

# The Power of Water



Artwork by Bruce Aiken

## Grand Canyon Semester

 NORTHERN ARIZONA  
UNIVERSITY  
University Honors Program

 national  
collegiate  
honors  
council

# Grand Canyon Semester

August 20 to December 8, 2012



## Semester Overview

The Grand Canyon Honors Semester (GCS), the third to be co-sponsored by the National Collegiate Honors Council (NCHC) and Northern Arizona University (NAU), will investigate the role of water in shaping the landscape, cultures, and politics of the Grand Canyon region.

The Grand Canyon Semester is an integrated learning experience in the humanities and sciences. Students come to understand the environmental and social challenges confronting us in the 21st century through one of the earth's most precious resources—water.

Using an interdisciplinary approach, students experience water's economic, political, artistic, ecological, social, and spiritual forces.

On backcountry field trips, in classrooms and art galleries, around campfires, in traditional hogans, and floating down the Colorado River through the Grand Canyon, we confront the 21st-century global challenges of managing water in these diverse natural and cultural landscapes.

- How can we protect this crown jewel of America's National Park system and still make it available to nearly five million visitors a year?
- What are the legal and moral rights of the Native peoples whose ancestors have lived in this canyon country for thousands of years?
- How do water issues in the Grand Canyon inform broader global issues relating to policy, science, climate change, aesthetics, and social justice?

The GCS offers a life-changing learning experience in the high mountains of northern Arizona and the deep canyon country of the Colorado Plateau. Participants need to be in good physical condition and comfortable with hiking (maximum up to 8 hours with up to 4,500 foot elevation change), camping, and working in remote environments at high elevations.

## Faculty Bios

### **Academic Director: Dr. Angie Moline**

Angie Moline is an aquatic ecologist researching the conservation and management of desert streams and springs. She has taught field-based courses across the western U.S. and Mexico for NAU, the Wild Rockies Field Institute, Prescott College, and Outward Bound.

### **Dr. George "Wolf" Gumerman**

Wolf Gumerman, Director of the University Honors Program and Professor of Anthropology at NAU, is an archaeologist collaborating with the Hopi Cultural Preservation Office. He is co-founder of the journal *Heritage Management* and teaches composition and literature, archaeology, human evolution, and food and culture.

### **Dr. Kelley Hays-Gilpin**

Kelley Hays-Gilpin is Professor of Anthropology at NAU and Curator of Anthropology at the Museum of Northern Arizona. For 30 years, she studied rock art, pottery, and other visual arts in the Southwest. She currently researches the long-term histories of Hopi and Zuni communities and their relationships with land and water through art.

### **Robyn Martin**

Robyn Martin is a fourth-generation Flagstaff native, an NAU lecturer, writer, essayist, former river guide, and avid outdoor adventurer who passionately shares her Grand Canyon knowledge. She hopes to continue to bring the Canyon and the surrounding areas closer to students through meaningful, hands-on academic experiences.

### **Wayne Ranney**

Wayne Ranney's passion for Southwest geology took root during his years as a backcountry ranger in the Grand Canyon. Wayne is the author of three award-winning books and numerous popular articles for *Arizona Highways* and *Earth Magazine*. Wayne enjoys teaching in an outdoor classroom through geology-oriented river trips, backpack adventures, and international expeditions.

### **Dr. Thomas D. Sisk**

Tom Sisk, the Charles Olajos and Ted Goslow Endowed Chair of Environmental Science and Policy for the Southwest, is an ecologist who has worked around the world. Sisk's lab group researches conservation of biodiversity and sensitive habitats, combining field study, geographic analysis, and spatial modeling.

## COURSES (FALL 2012)

Revolving around the Power of Water, all courses are seminars with substantial fieldwork that interconnect content, projects, and site-specific learning experiences. All participants earn 16 advanced honors credits.

Choose two of the following three courses:

### **HON 344: Environmental Policy of Grand Canyon and Colorado Plateau**

3 credit hours in Political Science or Environmental Sciences  
Instructor: Sisk

This course will introduce students to major environmental and political issues of the region, including water, forests, fire, restoration, development, tourism, and sites sacred to indigenous populations. Students will interact with federal agency land managers, non-profits, environmentalists, and indigenous people to understand the complexity of preserving one of the world's most valuable treasures.

### **HON 341: Peoples of the Southwest: Past and Present**

3 credit hours in Anthropology, Native American Studies, or Humanities

Instructor: Hays-Gilpin

Emphasizing the work of Native American authors and filmmakers together with scientific research, this course explores the relationships among past and present human communities in the Southwest and their unique environments. Students will be immersed into southwestern cultural traditions by visiting tribal reservations and interacting with indigenous people and behind-the-scenes explorations of archaeological sites and museums.

### **ENV 399H: Ecology of the Grand Canyon Region**

3 credit hours in Ecology, Environmental Science, or Biology  
Instructor: Moline

There are few places on earth where ecological relationships are more starkly apparent than in the Grand Canyon Ecoregion. We will explore the abundance of organisms, population dynamics, community organization, energy flow, and nutrient cycling. A field-based research project will help students learn about native species and their adaptations to floods, fires, and droughts.

Choose one of the following two courses:

### **HON 340: Writing the Canyon: Grand Canyon Aesthetics and Humanities**

3 credit hours in Humanities, Art, or English  
Instructor: Martin

Using creative and non-fiction writing, journaling, art, and multi-media we will document our own Grand Canyon intimate encounters.

Our hands-on field experiences into and around the Canyon with world-renowned, local, and indigenous artists and writers allow us to explore, face to face, how water sculpted the inspiration of Canyon writers, artists, and early explorers.

### **HON 343: Geology of the Grand Canyon**

3 credit hours in Geology, Earth Sciences, or Natural History  
Instructor: Ranney

Through in-depth classroom discussions, hikes, hands-on experiences, and field trips, we will focus on understanding the mechanisms and timing of canyon cutting, the ancient environments that left the colorful rock strata, the power of water to slice through solid rock and create canyons, and how scientists have interacted with this geologic marvel through the last 150 years.

The following two courses are required by all participants:

### **HON 399: Integrative Seminar: Grand Canyon and the Colorado Plateau as Text**

3 credit hours in Anthropology, English, Environmental Science, Humanities

Instructors: Moline and Martin

This series of field explorations and seminars on selected literary and scientific readings provides a focused and systematic approach to discovering the power of water within the Grand Canyon region. Weaving together science and humanities, students will build a complex understanding of water's economic, political, artistic, ecological, social, and spiritual forces.

### **HON 485: Directed Study: Undergraduate Independent Research Project**

4 credit hours in the field of the research topic or Independent Study  
Instructor: Gumerman

Students undertake a research paper or other creative project (i.e., film) that incorporates course work, their interests, and fieldwork. Faculty help formulate topics, identify resources, and engage students in writing. Students interested in creative projects will also produce an analytical written document. The course culminates in a public presentation and discussion of the work.



# HOW TO APPLY

1. Enclose a two-page statement about yourself and your reasons for wanting to participate in the Grand Canyon Honors Semester. Discuss what you can contribute to the group experience and how you expect to benefit from the program.
2. On a separate page, describe your most successful writing or creative project.
3. Enclose a résumé detailing your employment, curricular, and community activities.
4. Enclose \$35 NCHC membership fee. Make checks payable to NCHC Honors Semester Committee. (required if your home school does not belong to the National Collegiate Honors Council).
5. Enclose the Application (below) and the Scholarship Application.
6. Arrange for a letter of reference to be sent by your Honors Dean/Director and one from an Honors faculty member to the NCHC Honors Semester Committee.
7. Send one official copy of your transcript directly to the NCHC Honors Semester Committee.

The applications are also available online at [nau.edu/Honors/GCS](http://nau.edu/Honors/GCS)

**ALL APPLICATION MATERIALS MUST BE RECEIVED BY FEBRUARY 1, 2012** to guarantee a review.

• Please send all items with the enclosed application form to:

Dr. Bernice Braid, Long Island University, Pratt Bldg #514, 1 University Plaza, Brooklyn, NY 11201.

or e-mail a PDF of your applications to [bernice.braid@liu.edu](mailto:bernice.braid@liu.edu).

• Please note that your program application will be processed separately from your scholarship application. Make checks payable to: NCHC Honors Semesters Committee.

## APPLICATION

Name \_\_\_\_\_ Soc. Sec. # \_\_\_\_\_  
Your Permanent Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_  
Your Campus Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_ Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ School Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_ E-mail \_\_\_\_\_  
College/University \_\_\_\_\_  
Dates Attended College/University \_\_\_\_\_ Name of Honors Program Dean/Director \_\_\_\_\_

### Educational Data

Major(s) \_\_\_\_\_ Minor(s) \_\_\_\_\_

Cumulative GPA \_\_\_\_\_  for Semesters  Quarters

Present college/university class standing:

Freshman  Sophomore  Junior  Senior

### Personal Data

Birth Date \_\_\_\_\_ Sex \_\_\_\_\_ State of Legal Residency \_\_\_\_\_

If not U.S. Citizen, Country of Citizenship \_\_\_\_\_

### Visa Type

F1  Immigrant  Permanent Resident

J2  Other

Green Card # \_\_\_\_\_

Place of Birth \_\_\_\_\_

### Racial / Ethnic Information

(This section is optional; data is for statistical purposes only.)

White (Non-Hispanic)  Black (Non-Hispanic)

Hispanic  Asian/Pacific Islander

American Indian or Alaskan Native  Other

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date

# SCHOLARSHIP APPLICATION

Please note that your program application will be processed separately from your scholarship application.

INSTRUCTIONS: All items must be completed for NCHC scholarship support. All applications should be received by February 1, 2012. Included with the applications should be a copy of the financial aid transcript from your home university for 2011-2012.

## GENERAL INFORMATION

(Please print or type)

Name \_\_\_\_\_ Soc. Sec. # \_\_\_\_\_

College/University \_\_\_\_\_

Honors Dean/Director \_\_\_\_\_ School Phone \_\_\_\_\_

Dean/Director's Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

### Estimated Cost

Estimate the cost of attending your home institution for one semester or quarter (check one)  Semester  Quarter

|                       |                 |
|-----------------------|-----------------|
| Tuition and Fees      | \$ _____        |
| Room/Housing          | \$ _____        |
| Board/Meals           | \$ _____        |
| Other (explain) _____ | \$ _____        |
| <b>Total</b>          | <b>\$ _____</b> |

Attach any additional page listing any additional information you believe may be relevant to your application for this scholarship. Describe to what extent your home university/honors program can help arrange your financing for the semester (e.g., transfer scholarship money, etc.)

I hereby certify that the information submitted in this application is true, correct, and complete to the best of my knowledge.

\_\_\_\_\_  
Applicant's Signature

### Financial Resources

List all resources used to meet the total cost of attendance and those resources that will be transferable to this National Honors Semester.

|                                | Home School     | Transferable    |
|--------------------------------|-----------------|-----------------|
| Parents and/ or Personal Funds | \$ _____        | \$ _____        |
| Scholarship                    | \$ _____        | \$ _____        |
| Loans                          | \$ _____        | \$ _____        |
| Campus-Based Aid               | \$ _____        | \$ _____        |
| PELL (Basic) Grant*            | \$ _____        | \$ _____        |
| Other                          | \$ _____        | \$ _____        |
| <b>Total</b>                   | <b>\$ _____</b> | <b>\$ _____</b> |

Will you be applying for outside scholarship funding (e.g., Rotary Club, church, civic organization)?

Yes  No

If yes, describe. \_\_\_\_\_  
\_\_\_\_\_

PLEASE NOTE: Your scholarship application will be processed separately from your program application. Any NCHC scholarship support you receive is applicable only to academic fees.

Return this scholarship application along with your other materials to:  
Dr. Bernice Braid  
Long Island University, Pratt Bldg #514  
1 University Plaza, Brooklyn, NY 11201

\* The Pell Grant may be more easily managed if a consortium agreement is signed between your school and Northern Arizona University. Ask your director of financial aid to contact the Office of Student Financial Aid, Northern Arizona University, Flagstaff, AZ 86011. Telephone: (928) 523-4951.

The 2012 Grand Canyon Semester is co-sponsored by the National Collegiate Honors Council and Northern Arizona University.

The NCHC-Northern Arizona University Grand Canyon Honors Semester will make every effort to ensure the well-being of participants, but cannot be held responsible for occurrences beyond its control.

Northern Arizona University does not discriminate in its academic employment or admissions policies, and abides by all federal, state and regional regulations pertaining to same. Northern Arizona University is committed to equal access for the physically challenged. If you have special needs, please indicate them on your acceptance form.

## Semester Calendar

|  |                               |
|--|-------------------------------|
| Arrival at Northern Arizona University | August 19, 2012               |
| Orientation                            | August 20 – 26, 2012          |
| Module I                               | August 27 – October 7, 2012   |
| River Trip & Intermodule Break         | October 8 – 21, 2012          |
| Module II                              | October 22 – December 2, 2012 |
| Complete Projects                      | December 3 – 5, 2012          |
| Symposium                              | December 6 – 8, 2012          |
| Final Event                            | December 8, 2012              |
| Leave for Home                         | December 9, 2012              |

## Summary of Charges

|   |                |
|---|----------------|
| NCHC membership fee<br>(if your school is not an NCHC member) | \$35           |
| Acceptance fee due February 20, 2012<br>(nonrefundable)       | \$350          |
| First NCHC payment due May 1, 2012                            | \$3,955        |
| Second NCHC payment due June 15, 2012                         | \$3,955        |
| <b>Total semester fees (not including membership fee)</b>     | <b>\$8,260</b> |

## Deadlines

|                            |                   |
|----------------------------|-------------------|
| Admission application due  | February 1, 2012  |
| Notification of acceptance | February 10, 2012 |
| Acceptance fee due         | February 20, 2012 |
| First payment due          | May 1, 2012       |
| Second payment due         | June 15, 2012     |

Total Semester fees (\$8,260) cover tuition, housing, insurance,\* transportation during the program, and field experiences including the Colorado River trip. Students will be housed together in off-campus housing located near NAU. Travel to and from Northern Arizona University, meals, books and incidental expenses are not included. The \$35 membership fee (if applicable) is due with the application. The other charges are payable only if you are accepted to participate in the Semester.

Students with entitlement funds will have to create a Consortium Agreement with their home institution and NAU to confirm that they are applying for federal funding from only one school.

\*Insurance required of students who cannot show proof of existing insurance.

All checks should be made payable to NCHC Honors Semesters Committee. The application, application fee, membership fee (if needed), and acceptance fee should be sent to Dr. Bernice Braid, Long Island University, Pratt Bldg #514, 1 University Plaza, Brooklyn, NY 11201.

Dr. Bernice Braid  
bernice.braid@liu.edu  
718-488-1329

NCHC Federal ID# 52-1188042  
Keep a copy of all application materials for your records.

Wolf Gumerman,  
george.gumerman@nau.edu  
928-523-3498