Mechanical Engineering and Energy Processes

The mission of the Department of Mechanical Engineering and Energy Processes is to provide high quality engineering education to students and equip them with lifelong learning skills, which allow them to adapt to a changing work environment throughout their careers. Also, the Department of Mechanical Engineering and Energy Processes supports faculty growth and development through research and creative activities because quality teaching and service to humanity and society cannot be achieved without such activities. Finally, the Department of Mechanical Engineering and Energy Processes supports the idea of service to department, college, university, professional societies and community as part of the mission. The undergraduate program in Mechanical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org. The department also offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees.

The Capstone Option for Transfer Students
The SIU Capstone Option is available to students who have earned an Associate in Engineering Sciences (AES) degree with a minimum cumulative 2.0/4.0 GPA on all accredited coursework prior to the completion of the AES, as calculated by SIU. The Capstone Option reduces the University Core Curriculum requirements from 39 to 30 hours, therefore reducing the time to degree completion. Students interested in the Capstone Option should contact the College of Engineering Advisement Office to develop a personal coursework pathway to degree completion.

Bachelor of Science (BS) Degree in Mechanical Engineering

The fundamental goal of the undergraduate program in Mechanical Engineering is to offer a high-quality education for our students, designed to achieve the following Program Educational Objectives (PEOs), which describe what graduates are expected to attain within a few years of graduation:

1. Practice mechanical engineering in a global and societal context
2. Have skills needed for effective written and oral communication, collaboration, and innovation
3. Pursue advanced education or lifelong learning that support careers in a broad range of fields
4. Act in a professional and ethical manner, in their careers and communities

Also, the undergraduate program is designed to achieve the following Student Outcomes (SOs), which describe what students are expected to know and be able to do by the time of graduation:

1. The ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. The ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. The ability to communicate effectively with a range of audiences.
4. The ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. The ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. The ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions.
7. The ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Mechanical engineering is one of the broadest fields of engineering. Mechanical engineers learn measurement and instrumentation, computer-aided design, computer simulation, computer control, combustion and engine analysis. They learn to design thermal systems for mechanical and electrical equipment including heating, ventilating, air conditioning and refrigeration. Students learn how to design and produce new materials for advanced engineering applications. Courses are also offered in subjects related to the chemical processes and environmental control industries. The department offers a program leading to a Bachelor of Science degree in Mechanical Engineering. Students may choose to obtain Bachelor of Science in Mechanical Engineering with a specialization in Energy Engineering. In addition, a Minor in Energy Engineering is offered to non-Mechanical Engineering students provided they meet the requirements. Graduates are highly sought after in a variety of industries such as automotive, aerospace and manufacturing.

### Bachelor of Science Degree in Mechanical Engineering Requirements

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>University Core Curriculum Requirements (should include BIOL 202, ECON 240 and MATH 150)</td>
<td>39</td>
</tr>
<tr>
<td>Requirements for Major in Mechanical Engineering</td>
<td>(9)+87</td>
</tr>
<tr>
<td><strong>Basic Science</strong></td>
<td>(6)+9</td>
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<tr>
<td>CHEM 200, CHEM 201, CHEM 210</td>
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<td>PHYS 205A, PHYS 205B, PHYS 255A, PHYS 255B</td>
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<tr>
<td>Mathematics Analysis</td>
<td>(3)+14</td>
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<td>MATH 150, MATH 250, MATH 251, MATH 305</td>
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<tr>
<td>ENGR 351</td>
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<tr>
<td><strong>Required Engineering Courses</strong></td>
<td>17</td>
</tr>
<tr>
<td>ENGR 222 or ENGR 296 or ME 222</td>
<td>2</td>
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<tr>
<td>ENGR 250, ENGR 261, ENGR 335, ENGR 350A, ENGR 370A</td>
<td>15</td>
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<tr>
<td><strong>Required ME Courses</strong></td>
<td>47</td>
</tr>
<tr>
<td>ME 102, ME 300, ME 302, ME 309, ME 312, ME 336, ME 400, ME 401, ME 407, ME 411, ME 472, ME 475, ME 495A, ME 495B</td>
<td>38</td>
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<tr>
<td>Mechanical Engineering Elective Courses At least 6 hours must be from 400-level ME courses and 3</td>
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</tr>
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<td><strong>Total</strong></td>
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Minor in Energy Engineering for non-Mechanical Engineering Degrees

Requirements

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<td>ME 300, ME 302</td>
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<td>Elective Energy Courses</td>
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<td>Total</td>
<td>15</td>
</tr>
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</table>

1 Prerequisite for ME 302 is ENGR 370. Equivalence for ME 300 and ENGR 370 will be considered.
2 Approved electives: ME 405, ME 406, ME 408, ME 410, ME 435, ME 440, ME 446, ME 493.

Mechanical Engineering and Energy Processes Courses

**ME102 - Computer-Aided Drawing** 102-2 Computer-Aided Engineering Drawing. A broad base of current Computer-Aided Design and Engineering skills necessary for success, efficiency, and productivity in modern industry is covered in the curriculum. Course content includes manual sketching and computer-aided engineering drawing techniques along with orthographic projections, isometric projections, oblique projections, auxiliary views, and sectional views. Geometric properties and spatial relations of engineered components; design of engineering models and their appearance in the standard 2D form as well as in 3D solids; dimensioning and tolerancing as per ISO and ANSI standards; use of solid modeling software for creating relevant models at machine component and system levels; computer labs are equipped with a wide range of CAD packages currently used in the industry. A project must be completed using solid modeling software by the end of the semester.

**ME102H - Computer-Aided Drawing** 102H-2 Computer-Aided Engineering Drawing. A broad base of current Computer Aided Design and Engineering skills necessary for success, efficiency, and productivity in modern industry is covered in the curriculum. Course content includes manual sketching and computer-aided engineering drawing techniques along with orthographic projections, isometric projections, oblique projections, auxiliary views, and sectional views. Geometric properties and spatial relations of engineered components; design of engineering models and their appearance in the standard 2D form as well as in 3D solids; dimensioning and tolerancing as per ISO and ANSI standards; use of solid modeling software for creating relevant models at machine component and system levels; computer labs are equipped with a wide range of CAD packages currently used in the industry. A project must be completed using solid modeling software by the end of the semester.

**ME222 - MATLAB for ME** 222-2 MATLAB Programming for Mechanical Engineers. This course provides fundamental computing principles and MATLAB programming concepts for Mechanical Engineers. Topics covered in MATLAB fundamentals, engineering computing, data import/export, 2D/3D plotting, condition statements/loops, MATLAB scripts/debugging, data fitting, solving differential equations, graphical user interface development environment, and examples of mechanical engineering problems. This course includes a term project in which students learn how to solve various mechanical engineering problems. Prerequisite: MATH 111 or equivalent with a minimum grade of C.

**ME300 - Engineering Thermodynamics I** 300-3 Engineering Thermodynamics I. Study of the basic principles of thermodynamics. Engineering analysis of physical systems based on the first and second laws. Properties of pure substance (ideal gas behavior, non-ideal gas behavior, and equations of states.) Introduction to cycle analysis. Prerequisite: MATH 250, PHYS 205A.
ME302 - Engineering Heat Transfer 302-3 Engineering Heat Transfer. Fundamentals of heat transfer by conduction, convection and radiation. Applications of theory to engineering systems. Prerequisite: ME 300 and MATH 305; ENGR 370A or 370B concurrently.

ME303 - Energy Impacts 303-3 Energy: Uses and Cultural Impacts. Lectures, discussions, and class projects directed at understanding the role of energy, power, and related concepts in cultures in the past, the present, and the future. A review of current energy resources and use patterns and their impact on various cultures, as well as projections for new energy conservation techniques and the development of alternative energy technology and their cultural effects. An overview of worldwide energy needs, seeking to identify future limits on energy use attributable to environmental, economic, political, cultural, and other technological and evolutionary constraints. Prerequisite: Satisfactory completion of three hours of University Core Curriculum science requirements.

ME309 - Mechanical Analysis & Design 309-3 Mechanical Analysis and Design. The course covers kinematics and kinetics of interconnected bodies. Principles of kinematics and force analyses are applied to planar machinery. Vector loop approach is used to model mechanisms and numerical methods are employed in which a set of nonlinear equations are solved iteratively to find their displacement, velocity and acceleration. Limited coverage of design of mechanisms is presented. Prerequisite: ENGR 261; ENGR 222 or 296.


ME392 - ME Co-Op Education 392-1 to 6 Mechanical Engineering Cooperative Education. Supervised work experience in industry, government or professional organization. Students work with on-site supervisor and faculty advisor. Reports are required from the student and the employer. Hours do not count toward degree requirements. Mandatory Pass/Fail. Restricted to sophomore standing.

ME393 - Internship in Mech Engr 393-1 to 12 Internship in Mechanical Engineering. Credit for documented work experience as an intern in an engineering occupation or an engineering-related occupation. Work assignments must have been professional service in the mechanical engineering field. Hours do not count toward degree requirements. Mandatory Pass/Fail. Prerequisite: satisfactory completion of twelve hours of Engineering and/or Mechanical Engineering courses.

ME400 - Engr Thermodynamics II 400-3 Engineering Thermodynamics II. Combined first and second law analysis: Exergy analysis; Analysis of power and refrigeration cycles. Detailed treatment of gas and vapor cycles including gas and steam cycles; Thermodynamics of combustion and reaction of mixtures; Introduction to thermodynamic property relations, chemical and phase equilibrium. Prerequisite: ME 300.

ME401 - Thermal Measurements Lab 401-1 Thermal Measurements Laboratory. Study of basic measurements used in the thermal sciences. Calibration techniques for temperature and pressure sensors. Thermal measurements under transient and steady-state conditions. Applications include conduction, convection and radiation experiments. Uncertainty analysis. The handling and reduction of data. Prerequisite: ME 302.

ME405 - Transportation Power Systems 405-3 Transportation Power Systems. Operation and performance characteristics of Otto, Diesel, Atkinson cycles. Methods of engine testing, types of fuels and their combustion, exhaust gas analysis. Types, selection, and analysis of jet engines. Analysis of fuel cell types, their performance and limitations. Operation of electric motors, capacitors, battery packs and their charging. Prerequisite: concurrent enrollment in or completion of ME 400, with a minimum grade of C or consent of instructor.

ME406 - Thermal Systems Design 406-3 Thermal Systems Design. Applications of the principles of engineering analysis to the design of thermal systems. Coordination of such systems as heat exchangers,
air conditioners, cogeneration cooling towers, and furnaces. Emphasis is placed on application of basic principles of heat transfer and fluid mechanics. Prerequisite: ME 302.


**ME408 - Energy Conversion Systems** 408-3 Energy Conversion Systems. Principles of advanced energy conversion systems; nuclear power plants, combined cycles, magnetohydromagnetics, cogeneration (electricity and process steam), and heat pumps. Constraints on design and use of energy conversion systems; energy resources, environmental effects, and economics. Prerequisite: ME 400.

**ME410 - Appl Chem Thermo & Kinetics** 410-3 Applied Chemical Thermodynamics and Kinetics. Designed for students interested in chemical and environmental processes and materials science. Topics covered include application of the Second and Third Laws of Thermodynamics, solution theory, phase equilibria, sources and uses of thermodynamic data, classical reaction rate theory, kinetic mechanisms and the determination of rate-determining steps in chemical reactions. Prerequisite: CHEM 200, 201, ME 300 or consent of instructor.

**ME411 - Mfng Methods: Engr Matls** 411-3 Manufacturing Methods for Engineering Materials. Overview of manufacturing processes with emphasis on the fabrication of materials from the processing and equipment viewpoint. This course presents a broad study of the many manufacturing processes utilized in the production of a wide variety of products and components. Insight into the multitude of processing factors which influence the practical design of manufactured parts to achieve the advantages of maximum economy, accuracy and automation in everyday production. Prerequisite: ME 312 and ENGR 350A.

**ME415 - Engineering Acoustics** 415-3 Engineering Acoustics. Principles of engineering acoustics and their applications to passive and active noise control techniques. Laboratory experience demonstrates techniques for control and reduction of noise. Prerequisite: ME 336.

**ME416 - Air Pollution Control** 416-3 Air Pollution Control. An overview of problems in air pollution likely to influence the Mechanical Engineer. Engineering control theory, procedure and equipment related to control of particulate, gaseous, and toxic air emissions. Restricted to senior standing and College of Engineering or consent of instructor.


**ME422 - Appl Fluid Mechanics for ME** 422-3 Applied Fluid Mechanics for Mechanical Engineers. Applications of fluid mechanics in internal and external flows. The mathematical basis for inviscid and viscous flows calculations is developed with application to pipe and duct flows; external flow about bodies; drag determination; turbomachinery; and reaction propulsion systems. Semester design project of a fluid mechanical system. Prerequisite: ME 300 and MATH 305; ENGR 370A or 370B concurrently.


**ME440 - Design HVAC & Build Energy Sys** 440-3 Design of HVAC and Building Energy Systems. Building energy design and simulation; HVAC systems, heating and cooling load analysis; Air conditioning processes; Principles of human thermal comfort. Prerequisite: ME 302. Restricted to graduate standing or consent of the instructor.
ME446 - Energy Management 446-3 Energy Management. Fundamentals and various levels of analysis for energy management of commercial buildings and industrial processes and buildings. Use of energy management systems and economic evaluations are required in course projects. Prerequisite: ME 302.


ME451 - Advanced Dynamics 451-3 Advanced Dynamics. Three-dimensional kinematics and dynamics of particles and rigid bodies; Coordinates and reference frames; Rotations of rigid bodies; Euler angles; Newtonian mechanics; Work and energy; Generalized coordinates and degrees of freedom; Analytical mechanics with a focus on Lagrange’s equations; Hamilton's principle for continuous elastic systems. Prerequisites: MATH 305 and ME 309 with a grade of C or better or graduate standing.

ME463 - Introduction to Ceramics 463-3 Introduction to Ceramics. Structure and physical properties, mechanical properties, processing and design of ceramics. Prerequisite: ME 312 or equivalent.

ME465 - Intro to Nanotechnology 465-3 Introduction to Nanotechnology. Survey of the rapidly developing fields of nanometer science and engineering. Impact on society; principles of self-assembly; production and properties of nano-materials; cell mechanism as a model for assemblers; nano-tools; and nano-systems are explored. Prerequisite: CHEM 210.

ME468 - Friction Science & Apps 468-3 Friction Science and Applications. Study of systems and materials used for friction applications with a focus on aerospace and ground transportation vehicles. Course covers theories and experimental methods regarding friction and wear, contact mechanics, friction materials, vibration and noise, thermal transport and thermo-elastic phenomena. The course approach uses a materials emphasis. Prerequisite: ME 312. Restricted to senior standing or consent of instructor.

ME470 - Mech System Vibrations 470-3 Mechanical System Vibrations. Linear vibration of mechanical systems; System modeling; Free and forced response of single degree of freedom systems; Lagrange's equations; Multi-degree of freedom systems; Modal analysis for response calculations; Vibration of continuous systems. Prerequisite: ENGR 261, ENGR 351, MATH 305.

ME472 - Materials Selection for Design 472-3 Materials Selection for Design. Interaction of material design process with material selection criteria. Comparison of materials properties, processes and fabrication. Project work includes design models, materials selection rationale, oral presentation of projects, construction of mock-up models, and theoretical design problems in the area of the student's specialization, including materials selection considerations for biomaterials/biomedical applications. Prerequisite: ENGR 222 and ME 312.


ME477 - Fund Comp Aid Des & Manf 477-3 Fundamentals of Computer-Aided Design and Manufacturing. Introduction to the concepts of computer-aided design and manufacturing (CAD/CAM). Subjects include computer graphics, geometric modeling, engineering analysis with FEM, design optimization, computer numerical controls, project planning, and computer integrated manufacturing (CIM). Students are required to use computer packages for projects. Prerequisite: ME 475 or consent of instructor.

ME478 - FEA in CAD 478-3 Finite Element Analysis in CAD. Course to cover a multitude of topics in CAD/CAE with emphasis on finite element modeling and analysis. Overview of CAD/CAM/CAE; FEA software; FEA problems including trusses, beams, frames, thermal analysis, and fluid mechanics; design optimization; rapid prototyping. Students are required to use FEA software for homework assignments and a design project. Prerequisite: ME 302. Co-requisite: ME 475.
ME480 - Computational Fluid Dynamics 480-3 Computational Fluid Dynamics. Application of computational fluid dynamics techniques to the solution of problems in engineering heat transfer and fluid flow. Discretization techniques; stability analysis. Introduction to grid generation. Prerequisite: ENGR 351, ENGR 370A (or 370B concurrently); ME 302 or consent of instructor.

ME481 - Design/Implement Vision System 481-3 Design and Implementation of Vision System. (Same as BME 481) This course provides an introduction to a vision system and instrumentation with engineering applications including optical microscopy. A vision system is an essential tool in most of the application, and optical microscopy is a powerful scientific tool to study microscale worlds. Topics covered in basic geometrical optics, Optoelectronic devices, basic electronics for illumination system, optical microscopy, actuators in the microscope, fundamentals of fluorescence microscopy, and advanced imaging techniques. Prerequisites: ENGR 296 or ME 222 or consent of instructor.

ME485 - Cell & Molecular Biomechanics 485-3 Cellular and Molecular Biomechanics. (Same as BME 485) Mechanics of living cells at the micron/nanoscale level. Molecular forces, bond dynamics, force-induced protein conformational changes. Structural basis of living cells, contractile forces, mechanics of biomembranes, nucleus, cytoskeletal filaments- actin, microtubule, intermediate filaments. Active and passive rheology, microrheological properties of cytoskeleton. Active cellular processes such as cell adhesion, cell spreading, control of cell shape, and cell migration. Discussion on experimental techniques including single-molecule approaches to understanding key cellular processes. Discussion of theoretical models that predict cellular processes and limitations. Introduction to mechanobiology. Restricted to senior or graduate standing.

ME486 - Nondestructive Eval Engr Matls 486-3 Nondestructive Evaluation of Engineering Materials. (Same as CE 486) Overview of common nondestructive evaluation (NDE) techniques, such as visual inspection, eddy current, X-ray, and ultrasonics, to measure physical characteristics of and to detect defects in engineering materials. Laboratory experiments include contact ultrasonic, magnetic particle, liquid penetrant, and infrared thermography methods of testing. Prerequisite: ME 312 with a grade of C or better.

ME492 - Special Problems in Engr 492-1 to 5 Special Problems in Engineering. Engineering topics and problems selected by either the instructor or the student with the approval of the instructor. Five hours maximum course credit. Not for graduate credit. Restricted to senior standing. Special approval needed from the instructor.

ME493 - Materials in Energy 493-3 Materials in Energy Applications. Materials are central to every energy technology. The course will provide information on high performance materials for alternative energy technologies and developing a fundamental understanding of their structure-property-performance relationships. It will include materials for fuel cells, lithium ion batteries, supercapacitors, photovoltaics, solar energy conversion, thermoelectrics, and hydrogen production and storage, catalysts for fuel conversion. Prerequisite: ME 312.

ME495A - Mechanical Engr Design 495A-3 Mechanical Engineering Design. Project development skills, feasibility and cost-benefit analysis, ethical issues, professionalism, preliminary design, identification of tasks, assignment of tasks to project team members, coordination of interdisciplinary team effort, development of final proposal, oral presentation of final proposal. Not for graduate credit. Prerequisite or concurrent enrollment in: ENGR 351; ME 400; one ME elective. Restricted to senior standing in ME. Lab fee: $70.

ME495B - Mechanical Engr Design 495B-3 Mechanical Engineering Design. Development of the final design, hardware implementation of the final design (if the project warrants), documentation of all stages of design, project coordination, documentation of the testing and evaluating of the design, cost estimating, scheduling, and written, oral, and poster presentation of the final design. Not for graduate credit. Prerequisite: ME 495A (last semester). Lab fee: $70.

Mechanical Engineering and Energy Processes Faculty
Abrate, Serge, Professor, Ph.D., Purdue University, 1983.
Agrawal, Om P., Professor, Emeritus, Ph.D., University of Illinois at Chicago, 1984.
Chen, Juh W., Professor, Emeritus, Ph.D., University of Illinois, 1959.
Chowdhury, Farhan, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2011.
Chu, Tsuchin, Professor, Ph.D., University of South Carolina, 1982.
Don, Jarlen, Professor, Emeritus, Ph.D., Ohio State University, 1982.
Esmaeeli, Asghar, Professor, Ph.D., The University of Michigan, 1995.
Farhang, Kambiz, Professor, Ph.D., Purdue University, 1989.
Filip, Peter, Professor, Ph.D., Technical University, Ostrava, 1989.
Kent, Albert C., Professor, Emeritus, Ph.D., Kansas State University, 1968.
Koc, Rasit, Professor and Chair, Ph.D., University of Missouri-Rolla, 1989.
Mathias, James A., Associate Professor, Ph.D., Ohio State University, 2001.
Mondal, Kanchan, Professor, Ph.D., Southern Illinois University, 2001.
Nilufar, Sabrina, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2014
Nsofor, Emmanuel C., Professor, Ph.D., Mississippi State University, 1993.
O’Brien, William S., Associate Professor, Emeritus, Ph.D., West Virginia University, 1972.
Orthwein, William, Professor, Emeritus, Ph.D., University of Michigan, 1959.
Suni, Ivar Ian, Professor, Ph.D., Harvard, 1992.
Tempelmeyer, Kenneth E., Professor, Emeritus, Ph.D., University of Tennessee, 1969.
Wittmer, Dale E., Professor, Emeritus, Ph.D., University of Illinois, 1980.
Wright, Maurice, Professor, Emeritus, Ph.D., University of Wales, 1962.

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Catalog Year Statement:
Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.