SUSTAINABILITY PLANNING, CERTIFICATE IN (POST-BACCALAUREATE GRADUATE CERTIFICATE)

Program mission
The mission of the Certificate in Sustainability Planning is to provide students with a better understanding of society’s land use and natural resource systems, with a particular emphasis on the factors that contribute to or constrain their level of sustainability. The program aims to give students the knowledge and skills needed to identify and address barriers to sustainability and to formulate strategies to create more sustainable practices, systems and institutions. Using a holistic and integrated approach, the program emphasizes the interdependence of sociocultural, biophysical and political-economic dimensions of sustainability, especially as they relate to urban or other subnational regions.

An important theme of the program is that sustainability planning is primarily about influencing humans and their activities by modifying organizational structures, economic policies and legislative frameworks. Therefore, of paramount importance are topics normally associated with the biophysical sciences, such as ecology and geomorphology. However, sustainability is an interdisciplinary science, and thus students must also examine topics typically linked to the biophysical sciences, such as ecology and geomorphology.

Students will acquire knowledge and skills that complement backgrounds in engineering, environmental and social sciences, business or other fields.

Program goals
1. Provide students with a better understanding of the sociocultural, biophysical and political-economic dimensions of the key problems faced by society with regard to natural resources and the environment — particularly in the context of urban and other subnational regions.
2. Develop students’ insights on the underlying causes of these problems and on the political-economic and sociocultural factors that constrain the ability to address them more effectively.
3. Help student acquire the analytical and professional skills needed to identify and address barriers to sustainability and to formulate strategies to develop more sustainable lifestyles, systems and institutions.

Student learning outcomes
1. Students will develop a well-rounded knowledge of sustainability, with particular emphasis on the following elements:
   a. Factors influencing sustainability at the individual, household, community, regional, national and international scale
   b. Balancing environmental, economic and social objectives in decision-making
   c. The relationship between the built and natural environments and their effects on human health and well-being
   d. Linkages among consumptions/lifestyle patterns, technology, regional carrying capacity and sustainability
   e. Political-economic influences on land/resource use, community design, transportation and other human systems
   f. Energy and natural resource efficiency and conservation
   g. Renewable resource use, environmental management and landscape/habitat protection
   h. Environmental remediation

2. Students will be able to communicate clearly and effectively, using a variety of methods, to enhance the collaborative and public nature of their work.
3. Students will acquire the analytical and research skills needed to investigate a sustainability-related problem and develop strategies for addressing it.
4. Student will acquire organizational skills and knowledge of management practices frequently employed within planning and related fields.

VCU Graduate Bulletin, VCU Graduate School and general academic policies and regulations for all graduate students in all graduate programs
The VCU Graduate Bulletin website documents the official admission and academic rules and regulations that govern graduate education for all graduate programs at the university. These policies are established by the graduate faculty of the university through their elected representatives to the University Graduate Council.

It is the responsibility of all graduate students, both on- and off-campus, to be familiar with the VCU Graduate Bulletin as well as the Graduate School website (http://www.grad.vcu.edu/) and academic regulations in individual school and department publications and on program websites. However, in all cases, the official policies and procedures of the University Graduate Council, as published on the VCU Graduate Bulletin and Graduate School websites, take precedence over individual program policies and guidelines.

Visit the academic regulations section for additional information on academic regulations for graduate students. (http://bulletin.vcu.edu/academic-reggs/)

Graduation requirements
As graduate students approach the end of their academic programs and the final semester of matriculation, they must make formal application to graduate. No degrees will be conferred until the application to graduate has been finalized.

Graduate students and program directors should refer to the following graduation requirements as published in the Graduate Bulletin for a complete list of instructions and a graduation checklist.

Visit the academic regulations section for additional information on graduation requirements. (http://bulletin.vcu.edu/academic-reggs/grad/graduation-info/)

Apply online today. (https://www.vcu.edu/admissions/apply/graduate/)
Admission requirements

<table>
<thead>
<tr>
<th>Degree</th>
<th>Semester(s) of entry</th>
<th>Deadline dates</th>
<th>Test requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certificate</td>
<td>Fall</td>
<td>April 1 (Mar 1 for financial aid)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Oct 1</td>
<td></td>
</tr>
</tbody>
</table>

Special requirements

- These deadlines are designed to allow sufficient time for application review and admission processing. Applications may be submitted after the deadline; however, there is no guarantee of sufficient time for processing. Any application submitted too late for current semester processing will be considered for the following semester.

In addition to the general admission requirements of the VCU Graduate School (http://bulletin.vcu.edu/graduate/study/admission-graduate-study/admission-requirements/), the prerequisites and general criteria of eligibility for admission to the sustainability planning certificate program include:

1. Completion of an official application form
2. Three letters of reference
3. Letter of intent describing interest in applying for the Certificate in Sustainability Planning
4. An official transcript showing successful completion of a baccalaureate degree or its equivalent from an accredited college or university with a minimum grade point average of 2.7 (out of 4.0) in the last 60 hours of undergraduate study

All courses in the graduate Certificate in Sustainability Planning may be applied to meet the requirement of the Master of Urban and Regional Planning degree. However, successful completion of the certificate does not guarantee admission into the M.U.R.P. degree program.

Curriculum requirements

The mission of the Certificate in Sustainability Planning is to provide students with a better understanding of society's land use and natural resource systems, with a particular emphasis on the factors that contribute to or constrain their level of sustainability. The three core courses will provide subject matter knowledge on sustainable community development, natural resources management, and environmental policy and planning. In addition, students must take one course that focuses on socioeconomic sustainability to gain knowledge on the social equity aspect of sustainability planning. The remaining electives will provide an opportunity for more in-depth knowledge and training in specific subfields within sustainability (e.g., energy, land use or food systems) or disciplines to which a sustainability approach can be applied, such as housing policy.

Degree requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>URSP 637</td>
<td>Sustainable Community Development</td>
<td></td>
</tr>
<tr>
<td>URSP 650</td>
<td>Natural Resources and Environmental Planning</td>
<td></td>
</tr>
<tr>
<td>URSP 655</td>
<td>Environmental Policy and Planning</td>
<td></td>
</tr>
<tr>
<td>Restricted elective (social equity)</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Select one from:

- URSP 622 Community Socioeconomic Analysis Using GIS
- URSP 641 Citizen Participation and Negotiation
- URSP 643 Housing Policy

Select two from:

- URSP 545 Sustainable Energy Policy and Planning
- URSP 621 Introduction to Geographic Information Systems
- URSP 628 Land Use Planning
- URSP 672 Food Systems, Rural Development and Landscape Conservation
- URSP 681 International Urban Policy and Planning

Total Hours 18

With approval from the program director, other 500- and 600-level courses offered within and beyond the Wilder School can fulfill the sustainability application electives requirements. The program director will review substitution requests to maintain a commitment to the specialization and general intent of the certificate.

The minimum total of graduate credit hours required for this certificate is 18.

Contact
Xueming (Jimmy) Chen, Ph.D.
Professor and program chair
xchen2@vcu.edu
(804) 828-1254

Additional contacts
Benjamin Teresa, Ph.D.
Assistant professor and assistant program chair
bfteresa@vcu.edu
(804) 828-8297

Wilder School recruitment
wsrecruit@vcu.edu
(804) 827-0364

Program website: wilder.vcu.edu/programs/urban-and-regional-studies-planning (https://wilder.vcu.edu/programs/urban-and-regional-studies-planning/)