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# Planetary Health Report Card:

## *University of Virginia*

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2021-2022 Contributing Team:

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## Summary of Findings

Overall	C
<u>Curriculum</u>	D
<ul style="list-style-type: none"> <li>• A major advancement since the previous PHRC was the student-led and faculty-supported development of a fourth-year elective that covered many of the topics discussed in the PHRC. However, there remains a notable dearth of PH coverage through the preclinical curriculum and clinical rotations.</li> <li>• <b>Recommendations:</b> Include at least one testable learning objective on PH in each pre-clinical system. Incorporate how to approach conversations about planetary health into conversations with patients in the clinical setting during Foundations of Clinical Medicine course, or the inter-clerkship intercessions.</li> </ul>	
<u>Interdisciplinary Research</u>	B+
<ul style="list-style-type: none"> <li>• UVASOM and the broader university have a multitude of resources for students to engage with PH research, however the resources within the medical school are still growing. Medical school faculty who are engaged in PH research are now more visible compared to last year. In the last year, UVA has also hosted climate change-related conferences that allow for interdisciplinary discussions and increased awareness of PH.</li> <li>• <b>Recommendations:</b> Recruit and encourage participation of community stakeholders in research.</li> </ul>	
<u>Community Outreach and Advocacy</u>	D+
<ul style="list-style-type: none"> <li>• UVASOM's main PH-related community outreach work with the Charlottesville City Schoolyard Garden has been put on hold due to COVID with plans to resume in 2022. No organization at UVA currently offers community-focused courses or events about climate change, nor do UVA students receive regular PH communication from the SOM or the Office of Sustainability.</li> <li>• <b>Recommendations:</b> Develop new community-facing educational events. Using Inova Hospital in Fairfax as an example, publish educational materials about climate and public health.</li> </ul>	
<u>Support for Student-Led Initiatives</u>	B
<ul style="list-style-type: none"> <li>• The student body at the University of Virginia is energized toward climate action, and overall the institution offers readily available support. This year the Student Clinicians for Climate Action at UVA launched our website which contains contact information and details about our projects.</li> <li>• <b>Recommendations:</b> Integrate medical school initiatives and medical student leadership with the larger university.</li> </ul>	
<u>Campus Sustainability</u>	B-
<ul style="list-style-type: none"> <li>• The UVA Office of Sustainability has a dedicated project coordinator overlooking the health system. UVA has a plan in place with goals to be carbon neutral by 2030, and fossil-free by 2050. Despite not having a composting program, there is a well-established recycling program. Where UVA primarily falls short is that only 20% of its electricity comes from renewable resources, and there are no sustainability guidelines in place for medical school events.</li> <li>• <b>Recommendations:</b> Implement a series of guidelines that medical school events must follow, as well as more sources of renewable energy at the school.</li> </ul>	

# Statement of Purpose

*Planetary health is human health.*

The Planetary Health Alliance describes planetary health as “a solutions-oriented, transdisciplinary field and social movement focused on analyzing and addressing the impacts of human disruptions to Earth’s natural systems on human health and all life on Earth.” This definition is intentionally broad, intended to encompass the multitude of ways that the environment can affect health, including water scarcity, changing food systems, urbanization, biodiversity shifts, natural disasters, climate change, changing land use and land cover, global pollution, and changing biogeochemical flows. The health of humanity is dependent on our environment and our environment is changing rapidly and in disastrous ways. Although the World Health Organization has called climate change “the greatest threat to global health in the 21st century,” many medical school’s institutional priorities do not reflect the urgency of this danger to human health.

As future health professionals, we must be prepared to address the impacts of human-caused environmental changes on our patients’ health. This preparation is in the hands of the institutions providing our medical training. It is imperative that we hold our institutions accountable for educating medical students about the health impacts of climate change and other anthropogenic environmental changes, generating research to better understand health impacts and solutions, supporting related student initiatives, embracing sustainable practices as much as possible, and engaging with surrounding communities that are most affected by environmental threats. Because climate change and environmental threats disproportionately affect vulnerable populations (for example, communities of color, older adults sensitive to health threats, and individuals in low-resource settings), these issues are inherently ones of equity and justice.

With the purpose of increasing planetary health awareness and accountability among medical schools, we have created a Planetary Health Report Card that medical students internationally can use to grade and compare their home institutions on an annual basis. This medical-student-driven initiative aims to compare medical schools nationally and internationally on the basis of discrete metrics in five main category areas: 1) planetary health curriculum, 2) interdisciplinary research in health and environment, 3) University support for student planetary health initiatives, and 4) community outreach centered on environmental health impacts 5) medical school campus sustainability.

# Definitions & Other Considerations

## Definitions:

- **Planetary Health:** is described by the *Planetary Health Alliance* as “a solutions-oriented, transdisciplinary field and social movement focused on analyzing and addressing the impacts of human disruptions to Earth’s natural systems on human health and all life on Earth.” For example, topics such as climate change, declining biodiversity, shortages of arable land and freshwater, and pollution would all fall under the realm of planetary health. Both planetary health and traditional ‘environmental health’ examine the relationship between human health and the external environment, including extreme temperatures, chemicals, vector-borne diseases, etc. Planetary health explicitly concerns itself with the potential health harms associated with human-caused perturbations of natural systems. Therefore, the human health focus of planetary health makes the field well-adapted for the context of medical school education. Throughout this report card, we use the term planetary health to refer to this broad swath of topics, but resources do not need to explicitly include the term “planetary health” to satisfy the metric.
- **Education for Sustainable Healthcare (ESH):** is defined as the process of equipping current and future health professionals with the knowledge, attitudes, skills and capacity to provide environmentally sustainable services through health professional education, thus working to decrease the enormous environmental impact of the healthcare industry. Planetary Health Education is an integral part of this education rather than an end in itself. This is because knowledge on Planetary Health is required to be able to fully understand the necessity of sustainable healthcare as well as being part of the broader knowledge needed to fully protect and promote health. In summary, ESH is covered by the three Priority Learning Outcomes of the Centre of Sustainable Healthcare below, and Planetary Health Education is embraced in the first learning objective and is a fundamental requirement to achieve learning outcomes 2 and 3:
  1. Describe how the environment and human health interact at different levels.
  2. Demonstrate the knowledge and skills needed to improve the environmental sustainability of health systems.
  3. Discuss how the duty of a doctor to protect and promote health is shaped by the dependence of human health on the local and global environment.
- **Medical School vs. Institution:** When “medical school” is specified in the report card, this only refers to curriculum and resources offered by the School of Medicine and does not include offerings from other parts of the university (for example, undergraduate departments (USA), other related departments eg Public Health, Population Health departments). In contrast, when “institution” is specified in the report card, we are referring to the university more broadly. Any resource reasonably accessible by medical students, no matter where in the institution the resource comes from or if it is specifically targeted for medical students, can meet this metric.
- **Environmental history (Metric 19 in curriculum section):** This is a series of questions

providers are taught to ask during medical encounters that elicits patients' exposures and environmental risk factors. Historically, this has included consideration of exposures like pesticides, asbestos, and lead, though in the modern era shaped by climate change, it can be expanded to include things like wildfire smoke exposure, air pollution and mold after flooding. Key components include place of residence over the lifecourse, occupational history, food and water sources (e.g. meat from industrial feeding operations, regular fishing in contaminated water, access to clean drinking water), and exposure to air pollution.

- **Elective:** The word “elective” refers to an optional course or lecture series that a medical student can opt to take part in but is not a requirement in the core curriculum. Generally, these elective courses take place in the preclinical curriculum but vary by school.
- **Clerkship:** This is a term used in the USA to refer to placements that medical students go on e.g. Pediatrics, General medicine, Psychiatry. In the UK these are referred to as rotations or placements.

#### **Other considerations:**

- If there are more than one “tracks” at your medical school with two different curricula (for example, Harvard Medical School has a Pathways and HST curriculum track), you can choose to fill out a report card for each track, or fill out just one report card and average the scores received by each track in cases where the scores are different (see the 2021 Harvard or Oxford report cards as example).

Added to our resources this year, the Planetary Health Report Card [Literature Review by Metric](#) collates the evidence behind each of the metrics in the Planetary Health Report Card. It serves as a collection of references for further learning and a resource for those advocating for increased planetary health engagement at their institutions.

# Planetary Health Curriculum

***Section Overview:*** This section evaluates the integration of relevant planetary health topics into the medical school curriculum. Today's medical students will be on the frontlines of tackling the health effects of climate and other environmental changes. Therefore, it is critical that medical students are trained to understand the health effects of these changes, as well as planetary health issues and principles more broadly. Topics like the changing geography of vector-borne diseases, the health consequences of air pollution, environmental health inequities, and disaster response principles must be part of every medical school's core curriculum.

## *Curriculum: General*

<b>1. Did your medical school offer elective courses (student selected modules) to engage students in Education for Sustainable Healthcare or Planetary Health in the last year?</b>	
3	Yes, the medical school has offered more than one elective whose primary focus is ESH/planetary health in the past year.
2	<b>Yes, the medical school has offered one elective whose primary focus is ESH/planetary health in the past year.</b>
1	The medical school does not have any electives whose primary focus is ESH/planetary health, but there are one or more electives that include a lecture on planetary health.
0	No, the medical school has not offered any electives on planetary health or electives that include ESH/planetary health topics in the past year.
<p><i>Score explanation:</i> There is a brand-new elective entitled <i>Climate Change and Health</i> offered to graduating fourth-years (SMD22). The organization of this elective was student-driven and faculty supported and the intention is to continue offering it in future years. The two-week intensive course features field expert speakers, self-guided learning, and a capstone project as well as participation in Advocacy Day with Virginia state legislators.</p>	

## *Curriculum: Health Effects of Climate Change*

<b>2. Does your medical school curriculum address the relationship between extreme heat, health risks, and climate change?</b>	
3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
1	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.

*Score explanation:* Extreme heat and related health impacts are addressed in depth in the new fourth-year elective session entitled *Extreme Heat and Severe Weather*. In previous years, it was covered in an optional lecture in the M2 Pulmonary Block; however, due to miscommunication, the lecture was not given in 2021-2022.

**3. Does your medical school curriculum address the impacts of extreme weather events on individual health and/or on healthcare systems?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.

*Score explanation:* This topic is covered in a session in the fourth-year elective entitled *Extreme Heat and Severe Weather*. In previous years, it was covered in an optional lecture in the M2 Pulmonary Block; however, the lecture was not offered in 2021-2022.

**4. Does your medical school curriculum address the impact of climate change on the changing patterns of infectious diseases?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.

*Score explanation:* Upon reviewing learning objectives from the M1 Microbes and the Immune System block and consulting members of the current M1 class as well as the system leaders, we can confirm that this topic is not covered in our current curriculum. It is covered in the session entitled *Infectious Diseases* in the new fourth-year elective.

**5. Does your medical school curriculum address the respiratory health effects of climate change and air pollution?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.

<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.
<p><i>Score explanation:</i> After thorough review of the lectures and learning objectives, as well as consultation with the preclerkship Pulmonary System block faculty leaders, we can confirm there is no pre-clerkship discussion of the pulmonary effects of climate change and air pollution. This topic is covered in the <i>Air Pollution and Increasing Allergens</i> session offered in the optional, fourth-year elective.</p>	

<b>6. Does your medical school curriculum address the cardiovascular health effects of climate change, including increased heat?</b>	
3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
1	This topic was covered in elective coursework.
<b>0</b>	<b>This topic was not covered.</b>
<p><i>Score explanation:</i> A thorough review of the lectures and learning objectives as well as consultation with the Cardiovascular System faculty leaders confirms that there are no lectures on the cardiovascular health effects of climate change.</p>	

<b>7. Does your medical school curriculum address the mental health and neuropsychological effects of environmental degradation and climate change?</b>	
3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.
<p><i>Score explanation:</i> A thorough review of the lectures and learning objectives from the M1 Mind, Brain Behavior (Neurology and Psychology) unit as well as consultation with the system leaders confirms that there was no mention of the neuropsychological effects of environmental degradation and climate change. There is one session entitled <i>Mental Health and Stress-Related Disorders</i> in the new fourth-year elective.</p>	



**8. Does your medical school curriculum address the relationships between health, individual patient food and water security, ecosystem health, and climate change?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.

*Score explanation:* There is one session entitled *Water and Food Security Impacts and the Forced Migration* offered in the fourth-year elective.

**9. Does your medical school curriculum address the outsized impact of climate change on marginalized populations such as those with low SES, women, communities of color, Indigenous communities, children, homeless populations, and older adults?**

3	This topic was explored in depth by the core curriculum.
<b>2</b>	<b>This topic was briefly covered in the core curriculum.</b>
1	This topic was covered in elective coursework.
0	This topic was not covered.

*Score explanation:* Upon review of the Social Issues in Medicine (SIM) syllabus and learning objectives and consultation with the system leaders, we can confirm that this topic is not covered in our current curriculum. There is, however, a “Health Care Disparities” core curriculum lecture that touches upon health disparities by neighborhood within Charlottesville and the surrounding areas. Additionally, the “Poverty, Housing, and Health” lecture discusses health impacts of environmental exposures upon marginalized populations. Although some clerkships may briefly cover the topic coincidentally, there are not specific learning objectives geared towards this topic. There is one session in the M4 (Bedside to Community) B2C course that gives a broad overview of the impact of climate change on human health, particularly within the pediatric population.

**10. Does your medical school curriculum address the unequal regional health impacts of climate change globally?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
1	This topic was covered in elective coursework.
<b>0</b>	<b>This topic was not covered.</b>

*Score explanation:* The pre-clerkships and clerkship curriculums do not address the unequal health impacts of climate change globally. The global clerkships also do not specifically address this topic, although it may be indirectly addressed in the process of educating students on other topics.

***Curriculum: Environmental Health & the Effects of Anthropogenic Toxins on Human Health***

**11. Does your medical school curriculum address the reproductive health effects of industry-related environmental toxins (e.g. air pollution, pesticides)?**

3	This topic was explored in depth by the core curriculum.
<b>2</b>	<b>This topic was briefly covered in the core curriculum.</b>
1	This topic was covered in elective coursework.
0	This topic was not covered.

*Score explanation:* There are two relevant learning objectives in the Reproductive unit. The lecture is called “Birth Defects With Prenatal Diagnostic Testing”. Please see learning objectives below.

1. Compare and contrast how extrinsic factors (including medications, irradiation, environmental exposures, and perinatal infections) can lead to birth defects
2. Formulate a plan for the clinical management of women with extrinsic risk factors (including medications, irradiation, environmental exposures, and perinatal infections) for birth defects

**12. Does your medical school curriculum address important human-caused environmental threats that are relevant to the university’s surrounding community?**

3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
1	This topic was covered in elective coursework.
<b>0</b>	<b>This topic was not covered.</b>

*Score explanation:* There are no specific learning objectives looking at the surrounding community of Charlottesville and how human-caused environmental threats have an impact. There are research projects looking at this topic but they are not part of a course.

**13. To what extent does your medical school emphasize the importance of Indigenous knowledge and value systems as essential components of planetary health solutions?**

3	Indigenous knowledge and value systems are integrated throughout the medical school’s planetary health education
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2	Indigenous knowledge and value systems as essential components of planetary health solutions are included briefly in the core curriculum.
1	Indigenous knowledge and value systems as essential components of planetary health solutions are included in elective coursework.
<b>0</b>	<b>This topic was not covered.</b>
<i>Score explanation:</i> There are no specific learning objectives about indigenous communities and their relation to climate and environmental health challenges.	

<b>14. Does your medical school curriculum address the outsized impact of anthropogenic environmental toxins on marginalized populations such as those with low SES, women, communities of color, children, homeless populations, Indigenous populations, and older adults?</b>	
3	This topic was explored in depth by the core curriculum.
<b>2</b>	<b>This topic was briefly covered in the core curriculum.</b>
1	This topic was covered in elective coursework.
0	This topic was not covered.
<i>Score explanation:</i> There are no learning objectives looking at marginalized populations and the impact of climate change. There is one session in the M4 Bedside to Community (B2C) course that gives a broad overview of the impact of climate change on human health, particularly within the pediatric population.	

*Curriculum: Sustainability*

<b>15. Does your medical school curriculum address the environmental and health co-benefits of a plant-based diet?</b>	
3	This topic was explored in depth by the core curriculum.
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.
<i>Score explanation:</i> While the health benefits of a diet with more vegetables and less meat were briefly touched upon during the nutrition sessions in the M1 GI System block, it was not presented within the framework of planetary health. However, UVA's Climate Change and Health elective offered to M4s requires a pre-class reading titled "Deforestation, Agriculture, and Diet Are Fueling the Climate Crisis" that explains the benefits of a plant-based diet.	

<b>16. Does your medical school curriculum address the carbon footprint of healthcare systems?</b>	
3	This topic was explored in depth by the core curriculum
2	This topic was briefly covered in the core curriculum.
<b>1</b>	<b>This topic was covered in elective coursework.</b>
0	This topic was not covered.
<p><i>Score explanation:</i> At UVA SOM, the Climate Change and Health elective offered to M4s includes independent learning activities and lectures on the science of climate change and sustainability in healthcare which address the impact of greenhouse gas emissions, the role of healthcare in contributing to pollution, and ideas for reducing emissions by healthcare systems.</p>	

<b>17. Does your medical school curriculum cover these components of sustainable clinical practice in the <u>core</u> curriculum? (1 point each)</b>	
<b>1</b>	<b>Waste production within the healthcare system and strategies for reducing waste in clinical activities, such as in the operating room.</b>
1	The impact of inhalers on the healthcare carbon footprint and the environmental benefit of dry powdered inhalers over metered dose inhalers.
1	The impact of anaesthetic gases on the healthcare carbon footprint and ways to reduce anaesthesia environmental impacts, such as total intravenous anaesthesia or choosing less environmentally anaesthetic gas options with reduced greenhouse gas emissions
1	The environmental impact of pharmaceuticals and over-prescribing as a cause of climate health harm. Alternatively teaching on de-prescribing where possible and its environmental and health co-benefits would fulfill this metric.
1	The health and environmental co-benefits of non-pharmaceutical management of conditions where appropriate such as exercise or yoga classes for type 2 diabetes; social group activities such as gardening for mental health conditions; active transport such as bicycle schemes for obesity. This is commonly known as social prescribing in the UK.
1	The health and environmental co-benefits of avoiding over-medicalisation, over-investigation and/or over-treatment
<p><i>Score explanation:</i></p> <p>1. During our Transitions to Clerkship course, M3s are required to watch a pre-recorded lecture titled “EPA 3” that discusses and encourages students to recognize waste in the healthcare system leading to low-value care. The topic of efficient use of healthcare is also touched upon in the DxRx: Health Care Systems course, which is a health policy and public health course that lasts only 5 days and is required for all rising M4s. However, the course did not explicitly discuss the impact of healthcare waste on the environment or ways to mitigate that effect.</p>	

*Curriculum: Clinical Applications*

<b>18. In training for patient encounters, does your medical school’s curriculum introduce strategies to have conversations with patients about the health effects of climate change?</b>	
2	Yes, there are strategies introduced for having conversations with patients about climate change in the core curriculum.
1	<b>Yes, there are strategies introduced for having conversations with patients about climate change in elective coursework.</b>
0	No, there are not strategies introduced for having conversations with patients about climate change
<p><i>Score explanation:</i> The Climate Change and Health elective at UVA equips participating students with the knowledge and skills to talk to patients about the health effects of climate change.</p>	

<b>19. In training for patient encounters, does your medical school’s curriculum introduce strategies for taking an environmental history or exposure history?</b>	
2	<b>Yes, the core curriculum includes strategies for taking an environmental history.</b>
1	Only elective coursework includes strategies for taking an environmental history.
0	No, the curriculum does not include strategies for taking an environmental history.
<p><i>Score explanation:</i> At the UVA School of Medicine, in the Foundations of Clinical Medicine course, students are trained to take an environmental and exposure history as part of the full social history.</p>	

*Curriculum: Administrative Support for Planetary Health*

<b>20. Is your medical school currently in the process of implementing or improving Education for Sustainable Healthcare (ESH)/planetary health education?</b>	
4	Yes, the medical school is currently in the process of making major improvements to ESH/planetary health education.
2	<b>Yes, the medical school is currently in the process of making minor improvements to ESH/planetary health education.</b>

0	No, there are no improvements to planetary health education in progress.
<p><i>Score explanation:</i> At the University of Virginia, student-driven initiatives have resulted in the new Climate Change and Health elective available to all fourth-year medical students and led by UVA faculty. The faculty and curriculum committee have been supportive throughout the process of designing and implementing this elective. The curriculum committee has also offered their support for the development of climate-health related learning objectives in the pre-clerkship curriculum. This effort is primarily student-led.</p>	

<b>21. How well are the aforementioned planetary health/Education for Sustainable Healthcare topics integrated longitudinally into the core curriculum?</b>	
6	Planetary health/ESH topics are well integrated into the core medical school curriculum.
4	Some planetary health/ESH topics are appropriately integrated into the core medical student curriculum.
2	<b>Planetary health/ESH is not integrated and is primarily addressed in (a) standalone lecture(s).</b>
0	There is minimal/no education for sustainable healthcare.
<p><i>Score explanation:</i> Currently at UVA, there is no longitudinal integration of planetary health in the curriculum. Most opportunities to learn about planetary health are electives or optional.</p>	

<b>22. Does your medical school employ a member of faculty to specifically oversee and take responsibility for the incorporation of planetary health and sustainable healthcare as a theme throughout the course?</b>	
1	Yes, the medical school has a specific faculty/staff member responsible for overseeing curricular integration of planetary health and sustainable healthcare
0	<b>No, the medical school does not have a specific faculty/staff member responsible for overseeing curricular integration of planetary health and sustainable healthcare.</b>
<p><i>Score explanation:</i> UVA SOM does not have a specific faculty or staff member to fulfill this role.</p>	

<b>Section Total (24 out of 69)</b>	<b>34.7%</b>
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## Interdisciplinary Research

***Section Overview:*** *This section evaluates the quality and quantity of interdisciplinary planetary health research at the medical school and broader institution. Interactions between health and the environment are complex and multifactorial. While climate change has been extensively studied from an environmental science perspective, planetary health is an emerging field. As leading health institutions with talented researchers and research resources, medical schools should fund research studying the health effects of climate change and anthropogenic environmental toxins. This obligation is particularly strong because the public and policymakers are more attentive to climate change when its implications for human health are emphasized.*

<b>1. Are there researchers engaged in planetary health research and healthcare sustainability research at your medical school?</b>	
<b>3</b>	<b>Yes, there are faculty members at the School of Medicine who have a primary research focus in planetary health or healthcare sustainability.</b>
2	Yes, there are individual faculty members at the School of Medicine who are conducting research related to planetary health or healthcare sustainability, but it is not their primary research focus.
1	There are planetary health and/or healthcare sustainability researchers at the institution, but none associated with the medical school.
0	No, there are no planetary health and/or healthcare sustainability researchers at the institution or medical school at this time.
<p><i>Score explanation:</i> <a href="#">Matthew Meyer, MD</a>, is an Associate Professor in the Department of Anesthesiology whose primary research focus is in healthcare sustainability. Additional faculty members who conduct research in the field of planetary health include <a href="#">Kyle Enfield, MD</a>, and <a href="#">Kristen M. Wells, MPH, PhD</a>.</p>	

<b>2. Is there a dedicated department or institute for interdisciplinary planetary health research at your institution?</b>	
<b>3</b>	<b>There is at least one dedicated department or institute for interdisciplinary planetary health research.</b>
2	There is not currently a department or institute for interdisciplinary planetary health research, but there are plans to open one in the next 3 years.
1	There is an Occupational and Environmental Health department, but no interdisciplinary department or institute for planetary health research.
0	There is no dedicated department or institute.
<p><i>Score explanation:</i> The UVA <a href="#">Environmental Resilience Institute</a> “supports trans-disciplinary research and training at the intersection of environmental change and human well-being by connecting faculty,</p>	

students, and citizens together to foster a more resilient and sustainable future for the global common good.” The ERI connects faculty and students across several departments and schools, including the School of Medicine.

**3. Is there a process by which communities disproportionately impacted by climate change and environmental injustice give input or make decisions about the research agenda at your medical school?**

3	Yes, there is a process in which community members impacted by climate and environmental injustice have decision-making power in the climate + environmental research agenda.
2	Yes, there is a process in which community members impacted by climate and environmental injustice advise the climate + environmental research agenda.
1	No, but there are current efforts to establish a process for community members to advise or make decisions on the research agenda.
<b>0</b>	<b>There is no process, and no efforts to create such a process.</b>

*Score explanation:* There are no processes currently in place to allow input into the research agenda, and there are no current efforts to establish this type of process.

**4. Does your institution have a planetary health website that centralizes ongoing and past research related to health and the environment?**

<b>3</b>	<b>There is an easy-to-use, adequately comprehensive website that centralizes various campus resources related to health and the environment including all of the following: upcoming events, leaders in planetary health at your institution, and relevant funding opportunities.</b>
2	There is a website that attempts to centralize various campus resources related to health and the environment, but it is hard-to-use, not updated, or not adequately comprehensive.
1	The institution has an Office of Sustainability website that includes some resources related to health and the environment.
0	There is no website.

*Score explanation:* The [UVA Sustainability](#) website comprehensively includes information about events, student organizations, and funding opportunities related to sustainability. The website also links to the Environmental Resilience Institute, which lists all affiliated faculty involved in environmental health across a variety of disciplines ([Affiliated Faculty - Environmental Resilience Institute | ERI](#)).

**5. Has your institution recently hosted a conference or symposium on topics related to planetary**



health?	
4	Yes, the medical school has hosted at least one conference or symposium on topics related to planetary health in the past year.
<b>3</b>	<b>Yes, the institution has hosted at least one conference or symposium on topics related to planetary health in the past year.</b>
2	Yes, the institution has hosted a conference on topics related to planetary health in the past three years.
1	The institution has not hosted any conferences directly, but they have provided financial support for a local planetary health event.
0	No, the institution has not hosted a conference on topics related to planetary health in the past three years.
<p><i>Score explanation:</i> The University of Virginia School of Nursing Continuing Education, along with the Virginia Clinicians for Climate Change and the UVA Environmental Resilience Institute, hosted their second annual “Protecting Human Health in a Changing Climate” conference in February, 2022. This year’s focus was “Addressing Climate-Related Health Inequities.” This conference addresses topics such as air and water quality, heat and occupational injury, the effect of climate change on mental health, and sustainability in healthcare.</p> <p>Additionally, UVA hosted the Climate Ambition Summit in 2021, which covered a variety of climate topics including climate justice.</p>	

6. Is your medical school a member of a national or international planetary health or ESH organization?	
<b>1</b>	<b>Yes, the medical school is a member of a national or international planetary health or ESH organization</b>
0	No, the medical school is not a member of such an organization
<p><i>Score explanation:</i> The UVA School of Medicine is a member of the Global Consortium on Climate and Health Education.</p>	

<b>Section Total (13 out of 17)</b>	<b>76.4%</b>
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# Community Outreach and Advocacy

***Section Overview:*** *This section evaluates medical school engagement in community outreach and advocacy efforts associated with planetary health. Researching and teaching planetary health is necessary but not sufficient. It is critical that institutions also directly engage with communities most affected by environmental health harms. Although climate change is a problem largely created by those with power and resources, its impacts fall disproportionately on under-resourced populations and communities of color. Institutions should partner with local communities affected by climate change and pollution to share information about environmental health threats, advocate together for change, and provide opportunities for students to be a part of this work.*

<b>1. Does your medical school partner with community organizations to promote planetary and environmental health?</b>	
3	Yes, the medical school meaningfully partners with multiple community organizations to promote planetary and environmental health.
2	<b>Yes, the medical school meaningfully partners with one community organization to promote planetary and environmental health.</b>
1	The institution partners with community organizations, but the medical school is not part of that partnership.
0	No, there is no such meaningful community partnership.
<p><i>Score Explanation:</i> UVA School of Medicine typically has a formal relationship with the Charlottesville City Schoolyard Garden through the Social Issues in Medicine course, a mandatory service-learning experience for all first-year medical students. The City Schoolyard Garden works to ameliorate food insecurity by providing fresh, locally-grown produce to residents and creating green spaces around the city for residents to enjoy nature. First-year medical students work with the organization to prepare garden beds, harvest produce, and create gardens at local schools for students and teachers to enjoy. Unfortunately the partnership was put on hold this year due to COVID, but there are plans to resume in 2022 depending on COVID conditions. However, in the interim, a UVA pediatric surgeon did launch a project in conjunction with <a href="#">Local Food Hub's Fresh Farmacy</a> to provide local produce to qualifying pediatric patients in the community. UVA earns a score of 2 for partnering with one community organization that promotes environmental engagement within the Charlottesville community.</p>	

<b>2. Does your medical school offer community-facing courses or events regarding planetary health?</b>	
3	The medical school offers community-facing courses or events at least once every year.
2	The medical school offers courses or events open to the community at least once per year, but they are not primarily created for a community audience.

<b>1</b>	<b>The institution has offered community-facing courses or events, but the medical school was not involved in planning those courses or events.</b>
0	The medical school has not offered such community-facing courses or events.
<p><i>Score explanation:</i> The UVA Medical Center Hour program offered a session entitled “Health Care in the Time of Climate Change: Why We Need Climate Doctors” in November 2021. The UVA Medical Center Hour virtual lecture series is open to the public via Zoom, though created primarily for those in the healthcare field, and recordings of past lectures including the aforementioned climate lecture are available on their <a href="#">YouTube channel</a>. The event was organized by the medical center rather than the SOM itself. The UVA School of Nursing holds a yearly conference on climate change and health, but this is organized by the School of Nursing, Virginia Clinicians for Climate Action, and UVA Environmental Resilience Institute, without the involvement of the School of Medicine. The conference is open to the public, but is primarily geared toward health care providers.</p>	

<b>3. Does your medical school have regular coverage of issues related to planetary health and/or sustainable healthcare in university update communications?</b>	
2	Yes, all students regularly receive communication updates dedicated to planetary health and/or sustainable healthcare.
1	Yes, planetary health and/or sustainable healthcare topics are sometimes included in communication updates.
<b>0</b>	<b>Students do not regularly receive communications about planetary health or sustainable healthcare.</b>
<p><i>Score explanation:</i> UVA students do not currently receive communication updates from the UVA School of Medicine or the UVA Office for Sustainability. A potential source of sustainable healthcare updates could come from the Health System Committee on Sustainability. This committee currently has yearly updates that are posted as a PDF on the UVA Sustainability website (<a href="https://sustainability.virginia.edu/about-us/initiatives">https://sustainability.virginia.edu/about-us/initiatives</a>). Additionally, as mentioned in the example above, the Office of Sustainability could send planetary health updates with a health professional audience in mind.</p>	

<b>4. Does the institution or main affiliated hospital trust engage in professional education activities targeting individuals post graduation with the aim of ensuring their knowledge and skills in planetary health and sustainable healthcare remain up to date during their professional career?</b>	
2	Yes, the institution or main affiliated hospital trust offers multiple in-person or online courses relating to planetary health and/or sustainable healthcare for post-graduate providers, including at least one with a primary focus of planetary health.
<b>1</b>	<b>Yes, the institution or main affiliated hospital trust offers one course relating to planetary health and/or sustainable healthcare for post-graduate providers</b>

0	There are no such accessible courses for post-graduate providers
<p><i>Score Explanation:</i> The University of Virginia School of Nursing Continuing Education and School of Medicine Office of Continuing Medical Education put on an annual interprofessional conference, Protecting Human Health in a Changing Climate, which offers numerous CME credits. There were no other courses related to planetary health or sustainable healthcare offered at UVA or its affiliated hospitals.</p>	

5. Does your medical school or its primary affiliated hospital have accessible educational materials for patients about environmental health exposures?	
2	Yes, all affiliated hospitals have accessible educational materials for patients.
1	Some affiliated hospitals have accessible educational materials for patients.
0	<b>No affiliated medical centers have accessible educational materials for patients.</b>
<p><i>Score explanation:</i> Neither Inova nor UVA Hospital publish accessible information about pollution, pesticide, or chemical exposures aimed toward patient education. UVA earns a score of 0.</p>	

6. Does your medical school or its primary affiliated hospital have accessible educational materials for patients about climate change and health impacts?	
2	Yes, all affiliated hospitals have accessible educational materials for patients.
1	<b>Some affiliated hospitals have accessible educational materials for patients.</b>
0	No affiliated hospitals have accessible educational materials for patients.
<p><i>Score explanation:</i> Inova Hospital in Fairfax publishes brochures online regarding the effects of climate change on different diseases including <u>heart</u> and <u>lung</u> disease aimed towards patient audiences. The hospital also publishes information regarding the effects of climate change on <u>pediatric</u> and <u>geriatric</u> health. UVA Hospital does not publish any accessible educational materials for patients about climate change and its effect on health. UVA earns a score of 1 because some affiliated hospitals do publish educational materials for patients about health and climate change.</p>	

<b>Section Total (5 out of 14)</b>	<b>35.7%</b>
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# Support for Student-Led Planetary Health Initiatives

***Section Overview:*** This section evaluates institutional support for student-led planetary health initiatives, such as funding, fellowships, programming, and student groups. Planetary health is a young field and, as young people facing a future deeply shaped by climate change, students are often some of the first at an institution to engage with it. Institutions should provide support for students to engage in sustainability quality improvement (QI) initiatives, discover mentors in their area of interest, and receive funding for planetary health projects.

1. Does your institution offer support for medical students interested in enacting a sustainability initiative/QI project?	
2	Yes, the institution <i>either</i> offers grants for students to enact sustainability initiatives/QI projects <i>or</i> sustainability QI projects are part of the core curriculum.
1	The medical school encourages sustainability QI projects (to fulfill clerkship or longitudinal requirements) and offers resources to help students succeed in these projects, but there is no student funding available and there is no requirement to participate.
0	No, the institution does not offer opportunities or support for sustainability initiatives or QI projects.

*Score explanation:* For financial support, the Equity and Environment Fund, supported by the Civic Engagement Subcommittee, is available for students/student groups for community-based initiatives or projects that sit at the intersection of equity, justice, and sustainability. The [GIFT \(Green Initiatives Funding Tomorrow\) Grant](#) is funded by the Student Council's Sustainability Committee with assistance from the Office of the Dean of Students. GIFT has provided tens of thousands of dollars for student sustainability initiatives since 2011, allowing students to solve sustainability challenges on Grounds through innovation and creativity. The [Jefferson Trust](#), an initiative of the UVA Alumni Association, works to promote excellence throughout the University of Virginia by providing catalytic support to the University community for initiatives in pursuit of Jeffersonian ideals. The Jefferson Trust has funded several sustainability-related projects, including solar education programs, environmental education events and more.

Within the curriculum, a new fourth year climate health elective will allocate two days to legislative advocacy work and students are consistently able to give presentations on climate health topics if they choose.

2. Does your institution offer opportunities for medical students to do research related to planetary health and/or sustainable healthcare?	
2	The institution has a specific research program or fellowship for students interested in doing planetary health/sustainable healthcare research.

<b>1</b>	<b>There are research opportunities for students to perform research related to planetary health/sustainable healthcare but these require student initiative to seek these out and carry them out in their spare time.</b>
0	There are no opportunities for students to engage in planetary health/sustainable healthcare research.
<p><i>Score explanation:</i> Unchanged from last year. As a research university, there is ample opportunity for paid research opportunities and projects on planetary health/sustainable healthcare certainly would be and have been considered eligible. In particular, two summers ago, the <a href="#">Hook Scholars Program</a> supported a student’s project on this type of work. The <a href="#">Environmental Research Institute at UVA</a> does explicitly offer funding for research related to planetary health, however the language on the website would suggest this is only open to “undergraduate, Masters, and PhD students “</p>	

<b>3. Does the medical school have a webpage where medical students can find specific information related to planetary health and/or sustainable healthcare activities and mentors within the medical school? For example, projects achieved, current initiatives underway at the medical school and/or contact of information of potential mentors.</b>	
<b>2</b>	<b>The medical school has a webpage with specific information related to planetary health or sustainable healthcare that includes up-to-date information on relevant initiatives and contact information of potential mentors.</b>
1	There is a medical school webpage that features some information on projects and mentors within planetary health and sustainable healthcare within the medical school, but it lacks key information.
0	There is no medical-school specific webpage for locating planetary health and/or sustainable healthcare projects or mentors.
<p><i>Score explanation:</i> In 2022, the <a href="#">website for Student Clinicians for Climate Action at UVA</a> went live. We have separate pages that detail our current and completed projects, as well as resources related to planetary health. We also listed contact information of our members.</p>	

<b>4. Does your medical school have registered student groups dedicated towards fostering a culture of planetary health engagement, scholarship, and advocacy on campus, supported by faculty advisors?</b>	
<b>2</b>	<b>Yes, there is a student organization with faculty support at my medical school dedicated to planetary health or sustainability in healthcare.</b>
1	Yes, there is a student organization at my medical school dedicated to planetary health or sustainability in healthcare but it lacks faculty support.
0	No, there is not a student organization at my institution dedicated to planetary health or sustainability in healthcare.

*Score explanation:* UVA School of Medicine has a robust interdisciplinary group of Student Clinicians for Climate Action that has an official faculty advisor, funding through the School of Medicine student government, and Contracted Independent Organization status at the University. We are mentored by the state group [Virginia Clinicians for Climate Action](#).

**5. Is there a student liaison representing sustainability interests who serves on a medical school or institutional decision-making council to advocate for curriculum reform and/or sustainability best practices?**

<b>1</b>	<b>Yes, there is a student representative that serves on a medical school or institutional decision-making council/committee.</b>
0	No, there is no such student representative.

*Score explanation:* A medical student serves on the [Teaching and Research Subcommittee of the University Committee on Sustainability](#). Another medical student serves on the UVA Student Council Sustainability Agency. Another medical student and a nursing student together serve on the [Health Systems Sustainability Committee](#).

**6. In the past year, has the institution had one or more co-curricular planetary health programs or initiatives in the following categories? (1 point each)**

<b>1</b>	<b>Projects where students are able to gain experience in organic agriculture and sustainable food systems, such as gardens, farms, community supported agriculture (CSA), fishery programs, or urban agriculture projects.</b>
<b>1</b>	<b>Panels, speaker series, or similar events related to planetary health that have students as an intended audience.</b>
1	Events in which students learn directly from members of a local environmental justice community about the climate and environmental challenges they face, and how health professionals can partner with their community to address these exposures and impacts.
1	Cultural arts events, installations or performances related to planetary health that have students as an intended audience.
1	Local volunteer opportunities related to building community resilience to anthropogenic environmental impacts.
<b>1</b>	<b>Wilderness or outdoors programs (e.g., that organize hiking, backpacking, kayaking, or other outings for students)</b>

*Score explanation:* Outside of the medical school, the University offers programs related to organic agriculture and sustainable food systems through the Office for Sustainability such as a community garden and courses through [Morven Farms](#). Within the medical school, our social issues in medicine curriculum allows participation in local agriculture.

There is no substantial opportunity for panels, speaker series, or events outside of the curriculum hosted by the medical school. Infrequently there is a Medical Center Hour presentation. The school of nursing hosts an impressive Human Health in a Changing Climate event.

While arts events have been popular in the past, this year there have not been cultural events sponsored by either the medical school or the University to celebrate planetary health.

Charlottesville boasts many local organizations willing to accept student participants. The school of medicine does not sponsor opportunities to partner with these organizations.

SCCA partners with the Wilderness Medicine Interest Group and the Outdoor Adventures Club to host outdoor programs.

<b>Section Total (11 out of 15)</b>	<b>73.3%</b>
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# Campus Sustainability

***Section Overview:*** This section evaluates the support and engagement in sustainability initiatives by the medical school and/or institution. The healthcare industry is a major contributor to greenhouse gas emissions as well as pollution that harms local, regional, and global ecosystems. While healthcare is, by nature, a resource-intensive endeavor, the healthcare sector is well poised to lead the world to a more sustainable future. This will involve scrutinizing every aspect of how our systems operate, from where we source our energy, to how we build our infrastructure, to what companies we invest in. Our medical schools, clinics, and hospitals must set the standard for sustainable practices, and show other sectors what is possible when it comes to minimizing environmental impact.

1. Does your medical school and/or institution have an Office of Sustainability?	
3	<b>Yes, there is an Office of Sustainability with multiple full-time staff dedicated to campus sustainability. If the Office of Sustainability serves the entire campus, there is at least one designated staff member for sustainability at the hospital and/or medical school.</b>
2	There is an Office of Sustainability with one or more full-time staff dedicated to campus sustainability, but no specific staff member in charge of medical school and/or hospital sustainability.
1	There are no salaried sustainability staff, but there is a sustainability task force or committee
0	There are no staff members or task force responsible for overseeing campus sustainability
<p><i>Score explanation:</i> UVA has an <a href="#">Office of Sustainability</a> established in 2013 which supports university-wide sustainability efforts. A special projects coordinator is assigned to the health system.</p>	

2. How ambitious is your medical school/institution's plan to reduce its own carbon footprint?	
4	The institution has a stated goal of carbon neutrality by 2030 or earlier and the medical school / institution has a well-defined and adequate plan in place to achieve this goal.
3	<b>Yes, there is a stated carbon neutrality goal by at least 2040 and the medical school/institution has a well-defined and adequate plan in place to achieve this goal.</b>
2	Yes, there is a stated carbon neutrality goal by at least 2040, but the medical school/institution has not created a plan to reach that goal or the plan is inadequate.
1	There is a CO2 emission reduction goal, but it is not one of carbon neutrality.
0	There is no stated goal for reduction of CO2 emissions.
<p><i>Score explanation:</i> UVASOM is included in the <a href="#">2020-2030 Sustainability Plan</a>. The plan includes ten goals, including reaching carbon neutrality by 2030 and being fossil fuel free by 2050, with strategic action plans that build off of the 2016-2020 Sustainability Plan. A UVA sustainability and greenhouse</p>	

gas [reports](#) are released annually and sustainability [updates](#) are released quarterly to present quantitative details towards these goals.

**3. Do buildings/infrastructure used by the medical school for teaching (not including the hospital) utilize renewable energy?**

3	Yes medical school buildings are 100% powered by renewable energy
2	Medical school buildings source >80% of energy needs from off-site and/or on-site renewable energy.
1	<b>Medical school buildings source &gt;20% of energy needs from off-site and/or on-site renewable energy.</b>
0	Medical school buildings source <20% of energy needs from off-site and/or on-site renewable energy.

*Score explanation:* Approximately 20% of UVA's electricity comes from renewable sources. Most SOM buildings receive energy in the following 4 forms: electricity, chilled water, heating water and steam, and/or natural gas. Chilled water is an efficient way to provide cooling to many buildings at the same time. Likewise, heating water and steam are also pumped to many SOM buildings for heating. In the case of heating water and steam, the major inputs there are natural gas and coal from the UVA Main Heat Plant. (<https://sustainability.virginia.edu/steward/climate-action-energy>)

**4. Are sustainable building practices utilized for new and old buildings on the medical school campus, with design and construction of new buildings and remodeling of old buildings conforming to a published sustainability rating system or building code/guideline?**

3	<b>Yes, sustainable building practices are utilized for new buildings on the medical school campus and the majority of old buildings have been retrofitted to be more sustainable.</b>
2	Sustainable building practices are utilized for new buildings on the medical school campus, but most old buildings have not been retrofitted.
1	Sustainable building practices are inadequately or incompletely implemented for new buildings.
0	Sustainability is not considered in the construction of new buildings.

*Score explanation:* All new building projects are required to be LEED certified. Claude Moore Medical Education Building is one of 70 LEED projects at UVA. The library has been updated to be more energy efficient with lighting and HVAC systems. Several other buildings in which the SOM has space have also received energy efficiency upgrades, including Pinn Hall and MR-4. There is a large Smart Labs energy efficiency retrofit currently underway at MR-4 which is one of the largest building-wide efficiency efforts to date at UVA.

**5. Has the medical school implemented strategies to encourage and provide environmentally-friendly transportation options for students and reduce the environmental impact of commuting?**

2	<b>Yes, the medical school has implemented strategies to encourage and provide environmentally-friendly transportation options such as safe active transport, public transport, or carpooling and these options are well-utilized by students. Alternatively, the campus location is not amenable to unsustainable forms of transportation by default.</b>
1	The medical school has implemented some strategies to provide environmentally-friendly transportation options, but the options are unsatisfactorily accessible or advertised.
0	The medical school has not implemented strategies to encourage and provide environmentally-friendly transportation options.

*Score explanation:* University of Virginia offers free access to Charlottesville bus lines with a student ID to all students, including medical students. Additionally, most students live within walking distance and have access to nearby bus routes.

**6. Does your medical school have an organics recycling program (compost) and a conventional recycling program (aluminum/paper/plastic/glass)?**

2	Yes, the medical school has both compost and recycling programs accessible to students and faculty.
1	<b>The medical school has either recycling or compost programs accessible to students and faculty, but not both.</b>
0	There is no compost or recycling program at the medical school.

*Score explanation:* There is a recycling program in place, with recycling bins present throughout the UVA SOM and Hospital. Morrison Dining Center, which supplies the UVA Health Systems has recycling and compost bins available, but there is no well established compost program.

**7. Does the medical school apply sustainability criteria when making decisions about the campus food and beverage selections (e.g. local sourcing, reduced meat, decreased plastic packaging)?**

3	Yes, the medical school has adequate sustainability requirements for food and beverages, including meat-free days or no red-meat, and is engaged in efforts to increase food and beverage sustainability.
2	<b>There are sustainability guidelines for food and beverages, but they are insufficient or optional. The medical school is engaged in efforts to increase food and beverage sustainability.</b>

1	There are sustainability guidelines for food and beverages, but they are insufficient or optional. The medical school is not engaged in efforts to increase food and beverage sustainability.
0	There are no sustainability guidelines for food and beverages.
<p><i>Score explanation:</i> Morrison Dining supplies food to the health system and they have <a href="#">sustainability guidelines</a> established. There is a <a href="#">Sustainable Food Strategy Task Force</a> that is working to implement the UVA Sustainable Food Action Plan. Part of this plan includes reducing single serving food and beverage containers that would otherwise go to landfills by 20% by 2030. The plan also includes a goal of increasing sustainable food purchases by 2-3% by 2030.</p>	

<b>8. Does the medical school or associated institution apply sustainability criteria when making decisions about supply procurement?</b>	
3	Yes, the medical school has adequate sustainability requirements for supply procurement and is engaged in efforts to increase sustainability of procurement.
2	<b>There are sustainability guidelines for supply procurement, but they are insufficient or optional. The medical school is engaged in efforts to increase sustainability of procurement.</b>
1	There are sustainability guidelines for supply procurement, but they are insufficient or optional. The medical school is not engaged in efforts to increase sustainability of procurement.
0	There are no sustainability guidelines for supply procurement.
<p><i>Score explanation:</i> The <a href="#">Green Workplace Program</a> is a university-wide effort that includes the health system and focuses on improving sustainability in office spaces and supplies. The Green Workplace Program <a href="#">guidelines</a> are currently optional.</p>	

<b>9. Are there sustainability requirements or guidelines for events hosted at the medical school?</b>	
2	Every event hosted at the medical school must abide by sustainability criteria.
1	The medical school strongly recommends or incentivizes sustainability measures, but they are not required.
0	<b>There are no sustainability guidelines for medical school events.</b>
<p><i>Score explanation:</i> There are no published sustainability guidelines for events at the SOM.</p>	

<b>10. Does your medical school have programs and initiatives to assist with making lab spaces more environmentally sustainable?</b>	
2	<b>Yes, the medical school has programs and initiatives to assist with making lab spaces more environmentally sustainable.</b>

1	There are guidelines on how to make lab spaces more environmentally sustainable, but not programs or initiatives.
0	There are no efforts at the medical school to make lab spaces more sustainable.
<p><i>Score explanation:</i> The SOM is involved in the Green Labs program that awards certifications to labs that meet <a href="#">sustainability goals</a> related to cold storage, chemicals &amp; reagents, electronics &amp; appliances, materials &amp; refuse, and engagement. Labs at UVA can apply for a Green Labs certificate.</p>	

<b>11. Does your institution's endowment portfolio investments include fossil-fuel companies?</b>	
4	The institution is entirely divested from fossil fuels and has made a commitment to reinvest divested funds into renewable energy companies or renewable energy campus initiatives.
3	No, the institution is entirely divested from fossil fuels.
2	The institution has partially divested from fossil fuel companies or has made a commitment to fully divest, but currently still has fossil fuel investments.
<b>1</b>	<b>The institution has not divested from fossil-fuel companies, but faculty and/or students are conducting organized advocacy for divestment.</b>
0	Yes, the institution has investments with fossil-fuel companies and there have been no efforts to change that.
<p><i>Score explanation:</i> As of 2020, UVA's endowment was not divested from fossil fuels. The student-led coalition called <a href="#">Divest UVA</a> is advocating for UVA's divestment from fossil fuels.</p>	

<b>Section Total (20 out of 31)</b>	<b>64.5%</b>
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# Grading

## Section Overview

This section focuses on the grading of the report card. The institution received a grade for each of the individual sections as well as an overall institutional grade. Section point totals were tallied, divided by the total points available for the section, and converted to a percentage. The overall institutional grade is a weighted average of the section grades, with curriculum receiving a higher weight owing to its larger number of metrics. Letter grades for each section and the institution overall were then assigned according to the table below.

Letter Grade*	Percentage
A	80% - 100%
B	60% - 79%
C	40% - 59%
D	20% - 39%
F	0% - 19%

*\*Within each grade bracket, a score in the top 5% (\_5 to \_9%), receives a “+”, and a score in the bottom 5% (\_0- \_4%) receives a “-”. For example, a percentage score of 78% would be a B+.*

## Planetary Health Grades for the University of Virginia School of Medicine

The following table presents the individual section grades and overall institutional grade for the University of Virginia School of Medicine on this medical-school-specific Planetary Health Report Card.

Section	Raw Score	Letter Grade
<b>Planetary Health Curriculum (30%)</b>	$(24 / 69) \times 100 = 34.7\%$	D
<b>Interdisciplinary Research (17.5%)</b>	$(13 / 17) \times 100 = 76.4\%$	B+
<b>Community Outreach and Advocacy (17.5%)</b>	$(5 / 14) \times 100 = 35.7\%$	D+
<b>Support for Student-led Planetary Health Initiatives (17.5%)</b>	$(11 / 15) \times 100 = 73.3\%$	B
<b>Campus Sustainability (17.5%)</b>	$(20 / 31) \times 100 = 64.5\%$	B-
<b>Institutional Grade</b>	<b>54.1%</b>	<b>C</b>

# Report Card Trends

## Section Overview

This graph demonstrates trends in overall and section grades for the years in which the University of Virginia School of Medicine has participated in the Planetary Health Report Card initiative.

## PHRC Trends for the University of Virginia School of Medicine

