

Bioengineering Concepts and Applications

CRN15785

TE 503-70 Bioengr Cncpts & Applications
Tuesdays 4:00 pm - 6:40 pm

3 credits

Dates: 9/04/07 to 12/22/07

In Fall 2007, the Technology Education Department at Central Connecticut State University (CCSU) will offer a new introductory-level graduate course titled "Bioengineering Concepts and Applications" (TE 503) that partners University faculty and students with local middle and high school students. The objectives of the course are twofold. First, the CCSU students will learn and develop effective methods for teaching technical topics while gaining familiarity with the fundamental concepts behind a wide range of cutting-edge bioengineering topics. These concepts will later be reinforced as the CCSU students go on to teach them in a middle or high school setting, where they will lead a class through problem-based bioengineering activities including hands-on experiments and computer-aided exercises. In so doing, the second goal of the course will be realized, which is to introduce the middle and high school students to bioengineering and encourage them to explore the potential for careers in this emerging field. In addition, the CCSU students will lead discussions of bioethical questions with the middle and high school students and compare viewpoints across different cultures. While students of all majors may enroll as the course is intended to appeal to a broad audience, registration will be limited to certified teachers (or by permission of the instructor) and enrollment will be limited to 25 students. The syllabus will incorporate a wide range of topics including gene therapy, stem cells, tissue engineering, biomechanics, imaging, and medical devices.

Instructor: Dr. Michele Dischino

Dr. Michele Dischino is an Assistant Professor in the Technology Education department within the School of Technology at Central Connecticut State University. Dr. Dischino earned her Ph.D. in Bioengineering at the University of Pennsylvania, Philadelphia, PA and her BS degree in Mechanical Engineering at Manhattan College, Riverdale, NY. Dr. Dischino has experience in the utilities, graphic arts, and bioengineering fields. She has also worked with both middle- and high-school students. Originally from New York, Dr. Dischino recently completed her graduate studies in the McKay Orthopedic Research Laboratory at the University of Pennsylvania, where she explored strategies to improve the outcome of tendon injuries through engineering. In addition to her research, she has coordinated educational outreach activities with West Philadelphia public schools and volunteered at the Franklin Institute Science Museum in Center City, Philadelphia.



For more information contact:

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To register contact:

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