

# SCHOOL OF INDUSTRIAL ENGINEERING

## MS and Ph.D.

### Pre-Approved Non-IE Electives

#### I. College of Business Administration

##### 1. Accounting

ACCT 5013 Quantitative Financial Controls

##### 2. Business Administration

BAD 5113 Entrepreneurship

BAD 5233 Accounting for MBA's

##### 3. Economics

ECON 5033 Managerial Economics I

ECON 5043 Managerial Economics II

##### 4. Finance

FIN 5043 Financial Administration of the Firm

##### 5. Management

MGT 5083 Human Resource Management and Organizational Behavior

##### 6. Marketing

MKT 5063 Managerial Marketing

#### II. College of Arts and Sciences

##### 1. Mathematics & Statistics

MATH 4073 Numerical Analysis I

MATH 4083 Numerical Analysis II

MATH 4103 Introduction to Functions of Complex Variable

MATH 4433 Introduction to Analysis I

MATH 5163 Partial Differential Equations

MATH 5173 Advanced Numerical Analysis I

MATH 5183 Advanced Numerical Analysis II

MATH 5453 Real Analysis I

MATH 5463 Real Analysis II

MATH 5623 Convexity Theory I

MATH 5633 Convexity Theory II

MATH 5653 Introduction to Differential Geometry I

MATH 5673 Graph Theory I

MATH 5683 Graph Theory II

MATH 5693 Topics in Geometry and Combinatorics I

MATH 5763 Introduction to Stochastic Processes

MATH 5853 Topology I

#### II. College of Arts and Sciences, continued

##### 2. Psychology

PSY 5003 Psychological Statistics I

PSY 5013 Psychological Statistics II

PSY 5053 Exploratory Data Analysis

PSY 5103 Physiological Psychology

##### 2. Psychology continued

PSY 5203 Survey in Cognitive Psych.

PSY 5280 Seminar, Cognitive Processes

PSY 6003 Measurement & Scaling

PSY 6013 Factor Analysis & Structural Equation Models

PSY 6023 Stat. Models of Test Scores

PSY 6073 Experimental Design for Psych.

PSY 6213 Attention and Memory

PSY 6223 Quantitative Models in Cognition

PSY 6280 Adv. Seminar, Cognitive Processes

##### 3. Health & Sport Sciences

HSS 5833 Advanced Exercise Physiology Laboratory

HSS 5863 Physical Activity & Aging

#### III. College of Engineering

##### 1. Aerospace & Mechanical Engineering

AME 5053 Elastic Plate Structures

AME 5063 Composite Materials

AME 5740 Topics in Design

AME 5763 Finite Element Method

AME 6033 Fracture Mechanics

##### 2. Computer Science

CS 4013 Artificial Intelligence

CS 4413 Algorithm Analysis

CS 4513 Database Management

CS 4613 Computer Architecture

CS 5053 Computer Graphics

CS 5133 Data Networks

CS 5413 Computational Complexity

CS 5513 Advanced Database Mgmt.

CS 5743 Scientific Computing I

##### 3. Environmental Science

ES 5913 Risk Assessment & Mgmt.

If the course you want to take is not on this list, you need to see the I.E. Student Services Coordinator for a special approval request form. The I.E. Graduate Committee will evaluate your request and inform you of their decision.