

"Every student begins this class with an 'A.' It is up to the student to maintain it."
Introduction to the Engineering Profession EGN 1006 - Dual Enrollment UCF

Instructor: Kenneth Bowles

Location: Room 550

Room Phone Number: 407-905-5500 ext. 2550

Google # (use for text messages) - (407) 513-2780 Please be responsible using this.

You must identify yourself to get a reply.

Email: ken@bowlesphysics.com ; Kenneth.bowles@ucps.net

Webpage: <http://www.bowlesphysics.com>

Credit: ½ high school credit per semester, 1 college credit per semester

Text (s):

- "Introduction to Mathcad 11 with Mathcad CD" by Ronald W. Larsen,

Course goals

The purpose if this course is to introduce you to the various branches of engineering. We do this by bringing in various experts in the different fields of engineering to explain to you what they do and WHY they do what they do. The hope is that you will leave this course with a PLAN OF ACTION. Many engineering students cannot seem to make up their mind as to which branch of engineering might hook their interest. This lack of decision making can cause many problems as you try to make your way through freshman undergraduate coursework.

Along the way you will also have an opportunity to learn some very useful software packages like: Autocad, Mathcad, and Matlab. These programs are frequently used in engineering colleges across the nation. The hope is not that you will become a master of the program, but at least some exposure and hint of what to expect when you enter an engineering program.

Some guidance on engineering ethics, study habits, time management, financial management, extra curricular activities and other topics will also be provided.

Each student completing this course should:

- Understand how engineering contributes to society.
- Be able to describe the type of work done by each of the engineering specialties.
- Be aware of problems that can be caused by conflict of interest situations and other ethical dilemmas.
- Introduction to the use of computer and applications software in solving engineering problems.
- Introduction to the concepts of engineering design through the use of teams
- Be able to schedule their work to productively complete complex projects on time.
- Be able to produce technical documents and provide clear and concise oral presentations.

Egn 1006 Introduction To The Engineering Profession

Mike Jess



Egn 1006 Introduction To The Engineering Profession:

Peterson's Graduate & Professional Programs: An Overview--Profiles of Institutions Offering Graduate & Professional Work Peterson's,2011-06-01 Graduate Professional Programs An Overview Profiles of Institutions Offering Graduate Professional Work contains more than 2 300 university college profiles that offer valuable information on graduate and professional degree programs and certificates enrollment figures tuition financial support housing faculty research affiliations library facilities and contact information Graduate & Professional Programs: An Overview 2011 (Grad 1) Peterson's,2011-05-01 An Overview contains more than 2 300 university college profiles that offer valuable information on graduate and professional degrees and certificates enrollment figures tuition financial support housing faculty research affiliations library facilities and contact information This graduate guide enables students to explore program listings by field and institution Two page in depth descriptions written by administrators at featured institutions give complete details on the graduate study available Readers will benefit from the expert advice on the admissions process financial support and accrediting agencies **Engineering Asset Management - Systems, Professional Practices and Certification** Peter W. Tse,Joseph Mathew,King Wong,Rocky Lam,C.N. Ko,2014-12-09 This proceeding represents state of the art trends and developments in the emerging field of engineering asset management as presented at the Eight World Congress on Engineering Asset Management WCEAM The Proceedings of the WCEAM 2013 is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering topics such as Asset condition monitoring and intelligent maintenance 2 Asset data warehousing data mining and fusion 3 Asset performance and level of service models 4 Design and life cycle integrity of physical assets 5 Deterioration and preservation models for assets 6 Education and training in asset management 7 Engineering standards in asset management 8 Fault diagnosis and prognostics 9 Financial analysis methods for physical assets 10 Human dimensions in integrated asset management 11 Information quality management 12 Information systems and knowledge management 13 Intelligent sensors and devices 14 Maintenance strategies in asset management 15 Optimisation decisions in asset management 16 Risk management in asset management 17 Strategic asset management 18 Sustainability in asset management King WONG served as Congress Chair for WCEAM 2013 and ICUMAS 2013 is the President of the Hong Kong Institute of Utility Specialists HKIUS and Convener of International Institute of Utility Specialists IIUS Peter TSE is the Director of the Smart Engineering Asset Management laboratory SEAM at the City University of Hong Kong and served as the Chair of WCEAM 2013 Organising Committee Joseph MATHEW served as the Co Chair of WCEAM 2013 is also WCEAM s General Chair He is the Chief Executive Officer of Asset Institute Australia Management Index ,1968 **The Railway and Engineering Review** Walter Mason Camp,1907 Whitaker's Cumulative Book List ,1984 *Multiphase Reactor Engineering for Clean and Low-Carbon Energy Applications* Yi Cheng,Fei Wei,Yong Jin,2017-02-21 Provides a comprehensive review on the brand new development of

several multiphase reactor techniques applied in energy related processes Explains the fundamentals of multiphase reactors as well as the sophisticated applications Helps the reader to understand the key problems and solutions of clean coal conversion techniques Details the emerging processes for novel refining technology clean coal conversion techniques low cost hydrogen productions and CO₂ capture and storage Introduces current energy related processes and links the basic principles of emerging processes to the features of multiphase reactors providing an overview of energy conversion in combination with multiphase reactor engineering Includes case studies of novel reactors to illustrate the special features of these reactors **Peterson's Guide to Graduate and Professional Programs, an Overview** ,1993 Introduction to

the Engineering Profession M. David Burghardt,1995 An introduction to the field for beginning engineering students offering an historical perspective and information on technical careers in disciplines such as automotive chemical ceramic materials and petroleum engineering Emphasizes the importance of social and political awareness and ethics **Engineering**

Education American Society for Engineering Education,1961 **Research Publications and Professional Activities** Pennsylvania State University,1980 **ASEE ... Profiles of Engineering & Engineering Technology Colleges** ,1998

Computational and Experimental Simulations in Engineering Shaofan Li,2023-12-04 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 29th International Conference on Computational bioengineering geotechnical engineering offshore multi scale structural integrity materials design and computer modeling methods in engineering The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations Proceedings of the American Society for Engineering Education American Society for Engineering Education,1960 **Whitaker's Five-year Cumulative Book List** ,1953

Models, Algorithms, and Technologies for Network Analysis Boris I. Goldengorin,Valery A. Kalyagin,Panos M. Pardalos,2012-12-12 Network Analysis has become a major research topic over the last several years The broad range of applications that can be described and analyzed by means of a network is bringing together researchers practitioners and other scientific communities from numerous fields such as Operations Research Computer Science Transportation Energy Social Sciences and more The remarkable diversity of fields that take advantage of Network Analysis makes the endeavor of gathering up to date material in a single compilation a useful yet very difficult task The purpose of these proceedings is to overcome this difficulty by collecting the major results found by the participants of the First International Conference in Network Analysis held at The University of Florida Gainesville USA from the 14th to the 16th of December 2011 The contributions of this conference not only come from different fields but also cover a broad range of topics relevant to the theory and practice of network analysis including the reliability of complex networks software theory methodology and applications *Engineering News-record* ,1926 *Introduction to the Engineering Profession* John Dustin Kemper,1993

Many freshman engineering students have questions about the profession What branch of engineering appeals to me the most What is the relationship of engineering to the environment Which skills are required to be a successful engineer Introduction to the Engineering Profession 2 E is a major draw for students because it helps them answer these questions With his engaging style John Kemper reveals the human aspect of this challenging and rewarding profession while providing students with essential design and technical material This unique approach presents engineering in a social context as a discipline with a conscience Kemper reinforces the student orientation by instilling confidence in students with suggestions about study habits test taking and successful problem solving *Principles of Engineering Geology* Robert B. Johnson, Jerome V. DeGraff, 1988 Provides a comprehensive introduction of the application of geologic fundamentals to civil engineering Explains the theory and applied aspects of engineering geology and the impact geology has on civil engineering planning design construction and monitoring Offers expanded coverage of applied geophysical methods investigation fundamentals use of aggregate materials site instrumentation and remote sensing **The Journal of Engineering Education** ,1960

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