

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS**

**Meeting of the Academic and
Student Life Committee**

March 2, 2023

ACADEMIC AND STUDENT LIFE COMMITTEE

Thursday, March 2, 2023

3:45 – 5:00 p.m.

Board Room, Rotunda

Committee Members:

Elizabeth M. Cranwell, Chair
Carlos M. Brown, Vice Chair
Mark T. Bowles
Thomas A. DePasquale
U. Bertram Ellis Jr.
Robert D. Hardie
Angela Hucles Mangano

The Honorable L.F. Payne
Amanda L. Pillion
Douglas D. Wetmore
Whittington W. Clement, Ex-officio
Susan E. Kirk, M.D., Faculty Representative
Lily A. Roberts, Student Representative

AGENDA

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**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: I. Remarks by Committee Chair

ACTION REQUIRED: None

BACKGROUND: The Chair will provide an overview of the agenda.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: II.A. Bicentennial Professorship in Politics

BACKGROUND: Mr. Andrew (Drew) McKnight took a B.A. in Economics from the College of Arts & Sciences in 2000. He was a member of the Men’s Lacrosse team, where he was voted an Athletic All American and received an Intercollegiate Sports Letter. He was also a member of Zeta Psi. He is Managing Partner in the Dallas office of Fortress Investment Group, LLC, where he serves on the investment committee for credit funds and co-heads the corporate loan and securities group. He is also a member of the firm’s Management Committee. Prior to joining Fortress in 2005, Mr. McKnight was the trader for the hedge fund Fir Tree Partners, where he was responsible for analyzing and trading high yield and convertible bonds, bank debt, derivatives, and equities. Before Fir Tree, he worked on Goldman, Sachs & Co.’s distressed bank debt trading desk. He is also on the board of MP Materials, which owns and operates Mountain Pass - the only scaled, rare earth mining and processing facility in North America. Mr. McKnight is married to Amy McKnight, and they have two children.

Mr. McKnight currently serves on the College Foundation’s Dallas Regional Board and formerly served on its Northern California Regional Board. He was previously a member of the Jefferson Trust board before rolling off in 2016 after six years of service. He is also a member of the Advisory Board for the University’s Center for Politics. His commitment of \$1,550,000 is the lead gift to establish a Bicentennial Professorship in Politics, the holder of which is intended to be the Director/Co-Director of the Center for Politics. He also recently committed \$1,500,000 to establish the John S. McCain Professorship of Practice in the Center for Politics and \$846,500 to complete the \$3,000,000 Edwin T. Burton Endowment for the Economics Career Office. “Ideological balance in the classroom” is of primary importance to Mr. McKnight and his giving reflects this view.

Other major donors to the Bicentennial Professorship in Politics are Michael (College ’74) and Nancy (College ’75) Miller; Ms. Sonja Hoel Perkins (Commerce ’88); the Hobby Family Foundation; Mr. Peter Kiernan (Darden ’79); and Mr. Erik Hirsch (College ’95).

DISCUSSION: In early 2022, the Advisory Board of the University’s Center for Politics, under the leadership of Chairman Peter Kiernan, had the vision to create an endowed professorship within the College with direct linkage to the Center for Politics. The purpose was to create a permanent endowment to allow the College and the Center to have the financial resources to attract and retain top academic talent in this field of study and to

cement a partnership between the College and Graduate School of Arts & Sciences, the Department of Politics, and the Center for Politics for generations to come.

After the concept was approved by President Ryan, Mr. McKnight and members of the Advisory Board committed the funds necessary to create the professorship along with Bicentennial Professorship matching funds from the University. As conversations evolved, Mr. McKnight was inspired to also create a separate Professorship of Practice to augment the traditional academic position, which would serve as a co-director in the Center in the future. The holder of the Professorship of Practice will bring practical experience from the world of politics and form a strong partnership with the Center director. The family of the late Senator John McCain agreed to have his name aligned with the Professorship of Practice to be established at a later date.

ACTION REQUIRED: Approval by the Academic and Student Life Committee and by the Board of Visitors

BICENTENNIAL PROFESSORSHIP IN POLITICS

WHEREAS, Mr. Andrew McKnight and other donors and members of the Advisory Board of the Center for Politics had the vision to create an endowed professorship within the College and Graduate School of Arts & Sciences' Department of Politics with direct linkage to the Center for Politics; and

WHEREAS, the purpose was to create a permanent endowment to allow the College and the Center to have the financial resources to attract and retain top academic talent in Politics and to cement a partnership among the College and Graduate School of Arts & Sciences, the Department of Politics, and the Center for Politics, for generations to come;

RESOLVED, the Board of Visitors establishes the Bicentennial Professorship in Politics in the College and Graduate School of Arts & Sciences' Department of Politics; and

RESOLVED FURTHER, the Board of Visitors and the University offer profound thanks on behalf of the College and Graduate School of Arts & Sciences, the Department of Politics, and the Center for Politics, to Mr. Andrew McKnight and all donors to the Bicentennial Professorship in Politics, for this important gift as well as their many other contributions of time, talent, and resources to the University.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: II.B. New Degree Program: Bachelor of Science in Data Science in the School of Data Science

BACKGROUND: The University of Virginia proposes to establish a new degree program, a Bachelor of Science (B.S.) in Data Science, to be offered by the School of Data Science.

DISCUSSION: The establishment of Data Science as a field is directly related to the rapidly growing data-oriented economy. The discipline is an evolution and natural confluence of advances made in the fields of Statistics and Computer Science. The purpose of the proposed B.S. in Data Science is to prepare students to serve as data scientists and analysts in the public and private sectors. The proposed program is designed to respond to clear signals and demand from students and employers for a robust undergraduate data science program. The degree will also bolster UVA's reputation as it relates to modern STEM education and works to further the goals of the School of Data Science as originally envisioned.

The proposed program will educate students in the four domains of data science, as defined by the School of Data Science: Value, Design, Analytics, and Systems. Systems coursework trains students in fundamental data science tools, from coding languages to cloud-based platforms. Analytics covers the mathematical and algorithmic concepts at the heart of the field. Through coursework in Design, students learn data visualization, database schema, human-centered design, and data product development. Value-focused coursework prepares students to define and understand the ethical dimensions of the problems they are solving and to articulate the quality of proposed solutions. Graduates of the proposed undergraduate program will be qualified to support the data needs of a wide variety of market sectors including government and non-profit organizations. Graduates will also be well-prepared for advanced graduate study in data science and allied disciplines.

The proposed B.S. in Data Science will require 120 credit hours, including 33 credits of general education requirements, 40 credits of core required coursework, and at least one nine-credit concentration. Up to nine credits of core coursework may be used to satisfy general education requirements, leaving up to 41 credits of unrestricted electives for students to round out their studies. For the concentration, students may choose one of the four domains of data science or select a collaborative concentration developed and offered in partnership with another UVA school. Students will be required to complete six credits of prerequisite coursework in foundational data science and programming to declare the major. The academic core of the proposed degree and associated student advising will be carried out by the School of Data Science.

In the Commonwealth of Virginia, three other public institutions offer degree programs that are similar or related to the proposed degree. The College of William & Mary offers a B.S. in Data Science through its School of Arts and Sciences which features 19-credit core and methods-oriented tracks in data application, algorithms, and spatial data analytics. George Mason University's College of Science offers a B.S. in Computational and Data Sciences with a 16-credit core focused on technical knowledge and skills for scientific simulation and data analysis roles. Virginia Tech offers a B.S. in Computational Modeling and Data Analytics through its College of Science which centers on a 39-credit core with optional tracks in biological sciences, cryptography and cybersecurity, economics, geosciences, and physics. UVA's proposed program is distinguished by being housed in a dedicated School of Data Science and strengthened by its expansive definition of the field to include data design and value, alongside robust training in data analysis and systems. Relevant national labor market projections indicate 36% growth for data scientists and state labor market data project over 36% growth for the closely related occupation of statistician. These figures indicate strong demand for well-trained data scientists, which graduates of UVA's proposed degree program will be prepared to meet.

The B.S. in Data Science has been approved by the Faculty Council of the School of Data Science, the University Faculty Senate, the provost, and the president. All degree programs must be approved by the Board of Visitors before they can be forwarded to the State Council of Higher Education for Virginia for review and consideration of approval.

ACTION REQUIRED: Approval by the Academic and Student Life Committee and by the Board of Visitors

NEW DEGREE PROGRAM: BACHELOR OF SCIENCE IN DATA SCIENCE IN THE SCHOOL OF DATA SCIENCE

RESOLVED, subject to approval by the State Council of Higher Education for Virginia, the Bachelor of Science in Data Science is established in the School of Data Science.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: II.C. Enrollment Projections – University of Virginia

BACKGROUND: Consistent with §23-9.6:1.4 of the Code of Virginia, every two years, in the odd-numbered year, the State Council of Higher Education for Virginia (SCHEV) requires public institutions of higher education to update their enrollment projections. Institutions must project enrollment for the next six fiscal years, at a minimum. Once approved, the projections are used by the Commonwealth for budgetary and fiscal planning purposes. For example, expected enrollment trends are used to forecast future demand for faculty and classrooms and whether additional state funding will be needed to support that demand. The projections are also used in determining how much money needs to be set aside for financial aid programs such as the Tuition Assistance Grant. Since 2005, the enrollment projections for in-state students and estimates of degree awards have also been used as part of the Institutional Performance Standards. New enrollment projections for fall 2023 through fall 2029 must be approved by the Board of Visitors for submission to SCHEV in April 2023.

DISCUSSION: The proposed seven-year projections, presented below, reflect an increase of 422 students (or 1.8%) in total enrollment from fall 2023 to fall 2029. These projections may be revised in two years consistent with the University’s strategic planning interests.

Undergraduate Students (On-Grounds): The proposed projections result in growth of 151 students (or 0.9%) during the seven-year period. This growth reflects increase of approximately 190 first-time first year (FTFY) students beginning Fall 2023 to support the new undergraduate degree in Data Science and growth in Engineering and Applied Science.

Graduate Students (On-Grounds): The proposed projections include overall growth of 5% during the seven-year period. This growth, predominantly in the Graduate School of Arts & Sciences, the School of Engineering and Applied Science, the School of Data Science, the School of Medicine, and the School of Nursing, aligns with expansion in research activity and the addition of new graduate programs such as the Ph.D. in Data Science.

Law and Medicine: The Law School and the School of Medicine’s first-professional projections will remain constant throughout the seven-year period.

On-Grounds Total: The proposed projections forecast an increase of approximately 2% in the total number of students completing credit-bearing coursework at the University's main campus in Charlottesville.

Off-Grounds Total: The proposed projections include an increase of 26% in the total number of students completing credit-bearing courses at an off-campus instructional site other than the main campus in Charlottesville, as well as those completing a distance-learning program in which all instruction is delivered online.

Examples of off-Grounds degree program offerings include the Executive Master of Business Administration and the Master of Science in Business Analytics programs located in Roslyn, Virginia; the Master of Science in Management Information Technology located in McLean, Virginia; and third- and fourth-year medical students' rotations completed at the INOVA Fairfax Campus. Full-time distance education offerings include the Master of Science in Data Science, the Master of Public Safety, six Master of Engineering degrees offered as part of Virginia Engineering Online, and graduate certificates offered by the School of Education and Human Development and the School of Continuing and Professional Studies.

The off-Grounds growth is expected primarily at the graduate level. Projected increases in off-campus sites relate to expected enrollments in the Executive MBA part-time program, and partnerships between the School of Education and Human Development and public-school division. Increases in online enrollment relate primarily to School of Continuing and Professional Studies and School of Education and Human Development existing degree and certificate offerings, and the School of Data Science's current online master's program.

Total Enrollment: The total number of students enrolled for credit, whether on- or off-Grounds, is projected to increase by approximately 970 students or 4%.

ACTION REQUIRED: Approval by the Academic and Student Life Committee and by the Board of Visitors

UNIVERSITY OF VIRGINIA ENROLLMENT PROJECTIONS – THROUGH ACADEMIC YEAR 2029-2030

WHEREAS, the State Council of Higher Education for Virginia requires that a six-year enrollment projection be submitted every two years by public institutions of higher education to assist in statewide enrollment planning efforts; and

WHEREAS, the University's existing enrollment plan, approved by the Board of Visitors in March 2021, must be updated to reflect projected undergraduate and graduate enrollment levels through academic year 2029-2030;

RESOLVED, the Executive Vice President and Provost is authorized to continue to implement plans with the State Council of Higher Education for Virginia as outlined in the table below.

University of Virginia 2023-2029 Enrollment Projections

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual
<u>On-Grounds</u>										
Total Undergraduate	14,591	14,641	14,898	15,405	15,669	15,891	16,034	16,262	16,588	16,816
First-Year	3,434	3,397	3,517	3,709	3,674	3,683	3,788	3,822	3,920	3,785
New Transfers (full-time)	542	536	595	612	609	618	640	654	637	697
Graduate	4,778	4,712	4,594	4,708	4,686	4,921	5,170	5,149	5,315	5,399
Law and Medicine	1,737	1,742	1,746	1,687	1,630	1,579	1,601	1,597	1,656	1,581
On Grounds Total	21,106	21,095	21,238	21,800	21,985	22,391	22,805	23,008	23,460	23,796
Off-Grounds	3,191	2,812	2,226	1,932	1,898	1,507	1,555	1,631	1,558	1,846

	2021 Actual	2022		2023	2024	2025	2026	2027	2028	2029
	Actual	Projected	Actual	Projected	Projected	Projected	Projected	Projected	Projected	Projected
<u>On-Grounds</u>										
Total Undergraduate	16,794	16,623	16,735	16,950	17,069	17,136	17,101	17,101	17,101	17,101
First-Year	3,889	3,778	4,003	3,970	3,970	3,970	3,970	3,970	3,970	3,970
New Transfers (full-time)	696	643	674	650	650	650	650	650	650	650
Graduate	5,352	5,310	5,184	4,956	4,987	5,028	5,172	5,201	5,225	5,232
Law and Medicine	1,576	1,504	1,504	1,458	1,457	1,446	1,450	1,453	1,453	1,453
On Grounds Total	23,722	23,437	23,423	23,364	23,513	23,610	23,723	23,755	23,779	23,786
Off-Grounds	2,304	2,044	2,726	2,124	2,300	2,426	2,486	2,545	2,608	2,673

Notes: Above numbers include all students enrolled for credit based on **fall census**.

The First-Year and New Transfer counts are included in the Undergraduate total.

Beginning in 2017, London First & similar program students are included in: 1) FY total and 2) on-grounds total.

Examples of changes affecting off-grounds "ACTUAL" totals include terminating Semester at Sea in 2016 and census timing.

Prior to 2019 projection, SCPS enrollments were reported separately; these are now subsumed under the on- and off-grounds projections

Off-grounds projections include distance education students.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: III. Executive Vice President and Provost Remarks

ACTION REQUIRED: None

BACKGROUND: Provost Baucom will make remarks regarding recent noteworthy events and accomplishments.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

BOARD MEETING: March 2, 2023

COMMITTEE: Academic and Student Life

AGENDA ITEM: IV.A. Introduction of New Dean of the School of Continuing and Professional Studies

ACTION REQUIRED: None

BACKGROUND: On September 19, 2022, Melissa M. Lubin began her term as Dean of the School of Continuing and Professional Studies. Prior to joining the University, she served as Dean of the School of Professional & Continuing Education and as Chief Economic Engagement Officer at James Madison University. Before JMU, Ms. Lubin served as director of Virginia Tech’s Commonwealth Campus Centers in Richmond, Newport News, and Virginia Beach. Before her career in academia, she held leadership positions in the private sector, including roles with the Apollo Group, Circuit City Inc., and This End Up Furniture. She is a credentialed executive coach through the International Coach Federation, a master practitioner of the Myers-Briggs Type Indicator, and certified in the EQi emotional intelligence assessment.

Ms. Lubin earned a Bachelor of General Studies degree from Armstrong State College, an MBA from Georgia Southern University, and a Ph.D. in Adult Learning and Human Resource Development from Virginia Tech.

DISCUSSION: Mr. Baucom will introduce Ms. Melissa Lubin. Ms. Lubin will offer introductory remarks.

**UNIVERSITY OF VIRGINIA
BOARD OF VISITORS AGENDA ITEM SUMMARY**

<u>BOARD MEETING:</u>	March 2, 2023
<u>COMMITTEE:</u>	Academic and Student Life
<u>AGENDA ITEM:</u>	IV.B. The School of Data Science in Perspective
<u>ACTION REQUIRED:</u>	None

BACKGROUND: The establishment of the field of Data Science on the modern academic landscape is a by-product of the rapidly growing data-oriented economy. The discipline is an evolution and natural confluence of advances made primarily in the fields of Statistics and Computer Science. The degrees offered and research efforts being undertaken by the School of Data Science are in response to these current economic and the rapidly growing data-focused academic advances.

In 2013, the University of Virginia established the Data Science Institute (DSI) to educate students in data science and support collaborative research within and outside UVA. Based on the interdisciplinary nature of data science, rapidly changing technologies, and increasing demand for graduates with data science skills, the University initiated a comprehensive review in 2018 to assess a proposed School of Data Science. The review evaluated its potential benefits, financial and academic sustainability, and overall impact on UVA. Led by the DSI Director and involving diverse institutional constituencies, this review shaped the School proposal that earned the Faculty Senate's unanimous endorsement in May 2019. The Board of Visitors approved the establishment of the School of Data Science in June 2019, which was followed by SCHEV approval in September 2019.

The mission of the School of Data Science is to train students to be responsible practitioners and leaders in an increasingly data-driven society; to undertake, in collaboration with other schools, leading-edge interdisciplinary, open research and catalyze research discovery through shared data and analytical techniques; and to serve the University, the local community, the Commonwealth, the nation, and the world by applying data science to seek the truth and maximize societal benefit. To achieve its mission, the School of Data Science seeks to accomplish the following goals: 1) coordinate data science education with other UVA schools; 2) promote institutional research opportunities across diverse disciplines; 3) enhance partnerships to support community service needs; and 4) become a leader in data science.

The Data Science Institute offered its first degree program, an M.S. in Data Science, beginning in the 2015-16 Academic Year. In summer 2019, an online format of the MSDS was created. The School of Data Science began offering a Ph.D. in Data Science at the start of the 2022-23 Academic Year. During its March 2023 meeting, the Board of Visitors will vote on the establishment of a proposed B.S. in Data Science which itself has a planned start in the 2024-25 Academic Year. An undergraduate Minor in Data Science, launched in 2019,

is open to undergraduate students from all backgrounds, majors, and schools of enrollment, with no application required and a non-competitive entry process. SDS and other UVA schools also collaborate to offer multiple dual degree programs, including an MSDS/MBA with the Darden School of Business; an MSDS/M.D. with the School of Medicine; and an MSDS/ Ph.D. with the Graduate School of Arts & Sciences. SDS additionally offers a Digital Humanities Certificate and non-degree programs for executive education and undergraduate research for students underrepresented in data science, .

On May 1, 2017, Philip E. Bourne began his term as Director of the Data Science Institute. His appointment followed the inaugural DSI directorship of Donald E. Brown, now the School of Data Science's Senior Associate Dean for Research and the Quantitative Foundation Distinguished Professor of Data Science. After the establishment of the School, Bourne began his term as the inaugural Stephenson Dean of the School of Data Science on December 6, 2019. Prior to joining the University, he was Associate Director for Data Science at the National Institutes of Health, where he led its Big Data to Knowledge Program. Before NIH, he served as Associate Vice Chancellor of Innovation and Industrial Alliances at University of California-San Diego, where he spent 20 years on the faculty. A Professor of Biomedical Engineering, Mr. Bourne is a world-renowned biomedical and data science researcher who has published over 350 papers and five books, launched four companies, received numerous awards, and been elected as fellow to multiple scientific societies. He received his Ph.D. from The Flinders University of South Australia.

DISCUSSION: Mr. Baucom will introduce Mr. Philip Bourne. Mr. Bourne will provide a report on the School of Data Science, sharing information on developments around its degree program and course offerings, construction of its new SDS building, and plans for its education, research, and service activities moving forward.