

Latest News

Fall, 2022

The Intergovernmental Panel on Climate Change (IPCC) released its latest report on Climate with this news:

“Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years.”

- Intergovernmental Panel on Climate Change, AR6 (2021)

Climate Research at Rowan

Melting of the **Greenland ice sheet** impacts ocean circulation, planetary albedo, and sea level. Rowan professors and researchers are investigating sea level rise on the New Jersey coast and changes to ocean circulation.

Paleoceanographer and Rowan Professor Gerald Rustic analyzes foraminifera from **ocean sediments** to understand past changes in tropical climate variability. **Read about his latest research at:**
<https://rdcu.be/b8ZaQ>

For more news, see our website at <https://earth.rowan.edu>

For program information:
Harold C. Connolly, Jr. *Department of Geology,*
Chair 856-256-5261 connollyh@rowan.edu

For registration information:
Office of the Registrar rowan.edu/registrar

Global Climate Change at Rowan University

The Earth's climate is dynamic, complex, and changing at an alarming pace. The certificate of undergraduate study (CUGS) in Global Climate Change is your introduction to climate science and the fundamentals of the climate system. You will learn how climate change is affecting your world today, what the science says about future climate impacts, and the geological context for how Earth's climate has changed in the past. The CUGS in Global Climate Change is open to any matriculated or non-matriculated student with an interest in the science of Global Climate Change from any degree program.

Certificate of Undergraduate Study (CUGS) in Global Climate Change

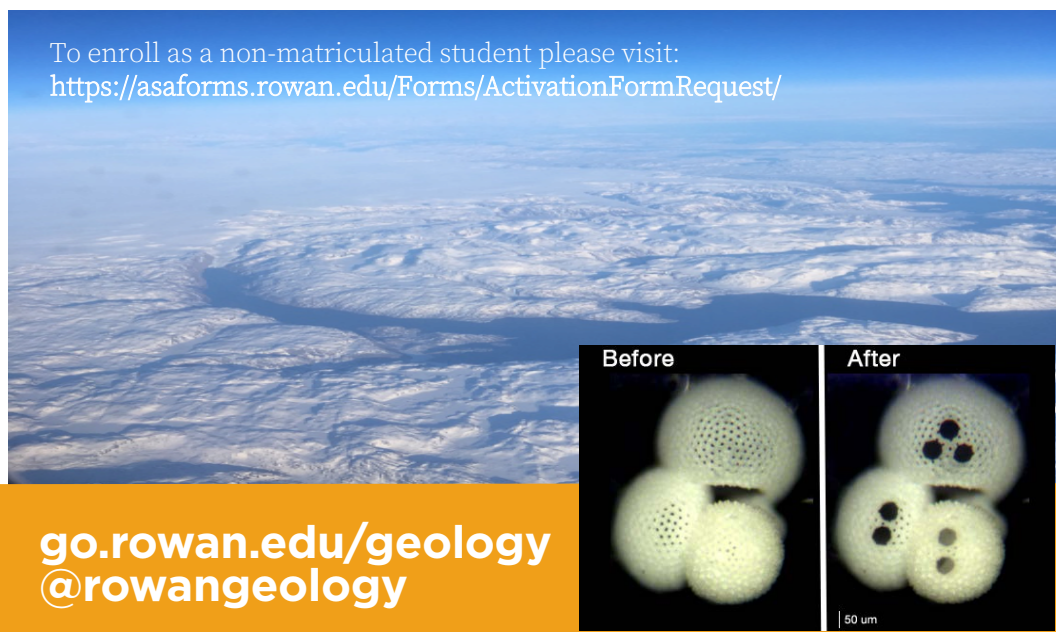
This certificate focuses on the fundamentals of climate science. You will learn to analyze climate change impacts at multiple spatial and temporal scales using the tools of climate change research. Students need to complete a total of **13 semester hours** of coursework, including two required foundational courses, a course in past climates, and an elective course to earn this CUGS. **It's as easy as 1-2-3!**

- 1 Take the required courses (6sh):**
 - GEOL01.131** Earth in Transition: The science of global climate change (3sh)
 - ENVSC01.220** Global Climate Crisis (3sh)
- 2 Select one of the following (3-4sh):**
 - GEOL01.133** Climate, civilizations, catastrophes and collapse (3sh)
 - GEOL01.230** Paleoclimatology (4sh)

3 Take one additional course from the following for a total of 13-14 sh:

- | | |
|---|---|
| ENVSC01.120 Oceans in Crisis (3sh) | ENVSC01.122 Future of Food (3sh) |
| GEOL01.250 Ocean-Atmosphere Interactions (4sh) | ENVSC01.381 Sea Level Change: Past, Present and Future (4sh) |
| GEOL01.430 Climate variability and Diagnostics (4sh) | GEOL01.435 The ice Ages and Quaternary Geology (4sh) |
| ENVSC01.382 Understanding and Analyzing climate change impacts (4sh) | |

To enroll as a non-matriculated student please visit:
<https://asaforms.rowan.edu/Forms/ActivationFormRequest/>



[@rowangeology](http://go.rowan.edu/geology)