

APPLICATION: THE ADVANCED FLOATING CLASSROOM PROGRAM FOR WAYNE COUNTY 9th GRADERS

Join us on the Neuse Estuary for hands-on experience about aquatic science aboard the NC State University's ship, *RV Humphries*!

The Advanced Floating Classroom Program will involve 15 highly interested students, selected from among all of the applicants. This year's students will have the opportunity to participate in a week-long summer research program.

When: June 27th through July 1st, 2011.

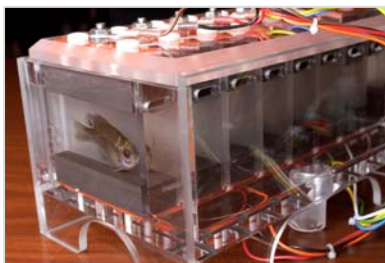


Cost: FREE to the successful applicants! – the program will be paid for by a special grant from the Burroughs Wellcome Foundation to NCSU. All that you'll need is daily transportation to / from Wayne School of Engineering or other local meeting place in Goldsboro.

What's included: Meals, snacks, transportation to/from areas along the Neuse River and the Neuse Estuary, microscope analysis of phytoplankton (algae), and an all-day trip aboard the RV Humphries for hands-on experience in aquatic science, and much more. Schedule of activities:

Schedule	Monday	Tuesday	Wednesday	Thursday	Friday
Session 1	H ₂ O monitoring and legislation	Algae	H ₂ O chemistry	Physical oceanography	Water monitoring cruise
Session 2	GIS and mapping	GIS and mapping	Web pages	Web pages	Water monitoring cruise
Session 3	Conducting scientific research	Careers in science and research	Presenting scientific research	Careers in technology and research	Water monitoring cruise

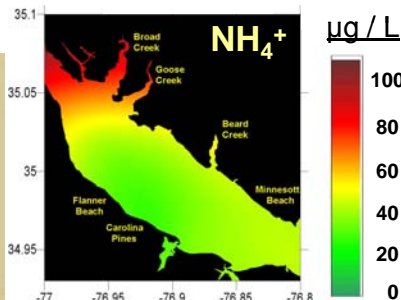
Students will receive advanced hands-on instruction about aquatic science both out on the Neuse Estuary and in the laboratory, and instruction about research technology, mapping, and Geographic Information Systems (GIS). This will include guidance in scientific research design, technical writing, and practice in presenting scientific research. Students will also participate in four follow-up Saturday sessions during the next academic year.



New technology, such as fish acting as "protectors" of water quality



Aquatic life – algae and animals



Tracking changes in water chemistry and important pollutants



Automated platforms for real-time data 24/7

Application – due May 5th

This application is in two parts. Instructions:

- Complete Part A and send it to Dr. Ralph Smith (RalphSmith@wcps.org).
- Print the second page of this application, Part B. Take it to one of your teachers, and ask him/her to complete Part B and to submit it to Dr. Smith.

Part A

Name: _____

Telephone: _____

School: _____

Please use as much space as you need to answer the six questions below.

1. Describe your background: Where have you grown up? What are your hobbies and other interests? What kinds of activities do you really like to do?
2. What would you like to know about the Neuse Estuary?
3. Explain what, in your opinion, is one of the most difficult environmental challenges facing our world.
4. Which of your science classes have you enjoyed the most, and why?
5. What do you envision doing with what you learn in the Advanced Floating Classroom Program?
6. Do you have plans for education beyond high school? If so, describe them.

Part B: Letter of Recommendation

Teacher: _____

Student: _____

School: _____

Describe your interactions with the applicant, and why you think that he/she should be selected to participate in the Advanced Floating Classroom Program. Please sign your letter and send it to Dr. Ralph Smith (RalphSmith@wcps.org) by **May 5th**.