

### Field Trip Details

- All field trips are free of charge, however, we do not provide transportation to and from your school.
- Plan on arriving on campus at 10am and departing at 2pm.
- A brown bag lunch should be packed for each student and chaperone, access to on campus food is not available.
- Pre-Field Trip lesson plans can be provided at no additional cost.
- Students and Chaperones should wear sneakers and long pants. There is a fair amount of walking involved.
- **Please contact Mrs. Wood-Tucker for further information or to schedule your field trip!**



Teacher Development workshops in Aquaculture, Ecology and Environmental Awareness with Act 48 credit.

Cheyney University is the place to be for Science Education for all grade levels.

Please check our website for availability!

[www.cheyney.edu](http://www.cheyney.edu)



### About Cheyney University

Cheyney University is the nation's oldest historically black institution of higher education. Founded on February 25th, 1837, it also serves as the only Historically Black College and University (HBCU) in the PASSHE, the Pennsylvania State System of Higher Education. On its beautiful 275 acre campus, located a mere 25 miles southwest of Philadelphia, today the university offers baccalaureate degrees in more than 30 disciplines and six master's degree programs.

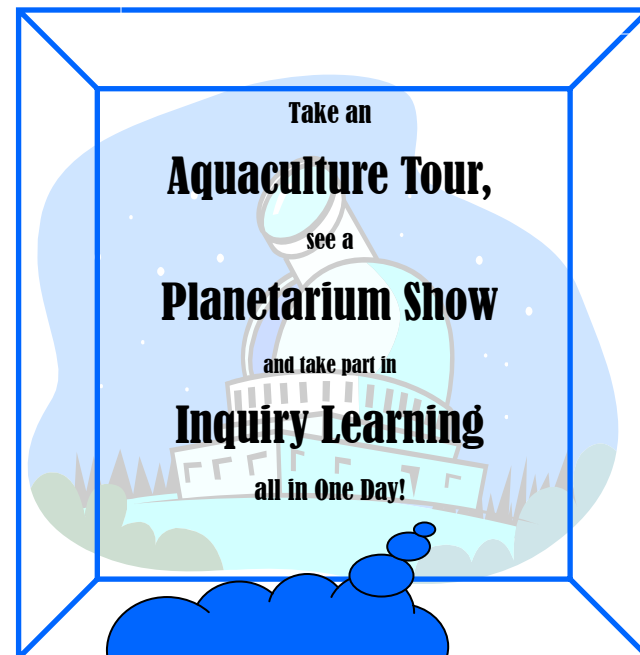
### For more AREL information contact:

**Dr. Steven Hughes**  
Associate Professor &  
AREC Program Director  
610-399-2400  
shughes@cheyney.edu

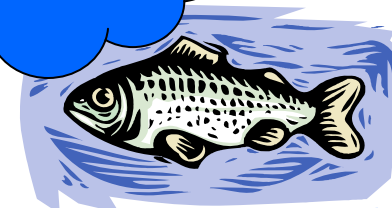
**Mrs. Heidi Wood-Tucker**  
Fisheries Biologist  
610-399-2148  
hwood@cheyney.edu



## Department of Natural and Applied Science



All of this is  
**FREE!**



*Explore, Learn,*



# The Aquaculture Tour



We invite you to come and explore our Aquaculture Research and Education Center (AREL) here at Cheyney University. A FREE field trip for the day will give your students a chance to see science in action. Students will encounter various species of fish and aquatic invertebrates. Research scientist will be available to speak with students and answer questions. All visits can be tailored to meet specific state standards. Students will also learn what Aquaculture is and what it is doing for our communities.

***Come to Cheyney University to Explore, Learn and Grow!***

*Our tours are open to all students K-12 students from public schools, private schools or non-profit organizations.*

***During the course of the day your students will experience a 360 Digital Dome show. All movies are approximately 30 minutes in length. Please choose one!***

## Planetarium Shows



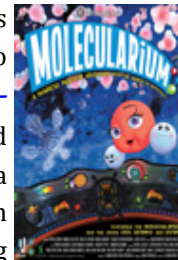
***Astronauts-*** Experience a rocket launch from inside the body of an astronaut. Explore the amazing worlds of inner and outer space, from floating around the International Space Station to maneuvering through microscopic regions of the human body. Discover the perils that lurk in space as we subject 'Chad', our test astronaut, to every-

thing that space has to throw at him. ***Black Holes-*** Audiences will be dazzled with striking, immersive animations of the formation of the early universe, star birth and death, the collision of giant galaxies, and a simulated flight to a super-massive black hole lurking at the center of our own Milky Way Galaxy. ***Kaluoka'hina: the***



***Enchanted Reef-*** The vastness of our planet's oceans guards unimaginable secrets. One of its most precious is "Kaluoka'hina", the enchanted reef whose magic protects it against humans finding it. Kaluoka'hina's colorful inhabitants have thus always lived in peace...until the volcano erupts, and the spell is broken. ***Molecu-***

***larium-*** The creators have integrated advanced scientific simulations into a groundbreaking immersive cartoon with kid-friendly characters to introduce young people to the world of atoms and molecules.



***Oasis In Space-*** Oasis In Space transports the audience on a startling and beautiful voyage through our universe, galaxy and solar system in search of liquid water - a key ingredient for life on Earth.



***Passport to the Universe-*** The



breathtaking Passport to the Universe reveals the wonders of our universe in a way never before possible in a planetarium. Narrated by two-time Academy Award winner Tom Hanks, Passport to the Universe treats the audience to realistic close-up views of star fields and planets, taking them on an exhilarating flight through a virtual re-creation of our universe, into the Orion Nebula, out of our galaxy, and deep into intergalactic space. ***STARS-*** Every

star has a story. Some are as old as time, faint and almost forgotten. Others burn bright and end their lives in powerful explosions. New stars are created every day, born of vast clouds of gas and dust. Through every phase of their existence, stars release the



energy that powers the Universe. Journey to the furthest reaches of our galaxy and experience both the awesome beauty and destructive power of STARS. ***The Zulu Patrol: Under the Weather-*** The stalwart heroes of the Zula Patrol are on an expedition collecting samples of weather for scientist

Multo's research -- using their loyal pet Gorga's ability to collect and bottle all kinds of weather. But when the Zula gang inadvertently hurts Gorga's feelings, he decides to leave Zula and find another planet to live on. Interplanetary villain Dark Truder then tricks Gorga into stealing the weather from other planets. In the process learning all about weather, both terrestrial and interplanetary.