

# School of Health Sciences, Human and Public Services

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## School of Study Achievements: ROTC Unit Receives Honors

Wando High's ROTC Program was designated as an Honor Unit with Distinction for the school year 2006-2007, thus earning the highest award that an ROTC Program can receive from the United States Air Force.

In December 2006 Chief Dave Costa, Lt. Col. Dick Bartels, and Virginia Bartels accompanied twelve South Carolina ROTC students, two who were Wando High's students, to Singapore. They were guests of the Singaporean government for eight days. In addition to learning more about their country's defense programs, the instructors and students visited places of



Twelve South Carolina ROTC students travel to Singapore.

historical, cultural, and geographical interests. They were also welcomed as guests to the embassy and met the ambassador.

Each June Sgt. Mike Gardner, Chief Costa,

and Lt. Col. Bartels help instruct a two-week leadership camp at The Citadel, where ROTC students come from all over the United States as well as Singapore to participate.

By: Dick & Virginia Bartel

## Course Highlights

Wando High School is one of four high schools in South Carolina that is offering Principles of the Biomedical Sciences to its students. We have been given this opportunity because, along with six other states, SC has cooperated with Project Lead The Way, Inc. and supplied the vision and financial investment towards the development of this amazing curriculum. This course and the three to follow are designed to prepare students for the rigors of a healthcare major in college. I am so proud to be one of the pilot instructors. I spent a part of my summer in Baltimore, MD going through a rigorous and exciting training with DeAna Herring, a fellow science teacher at Wando, in preparation for piloting

this new course.

This course is the first in a series of four electives. As described by PLTW, it provides an introduction to the biomedical sciences through exciting "hands-on" projects and problems. Student work involves the study of human medicine, research processes and an introduction to bioinformatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. A theme through the course is to determine the factors that led to the death of a fictional person. After determining the factors responsible for the death, the students investigate

lifestyle choices and medical treatments that might have prolonged the person's life. Key biological concepts including: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease are embedded in the curriculum. Engineering principles including: the design process, feedback loops, fluid dynamics, and the relationship of structure to function are incorporated in the curriculum where appropriate. The course is designed to provide an overview of all the courses in the Biomedical Sciences program and to lay the scientific foundation necessary for student success in the subsequent courses.

By: Sally Nesmith

### UPCOMING EVENTS:

- **Health Sciences and Human Public Services Business Alliance Board Meeting** October 4, 2007 from 6:30-8 pm in the Bistro
- **Blood Drive** HOSA is sponsoring the first blood drive on September 13, 2007 in the orchestra room. Teachers and parents are welcome. Adult donors are needed!
- **Body Worlds Field Trip** October 11, 2007 (See Highlights of the Quarter)



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## School of Health Sciences, Human and Public Services

### Government and Public Administration Cluster

- Military Science
- Social Sciences

### Health Science Cluster

- Biomedical Sciences
- Health Diagnostic Specialties
- Health Treatment Specialties
- Medical Science and Research

### Human Services Cluster

- Early Childhood Development and Services

### Law, Public Safety and Security Cluster

- Emergency Fire and Management Services (future offering)
- Law Enforcement Services (future offering)
- Law and Legal Services



**Ruth Truluck**  
Dean

### Education

- B.A. College of Charleston
- M.Ed. The Citadel
- National Board Certified
- 30 Years of Teaching Experience

### Offices Held

- Former President of SC Association of Biology Teachers
- Secretary for SC Marine Educators Association
- Awards Chairman for SC Marine Educators Association

### Claim to Fame

- Appeared in National Geographic
- Teacher of the Year at Wando for two years
- CCSD Teacher of the Year Finalist

## Highlights of the Quarter



Many of you may have heard the recent hype about Gunther von Hagens' anatomical exhibit of preserved human bodies. His exhibits focus on the education of the human body, its functions, diseases, and physical changes. Currently, his bodies are touring different museums in Canada and the United States. Fortunately for us, the Charlotte Discovery Place Museum is sponsoring these fascinating bodies through October.

The Health Science, Human and Public Services School of Study aims at exposing students to the many different careers, educational opportunities, and pathways that best fit their interests. As a teacher in this school, I felt that this exhibit would bring real life to my students without the smell of a gross anatomy lab.

I, along with other teachers from the school, decided that our students had to see this wonderful display in person. So, on October 11, 2007 we will take 150 students from Anatomy/Physiology, Biomedical Science, AP Biology, and other classes to view this spectacle. These lucky students will have the opportunity to watch the IMAX movie, *The Human Body*, and tour the exhibit. They will each have head sets that coincide with every body on display. Not only will they be allowed to look closely at the specimens, but they will also understand what the artist is trying to express through his creation.

This field trip will forever remain in the minds of the students participating. They will learn details about the human body that they could not get from a classroom. They will be allowed to explore themselves in reference to a life-size human model.

If you are interested in learning more, please visit [www.bodyworlds.com](http://www.bodyworlds.com) and take the virtual tour.

By: DeAna Herring

## Four Schools of Study Have Been Established!

All Wando students are strongly encouraged to develop goals and plans for life after high school graduation. Students will be asked to select a major in one of the career-related "Schools of Study" offered at Wando. This choice is a collaborative effort involving students, parents, teachers, and counselors. Students will select a major that reflects their interests and abilities leading to the achievement of personal, education and career goals.

We believe using a career-related school approach to teaching and learning will help students to see the relevance of their course work and its connection to their future. We anticipate that when fully implemented each "School of Study" will serve 350-700 students, compared to the 2200 students currently in grades 10-12. Grouping students into



*School of Health Sciences, Human and Public Services Faculty*

one of four schools of study forms small learning communities in which the teachers and students can explore connections from subject matter to achievement beyond high school. Each school consists of teachers from a variety of disciplines in the core subject areas of English, Math, Science, and

Social Studies. The teachers of the different core areas will have students in common within each school.. Wando's Schools of Study will allow greater personalization and provide opportunities for stronger relationships among students and staff.