond to threats and/or attacks. The degree program will prepare students for a wide range of positions, such as digital forensic examiners, computer forensic analysts, cyber forensic investigators, cyber incident responders, and security and threat assessment analysts. Through experiential learning, the program will expose students to a variety of operating systems, platforms, devices, and malware. The proposed program will address other professional responsibilities of a forensic examiner, including ethical concerns, report writing, and expert testimony. Graduates will be prepared to work in law enforcement agencies, federal government agencies (e.g., Federal Bureau of Investigation, Drug Enforcement Agency, Homeland Security, etc.), private cyber forensic companies, and counterintelligence or counterterrorism incident response that involves any digital media. Graduates will be capable of: securing forensic digital evidence and responding to live attacks; analyzing a variety of evidence; and troubleshooting challenging situations based on the needs of the client.

Delivery Format

The proposed program will be offered in a face-to-face delivery format.

Target Implementation Date

Fall 2024

Demand and Workforce Development

The Bureau of Labor Statistics (BLS) does not have data or a job category for "Digital Forensics" or "Incident Response" fields. The closest occupations to "Digital Forensics and Incident Response" with data and listed in the BLS are "forensic science technician" and "information security analyst". The occupational fields closely related to digital forensics and incident response are expected to grow at a rate of 11-35% over the next 10 years.

External Competition

Virginia Commonwealth University would be the first public institution in Virginia to offer a B.S. degree in Digital Forensics and Incident Response. No similar degree program exists.

Target Population

All interested undergraduate students will be encouraged to consider the major. The intended target audience for the program includes individuals interested in careers as digital forensic

examiners, computer forensic analysts, cyber forensic investigators, cyber incident responders, and security and threat assessment analysts.

Impact on Existing Programs

The proposed B.S. in Digital Forensics and Incident Response will not compromise any existing degree program at Virginia Commonwealth University. No degree programs will close as a result of the initiation and operation of the proposed degree program.

Impact on Faculty

The Department of Forensic Science has 11 full-time faculty (11 FTEs). Five (5) of these faculty will teach core courses for the proposed B.S. in Digital Forensics and Incident Response. Five (5) faculty members in the Department of Computer Science will teach core computer science courses for the proposed degree program.

Funding

The proposed degree program will require approximately 1.25 FTE of instructional effort to initiate, rising to approximately 4 FTE by the target year 2028-2029. Two (2.0) FTE new faculty members will be hired for the proposed program, one in 2025-26 and one in 2028-29. The Department of Forensic Science in the College of Humanities and Sciences will be the primary funding source to initiate and sustain the proposed degree program. The program will be supported by resources already in place to sustain existing academic programs, including student support services (enrollment services, library support, and career services) and faculty support services.

Alignment with the VCU Mission

The proposed B.S. in Digital Forensics and Incident Response aligns with the institution's mission. The proposed degree is "interdisciplinary", with emphasis on core coursework in computer and forensic science. Through hands-on, laboratory-based specialized courses, the curriculum emphasizes "real-world learning," equipping students with the skills to effectively employ innovative technology and software in delivering investigative information to the criminal and social justice systems. The degree program will advance VCU's mission of helping "solve society's most complex challenges" and will assist in bringing an objective and scientific eye to a system that is often wrought with social, cultural, and economic biases.

Next Steps

- October 26 University Committee on Academic Affairs (UC-AA) Meeting
- November 2 University Council (UC) Meeting
- November 6 President's Cabinet
- December 8 Board of Visitor's Meeting (BOV)

Virginia Commonwealth University Proposed Program Brief Proposal to create a Master of Science degree program in Digital Forensics & Incident Response

Overview

Virginia Commonwealth University seeks approval for a Master of Science (M.S.) degree program in Digital Forensics and Incident Response at the Monroe Park Campus in Richmond, VA. The proposed program will be administered by the Department of Forensic Science in the College of Humanities and Sciences.

The purpose of the proposed M.S. in Digital Forensics & Incident Response degree program is to equip students with the necessary knowledge and skill set to effectively collect, analyze, and preserve a variety of digital evidence for forensic purposes, as well as identify, combat, and respond to network and cloud-based threats and/or attacks. The degree program will prepare students for a wide range of jobs, such as digital forensic examiners/analysts, computer forensic examiners/analysts, cyber forensic analysts/investigators, incident responders, security and threat assessment analysts, etc. Graduates will be prepared to work in law enforcement agencies, federal government agencies (e.g., Federal Bureau of Investigation, Drug Enforcement Agency, Homeland Security, etc.), private digital/computer/cyber forensic companies, additional counterintelligence / counterterrorism agencies, etc. Through experiential learning, the degree program will expose students to accessing and preserving evidence from a variety of operating systems, platforms, mobile devices, and malware. They will perform independent research in the field of Digital Forensics and/or Incident Response, extract data from and build case files from complex mock evidence, and be able to evaluate the use, potential and limitations of digital forensic laboratory techniques. Graduates of the proposed program will graduate with industryrelevant certifications specific to digital forensics data recovery.

Delivery Format

The proposed program will be offered in a face-to-face delivery format.

Target Implementation Date

Fall 2024

Demand and Workforce Development

The Bureau of Labor Statistics (BLS) does not have data or a job category for "Digital Forensics" or "Incident Response" fields. The closest occupations to "Digital Forensics and Incident Response" with data and listed in the BLS are "forensic science technician" and "information security analyst". The occupational fields closely related to digital forensics and incident response are expected to grow at a rate of 11-35% over the next 10 years.

External Competition

One public institution in Virginia offers a degree program similar or related to the proposed M.S. in Digital Forensics and Incident Response: George Mason University.

Target Population

The intended target audience for the program is individuals interested in a broad range of careers such as digital forensic examiners/analysts, computer forensic examiners/analysts, cyber forensic analysts/investigators, incident responders, security and threat assessment analysts.

Impact on Existing Programs

The proposed M.S. in Digital Forensics and Incident Response will not compromise any existing degree program at Virginia Commonwealth University. No degree programs will close as a result of the initiation and operation of the proposed degree program.

Impact on Faculty

The Department of Forensic Science at VCU has 11 existing full-time faculty positions (11 FTEs). These faculty will be involved with teaching core and other required forensic science courses in the proposed M.S. degree program.

Funding

The proposed degree program will therefore require approximately 0.67 FTE of instructional effort to initiate, rising to approximately 1.84 FTE by the target year 2028-2029. The dean of the College of Humanities and Sciences has committed resources for two (2) additional faculty members (2.0 FTE); one will be available to teach in the proposed B.S. in Digital Forensics and Incident Response degree program beginning in fall 2025 and the other fall of 2028 after enrollment targets are met. The program will be supported by resources already in place to sustain existing academic programs, including student support services (enrollment services, library support, and career services) and faculty support services.

Alignment with the VCU Mission

The proposed M.S. in Digital Forensics & Incident Response aligns well with VCU's mission. With a significant number of hands-on, laboratory-based specialized courses, the curriculum will focus on "real-world learning", teaching students how to use innovative technology and software to provide investigative information to the criminal and social justice systems. The program will advance VCU's mission of helping "solve society's most complex challenges" and will assist in bringing an objective and scientific eye to a system that is often wrought with social, cultural, and economic biases. Our curriculum features full-time faculty experts as well as part-time faculty with digital forensics expertise from across the state to provide our students with unique transdisciplinary and "interdisciplinary collaborations and community partnerships".

<u>Next Steps</u>

- October 26 University Committee on Academic Affairs (UC-AA) Meeting
- November 2 University Council (UC) Meeting
- November 6 President's Cabinet
- December 8 Board of Visitor's Meeting (BOV)

Virginia Commonwealth University Proposed Program Brief Proposal to create a Master of Science degree program in Data Science

Overview

Virginia Commonwealth University seeks approval for a Master of Science (M.S.) degree program in Data Science at the Monroe Park Campus in Richmond, VA. The proposed degree program will be jointly administered by the Department of Computer Science in the College of Engineering and the Department of Statistical Sciences & Operations Research in the College of Humanities & Sciences.

The purpose of the proposed MS in Data Science degree program is to educate students with the advanced knowledge, skills, and tools necessary to analyze and interpret complex data and help solve real-world problems. Data science is an interdisciplinary field that combines expertise in statistics, computer science, and domain-specific knowledge to extract valuable insights and knowledge from data. The proposed degree program will prepare students to excel in using data to drive data-driven decision-making in various industries and domains. An MS in Data Science prepares students to work as data analysts, data scientists, machine learning engineers, data engineers, business analysts, research scientists, data consultants, etc. They may also specialize in specific domains like healthcare or biomedical data analysis and can find opportunities in government, startups, academia, and industry research. The program will address various specific needs and issues in today's data-driven world. It tackles a growing demand for data experts and by combining interdisciplinary education, the proposed program will create well-rounded professionals capable of solving real-world data challenges.

Delivery Format

The proposed program will be offered in a face-to-face delivery format.

Target Implementation Date

Fall 2024

Demand and Workforce Development

Employment projections in the U.S. Bureau of Labor Statistics' (BLS) Occupational Outlook Handbook show the viability of employment for graduates of the proposed M.S. in Data Science. According to the BLS, employment of data scientists is expected to grow 36%, or "much faster than the average for all occupations."¹

External Competition

Four (4) public universities offer a similar or related degree program. The following universities offer graduate degree programs in the area of data science: George Mason University, Old Dominion University, Radford University, and the University of Virginia.

¹ The U.S. Bureau of Labor Statistics. <u>https://www.bls.gov/ooh/math/data-scientists.htm#tab-6</u>

Target Population

The intended target audience for the program is individuals interested in a broad range of careers such as data analysts, data scientists, machine learning engineers, data engineers, business analysts, research scientists, data consultants.

Impact on Existing Programs

The proposed M.S. in Data Science will not compromise any existing degree programs at Virginia Commonwealth University. No degree programs will close as a result of the initiation and operation of the proposed degree program.

Impact on Faculty

The Department of Computer Science has 18 full-time tenure-track or tenured faculty members, of which seven (7) are involved in developing and teaching core and required courses for the proposed MS in Data Science. The Department of Statistical Sciences and Operations Research has 13 full-time tenure-track or tenured faculty members of which 10 are involved in developing and teaching core and required courses for the proposed MS in Data Science.

Funding

The proposed degree program will require approximately 1.875 FTE of instructional effort to initiate, rising to approximately 4 FTE by the target year of 2029-2030. The colleges and departments have the faculty, classified support, equipment, space, library, and other resources necessary to initiate the proposed program. The program will be supported by resources already in place to sustain existing academic programs, including student support services (enrollment services, library support, and career services) and faculty support services.

Alignment with the VCU Mission

The proposed MS in Data Science program directly serves to fulfill the mission of Virginia Commonwealth University. The program's emphasis on "real-world learning" ensures that students actively engage with practical applications, fostering civic engagement, inquiry, discovery, and innovation. The "interdisciplinary" nature of data science enables students to collaborate with diverse fields, forging community partnerships that drive innovation, cultural and economic vitality, and solutions to "society's most complex challenges". The underrepresentation of minority populations in the field of Data Science is notable, but VCU's status as a minority-serving institution offers a pathway to enhance diversity among Data Science professionals and cultivate an inclusive environment.

<u>Next Steps</u>

- October 26 University Committee on Academic Affairs (UC-AA) Meeting
- November 2 University Council (UC) Meeting
- November 6 President's Cabinet
- December 8 Board of Visitor's Meeting (BOV)

Virginia Commonwealth University Proposed Program Brief Proposal to create a Bachelor of Arts degree program in Computer Science

Overview

Virginia Commonwealth University seeks approval for a Bachelor of Arts (B.A.) degree program in Computer Science at the Monroe Park Campus in Richmond, VA. The proposed program will be administered by the Department of Computer Science in the College of Engineering.

The purpose of the proposed B.A. degree program in Computer Science is to educate a broader population of students to identify, build, and support computer systems in all industries within Virginia by proposing a multidisciplinary approach to computer science. The proposed program will provide students with the knowledge and skills in client computing needs assessment, computing system design and prototyping, coding, code testing, and system documentation generation. The proposed degree program will provide students specific coursework to become proficient in contemporary software development methodologies, including agile programming, and enhance their teamwork and problem-solving skills through collaborative projects. Graduates will possess the fundamental knowledge and skills in programming and software development to work as entry-level software designers, software developers, software engineers, and systems engineers. Graduates of the proposed degree program will be prepared to work in all industries in the public and private sectors that seek candidates who can seamlessly integrate computing skills to address business needs.

Delivery Format

The proposed program will be offered in a face-to-face delivery format.

Target Implementation Date

Fall 2024

Demand and Workforce Development

According to the U.S. Bureau of Labor Statistics (BLS), between 2021 and 2031, employment for many computer professionals will grow at 15%, "much faster than other occupations"¹. The BLS goes on to say, "[T]his increase is expected to result in about 682,800 new jobs over the decade.

External Competition

Three (3) public institutions in Virginia offer a degree program similar or related to the proposed B.A. in Computer Science: Longwood University, the College of William and Mary, and the University of Virginia.

Target Population

All interested undergraduate students will be encouraged to consider the major. Of particular interest are students minoring in computer science, students with plans to double major and/or pursue interests in other subject areas.

¹ The U.S. Bureau of Labor Statistics. Occupational Outlook Handbook. <u>https://www.bls.gov/ooh/computer-and-information-technology/home.htm</u>

Impact on Existing Programs

No degree programs will close as a result of the initiation and operation of the proposed degree program. We anticipate minimal impact on the current B.S. in Computer Science.

Impact on Faculty

All existing full-time faculty (20) in the Department of Computer Science will teach in courses in the program. Five (5) faculty from the Department Mathematics and Statistics will teach other required courses.

Funding

The proposed program will require a total of 0.7 FTE of instructional effort in 2024-25, rising to 2.9 FTE by the target year 2028-29. The Department of Computer Science within the College of Engineering will be the primary funding source to initiate and sustain the proposed degree program. The dean of the College of Engineering has committed resources for another faculty member (1.0 FTE) who will be available to teach in the proposed B.A. in Computer Science degree program beginning in Fall 2025. The program will be supported by resources already in place to sustain existing academic programs, including student support services (enrollment services, library support, and career services) and faculty support services.

Alignment with the VCU Mission

The proposed degree program directly serves to fulfill the mission of Virginia Commonwealth University. The proposed degree program will educate students with "real-world learning that furthers inquiry, discovery and innovation" in computer systems and programming. Students will form "interdisciplinary collaborations" to "solve society's most complex problems" by applying their computing skills in all areas of society. The proposed program will allow for "diversity, inclusion, and equity" by providing additional pathways faor students to attain a degree in computer science.

Next Steps

- October 26 University Committee on Academic Affairs (UC-AA) Meeting
- November 2 University Council (UC) Meeting
- November 6 President's Cabinet
- December 8 Board of Visitor's Meeting (BOV)



A Guide to SACSCOC

The Reaffirmation of Accreditation Process



WE ARE THE UNCOMMON.

Reaffirmation of Accreditation

- WHAT: Southern Association of Colleges and Schools Commission on Colleges commonly referred to as SACSCOC
- WHY: Accountability and Continuous Improvement
- WHEN: Every 10 years. On-site visit scheduled February 26-29, 2024



Board of Visitors - What to Expect?

Broad questions about the following:

- Ways in which the university fulfills its mission
- How governing structure and lines of responsibility are followed
- The Quality Enhancement Plan (QEP)



Timeline







Institutional Audit Documenting Compliance





WE ARE THE UNCOMMON.

Quality Enhancement Plan (QEP)

FOCUS

• Transforming the undergraduate curriculum through innovative researchsupportive project-based learning courses that address real-world problems.

GOALS

- Enhance students' real-world learning.
- Increase the number of students engaged in undergraduate research.







Attachment C

VCU Health Sciences Senior Vice President Update

Marlon Levy, M.D., MBA Interim Senior Vice President, VCU Health Sciences Interim CEO, VCU Health System

12/11/2023

VCU Health Sciences

General Overview

- 5 of 6 schools have new (or relatively new) deans
- All are using Quest 2028 to guide planning and program priorities
- All are managing a budget cut this year

Notable Achievements

- Dr. Alice Coombs (Anesthesia) elected President of MSV
- Dr. Ken Kendler selected as #1 Lifetime ranking, worldwide, for psychiatry scholarship.
- Dr. Curt Sessler named VCU Innovator of the Year for inventing "world standard" for ICU patient comfort.



School of Pharmacy

Progressing with approval for new BS in pharmaceutical sciences (will resubmit to SCHEV)

Recently achieved full 8-year reaccreditation

Board pass rate (91%) among highest in US

Significant increase in NIH funding (#12 in US by BRIMR)

Medicinal chemistry department tops in VCU for patent and invention disclosures **Challenges:**

- Enrollment decline- created new cooperative program with SoM and SoD to share applicant information and increase applications to SoP
- Budget managing budget deficit with selective operations and hiring reductions and programmatic reductions (such as at UVA site)



School of Dentistry

School of Population Health

Expansion of dental services through Medicaid

Multiple areas of clinical service expansion and **improvement**

100% dental student **pass rate** on integrated board exam and **97%** on clinical board exam

Expanding research and development in digital dentistry technology

Received re-accreditation from CEPH for existing program

Preparing for submission of application for school of public health to CEPH

Significant increase in research funding

Now establishing SOPH organizational structure and appointing leadership positions.



College of Health Professions

School of Medicine

Maintaining top ranking in key programs by USNWR:

- Nurse Anesthesia #1
- Health Care Management #3
- Rehabilitation Counselling #6

Significant increase in undergraduate enrollment (mainly through new BS in Health Services) Upcoming LCME accreditation visit in February 2024

Certified treatment Center of Excellence designation for ALS Clinic out in Dept. of Neurology



Bringing VCU Innovations to the Marketplace

Updates from TechTransfer and Ventures

P. Srirama Rao, Ph.D. Vice president for research and innovation



Attachment D

VCU Inventions are impactful and growing



The Impact of VCU Innovation



VCU licenses its technologies to:

Major corporations



New ventures and startups





VCU technologies are generating significant revenue

ImmunoCAP Tryptase

- The only WHO-recommended and FDA
 approved assay for Systemic Mastocytosis
- Total royalties to VCU > \$5.5M



Dr. Lawrence Schwartz Internal Medicine



Thermo Fisher scientific



Vanguard[®] crLyme

- Best selling Lyme disease vaccine for dogs in U.S.
- Total royalties in 6 years on market > \$5.2M
- Sponsored research funding > \$8M
- **Pipeline of new products:** diagnostics; vaccine for human Lyme and for other tickborne diseases





Dr. Richard Marconi Microbiology & Immunology

National Academy of Inventors (NAI) Fellows, senior members and VCU* chapter members

- 8 fellows
- **8** senior members
- 50 VCU chapter members (since 2014)

*VCU's chapter recognizes members with at least 2 U.S. patents



Inductees from Spring 2023 VCU NAI Chapter reception at Maymont Park

VCU Commercialization Fund Advancing and maturing faculty inventions



- \$500,000 per year; Up to \$50,000 per project
- Sourced by royalty revenue and the OVPRI

Startup and New Venture Support

- IP protection, creation, validation
- Entrepreneurs-in-residence
- SBIR/STTR support
- Advisory board governance
- External state funding
- Networking with community partners

New

- Collaborative Innovation Challenge
- Startup Accelerator programs

FY2023: executed <u>12</u> licenses to startups **Current:** Supporting <u>20+</u> startups



VIPC VIRGINIA INNOVATION PARTNERSHIP CORPORATION Connecting Innovators with Opportunity







VCU Venture Support Program: Entrepreneur in Residence Team



Entrepreneur Support Organizations















The OVPRI's TechTransfer and Ventures Team





Report on Activation Capital Chandra Briggman, President and CEO







Growing The Regional Innovation Economy

Activation Capital Builds Ecosystems, Spaces, and Entrepreneurs



Ecosystem Development

- Cluster Accelerator: Advanced Pharma Manufacturing
- Regional Entrepreneurship & Innovation (E&I) Strategy
- Legislative Agenda

Space Making

- Science & Technology Space Making
- Community Programming

Entrepreneur Development

- Deep Tech Venture Development
- Multi-Regional Partnership Driving Commercialization of Biosciences