

Department Profile: The Department of Technology and Engineering

The Department of Technology and Engineering prepares undergraduate students in MANUFACTURING SYSTEMS TECHNOLOGY,, ELECTRONICS TECHNOLOGY, INDUSTRIAL TECHNOLOGY MANAGEMENT, and OCCUPATIONAL SAFETY AND HEALTH TECHNOLOGY. In addition, the department offers courses in support of the teacher certification programs in CAREER TECHNOLOGIES Education and Technical Education. A graduate course of study is offered in MANUFACTURING SYSTEMS TECHNOLOGY.

MANUFACTURING SYSTEMS TECHNOLOGY students learn mechanical design and automation concepts that prepare them to improve the quality, efficiency, or safety of a manufacturing process. Students learn 3-D modeling concepts, design concepts and then gain experience in taking their design through the prototype stage and into a finished product. When students finish this program of study they will be able to operate and program processes that are already automated, as well as, design new automated processes. Graduates typically acquire jobs as engineers working with robotics, CNC equipment, and designing automated work cells. The average starting salary for students with this degree is around \$44,000 with placement rates approaching 100%.

THE ELECTRONICS TECHNOLOGY PROGRAM provides experiences in the following areas: analog electronics, digital electronics, power electronics, automation and control, and digital communication. The goal of the Electronics Technology Program is to expose students to the latest available technology, and also includes experiences in Computer Aided Design, safety, management, cost analysis, quality control, basic machining, and programming. Electronics Technology graduates' employers include Honda Manufacturing of Alabama, Honeywell, Mid South Electronics, Keystone Foods, Westinghouse, The Anniston Army Depot, Alabama Specialty Products, Target, Harley Davidson, and BAE. Typical entry level salaries for the graduates range from \$36,000 to \$50,000 per year.

INDUSTRIAL TECHNOLOGY MANAGEMENT students learn the tools to manage a modern manufacturing facility. There is a great demand for highly skilled professional people in the areas of operations, procurement, and production.

TECHNOLOGY DEGREES and ENGINEERING DEGREES both



prepare people for employment positions titled engineers. While engineering degrees focus on research and development of new technologies, Technology or Applied Engineering degrees concentrate more on integration of the latest technologies. Students interested in research and development of new technologies, architecture, building science, or other engineering disciplines should consider the pre-engineering program.

The Occupational Safety and Health profession involves the anticipation, recognition, evaluation, and control of hazards in the workplace that may cause harm to people, property, and the environment. The Occupational Safety and Health students' employment outlook is good. There is nearly a 100% placement rate for JSU safety graduates. Starting salaries range from \$44,000 to \$63,000 for recent graduates.

The CAREER TECHNOLOGIES EDUCATION and the TECHNICAL EDUCATION programs combine general studies, professional education, career/technical education, and academic courses in technology to prepare students to begin careers as technology educators. The Career Technologies Education program provides experiences for preservice teachers to explore teaching about careers, concepts, processes, and applications relating to the technologies. The preservice teachers complete modules in three broadly

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defined areas of technology: Information Technology, Physical Technology, and Bio-Related Technology. The Technical Education program is designed to prepare graduates that desire to teach in selected fields at Career Technical Centers. The program provides graduates with a background in computer aided design, machining and CNC fundamentals, computer technology, and electronics. The Technical Education and the Career Technologies Education students participate in all clinical experiences practicum that education students normally experience. The wealth of experienced technology instructors and technological equipment provided to the technology majors adds to this program.



The PE2theMax Workshop

Health, Physical Education and Recreation Department of Jacksonville State University hosted “PE2theMax Workshop” in Stephenson Gym on Tuesday, February 17, 2009. The workshop featured Mr. J.D. Hughes, the author of *No Standing Around in My Gym* and the *PE2theMAX: Maximize Skills, Participation, Teamwork, and Fun*. Mr. Hughes presents the “PE2theMax Workshop” throughout the United States. He is a national board certified physical educator who is also the 2005 Georgia Elementary Physical Education Teacher of the Year. Mr. Hughes currently teaches at Mirror Lake Elementary School in Villa Rica, Georgia.

At this workshop, Mr. Hughes demonstrated new and innovative games. The games are designed to help Physical Education Teachers safely manage large numbers of students. Workshop participants experienced games that allow students to safely perform skills and activities in an active and purposeful setting, to incorporate educational games and ideas that focus on student participation, and to use existing PE equipment in new, safe and innovative ways. Over seventy-five Physical Education teachers from across the state attended, as well as over one hundred Health, Physical Education and Recreation students from Jacksonville State University.



Mr. J.D. Hughes, author and PE Teacher

Brain Teaser: Women’s History Month Famous Women of Alabama

Who Am I?

1. Born in Jasper, I was an actress made famous for my phrase, “Kiss my grits”.
2. Born in Birmingham, I was one of the original “Charlie’s Angels” in the 1970’s TV hit.
3. Born in Tusculumbia, I overcame great physical handicaps in order to graduate cum laude from Radcliffe College in 1904.
4. Born in Birmingham, I teach political science at Stanford but took a leave to serve as the most powerful “secretary” of the United States.
5. Born in Dothan, I was Miss JSU before becoming the first Miss America with a disability.

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TV Services

In March, TV services taped the capstone presentations of the Educational Specialist Program students and Ms. Phyllis Taylor's Science for Children class for the Department of Curriculum and Instruction. TV services taped an interview with John Zellar, Site Safety Manager of the Stadium Expansion at JSU, and Ms. Teje Sult's Machining/Manufacturing Processes class for the Department of Technology and Engineering. All of these videos will be used on the College of Education and

Professional Studies iTunes page and for a new recruiting DVD for the College of Education and Professional Studies.

TV services taped for "JSU Today" a segment called "1000 lbs. of Alabama Clay." For the sports segment of "JSU Today" they taped Mike Parris's interview with Baseball Head Coach Jim Case, Spring football practice, and portions of the JSU/Harvard baseball game, the JSU/Alabama State baseball game, and the JSU/Greensboro tennis match.



JSU Employee of the Month for March MS. PENNY J. LANE

Congratulations to Ms. Penny Lane, secretary in the Instructional Services Unit, who has been selected as JSU's Employee of the Month for March. Ms. Lane responsibilities include the Learning Resource Center in room 102 Ramona Wood Hall. In this role Ms. Lane receives many positive comments on the Learning Resource Center Student Survey praising her and the student staff. Her positive spirit and helpful manners have helped the Learning Resource Center be a valuable resource for students working on projects, finding appropriate classroom materials, and finding psychological testing materials. Many of the letters supporting her nomination mentioned the courage that she has shown as she faced personal health challenges. Ms. Lane has been employed at JSU since August 2003.

Hospitality and Culinary Management Concentration Gets Make-Over

The Hospitality and Culinary Management Concentration in the Department of Family and Consumer Sciences was given a face-lift this year. The curriculum was revamped to offer academic background and field experience in the hospitality industry and is planned for individuals interested in management positions in the culinary arts. The updated Hospitality and Culinary Management curriculum is designed to assist students in applying classroom learning of the culinary arts, tourism industry, and hospitality production-operations management to real world experiences. During the senior year, culinary students complete internships in which they work with professionals within the industry to develop a greater understanding and appreciation of the hospitality profession. The Department of Family and Consumer Sciences also offers a minor in Hospitality and Culinary Management.

According to the National Restaurant Association, the culinary industry is the second largest employer nationally, employing over three million people. Further, it is estimated that more than nine percent of employees in the US work in the restaurant industry as



Dr. Tim Roberts and Mrs. Lindsay Waits of the Department of Family and Consumer Science.

foodservice workers, cooks, executive chefs, or culinary managers. The US Bureau of Labor Statistics predicts that the industry will continue to grow over the next decade with the number of jobs projected to increase 11 percent through 2016.

Background Clearance for Admission to all Teacher Education Programs

The State of Alabama recently announced that Cogent Systems has been selected to provide digital fingerprint services for the processing of background clearance required for admission to all undergraduate and graduate education programs.

Dr Joe Morton, State Superintendent, states “Our decision to outsource fingerprint services will extend digital fingerprint services to all our applicants, school districts, colleges and universities, and private schools so that we can render the quickest, most secure processing available.”

Effective Monday, March 30, 2009 all fingerprinting services will be conducted through Cogent Systems. All applicants may view the Cogent Systems Website at <https://www.cogentid.com/al/index.htm> to learn more about their fingerprint process and identify fingerprint locations in your area. Cogent Systems is continuing to secure fingerprinting site locations with the goal to provide a site within twenty miles of any Alabama location.



Diversity Seminar 2009

Phi Delta Kappa and the College of Education & Professional Studies at Jacksonville State University are proud to announce a diversity seminar featuring Ms. Tery J. Medina of the Southeastern Equity Center in Fort Lauderdale, Florida on Tuesday, April 7, 2009. Ms. Medina has a vast experiential background in ESL methodology, curriculum, bilingualism, cross-cultural issues, and English. These experiences, along with her work with state departments of education, LEAs, and other professional groups in the areas of multicultural education, equitable education, Hispanic cultures, and teaching English to speakers of other languages, makes this seminar exceptionally timely.

Ms. Medina will be speaking on the topic Building Bridges of Understanding and Respect: Strategies for Reaching and Teaching English Language Learners in separate sessions tailored to address the individual needs of teacher education students, university faculty, and public school personnel. The first session is designed for teacher education interns and those in methods courses and will be held from 9:00–11:30 a.m. Session two will be for JSU faculty and non-teacher education students from 2:00–3:00 p.m.; and the third session will focus on the interests of public school personnel and others from 4:30–6:00. All sessions will be held in the TMB Auditorium on the JSU campus. For more information, contact Dr. Nina King (nking@jsu.edu).

Faculty Profile: Dr. Melanie Drake Wallace

Dr. Melanie J. Drake Wallace joined the JSU faculty in the fall of 2007 as Assistant Professor of Counselor Education in the Department of Educational Resources. As the Clinical Coordinator of Community Counseling, Dr. Wallace is responsible for ensuring appropriate field experience placements for community counseling students enrolled in practicum and internship. After arriving at JSU, Dr. Wallace identified a need to provide site supervisors increased access to supervision resources and to open the channel of communication between the university and site supervisors. To that end, Dr. Wallace created an online Site Supervisor's Orientation Manual along with a corresponding Clinical Experiences Manual specifically for practicum and internship students in counselor education.

As an undergraduate, Dr. Wallace studied music at Hendrix College in Conway, Arkansas and obtained her undergraduate degree from the University of Montevallo in counseling and music. She earned a M.Ed. in counseling from the University of Montevallo and continued her graduate study at The University of Alabama where she received a Ph.D. in counselor education in 2006.

Prior to coming to JSU, Dr. Wallace taught at the University of Montevallo where she was recognized with the 2006 Alumni of the Year award. Credentialed as a Licensed Professional Counselor, Melanie is in private practice in Birmingham. Her specialties include individual evaluation and psychometric consultation, issues of grief and loss, as well as relationship issues.

Dr. Wallace is actively involved in professional organizations at the state and national level, including Chi Sigma Iota, the American Counseling Association (ACA), and the Association for Counselor Education and Supervision. In 2005, ACA President Sam Gladding awarded Dr. Wallace with a Presidential Citation for her contribution in the creation of a public service announcement promoting the counseling profession. The public service announcement was filmed on the California coast starring Chris McKnight of the Brady Bunch and subsequently aired nationwide. Dr. Wallace was recently elected by the Alabama Counseling Association to serve as Historian for 2009-2010.

Originally from a small, rural community in Southeast Arkansas, Dr. Wallace's public school education was supplemented by years of ballet and piano lessons.



Although she did not ultimately pursue music professionally, Melanie credits her years of piano study for profoundly shaping her beliefs about the restorative power of creativity and spirituality in mental health. Integrating creativity and spirituality into the counseling process is a primary area of research interest.

Additional research interests include effective and ineffective counselor supervision, and the effect of deliberate psychological education upon students in professional counseling training programs. In an ongoing quest to achieve a more comprehensive understanding about how we humans communicate with one another, Melanie became involved in Marshall Rosenberg's nonviolent communication model. One of the challenges of teaching graduate students in the 21st century is encouraging each student to show up, slow down, and be present and alive to one another.

Answers to: Famous Women of Alabama

1. Polly Holliday
2. Kate Jackson
3. Helen Keller
4. Condoleezza Rice
5. Heather Whitestone McCallum