The Graduate Council approved the College of Engineering Department of Industrial Engineering request to change the department name to the Department of Industrial and Systems Engineering.
MEMORANDUM

TO: Dr. John R. Giardino  
Dean of Graduate Studies

FROM: John M. Niedzwecki  
Executive Associate Dean and  
R.P. Gregory ’32 Chair Professor

SUBJECT: Nonsubstantive Administrative Change Request

The Department of Industrial Engineering has submitted a request to change the name of the department to the Department of Industrial and Systems Engineering. This proposal has been reviewed by our College of Engineering Graduate Instruction Committee, and their approval is reflected in the attached memorandum from Dr. N.K. Anand, Assistant Dean for Graduate Programs.

I am submitting this proposal for consideration by the University's Graduate Council. Please contact me if you have questions or need additional information.

Attachments
Memo

Date: 9/16/2004
To: Dr. G. Kemble Bennett, Dean of Engineering
Cc: Dr. J. Howze, Associate Dean for Academic Programs
From: Dr. N. K. Anand, Assistant Dean for Graduate Programs
RE: INEN Departmental Name Change

On September 15, 2004, the Graduate Instruction Committee for the College of Engineering voted unanimously to recommend approval of the request by the Department of Industrial Engineering to change their name to the Industrial and Systems Engineering Department.

Please feel free to contact me if you should require additional information.

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Nonsubstantive Administrative Change Request
Title Page Model

NAME OF INSTITUTION Texas A&M University

CHANGE REQUEST __Request to change the name of the Department of Industrial Engineering to the Department of Industrial and Systems Engineering.

Display how administrative unit(s) and program(s) would appear on the Coordinating Board program inventory; include Texas CIP code designation(s). Administrative Unit codes will be supplied.

Industrial and Systems Engineering
B.S., M.S., M.Eng., Ph.D.
14.3501.00

Proposed date for implementation of administrative change _September 1, 2005_

Person to be contacted for further information about administrative change(s):

Name: Brett A. Peters ____________ Title: Department Head
Phone: (979) 845-5535 ____________ FAX: 979-847-9005

Signatures:

________________________________________________________________________
Campus Chief Executive Officer

________________________________________________________________________
System Chief Executive Officer
(As appropriate)

________________________________________________________________________
Governing Board approval date:
PROPOSED NONSUBSTANTIVE ADMINISTRATIVE CHANGE FOR THE DEPARTMENT OF INDUSTRIAL ENGINEERING

1. Change Requested:

The Department of Industrial Engineering requests to change the name of the department from the Department of Industrial Engineering to the Department of Industrial and Systems Engineering. We do not intend to change the names of the degrees awarded by the department. This requested name change does not affect existing resources nor does it require additional resources; therefore the name change is submitted as a nonsubstantive request. In addition, the change does not change the department’s role and mission, but rather is reflective of changes in the department’s mission since its origin and today’s common usage of terms that typically describe our activities.

2. Rationale:

Industrial engineering has evolved to a profession that deals with people, materials, information, equipment and energy as integrated systems. The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) lists that “industrial engineering programs must provide in-depth instruction to accomplish the integration of systems using appropriate analytical, computational, and experimental practices.” There are a great many tools for analyzing systems that are traditionally within the domain of industrial engineering. Some examples are: operations research, applied probability and stochastic processes, discrete event simulation, and mathematical model and control. About 50% of the course offerings and course content in the Department of Industrial Engineering focus on the teaching, application, and development of these systems analysis tools.

The changes in our curriculum have paralleled changes in the industrial engineering profession at the national level. Industrial engineering originally spanned a wide range of specializations which primarily served the manufacturing industry as production improvement and management techniques. Over time, some of the specialties, such as computer programming, have developed into complete fields in their own right (computer science is now a department with 32 faculty members). The numerical and computer based mathematical analysis tools of operations research have grown substantively since their development. This growth paralleled the availability of computing power. The industrial engineering field has maintained a connection with the techniques and with their application. Over time these systems description, analysis and control methodologies have developed along with the complexity of the systems to which they are applied. The Institute of Industrial Engineers (IIIE) recognizes this systems aspect of our field as does the Engineering Accreditation Commission (ABET). If fact, the Institute of Industrial Engineers offers a certification program in Systems Integration as part of their membership service.

A recent survey of industrial engineering departments throughout the United States reveals that about 16% now use the name of industrial and systems engineering, while
53% of them recognize a broader role for the field and use some other modifiers of industrial engineering. Several of our peers among the top ten ranked programs have names which include systems engineering.

Since our faculty and students must have the ability to model, design, analyze and control integrated systems, we feel it is appropriate to include recognition of these skills in the department name and degrees by adding the word systems.

3. Effects on the Administrative Unit and on the Institution:

The primary effect of changing the name of the department will be to attract additional students at both the undergraduate and graduate levels and to enhance the job placement opportunities for our graduates.

Students entering programs in our profession increasingly are interested in applying the methodologies taught in other than the industrial setting; such as the business, service, security, and medical sectors. The name change will connote to employers that these students have skills applicable beyond the industrial/manufacturing sector.

We do not feel that this name change will infringe on other departments in the university. While many engineering departments look at systems as a whole, industrial engineering has traditionally formed the backbone of academic support for research, teaching and development of these technologies.

4. Implications for Classes, Personnel, Facilities and Equipment:

The proposed name change will have no effect on current classes taught, distribution of personnel, availabilities of facilities, or availability of equipment. The name change will allow the department to adapt to changing demands for these system-level skills.

5. Cost Savings:

The proposed name change will not incur any additional costs to the unit except minimal costs for changes in stationary, signage and publications. No cost savings will be generated by the name change.
MEMORANDUM

TO:       JOHN NIEDZWECKI
FROM:     BRETT A. PETERS
SUBJECT:  NAME CHANGE FOR ISEN
DATE:     8/30/2004
CC:       G. KEMBLE BENNETT

The Industrial Engineering faculty has voted to change our name to better reflect our teaching, research, and outreach activities. The name, "Industrial Engineering" while meaningful to academics familiar with the field, to most people connotes smokestacks and stopwatches. Since we deal with many more systems than purely production ones, we believe a better name is "Industrial and Systems Engineering" (ISEN). This is in keeping with changes that have occurred all over the nation in departments that have been called Industrial Engineering. To date, the corresponding department at Georgia Tech (ranked number one), the University of Florida, University of Southern California, Auburn University, Lehigh University, Virginia Tech, and others are all called Industrial and Systems Engineering.

We believe this will assist our efforts in reaching out to service industries such as healthcare as well as other applications such as homeland security. Thank you for your attention to this important matter.