9th Annual GIT Workshops  
March 2, 2010

"TECHNOLOGY: Pathway to a Greener Future"

Instructions: Students select a workshop series from 1-17. Indicate 1st, 2nd, or 3rd choice on the registration list.

Career Cluster

___ 1. Vet Tech  Dr. Jody Rockett, Asst. Professor, CSI  CSI Vet Clinic
   Fluorescence Stains and Eye Dissection. Designed to give students a greater appreciation for ocular abnormalities this module focuses on eye anatomy and detection of corneal ulcers in the dog. Dissection of formalyn fixed sheep eyes will be followed by a discussion of common eye diseases as they relate to ocular anatomy. Students will then stain a dog’s eye using a non-invasive corneal stain.

___ 2. Biofuel Technology  Dr. Ross Spackman, Professor, CSI  CSI Fish Hatchery
   The Oilfields of Idaho--- Students will learn how crops grown in Idaho can lessen our dependence on foreign oil, boost our economy, and improve air quality. We will be pressing oil from seeds and making it into biodiesel, an alternative to petroleum derived diesel.

___ 3. Food Quality  Jennifer Holtzen, Chemist
   The Idaho Food Quality Assurance Laboratory analyzes food commodity and environmental samples for pesticides as well as performs potato cyst nematode analysis. The staff is about two/thirds Idaho State Department of Agriculture employees and one/third CSI interns involved in the Laboratory Assistant intern program. Students will tour the lab and demonstrate the steps involved in analyzing samples, discuss the intern program, do a few small experiments, and have questions answered.

___ 4. Horticulture  Dave Kiesig, Associate Professor
   Symbiotic Partners - Plants and People’ (can’t live without ‘em) Participants will vegetatively reproduce a plant during this class that they will be able to take home with them.
Career Cluster

Career Pathway

___ 4. Video /Digital Media
Teresa Sept, Assoc. Prof, CSI
Digital media has exploded across the business world. The better prepared students are in this field, the better their potential to make a significant mark on the world. We will pulse the possibilities of this bold new world by looking into digital media options.

Web Design
Scott Henshied & CSI Web Design Team
Participants will explore the essential elements of effective web design and development, including some of the most popular software packages and programming languages used by webmistresses. The workshop will include some fun hands-on exercises.

___ 5. Graphic design
Daryl Hunt, CSI Instructor
Students will be introduced to Photoshop and learn about the program's capabilities. They will work with Adobe Photoshop to manipulate graphics, applying filters and special effects, as well as basic compositing techniques. Students will also learn about career options in the graphic design field.

Micron Technology
Kira Lunde & Melissa Gledhill, Engineers
Engineer your future:  Engineering is dynamic. Discover how engineers are making a difference in our planet, in everything from how we communicate, to medical procedures, and automotive safety. Engineering is about solving problems. Explore the processes that engineers use to design, develop, test and refine new solutions to real-world problems through a challenging hands-on activity. Anyone who gets 'egg'-cited solving challenging problems would make an 'egg'-cellent candidate for engineering. Engineering is about making improvements. Learn how you can be a part of future innovations and problem solving in rewarding careers in technology with math and science as the building blocks. You can make a difference AND have a challenging/fun career at the same time.

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Career Pathways

7. Welding Technology                      Kent Parish Instructor, CSI
Students will tour the welding shop and participate in demonstrations featuring a variety of equipment. The Electric Eye Plasma Cutter will be used to cut a pattern out of steel. Students will grind and color metal designs. Job Opportunities for women in welding and fabrication careers will be discussed.

Civil Engineering                      Jackie Fields, Twin Falls City Engineer
"Engineering - Let's Talk Lifestyle"
What does a civil engineer do? What are the varieties of Engineering careers? Why can a career in Engineering fulfill a woman's life goals? How do we get there from here? Students will engage in a project to construct/test.

A brief description of engineering discipline and various types of Engineering and how to become an engineer will be provided to students. In addition, personal experiences will be shared along with the knowledge and skills required in the present job, job satisfaction, and personal satisfaction.

Manufacturing Technology          Ben Hamlett, CSI Instructor
Manufacturing Technology is an excellent program for women. Students will visit the campus classroom, watch a video tour of the off-campus lab, and participate in hands-on projects related to manufacturing. Students will learn about manufacturing facilities in the Magic Valley and how the future of manufacturing is advancing.

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Environmental Engineering       Karen Cummings, Engineer, Amalgamated Sugar Co.
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10. Law Enforcement                Brett Reid, Assistant Professor CSI
How law enforcement and technology have merged and the importance of use of force issues, investigation techniques, and the increase in hiring of females in law enforcement.

Aeronautics                     Mary LaMoy, Pilot, Idaho 99’s
Students will learn about fighting forest fires with airplanes, from the experiences of a woman smokejumper pilot. We'll discuss the skills and decision-making required to "get the job done" on a typical day. We'll also explore the dynamic world of aerial research flying, performing highly specialized flight operations for governmental and scientific agencies.
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Automotive Technology
David Rodriguez, Assoc. Professor
Automotive Technology is for women, too. Students will tour the Automotive Classroom, participate in demonstrations of the technology, and become aware of changes in the Automotive world.

12. Electronics
SSgt. Jesus Gonzalez, Idaho National Guard
Female Communications soldiers will demonstrate military use of electronics equipment. Students will participate in demonstrations of a satellite Hummer, a medical Hummer and a RAVEN team (a remote control camera plane). A female commissioned officer will discuss the course for female officers in the military.

13. The Green Building & Sustainable Development Industry
Candess Packard
Idaho K-12 Green Schools Committee
Doing well while doing good: Meaningful careers in the green building and sustainable development industry. Our presentation will discuss various career paths in the green built environment and sustainable development industry with a particular focus on those that require skills in science, technology and math.

Diesel Tech
Levi Perkins, Instructor, CSI
The Diesel Workshop will include an explanation of the average wages and placement rates for diesel mechanics in the Magic Valley who graduate from the CSI Diesel program. Students will also have the opportunity to see and have hands on experience with several mockup displays of different truck systems, including engines, chassis, electrical, and suspension parts. The workshop will also include information for future students to prepare themselves while in high school for college and a career in the diesel industry.

Career Cluster

14. Nursing Science
Valerie Warner, Chair of RN Department
Experience the excitement of nursing as you step into the role of a nurse caring for a sick patient in the hospital. You will participate in taking a patient’s vital signs and making the patient well again.

Medical Coding/Medical Asst
Kara Mahannah, LPN, Instructor, CSI
Students will learn about the medical assistant and medical coding programs in general, what students learn (math, science, English, computers, and administrative and clinical medical assistant tasks), and where medical assistants and coders are employed. The Medical Assistant students will perform vital signs on the participants, be available to answer questions and interact with the students.
15. Paramedic Technology  
Gordon Kokx, Professor, CSI  
Receive information about technology in Emergency Medical Education. It will feature web-based learning, virtual simulation, and the human patient simulator.

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