

Industrial and Systems Engineering

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OBJECTIVE

The Master of Science and Doctor of Philosophy Programs in Industrial Engineering are designed to meet the need for technical and/or managerial specialists in Industrial Engineering. Three areas of concentration (Human-Machine Systems Engineering (HMSE), Manufacturing and Service Enterprise Engineering (MSEE), and Operations Research and Systems Analysis (ORSA) are being offered.

DEGREES OFFERED

Master of Science - Industrial Engineering
Ph.D. - Industrial Engineering

GENERAL PROGRAM REQUIREMENTS

The program is open to students with a bachelor's degree in a scientific discipline from an institution of recognized standing. Students desiring to enter the program, who do not possess a bachelor's degree in a scientific discipline are required to complete with at least a "B" average, a number of background courses in mathematics, physics and engineering science prior to full admission to the graduate program. Students entering the program without a bachelor's degree in Industrial Engineering from an accredited department are required to remove all deficiencies in general professional prerequisites. Applicants with their highest degree from non-English speaking countries must complete the Test of English as a Foreign Language (TOEFL) exam and obtain a score of 550 or above.

Admission Requirements for Masters Degree Program (MSIE)

The application and supporting materials must be submitted to the School of Graduate Studies. The Department will process applications within 30 days of receipt from the School of Graduate Studies.

Admission Requirements for Doctor of Philosophy in Industrial Engineering (Ph.D. in IE)

The application and supporting materials must be submitted to the School of Graduate Studies. The Department will process applications within 30 days of receipt from the School of Graduate Studies.

To be considered for admission to the Ph.D. in Industrial Engineering an applicant must satisfy the following requirements:

1. At least one degree in engineering.
2. A Bachelor of Science degree in Industrial Engineering from an EAC-ABET accredited program with a cumulative grade point average of 3.5 or above on a 4 point scale.

OR

A Master of Science degree in a discipline related to Industrial Engineering, from a college or university recognized by a regional or general accrediting agency, with a cumulative grade point average of 3.3 or above on a 4 point scale.

3. Complete the Graduate Record Exam (GRE) Aptitude Exam.

PROGRAM OPTIONS AND DEGREE REQUIREMENTS

For the Master of Science Program three degree options are available, namely, Thesis, Project and Course-only. The thesis option requires 24 semester hours of course work and 6 hours of thesis culminating in scholarly research work. The project option requires 30 semester hours of course work and 3 hours of project work. Both the thesis and project options require an oral examination and a written report. The Course-only

option requires 33 semester hours of course work and a 1 semester hour comprehensive exam. To graduate, a student must maintain a 3.0 grade point average.

The Ph.D. program requires a total of 75 semester hours after the B.S. degree, which includes 18 semester hours of dissertation work. The Ph.D. program offers specialization in Human-Machine Systems Engineering (HMSE) and Manufacturing and Service Enterprise Engineering (MSEE).

Additional details of requirements for the M.S. and Ph.D. programs in Industrial Engineering are outlined in the Graduate Program Student Handbook available from the Department.

List of Courses		Credits
INEN 600	Survey of Industrial Engineering Topics	3
INEN 615	Industrial Simulation	3
INEN 618	Total Quality Improvement	3
INEN 624	Computer-Integrated Design / Manufacturing	3
INEN 625	Information Systems	3
INEN 628	Six Sigma Quality	3
INEN 632	Robotic Systems and Applications	3
INEN 633	Engineering Law and Ethics	3
INEN 635	Materials Handling Systems Design	3
INEN 648	Biomechanics	3
INEN 653	Engineering Entrepreneurship	3
INEN 655	Production Planning & Scheduling	3
INEN 658	Project Management	3
INEN 664	Systems Safety Engineering and Risk Analysis	3
INEN 665	Human-Machine Systems	3
INEN 675	Design and Analysis of Experiments	3
INEN 685	Selected Topics in Industrial Engineering	1-3
INEN 694	Special Projects	1-3
INEN 721	Systems Engineering Models	3
INEN 731	Engineering Cost Control	3
INEN 734	Engineering Organization	3
INEN 735	Human-Computer Interface	3
INEN 742	Linear Optimization	3
INEN 745	Advanced Computer-Integrated Production Systems	3
INEN 812	Advanced Ergonomics	3
INEN 813	Cognitive Systems Engineering	3
INEN 814	Advanced Topics in Human-Machine Systems	3
INEN 821	Multivariate Statistics for Engineering	3
INEN 822	Advanced Systems Simulation	3
INEN 831	Service Sector Engineering	3
INEN 832	Information Technology Management	3
INEN 833	Supply Chain Systems Engineering	3
INEN 841	Integer and Network Optimization	3
INEN 843	Queuing Theory	3
INEN 844	Reliability and Maintenance	3
INEN 851	Integrated Manufacturing Control Systems	3
INEN 852	Integrated Product and Process Design	3
INEN 853	Enterprise Integration	3
INEN 854	Inventory & Warehouse Systems	3
INEN 861	Nano/Micro- and Bio-Manufacturing	3
INEN 885	Advanced Special Topics in Industrial Engineering	1-3
M.S. level Pass/Fail Courses		
INEN 791	Master's Comprehensive Exam	1
INEN 792	Industrial Engineering Master's Seminar	1
INEN 793	Master's Supervised Teaching	3
INEN 794	Master's Supervised Research	3
INEN 796	Master's Project	3
INEN 797	Master's Thesis	1-6
INEN 799	Continuation of Master's Project/Thesis	1

Ph.D. level Pass/Fail Courses

INEN 991	Doctoral Qualifying Examination	1
INEN 992	Doctoral Seminar in Industrial Engineering	1
INEN 993	Doctoral Supervised Teaching in Industrial Engineering	3
INEN 994	Doctoral Supervised Research in Industrial Engineering	3
INEN 995	Doctoral Preliminary Examination	3
INEN 997	Dissertation	1-9
INEN 999	Continuation of Dissertation	1

COURSE DESCRIPTION**Advanced Undergraduate and Graduate****INEN-600. Survey of Industrial Engineering Topics** **Credit 3 (3-0)**

This course will introduce topics in the following areas of Industrial Engineering: Engineering Economy, Linear Programming, Production Control, Methods Engineering, and Statistical Process Control. Prerequisite: Senior/Graduate Standing.

INEN-615. Industrial Simulation **Credit 3 (2-2)**

This course addresses discrete-event simulation languages. One general purpose simulation language is taught in depth. The use of simulation in design and improvement of production and service systems is emphasized. Term papers and projects will be required. Prerequisite: Consent of Instructor.

INEN-618. Total Quality Improvement **Credit 3 (3-0)**

This course provides a systematic engineering approach to understanding the philosophy and application of Total Quality Improvement (TQI). It also introduces students to Continuous Improvement (C) techniques used by management as a means of improving engineering processes in order to become and remain competitive in the global marketplace. The CI techniques and concepts this course includes a strategic planning, benchmarking, ISO 9000, teamwork, customer satisfaction, employee involvement, quality tools, and business process reengineering. Design projects are required. Prerequisite: Senior/Graduate Standing.

INEN-624. Computer-Integrated Design / Manufacture **Credit 3 (2-2)**

This course addresses Computer-based tools and techniques for integrated product and process design. Topics include numerical computer-aided design and process planning, group technology, numerical control, computer numerical control, and direct numerical control, rapid response technologies, integrated manufacturing planning, execution, and control and computer-integrated manufacturing. Design projects are required. Prerequisite: Graduate Standing.

INEN-625. Information Systems **Credit 3 (3-0)**

This course introduces the planning, design, implementation and evaluation of industrial information systems. Analysis and design techniques, organization of data, current software tools, client-server architectures, and current database technologies are presented. The role of information systems in global manufacturing, distribution, and services is addressed. Design projects are required. Prerequisite: Senior/Graduate Standing.

INEN-628. Six Sigma Quality **Credit 3(2-2)**

This course covers the current Six Sigma body of knowledge for process engineering and improvement as well as Lean concepts and tools. Topics covered include problem identification and implementation of improved operations and processes. This course prepares students to take the Six Sigma Certification Exam. A project is required. Prerequisite: Consent of Instructor.

INEN-632. Robotic Systems and Applications **Credit 3 (2-2)**

This course addresses design, analysis, implementation and operation of robotics in production systems. End effectors, vision systems, sensors, stability and control off-line programming, and simulation of robotic systems are covered. Methods for planning robotic work areas are emphasized. Design projects are required. Prerequisite: Senior/Graduate Standing.

INEN-633. Engineering Law and Ethics**Credit 3 (2-2)**

This course introduces engineers to law and ethics. Topics include contract law and practices, product liability, intellectual property and patent law, research and development contracts, environmental law, interstate commerce regulations, labor law, workers' compensation, safety regulations, ethical issues involving conflict of interest, and confidentiality. Prerequisite: Senior/Graduate Standing.

INEN-635. Materials Handling Systems Design**Credit 3 (2-2)**

This course focuses on the design and analysis of materials handling and flow in manufacturing facilities. Principles, functions, equipment and theoretical approaches in materials handling are discussed. Tools for the automation of materials handling are introduced. Design projects are required. Prerequisite: Senior/Graduate Standing.

INEN-648. Biomechanics**Credit 3 (3-0)**

This course covers human biomechanical and physiological behavior during work. Quantitative methods using engineering mechanics principles and computer simulation are emphasized. Prerequisite: Senior/Graduate Standing.

INEN-653. Engineering Entrepreneurship**Credit 3 (2-2)**

This course focuses on innovation and entrepreneurial skills development oriented toward an engineering enterprise. The course covers key entrepreneurial areas of intellectual property; evaluation of market viability of new product ideas; shaping product ideas into the right products or services for the right markets; developing strategies for product positioning, marketing and operations; acquiring the resources needed to start a new venture; and leadership roles for the founders of engineering ventures. A project is required. Prerequisite: Consent of Instructor.

INEN-655. Production Planning & Scheduling**Credits 3 (3-0)**

This course focuses on the design, control and underlying behavior of manufacturing and service systems with emphasis on quantitative and information technology methods. Topic covered in this course include demand forecasting, inventory management, aggregate planning, operations scheduling, Material Requirements Planning and Manufacturing Resource Planning, Just-in-Time, Theory of Constraints and Supply Chain Management. Projects will be required. Prerequisite: Graduate Standing

INEN-658. Project Management**Credit 3 (3-0)**

This course addresses project proposal preparation, resource and cost estimation, project planning, organizing and controlling, network diagrams, and computerized project planning systems. Prerequisite: Senior/Graduate Standing.

INEN-664. Systems Safety Engineering and Risk Analysis**Credit 3 (3-0)**

This course presents the principles and methods of system safety management and risk analysis. Quantitative and qualitative methods and their applications in safety and risk analysis of human-machine systems are emphasized.

INEN-665. Human Machine Systems**Credit 3 (2-2)**

This course emphasizes the application of perceptual, cognitive, and physical ergonomics principles to the design of human-machine systems. Topics covered include physiological limitations, cognitive and perceptual issues, task complexity and the demands on physical/cognitive resources, human-machine system integration, usability and evaluation methods. Design projects are required. Prerequisites: Graduate Standing in ISE or Consent of Instructor.

INEN-675. Design and Analysis of Experiments**Credit 3 (3-0)**

This course addresses various experimental designs, to analyze data for research projects, process improvements, human factors studies, and surveys. Designs covered include Latin Squares, complete and incomplete block designs, one, two, and three variable factorials, fractional factorials, nested designs, and 2k designs. Suitable laboratory apparatus will be set up to study the effect of design parameters on selected response. Statistical software will be utilized to analyze results. Parametric statistics such as analysis of variance (ANOVA) are introduced. Prerequisite: Graduate Standing.

INEN-685. Selected Topics in Industrial Engineering Variable **Credit (1-3)**

Selected engineering topics of interest to students and faculty. The topics will be selected before the beginning of the course and will be pertinent to the programs of the students enrolled. Prerequisite: Senior/Graduate Standing.

INEN-694. Special Projects Variable **Credit (1-3)**

Study arranged on a special engineering topic of interest to student and faculty member, who will act as advisor. Topics may be analytical and/or experimental and encourage independent study. Prerequisite: Consent of the instructor.
M.S. and Ph.D. Students Only

INEN-721. Systems Engineering Models **Credit 3 (3-0)**

This course presents an overview of modern quantitative and computational techniques for system modeling, design and control. Topics include fuzzy set theory, neural network, control theory, optimization search methods, Petri-nets, and knowledge-based systems. Prerequisite: Graduate Standing.

INEN-731. Engineering Cost Control **Credit 3 (3-0)**

This course is designed to emphasize the use of cost data by engineers in support of the financial management function. Cost functions, cost behavior, cash control, budgeting, and cash flow analysis are discussed.

INEN 734. Engineering Organization **Credit 3 (3-0)**

This course presents theories of organizational structures, motivation, leadership, delegation, incentives and rewards systems, teams, strategic planning, and personnel evaluation. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-735. Human-Computer Interface **Credit 3 (3-0)**

This course provides a fundamental coverage of topics in human-computer interface (HCI). The primary emphasis is on the impact of human characteristics and the use of information processing models for HCI-design, usability evaluation, virtual reality, and multimedia systems. Prerequisite: Graduate Standing.

INEN-742. Linear Optimization **Credit 3 (3-0)**

This course addresses formulation, solution techniques and applications of linear programming problems. Topics covered include simplex-method, revised simplex method, duality, sensitivity analysis, large scale linear programs, column generation, Dantzig-Wolfe decomposition, interior point methods, and computer solutions. Prerequisites: Consent of Instructor.

INEN-745. Advanced Computer-Integrated Production Systems **Credit 3 (3-0)**

This course addresses the principles relating to integration issues for an automated manufacturing enterprise. Topics include control architectures, communication networks and standards for graphical information interchange. Current research areas will be discussed. Design projects are required. Prerequisites: INEN-624 and INEN-635.

INEN791 Masters Comprehensive Exam **Credit 1(1-0)**

This course will guide the student to take the M.S. Comprehensive Exam. The examination will be administered towards the end of the semester. Pass/Fail evaluation only, no letter grade will be given. Prerequisite: Graduate Standing.

INEN-792. Industrial Engineering Master's Seminar **Credit 1 (1-0)**

This course introduces contemporary industrial engineering topics via talks by individuals from industry, government, and academe. Prerequisites: Graduate Standing in ISE.

INEN-793. Master's Supervised Teaching **Credit 3 (3-0)**

This course provides students with the experience of assisting in instruction and evaluation of lecture and laboratory components of industrial engineering courses. Prerequisites: Graduate Standing in ISE

INEN-794. Master's Supervised Research **Credit 3 (3-0)**
This course provides students with the experience of assisting in all aspects of planning and completing research projects. Prerequisites: Graduate Standing in ISE

INEN-796. Master's Project **Credit 3 (3-0)**
This course provides the student an opportunity to complete a comprehensive industrial engineering project of their choice under the supervision of a faculty advisor. A project is an application of industrial engineering methods and techniques to a specific problem. Students are required to complete a project proposal and a final defense in accordance with departmental guidelines. Prerequisites: Graduate Standing in ISE

INEN-797. Master's Thesis Variable **Credit 1-6**
This course provides the student an opportunity to complete a piece of original research, of their choice, in industrial engineering, under the supervision of a faculty advisor. Students are required to complete a thesis proposal and a final defense in accordance with departmental guidelines. Prerequisites: Graduate Standing in ISE

INEN-799. Continuation of Master's Project / Thesis **Credits 1 (1-0)**
This course will enable master's students who have completed all required coursework and all project/thesis credits, to complete their project/thesis work. Prerequisites: Graduate Standing in ISE

INEN-812. Advanced Ergonomics **Credit 3 (3-0)**
This course covers quantitative and qualitative analysis of human motions in space and time. Sample topics include human physiology, anthropometry, human figure modeling, and human performance for a set of task requirements and specifications. Design projects are required. Prerequisite: Graduate Standing.

INEN-813. Cognitive Systems Engineering **Credit 3 (3-0)**
This course examines the principles, theories, and applications of the cognitive basis of system design. Topics include models of human and machine information processing, mental models, human error, human-centered design, abstraction hierarchy, ecological interface, cognitive task analysis, multi-flow models, activity-behavior models, and theories of complexity in human-machine systems. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-814. Advanced Topics in Human-Machine Systems **Credit 3 (3-0)**
This course examines advanced topics in human-machine systems. Topics covered include supervisory control, human aspects of fixed and programmable automation, theories and models of complex systems, collaborative work support systems, human attention and cognitive control of dynamic actions, and tele-operations. Applications include supervisory control in transportation, process, space operations, waste and hazardous handling, manufacturing, and other applications of automated systems. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-821. Multivariate Statistics For Engineers **Credit 3 (3-0)**
This course focuses on methods for statistical analysis of multivariate data. Topics include: dimensionality, multidimensional classification and clustering, unstructured multi-response sampling, analysis of covariance structures, such as principal components, factor analysis and canonical correlation analysis, and multivariate normal distribution and analysis of multivariate means. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-822. Advanced Systems Simulation **Credit 3 (3-0)**
This course discusses advanced statistical issues in the design of simulation experiments: variance reduction, regeneration methods, performance optimization and run sampling. Continuous simulation models are introduced. High fidelity simulation software and high-level architecture for constructing large simulation models is introduced. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-831. Service Sector Engineering**Credit 3 (3-0)**

This course focuses on the application of modeling and analysis of enterprises in the service sector of an economy. Topics include the role of the service sector in an economy, special characteristics of service operations, structuring the service enterprise, facility design for services, service quality, quantitative models for managing services. Applications in the financial services, health care, and other sectors will be emphasized. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-832. Information Technology Management**Credit 3 (3-0)**

This course focuses on productivity measurement and improvement of information technology and information system services. Other topics covered include the planning and control of human resources and budgets, as well as the planning of innovation, entrepreneurship and research and development, and the forecasting and justification of technology. Prerequisites: Consent of Instructor.

INEN-833. Supply Chain Systems Engineering**Credit 3 (3-0)**

This course addresses the analysis and design of logistics and supply chain systems. Topics covered include: logistics and supply chain characterization, site location, mode selection, distribution planning, vehicle routing, demand management, replenishment management, geographic information systems and real-time logistics control issues. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-841. Integer and Network Optimization**Credit 3 (3-0)**

This course addresses formulation and solution techniques for integer programming problems and network optimization problems. Topics covered include integer programming models, branch and bound method, transportation, assignment, and transshipment problems, and network flow problems such as shortest-path, maximum-flow, activity networks, minimum-cost network flow, and minimum spanning tree. Prerequisite: Consent of Instructor.

INEN-843. Queuing Theory**Credit 3 (3-0)**

This course presents stochastic models and solution techniques for such models. Specific topics include elements of queuing systems, measures of performance, arrival processes, steady state analysis, stationary arrivals, controlling service processes, priority queues, and queuing networks. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-844. Reliability and Maintenance**Credit 3 (3-0)**

This course reviews the statistical concepts and methods underlying procedures used in reliability engineering. Topics include the nature of reliability and maintenance, life failure and repair distributions, life test strategies, and complex system reliability including: series/parallel/standby components with preventive maintenance philosophy. Analytical models are emphasized. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-851. Integrated Manufacturing Control Systems**Credit 3 (3-0)**

This course provides an advanced study of systems used for manufacturing execution and shop floor control. Traditional control and adaptive control algorithms and applications for manufacturing are explored. Integrated control system functions include scheduling, execution planning, supervisory control, human machine interface, process control, quality control, and information acquisition. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-852. Integrated Product and Process Design**Credit 3 (3-0)**

This course provides an integrated approach to the design and manufacture of a new product. Topics include product requirements, concept generation and selection, design, product optimization, tolerances, prototype development, design for manufacturability and assembly, process optimization, and quality function deployment. Prerequisite: Graduate Standing.

INEN-853. Enterprise Integration**Credit 3 (3-0)**

This course is directed toward development and contribution to the advancement of a unified framework for conceptualizing, designing, modeling, and operating advanced integrated manufacturing systems. It builds upon emerging developments in computer and communications

technologies and conceptual breakthroughs regarding the nature and behavior of integrated enterprises. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-854. Inventory and Warehouse Systems **Credit 3 (3-0)**

This course investigates the integration of inventory and warehouse systems. Quantitative models for inventory and warehouse layout/location are developed and solved. Computational tools and equipment in inventory and warehouse systems are reviewed. Application of supply chain and information technology concepts to strategic inventory and warehouse system integration is addressed. Prerequisite: Graduate Standing.

INEN 861. Nano/Micro- and Bio-Manufacturing **Credit 3 (3-0)**

This course addresses the translation of fundamental nano-and biotechnology concepts to practical industrial applications. Topics include the design, prototyping and development of nano/micro- and bio-manufacturing techniques. Supporting infrastructure, measurement tools, characterization devices, and positioning systems needed for nano/micro- and bio-manufacturing are discussed. Current state-of-the-art research areas are discussed. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-885. Advanced Special Topics in Industrial Engineering **Credit 3 (3-0)**

The course will address a current body of knowledge in Industrial Engineering with a research orientation. Term papers and projects will be required. Prerequisites: Graduate Standing and Consent of Instructor.

INEN-991. Doctoral Qualifying Examination **Credit 1 (1-0)**

This course will guide student to take the departmental Qualifying Examination. The examination will be administered towards the end of the semester. Pass/Fail evaluation only, no letter grade will be given. Prerequisite: Doctoral Standing in ISE.

INEN 992. Doctoral Seminar in Industrial Engineering **Credit 1 (1-0)**

The course will present potential dissertation topics and research work-in-progress by faculty members and doctoral students, and talks by eminent practitioners and researchers on classical and contemporary topics in Industrial Engineering. Pass/Fail evaluation only, no letter grade will be given. Prerequisite: Doctoral Standing in ISE.

INEN-993. Doctoral Supervised Teaching in Industrial Engineering **Credit 3 (3-0)**

This course will introduce the student to teaching courses under the guidance of a faculty member. This course will give the student experience in course planning, lecture preparation, classroom teaching, and student evaluation. Pass/Fail evaluation only; no letter grade will be given. Prerequisite: Doctoral Standing in ISE.

INEN-994. Doctoral Supervised **Credit 3 (3-0)**

This is supervised research under the direction of a member of the Graduate Faculty. This research should lead to the identification of a dissertation topic. Pass/Fail evaluation only; no letter grade will be given. Prerequisite: Doctoral Standing in ISE.

INEN-995. Doctoral Preliminary **Credit 3 (3-0)**

This course is for doctoral students who are preparing to take a written examination in their area of specialization. In this course dissertation supervisors will guide their students towards completing the Preliminary Exam. Pass/Fail evaluation only; no letter grade will be given. Prerequisites: Doctoral Standing in ISE and INEN 991.

INEN-997. Dissertation Variable **Credit 1-6**

This course provides the student an opportunity to complete a significant piece of original research, of their choice, in industrial engineering, under the supervision of a faculty advisor. Students are required to complete a dissertation proposal and a final defense in accordance with departmental guidelines. Prerequisites: Doctoral Standing in ISE and INEN 995.

INEN-999. Continuation of Dissertation Variable **Credit 1 (1-1)**

This course will enable doctoral students who have completed all required coursework and all dissertation credits, to complete their dissertation research. Prerequisites: Doctoral Standing in ISE.

DIRECTORY OF FACULTY

- Lauren Davis**, Assistant professor, BS, Computational Mathematics, Rochester Institute of Technology; MSIME, Rensselaer Polytechnic Institute; Ph.D., North Carolina State University
- Salil Desai**, Assistant Professor, BSIE., University of Bombay, MSIE, Ph.D., University of Pittsburgh
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- Silvanus J. Udoka**, Associate Professor, BSIE, MSIE, Ph.D., Oklahoma State University

