studies in a variety of disciplines. Career paths are numerous and include advocacy, agriculture, business, design, education, enforcement, journalism, law, nature and land protection, organizing for social and environmental justice, tourism and recreation, etc. Our students come from diverse backgrounds, participate regularly in internships and study abroad, and benefit from personalized advising.

Special facilities of the department include fully equipped laboratories in computer cartography, geographic information systems, remote sensing, and physical geography, plus a 130-acre field camp for instruction and research.

Graduate Programs
The Department of Geography, Environment, and Sustainability offers the M.A. in Applied Geography, the Ph.D. in Geography, a Post-Baccalaureate Certificate in Global and Regional Studies Geography, and a a Post-Baccalaureate Certificate in Sustainability. The department also offers a a Post-Baccalaureate Certificate in Urban and Economic Development jointly with the Department of Political Science; for more information, see the program page at https://catalog.uncg.edu/arts-sciences/political-science/urban-economic-development-pbc/. The programs focus on the application of theory and methods in geography toward the understanding of problems related to economic development, environmental quality, population change, and social well-being in urban, rural, regional, and international contexts.

Environment & Sustainability Program
Aaron S. Allen, Director and Honors Program Liaison

The Environment & Sustainability Program is an interdisciplinary program that fosters understanding of the relationships between human societies and the natural, physical, and biological settings in which life on Earth exists. Our three majors and two minors integrate perspectives of the natural sciences, social sciences, and arts and humanities.

The Program degrees build on the unique definition of sustainability at UNC Greensboro (http://sustainability.uncg.edu), where “Academics, operations, and outreach are conducted with careful attention to the enduring interconnectedness of social equity, the environment, the economy, and aesthetics.” Our degrees require electives in each of those four areas: society and equity, natural science of the environment, economics and development, and ethics and aesthetics.

Students work with diverse faculty and staff from across campus and community (1) to learn how to gather and integrate information about environmental and sustainability problems from multiple disciplines, (2) to think critically about the causes of environmental and sustainability problems, (3) to propose effective solutions and evaluate their strengths and weaknesses, and (4) to communicate their ideas clearly. Our students come from a variety of backgrounds and are eligible for internships and study abroad, and all receive expert advising from the Program Director. Graduates will be well prepared for roles as educated citizens who are especially well informed about the environment and for numerous career paths that require a broad range of knowledge about environmental and sustainability issues.

Requirements
At least 24 credits of related area electives must be at the 300 level or above, and many courses count toward General Education Core requirements. The required courses in all program concentrations will fulfill the GNS/GLS, GNS/GPS, and SI and WI in major (12-13 credits). In addition, depending on student choices, it is possible to fulfill GMT, GSB, GNS/lab, GPR, GFA, GHP/GMO, SI, WI, GN, GL, and half (3 credits) of GLT.
Students must fulfill the following General Education courses outside the Environment & Sustainability Program requirements: GLT (3 credits), GHP/GPM (3 credits), GRD (6 credits), and GFL (0-12 credits).

Students choose either the Environmental Studies concentration or the Sustainability Studies concentration, both of which emphasize the integration of the natural sciences, social sciences, and arts and humanities. The core requirements for the concentrations are similar; they differ in the Biology core requirement (BIO 112 is required for Environmental Studies, while Sustainability Studies requires either BIO 112 or BIO 105) and in the distribution of related area electives. The Environmental Studies concentration has a greater emphasis on natural science, while the Sustainability Studies concentration has a greater emphasis on social sciences and the humanities.

The distribution of electives in the two concentrations compares as follows:

<table>
<thead>
<tr>
<th>Electives</th>
<th>Environmental Studies</th>
<th>Sustainability Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences</td>
<td>12 credits</td>
<td>6 credits</td>
</tr>
<tr>
<td>Equity &amp; Society</td>
<td>9 credits</td>
<td>12 credits</td>
</tr>
<tr>
<td>Economics &amp; Development</td>
<td>9 credits</td>
<td>9 credits</td>
</tr>
<tr>
<td>Aesthetics &amp; Ethics</td>
<td>3 credits</td>
<td>6 credits</td>
</tr>
<tr>
<td>Free Electives</td>
<td>6 credits</td>
<td>6 credits</td>
</tr>
</tbody>
</table>

Students with a GPA greater than 3.30 in the junior year may choose the self-designed Environmental & Sustainability Studies concentration; this concentration is developed in consultation with the Director and allows the student to propose 39 credits of appropriate electives (with at least one course in each of the four related area electives). Students are required to maintain a 3.30 GPA.

Students in all concentrations should plan carefully with the Director because courses are continually added and removed from the list of area electives and because substitutes may be available. Some courses have prerequisites that do not count for credit in the Environment & Sustainability Program. No single course may count in more than one of the four related areas, none of the required core courses may count as related area electives, and no more than 12 credits from any one course prefix may count toward the concentration. Students may neither major in multiple concentrations in the Environment & Sustainability Program nor major in one of these Program concentrations and also be either a Sustainability Studies minor or an Environmental Studies minor. Students are welcome and encouraged to choose a second major and/or minor in other fields of study.

### Professor
- Rick L. Bunch
- Keith G Debbage
- Corey M Johnson
- Paul A Knapp
- Jeffrey C Patton
- Selima Sultana

### Associate Professor
- Zhi-Jun Liu
- Phillip D Royall
- Roy S Stine

### Assistant Professor
- Wenliang Li
- Sarah J Praskievicz

### Professor
- John G. Stehlin

#### Senior Lecturer
- Mary B Hall-Brown
- G. Jay Lennartson

#### Senior Academic Professional
- James A Nelson

Graduate-level faculty
- Environmental Studies Concentration; Environmental and Sustainability Studies Concentration; and Sustainability Studies Concentration (https://catalog.uncg.edu/arts-sciences/special-programs-liberal-studies-major/ges)
- Environmental Studies Undergraduate Minor (https://catalog.uncg.edu/arts-sciences/geography-environment-sustainability/environmental-studies-minor)
- Geography Undergraduate Minor (https://catalog.uncg.edu/arts-sciences/geography-environment-sustainability/geography-minor)
- Sustainability Studies Undergraduate Minor (https://catalog.uncg.edu/arts-sciences/geography-environment-sustainability/sustainability-studies-minor)
- Geography Second Academic Concentration (https://catalog.uncg.edu/arts-sciences/geography-environment-sustainability/geography-second-academic-concentration)
- Geography, Ph.D. (https://catalog.uncg.edu/arts-sciences/geography-environment-sustainability/geography-phd)

The Department of Geography, Environment, and Sustainability offers the following concentrations in the Special Programs in Liberal Studies Major (https://catalog.uncg.edu/arts-sciences/special-programs-liberal-studies-major):
- Environmental Studies
- Environmental and Sustainability Studies
- Sustainability Studies

### Environment and Sustainability Disciplinary Honors

#### Requirements
- A minimum of 12 credit hours as defined below.
- UNC Greensboro cumulative GPA of 3.30 or better or, for transfer students, cumulative GPA of 3.30 or better from all prior institutions.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required</strong></td>
<td></td>
</tr>
<tr>
<td>HSS 490</td>
<td>Senior Honors Project</td>
<td>3-6</td>
</tr>
<tr>
<td>or GES 493</td>
<td>Honors Work</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>6 credits of Honors course work in the major</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>3 credits of Honors course work in the major or another area</strong></td>
<td>3</td>
</tr>
</tbody>
</table>

**Recognition**

Receive a Certificate of Disciplinary Honors in Environment and Sustainability Studies; have that accomplishment, along with the title of the Senior Honors Project, noted on the official transcript; and be recognized at a banquet held at the end of the spring semester.

**Honors Advisor**

Contact Aaron Allen at asallen@uncg.edu for further information and guidance about Honors in Environment and Sustainability Studies. To apply: [http://honorscollege.uncg.edu/forms/disc-application.pdf](http://honorscollege.uncg.edu/forms/disc-application.pdf)

**Geography Disciplinary Honors**

**Requirements**

- A minimum of 12 credit hours as defined below.
- UNC Greensboro cumulative GPA of 3.30 or better or, for transfer students, cumulative GPA of 3.30 or better from all prior institutions.

<table>
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<td>3</td>
</tr>
</tbody>
</table>

**Recognition**

Receive a Certificate of Disciplinary Honors in Geography; have that accomplishment, along with the title of the Senior Honors Project, noted on the official transcript; and be recognized at a banquet held at the end of the spring semester.

**Honors Advisor**

Contact Jay Lennartson at gjlennar@uncg.edu for further information and guidance about Honors Geography. To apply: [http://honorscollege.uncg.edu/forms/disc-application.pdf](http://honorscollege.uncg.edu/forms/disc-application.pdf)