PLANETARY HEALTH REPORT CARD NURSING PROGRAMS

University of Minnesota School of Nursing

2022 Contributing Team

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As they prepare to enter the largest workforce in healthcare, nursing students are uniquely positioned to confront the challenges of climate change in the arena of human health. While the format and curriculum in nursing may vary between programs, degrees, and nationalities, the core tenets of planetary health can and must be integrated throughout nursing education. The role of the nurse is one of the most unique and multi-faceted; from the bedside to research, nurses have the ability to enact real change at many levels. With these potential impacts in mind, the ramifications of pollution, extreme weather, vector-borne diseases, unsustainable agriculture, and rising sea levels must be addressed in the nursing curriculum. Equally important, the socioeconomic and disproportionately affected communities of these manifestations must also be included in nursing education.

Goals

- Operate as a gap analysis for nursing programs to identify planetary health strengths and opportunities for growth.
- Assemble synthesized, program-specific information on planetary health resources useful for faculty, staff, and students.
- Facilitate sharing of planetary health resources across programs.
- Track progress in implementing and optimizing planetary health curriculum and resources.
- Advance the global planetary health movement in pursuit of a healthier and more equitable world.
- Utilize as a long-term metric that accounts for improvements and opportunities for growth continuously each year.
- Highlight successes and collaborations regarding planetary health in institutions through thorough evaluation of metrics.

Glossary of Terms

- *Anthropogenic*: Created through human activity
- *Planetary health*: "Planetary health is 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." (Planetary Health Alliance, 2022).
- Nursing program: any pre-licensure program responsible for the training of professional nurses

- *Sustainability*: the principle of creating and maintaining conditions under which humans and nature can exist in productive harmony to support present and future generations (United States Environmental Protection Agency, 2021).
- *Marginalized communities*: Groups excluded from mainstream economic, educational, social, and/or cultural experiences due to race, gender identity, sexual orientation, age, physical ability, language, and/or immigration status (Sevelius et al., 2020).

How It Works

The PHRC utilizes percentages for each section below to determine a "grade" of success in the integration of planetary health in nursing institutions. For each metric, students should interview faculty and stakeholders in their institution to determine if the metric has been met. If the metric is not applicable for your institution, no numerical points will be considered. If the metric is not addressed at all in the program, a zero (0) will be assigned to the metric. If the metric occasionally or somewhat addressed in the program, a one (1) will be assigned. If the metric is consistently covered or addressed in the program, a two (2) will be assigned. All metrics will be best utilized if they are accompanied by examples or explanations in the box provided. This will allow for the nuance and context for each metric, as well as a space to celebrate the successful aspects of the institution. At the end of each section, the section point totals will be tallied, divided by the total points available for the section, and converted to a percentage. That percentage translates into the grades below:

Letter Grade	Percentage
А	80% - 100%
В	60% - 79%
С	40% - 59%
D	20% - 39%
F	0% - 19%

Main Key for Grading

Not Applicable to my	No, not at all (0)	Yes, does so on	Yes, does so
program (N/A)		occasion (1)	consistently (2)
<i>Optional</i> : Use this space to provide examples that support your scoring		ir scoring	

Curriculum

The curriculum for nursing programs around the world share many core topics regarding health and the medical system. In order to create a truly holistic education that includes the implications of our changing climate, the subject must be integrated into the nursing curriculum. As future frontline workers, nurses will experience the dire consequences of climate change first hand, and must be equipped to not only care for afflicted patients, but to encourage preventative change. We are already seeing the impacts on human health that pollution and extreme weather can bring, and the nursing curriculum must reflect these realities.

Section I: Curriculum

METRICS

1.1 Does your nursing school offer courses/extracurricular activities regarding the relationships between extreme weather events and climate change?

N/A	0	1	2
2: The SON hosts a yearly <u>guest lectureship</u> featuring a speaker who works in the planetary health realm. The UMN also supports and co-hosts the <u>Code Blue for Patient Earth conference</u> .			
Starting 09/2022 the SON will offer a course called <u>"NURS 8212 - Planetary Health: Cross-Cutting</u> <u>Principles for Nursing Research</u> " with the course description as follows: "Ecosystem transformations due to human activity have a serious impact on global health. Students will analyze scientific evidence and discuss ethics about the effects of ecosystem changes on human health. Opportunities for nursing research and theory development to promote planetary health will be identified." This course will not be required.			
The <u>Climate Change and Health Curriculum</u> is available on the Planetary Health website for anyone to use, but is not embedded in the nursing curriculum.			

1.2 Does your program provide education regarding the impacts of extreme weather events, e.g. storm, flooding, heat, drought, air pollution, on individual health?

N/A	0	1	2
2: The <u>Climate Change and Health Curriculum</u> is available on the Planetary Health website for anyone to use, but is not embedded in the nursing curriculum.			
As of February 2022, the SON is working to integrate Planetary Health as a core concept in the curriculum for all levels of education.			
Starting 09/2022 the SON will offer a course called <u>"NURS 8212 - Planetary Health: Cross-Cutting</u> Principles for Nursing Research" with the course description as follows: "Ecosystem transformations			

due to human activity have a serious impact on global health. Students will analyze scientific evidence and discuss ethics about the effects of ecosystem changes on human health. Opportunities for nursing research and theory development to promote planetary health will be identified." This course will not be required.

1.3 Does your program include education regarding mental health issues and well-being effects resulting from environmental degradation due to extreme weather events in education material?

N/A	0	1	2	
1 See evidence for metric 1.2.				
In the DNP Psych Mental Health program, faculty address eco-anxiety and existential fear due to exacerbated climate events.				

1.4 Does your nursing curriculum address impacts of climate change on the changing patterns of infectious diseases?

N/A	0	1	2
In the BSN program, mic	<u>Health Curriculum</u> is avaiuse, but is not embedded robiology (VBS 2032) and een climate change and in	1 for metric 1.2. ilable on the Planetary Hea in the nursing curriculum. d Public Health Nursing (N fectious disease. These are rogram.	4321) has some content

1.5 Does your nursing curriculum address pathophysiological health effects resulting from climate change, including effects such as air, soil and water pollution?

N/A	0	1	2
1 See evidence for metric 1.2.			
The health effects resulting from a warming climate are addressed in the undergraduate course NURS 5033.			

1.6 Does your nursing curriculum address mental health issues and well-being effects resulting from environmental degradation due to climate change?

N/A	0	1	2
	es such as eco-anxiety and	2 for metric 1.2. d existential fear are covere duate and undergraduate le	

Additionally, the Center for Spirituality and Healing focusing on wellbeing and nature-based solutions. This course is required for DNP students.

This content is also addressed in N 4321 Public Health Nursing as part of the BSN program requirement.

1.7 Does your nursing curriculum address relationships between climate change, food and water security and the impact on health?

N/A	0	1	2
Food and water securit	y, displaced populations, a	: for metric 1.2. nd impacts of climate chan blic health course.	ge are mentioned in the

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

N/A	0	1	2
1: See evidence for metric 1.2.			
Both the Women's Health and Family Practice DNP programs cover reproductive health effects due to environmental toxins.			

1.9 Does your nursing curriculum address important human-caused environmental threats that are relevant to the university or program's surrounding community?

N/A	0	1	2	
1: Currently, the <u>BSN program</u> has identified "The Environment" as one of 5 designated themes. Students must take a course that satisfies 4 of these 5 themes, but fulfilling "The Environment" theme is not strictly required.				
The <u>Climate Change and Health Curriculum</u> is available on the Planetary Health website for anyone to use, but is not yet embedded in the nursing curriculum. Some faculty use the content but use by all faculty is not universal.				
As of February 2022, the SON is working to integrate Planetary Health as a core concept in the curriculum for all levels of education.Concepts will be adapted from the <u>Planetary Health</u> <u>Education Framework</u> .				
Principles for Nursing R	Research" with the course d	ed <u>"NURS 8212 - Planetary</u> lescription as follows: "Ecc bal health. Students will an	osystem transformations	

and discuss ethics about the effects of ecosystem changes on human health. Opportunities for nursing research and theory development to promote planetary health will be identified." This course will not be required.

1.10 Does your nursing school curriculum address relationships between ecosystem health and climate change?

N/A	0	1	2
	l See evidence	l: for metric 1.9.	

1.11 Does your nursing curriculum address impacts of extreme weather events on healthcare systems?

N/A	0	1	2
	l See evidence	1: for metric 1.9.	

1.12 Does your nursing curriculum address socioeconomic/racial disparities in extreme weather exposure?

N/A	0	1	2
_	mmitment to DEI that has are of the connection and t	2: for metric 1.9. been in place for several y hey regularly work in tando netary Health	

1.13 Does your nursing curriculum address inequitable health impacts of climate change globally?

N/A	0	1	2
	2 See evidence for n	2: netric 1.9 and 1.12.	

1.14 Does your nursing curriculum address climate and environmental health challenges that impact marginalized populations and communities?

N/A	0	1	2
		2: netric 1.9 and 1.12.	

1.15 Does your nursing curriculum address the impact of environmental degradation due to climate change on marginalized populations and communities?

N/A	0	1	2
		2: netric 1.9 and 1.12.	

1.16 Does your nursing curriculum address outsized impacts of anthropogenic environmental toxins on marginalized populations and communities?

N/A	0	1	2
		2: netric 1.9 and 1.12.	

1.17 Does your nursing program specifically have planetary health as part of its mission and/or values?

N/A		0	1	2
Yes, the sc	hool of nur	2 sing <u>vision</u> is "Optimal hea	2: alth and well-being for all I	people and the planet."

1.18 Does your school have an appointed faculty or staff responsible for planetary health and environmental nursing?

N/A	0	1	2
The University of Minnes	e 11	2: pointed <u>Dr. Teddie Potter a</u> the role since 2019.	s the director of planetary

Section Score: 28/36	Grade: 78% (B)
Notes:	Resources:

INTERDISCIPLINARY RESEARCH AND COLLABORATION IN HEALTH AND ENVIRONMENT

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 medical field. As institutions tasked with creating the next generations of nurses and advanced practitioners, nursing schools should fund and support research studying the health effects of climate change. Furthermore, it is imperative for the health systems in which the nursing schools exist to encourage interdisciplinary cowork between the nursing, medical, pharmacy, and allied health schools to further the efficacy of research and education.

Section II: Interdisciplinary Research and Health and Environment

METRICS

2.1 Are there researchers or faculty engaged in planetary health research and/or healthcare sustainability research or scholarship at your nursing program's institution?

N/A	0	1	2	
2 Dr. Teddie Potter, Director of Planetary Health for the UMN School of Nursing has engaged in extensive scholarship in planetary health				
There are also many graduate and undergraduate students that are building a scholarship portfolio in planetary health supported by the UMN SON faculty.				

2.2 Does your nursing program support scholarly dissemination on topics of planetary health (e.g., peer-reviewed publications, conference presentations, abstracts, etc.)?

N/A	0	1	2		
2 The UMN School of Nursing has hosted several planetary health programs that showcase scholarly					
		l and its supporters			
		oting Planetary Health V Living Sustainably			
		tary Health Pledge			
Presentation on the School's approach to Planetary Health at the Midwest Nursing Research Society					
Conference.					

2.3 Is there a process by which communities or patients disproportionately impacted by climate change and environmental injustice can give input or make decisions about the research agenda at your nursing program's institution?

N/A	0	1	2
Related to Planetary Community Church both from the Ojibway Nat	Health, the Director is wor in the Black community a ion in Northern Minnesota	2 form of advisory committee rking with Northside Healin and with Leah Prussia and o a. In addition, the School w e who have broad commun	ng Space and Liberty other indigenous scholars orks very closely with

2.4 Does your nursing program's institution have a planetary health website, or a website centralizing various program resources related to health and the environment?

N/A	0	1	2
2			
	UMN SON Planet	ary Health Website	

2.5 Has your nursing program's institution recently hosted a conference or symposium on topics related to planetary health?

N/A	0	1	2		
2					
The UMN SON hosts annual Planetary Health Guest Lectureship					
Inaugural Lectureship:Dene Ch'anié ('the path we walk'): Indigenous Perspectives on Planetary Health https://www.youtube.com/watch?v=SAUcZmXmvKY					
2nd Annual Lectureship: Decarbonizing Health Care- An Urgent Challenge and Opportunity for					
Change					

2.6 Has your nursing program joined the Alliance for Nurses for Healthy Environments, the Planetary Health Alliance, the Global Consortium on Climate and Health Education, or the Nursing Climate Challenge?

N/A	0	1	2
	ce, the Global Consortium	2 he Alliance for Nurses for 1 on Climate and Health Edu Challenge	

2.7 Does your program offer Interdisciplinary Education (IPE) simulations or experiences regarding the health risks of climate change and other environmental disruptions?

N/A	0	1	2
While the above course	e is a comprehensive IPE c f the DNP specialties are s	l reating an Empowered Mo ourse, there are opportuniti starting to include disaster p lum as well.	es for the SON to offer

2.8 Does your nursing school's curriculum introduce strategies for having conversations with patients, nursing home residents, visitors and other health professions about the health effects of climate change and other environmental disruptions?

N/A	0	1	2
Principles for Nursing F due to human activity ha and discuss ethics about research and theory dev As of February 2022, the for all levels of educati	Research" with the course of ve a serious impact on glo the effects of ecosystem of elopment to promote plane be required and is only SON is working to integrate on. Concepts will be adapte ties to bolster curriculum t	1 ed "NURS 8212 - Planetary description as follows: "Eco bal health. Students will an changes on human health. C etary health will be identifie a graduate level course. e Planetary Health as a core ed from the Planetary Health that explore strategies listed licensure MN programs.	osystem transformations alyze scientific evidence Opportunities for nursing ed." This course will not concept in the curriculum Education Framework.

Section Score: 14/16	Grade: A (88%)
Notes:	Resources:

Community Outreach and Advocacy

Researching and teaching planetary health is necessary but not sufficient. It is critical that institutions also directly engage with communities impacted by disruptions of the environment and Earth's natural systems. For example, even though climate change is a problem largely created by those with power and resources, its impacts fall disproportionately on BIPOC populations and low resourced communities. Institutions should partner with local communities affected by environmental degradation to share information about environmental health threats, advocate together for change, and provide students with opportunities to connect with the communities they serve.

Section III: Community Outreach and Advocacy

METRICS

3.1 Does your nursing program partner with community organizations to promote planetary and environmental health?

N/A	0	1	2	
· · · · ·	e	2 tions and venues such as H isciplinary connection betw hin the UMN.	· · ·	

3.2 Is your nursing program engaged in community facing courses or events regarding planetary health?

N/A	0	1	2
	netary health issues. There	2 ing and depending on stude are many events that are h planetary health.	

3.3 Does your nursing program have regular coverage of issues related to planetary health and/or sustainable health care in program update communications?

N/A	0	1	2
Facul Additionally, the Schoo The website designated t	ty and staff receive weekly l of Nursing magazine cov o planetary health offers m are. Additionally, student o	2 Ily Planetary Health Messa updates through Inside Nu ers some of the news surro fore recognition to various organizations, such as Heal updating student bodies.	unding planetary health. topics of planetary health

3.4 Does your nursing program offer continuing education courses or interprofessional experiences that address planetary health and/or sustainable health care?

N/A	0	1	2
· · ·	A	2 address sustainable health ue for Patient Earth which	

3.5 Does your nursing program participate in or encourage advocating for policies addressing planetary health issues?

N/A	0	1	2
changes th The SoN has a strong re	hat address planetary health elationship with Alliance of	2 s and promotes local, regio h issues caused by the Anth of Nurses for Healthy Envir of Nursing and promotes st	ropocene. conments, the American
	•	ip, as well as practicums.	addent connections and

3.6 Has your nursing program partnered with local, regional, or national health care institutions/organizations to promote planetary health related education for the public?

N/A	0	1	2
regional and national heat	Ith care organizations inclu	2 of Planetary Health have pa uding Planetary Health All al Consortium on Climate a	iance, Alliance of Nurses

Section Score: 12/12	Grade: A (100%)
Notes:	Resources:

SUPPORT FOR STUDENT-LED PLANETARY HEALTH INITIATIVES

The future of planetary health belongs to the next generation of healthcare workers, and students are often the first at an institution to address the crisis. Nursing programs should encourage student engagement in planetary health and/or sustainability initiatives by providing mentorship, facilitating opportunities for educational and immersion experiences, and securing funding for student-led research and quality improvement projects. These efforts not only encourage student activity, but at best can work in cohesion with community projects.

Section IV: Support for Student-Led Planetary Health Initiatives

METRICS

4.1 Does your nursing program or educational institution have a student representative serving on a nursing programme or educational institution decision-making committee advocating for planetary health and/or sustainability best practice?

N/A	0	1	2
"an interdisciplinary st	udent group aimed at helpi	2: led <u>Health Students for a H</u> ng health professionals lea ce action as future health le	rn about the impacts of

4.2 Does your nursing program or educational institution have a central location where students can find information relating to planetary health and/or sustainability activities within the nursing programme. For example, a website outlining projects achieved, current initiatives, and/or contact information of mentors?

N/A	0	1	2	
2: <u>UMN SON Planetary Health Website</u>				

4.3 Does your nursing program or educational institution provide opportunities for nursing students to conduct research related to planetary health and/or sustainability in healthcare?

N/A	0	1	2
Principles for Nursing F due to human activity ha	Research" with the course of ve a serious impact on glo	2: ed <u>"NURS 8212 - Planetary</u> lescription as follows: "Eco bal health. Students will an hanges on human health. C	osystem transformations alyze scientific evidence

research and theory development to promote planetary health will be identified." This course will not be required.

Students in the Health Innovation and Leadership DNP program can choose to focus on Planetary Health and are encouraged to do a DNP project in this area.

Some faculty at the School are involved in research such as nature-based therapeutics and healthy eating for a healthy planet. PhD candidates who want to do research in these areas and undergraduates wanting to explore these areas are gaining mentorship from these research faculty.

4.4 Does your nursing program or educational institution support nursing students interested in enacting planetary health and/or sustainability initiatives or quality improvement projects?

N/A	0	1	2
guest lectures and o	conferences related to plane Planetary Health as a core	2: ities to get involved in initia etary health. This year, DN concept of the nursing cur adaptation.	P students have the

4.5 Does your nursing program or educational institution offer opportunities for nursing students to teach or present about planetary health and/or sustainability in healthcare related topics?

N/A	0	1	2
health. This year, HIL stu	idents will present Planeta	2: nities for DNP students to ry Health as a core concept ion at a national Planetary	of nursing curriculum to

4.6 Does your nursing program or educational institution provide one or more annual co-curricular/cross-school/cross-faculty planetary health and/or sustainability program or initiatives in the following categories:

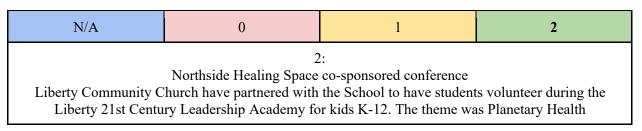
• Projects where students can gain experience in organic agriculture and sustainable food systems. For example, gardens, farms, community supported agriculture, fishery programmes, or urban agriculture projects?

N/A	0	1	2
	1 <u>IP Student G</u>	: arden Project	

• Events in which students learn directly from members of a local environmental justice community about the environmental challenges they face?

N/A	0	1	2		
2:					
<u>Planetary Health Guest Lectureship</u> Code Blue for Patient Earth conference.					
Work with Northside Healing Space and a 3-day conference co-sponsored by the School					

• Local volunteer opportunities related to building community resilience to anthropogenic environmental impacts?



• Wilderness or outdoor programmes that follow "leave no trace" principles. For example, hiking, kayaking, or other outings for students?

N/A	0	1	2
0: Metric not met.			

Section Score: 15/18	Grade: A (83%)
Notes:	Resources:

Sustainability

Often the most visible and accessible of the planetary health efforts, sustainability can take on many forms. As future healthcare workers, it is important to identify and nurture both a culture of sustainability and actionable items to work towards within our systems. 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. Creating a more sustainable future of healthcare will require more intentional procurement, thorough recycling and waste management, and continuing education to foster a healthcare environment that works towards planetary health.

Section V: Sustainability

METRICS

5.1 Does your nursing program or program's institution have designated staff responsible for sustainability?

N/A	0	1	2
-	2 nnesota adopted a policy o e, employed a sustainabilit instit	•	*

5.2 Does your nursing program or program's institution have a stated goal of carbon neutrality?

N/A	0	1	2
The University of Minnes	2 sota goals for carbon neutra reduce them to	2: ality are to cut carbon emis o zero by 2050.	sions in half by 2021 and

5.3 Do buildings or other infrastructure used by the nursing programs for teaching (not including hospitals) utilize renewable energy?

N/A	0	1	2
Yes. The University ob	2 stains some of its electricity	2: / supply from renewable so	ources (wind and solar).

5.4 Has the nursing program implemented strategies to encourage and provide environmentally friendly transportation options for students?

N/A 0	1	2
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2:

The University has done several things. The <u>UPass</u> discounted transit pass, Bike sharing, bike parking and maintenance facilities, the ZAP bike rewards program, on and off-road bike paths, micro mobility options (i.e. scooters), walking resources, etc.

5.5 Does your nursing program have a recycling program?

N/A	0	1	2
The School facilities h	recycling program. It A ave full recycling option/b	2: chool but the University of All Adds Up campaign. ins placed throughout all cl ollection throughout the Scl	lassroom spaces and in

5.6 Are there sustainability requirements or guidelines for events, simulations, or training hosted by the nursing program?

N/A	0	1	2
	blates, cups, etc. are compo outside groups who i sistently consider sustainab	2: ostable. The faculty have correspect these choices. oility actions conducted dur nool.	

5.7 Has your institution pledged to become fossil-free and have a plan for divestment?

	0	1	2
The UMN has	2 a plan to divest from foss	2: il fuels entirely within the	next 5-7 years.

5.8 Does your school promote sustainable practices during demonstration, practice and assessment of clinical skills?

N/A	0	1	2
There is consideration d	l uring practice of clinical sk	: cills for reuse and recycling	g of items when possible.

5.9 Does your nursing school curriculum highlight the environmental and health co-benefits of a sustainable lifestyle, e.g. plant-based diet, sustainable agriculture principles?

N/A 0	1	2
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1: Yes. Some specialties provide deeper learning surrounding these topics eg. HIL & Integrative health.There are some elective options available to nursing students. See "Curriculum" metrics for more details.

5.10 Does your nursing program curriculum or coursework highlight the waste generated by healthcare provision?

N/A	0	1	2
generated by healthcare	is addressed. Planetary he oduced to all students in the further embed planetary	: cuses on systems change an alth is embedded in the cur e nursing program. Continu health in the curriculum. etrics for more details.	rriculum for some of the

5.11 Does your program identify ways to advocate and mitigate for sustainable best practices in health care?

N/A	0	1	2
sustainable practices in h The School's Dire	health care. There are elect include more learning on ctor of Planetary Health se lealth Sector and works wi	2: nities for learning in advocatives available for added leant these topics than others. The rves on the National Acade the the MN Dept. of Health sustainable practices.	arning. Some specialities emy of Medicine's

5.12 Does your program apply sustainability criteria when making decisions about supply procurement?

N/A	0	1	2	
2: Yes. The School facility directors are very aware of sustainability best practices. All of the School's				
		that align with sustainable		

Section Score: 21/24	Grade: A (88%)
Notes:	Resources: Our Sustainability Story UMN Sustainability Under student pressure, U of Minn. to phase out fossil fuel investments - StarTribune.com

Summary of Findings

urric	culum	В				
•	 Planetary health curriculum is a work in progress for the UMN School of Nursing. There is clearly a strong desire to incorporate planetary health topics throughout all programs at the School. The strongest evidence is in the lectureships, newly developed course (NURS 8212), and the extracurricular events hosted by the School's Director of Planetary Health. There are opportunities for the School to intentionally embed planetary health curriculum into all programs by explicitly identifying planetary health as a core competency of each degree. This would require that the School demonstrate evidence of learning on topics of planetary health. 					
nterd	isciplinary Research and Collaboration in Health and the Environment	Α				
•	in planetary health as a priority. There are faculty researchers studying planetary health topics and mentorship for undergraduate and graduate students interested in planetary health. The School has appointed the first Director of Planetary Health which has enabled strong interdisciplinary work and scholarly dissemination of planetary health initiatives.					
Comm	unity Outreach and Advocacy	Α				
•	professional organizations and community organizations to advance planetary health initiatives This has identified the School as a leader in the national nursing planetary health community.					
uppo	rt for Student-led Planetary Health Initiatives	А				
•	 A majority of the student-led planetary health initiatives are available through the Scho DNP and PhD programs. For example, DNP projects and PhD dissertations can be focu planetary health related topics. The DNP in Health Innovation and Leadership has iden Planetary Health as a core pillar of the specialty. There are also opportunities for studen any program to join the interprofessional group Health Students for a Health Climate. 					

• There are opportunities for the School to incorporate student-led sustainable food practices and "leave no trace" principles into programs and curriculum.

Sustainability

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- The University of Minnesota has developed a strong sustainability program with several designated sustainability leaders. UMN is committed to building a fully sustainable future and has a goal to be carbon neutral by 2050. The UMN School of Nursing, supports and implements sustainability practices in their facilities, clinical work, and curriculum.
- There is an opportunity to embed environmental sustainability learnings into curricula for all programs and specialities.

Final Overall Grade		
Section	Raw Score	Grade
Curriculum	28/36 (78%)	В
Interdisciplinary Research/Collaboration	14/16 (88%)	А
Community Outreach/Advocacy	12/12 (100%)	А
Student-led Initiatives	15/18 (83%)	А
Sustainability	21/24 (88%)	А
Institutional Grade	90/106 (85%)	Α

References

- Planetary Health Alliance. (2022). *Planetary Health*. https://www.planetaryhealthalliance.org/planetary-health
- United States Environmental Protection Agency. (2021). *Learn about sustainability*. https://www.epa.gov/sustainability/learn-about-sustainability#what

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