

NORTH CAROLINA A&T STATE UNIVERSITY



OFFICE OF CONTINUING STUDIES 2007-2008 Classes and Workshops

ENGINEERING

Professional Engineering (PE) Examination Review

The review course covers the breadth (AM) exam materials, the 3 depth (PM) exam areas 0 HVAC & Refrigeration, Machine Design, and Thermal & Fluids Systems, plus added depth in Machine Design, Fluids & Thermal. **Saturdays, 1/26/2008-4/5/2008, 8:30 am – 12:30 pm, (McNair Hall RM 135). \$549.**

Fundamentals of Engineering (FE) Examination Review

This course is designed to provide intensive review for the NCEES Fundamentals of Engineering Examination (FE). The course will follow a standard refresher text including lecture and problem solving components and will conclude with a mock examination. **Saturdays, 1/26/2008-4/5/2008, 8:30 am – 12:30 pm, (McNair Hall Lecture RM 1). \$549.**

BUSINESS

Learn to Write Better and More Effectively

Learn the basic rules of writing, how to improve your writing skills, develop your ideas and articulate them intelligently, speak correctly and increase your confidence, present yourself professionally through writing and speaking. **Tuesdays, November 2007, February 2008, March 2008, 6-9 pm, (New Classroom Building RM A211). \$199**

Better Business Communication

This program provides employers, managers, supervisors and professional employees with the level of knowledge needed to perform tasks and help the business succeed. **Date: 2/2008, Online, \$249**

EXECUTIVE BUSINESS SERIES

Executive Program in Global Business

Designed to help potential managers in their efforts to increase global business acumen and develop the leadership skills needed to successfully design and implement international business strategies. Upon completion, participants will receive a NC A&T State University Certificate in Global Business.

Module I: 3/11-14/2008 and Module II: 4/22-25/2008, 8:30 am – 4:30 pm. \$4500

Finance and Accounting for the Non-Financial Manager

This program, taught by experienced and talented NC A & T State University professors and staff, will provide proven concepts and tools you need to improve operating and financial decisions. **Meets for one Saturday (6/7/2008) and then nine (9) Monday Evenings (6/8/2008 – 8/4/2008). \$799**

Leadership Development Program for Engineers, Technologists, and Scientists

This program provides training for engineers, technologists, and scientists who have the potential to become future senior executives. Upon completion, program participants will receive a NC A&T State University Certificate in Innovation Leadership. **Module I: Tues.-Fri., 4/1– 4/4/2008 & Module II: 5/13-16/2008. \$3500**

ARTS, CULTURE & HEALTH

Community Spanish

The overall goal of this program is to prepare English-speaking people to speak and understand small amounts of general and basic Spanish found in most routine interchanges in daily life. In addition, Community Spanish provides basic cultural information about Spanish-speaking groups in the hope of informing and educating English-speakers about unique aspects of Latino culture. **Thursdays, 1/10/2008 – 2/28/2008, 6-8 pm. \$170**

Spanish for Career Technology Education Teachers, Administrators, and Staff

This is a comprehensive program designed to provide functional Spanish Language skills for school personnel who have occasional contact with Spanish-speaking students and visitors. It also includes extensive training for non-Spanish speaking classroom teachers who have Spanish-speaking children in their classrooms. **Tuesdays, 1/8/2008 – 2/26/2008, 6-8 pm. \$170**

Registered Nurse First Assistant Program (RNFA)

Based on the Association of Operating Room Nurses (AORN) Core Curriculum, this program is one of only 22 approved programs nationwide that has met specific criteria and is accepted by the CCI (Competency and Credentialing Institute) as an acceptable program for CRNFA eligibility. As a RNFA, your nursing role will be expanded and requires independent nursing judgment related to tissue handling, retracting, providing exposure, and clamping, ligating, and suturing and providing hemostasis. The program is designed to provide the preoperative nurse with the advanced knowledge and skill to function at an advanced practice level. **3/2-8/2008. \$2,099.**

ASQ CERTIFICATION & ONLINE COURSES

Manager of Quality/Organization Excellence (CMQ/OE)

Manager of Quality/Organizational Excellence (CMQ/OE) - replaces CQM; quality principles & standards in relation to organization & human resource management. **Thursdays, 1/10/2008 – 2/28/2008, 6-9 pm. \$419**

Methods for Continuous Improvement

Introduction of a methodology for using quality improvement tools in a structured problem solving and/or continuous improvement environment. Topics covered include Continuous Improvement sequence, basic quality tools and when to use them, and hands-on activities. **Saturday, 12/8/2007, 9 am - 4:30pm. \$199**

ONLINE COURSES

Introduction to Quality Principles (CQIA Exam Refresher Course)

Introduction to a basic knowledge of quality tools and their uses with quality improvement projects. **Approx. hrs. 12. \$264**

Quality Systems Overview Module I

Topics include quality Philosophies from Quality Gurus, Quality tools, Quality systems including industry standards such as ISO-9000 and Malcolm Baldrige, Total Quality Management, and quality costs. Appropriate for CEOs and Quality Managers as an introduction to quality concepts. **Approx hrs. 15. \$264**

Quality Systems Overview Module II

Topics include probability distributions used in quality control, control charts and their use, and setting tolerances. Appropriate for Quality Managers, Quality Engineers, Quality Technicians as an introduction to these topics. **Approx. hrs. 10. \$249.**

Quality Systems Overview Module III

Topics include:

Review of the Binomial Distribution
Review of the Poisson Distribution
OC Curves
AOQL
ATI (Average Total Inspected) Curves
Designing Single-Sampling Plans
 Choosing AQL, RQL
MIL-STD-105E (ANSI/ASQ A1.4, ISO 2859)
 Single-Sampling Plans
 Double-Sampling Plans
 Multiple-Sampling Plans
Variables Sampling Plans
 Review of the Normal Distribution
 Central Limit Theorem
 Designing Variables Sampling Plans
MIL-STD-414 (ANSI/ASQ Z1.9)
MIL-STD-15C Continuous Sampling Plans
Skip Lot Sampling Plans
Chain Sampling Plans
Unit Sequential Sampling

Instructions are given for solving many of the problems in this course using a TI-83 PLUS calculator and/or MS Excel. These are not required for the course as formulas are given for solving the problems manually, but owning a TI-83 will be an advantage. **Approx. hrs. 18. \$264.**

Six Sigma Green Belt

Disciplined methodology for developing and delivering high-quality products and services (better), reduced cycle times (faster), reduced costs (cheaper). Includes customer analysis, project management, the DMAIC process (Define, Measure, Analyze, Improve, Control) lean manufacturing and design for Six Sigma. Taught at the Green Belt Level - Topics covered are generally the same as that of a Black Belt but at a more introductory level. **Approx. hrs. 30. \$624.**

Introduction to Reliability Analysis

Topics include:

Session 1 - Fundamentals and the Poisson Distribution
Session 2 - Exponential Distribution
Session 3 - Normal Distribution and Wear out Failures
Session 4 - Weibull Distribution and the Bathtub Curve
Session 5 - Lognormal Distribution
Session 6 - Gamma and Erlang Distributions
Session 7 - Analyzing System Reliability
Session 8 - System Preventive Maintenance
Session 9 - Designing Life Tests

Session 10 - Accelerated Life Testing

Session 11 - Fault Trees

Session 12 - Reliability Growth and the Duane Curve

12 Sessions Approx. hrs. 18 . \$264

Introduction to Data Analysis and Design of Experiments

Topics include:

Session 1: Review of Probability and the Normal Distribution
Session 2: Parameter Estimation
Session 3: Hypothesis Testing
Session 4: Comparing Two, or More, Populations
Session 5: Analyzing Yield Data (Proportions)
Session 6: Analysis Of Variance (ANOVA)
Session 7: 2k Factorial Designs
Session 8: Simple Linear and Multiple Regression

Directions are given for analyzing all data using MS Excel.

Approx. hrs. 15. \$264

ENRICHMENT CAMP

The object of the Aggie Enrichment Camp at North Carolina A&T State University is to provide enrichment activities and promote interdisciplinary learning experiences for elementary, middle, and high school and adult students throughout the summer. **Monday-Friday, 8:30 am – 4:30 pm, Week I: 6/16-20/2008, Week II: 6/23-27/2008, Week III: 7/7-11/2008, Week IV: 7/14-18/2008, Week V: 7/21-25/2008, Week VI: 7/28-8/1/2008. \$150 per week. Early/Late fee available: \$25 per week.**



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