

## Mechanical Engineering | Fall 2012-13

## **Mechanical Engineering**

- Engr 515: Acoustics
- Engr 546: Micro/Nanoscale Fabrication
- Engr 551: Engineering Thermodynamics
- Engr 553: Heat Transfer
- Engr 554: Computational Heat Transfer
- Engr 558: Vibration Analysis
- Engr 559: Elements of Robotics
- Engr 585: Mechanics of Composite Materials I
- Engr 590: Finite Element Analysis I
- Engr 601: Compressible Flow
- Engr 603: Fluid Mechanics I
- Engr 604: Fluid Dynamics II
- Engr 605: Convective Heat and Mass Transfer
- Engr 606: Numerical Heat Transfer and Fluid Flow
- Engr 607: Statistical Thermodynamics
- Engr 608: Physical Gas Dynamics
- Engr 611: Aeroacoustics
- Engr 612: Aeroelasticity
- Engr 613: Exp Method in Aerodynamics/Aeroacoustics
- Engr 625: Adv. Topics in Computational Mechanics
- Engr 642: X-Ray Diffraction Analysis
- Engr 671: Elasticity
- Engr 672: Viscoelasticity
- Engr 673: Plasticity
- Engr 674: Fracture Mechanics
- Engr 679: Wave Propagation
- Engr 680: Advanced Acoustics
- Engr 683: Advanced Physical Metallurgy
- Engr 684: Advanced Mechanical Metallurgy
- Engr 685: Mechanics of Composite Materials II
- Engr 689: Control of Robotics Manipulators
- Engr 690: Finite Element Analysis II
- Engr 702: Finite Element Analysis of Fluid Flows
- Engr 711: Turbulence
- Engr 712: Statistical Theory Turbulent Diffusion
- Engr 713: Hydrodynamic Stability
- Engr 714: Coastal Hydrodynamics
- Engr 715: Applied Hydro- and Aeromechanics I
- Engr 716: Applied Hydro- and Aeromechanics II
- Engr 717: Special Topics in Thermal Science
- Engr 720: Advanced Turbulence
- ME 101: Introduction to Mechanical Engineering
- M E 201: Engineering Graphics Fundamentals
- M E 324: Introduction to Mechanical Design
- M E 405: Modern Energy Conversion
- M E 406: Alternative Energy Systems
- M E 416: Structures and Dynamics Laboratory
- M E 417: Projects
- M E 418: Projects
- M E 419: Energy and Fluids Laboratory
- M E 420: Experimental Mechanical Engineering II
- M E 421: Structural Analysis
- M E 422: Structural Design I
- M E 426: Kinematics: Analysis and Synthesis
- M E 427: Kinematic Analysis and Synthesis
- M E 428: Dynamics of Machinery
- M E 438: Mechanical Engineering Design
- M E 521: Projects

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.





- M E 522: Projects
- M E 523: Special Topics in Mechanical Engineering
- M E 524: Special Topics in Mechanical Engineering
- <u>M E 525: Advanced Dynamics</u>
- M E 526: Experimental Methods
- M E 527: Materials Processing
- M E 528: Polymer Processing
- M E 529: Aerodynamics
- M E 530: Physical Metallurgy
- M E 531: Mechanical Behavior of Engr Materials
- M E 532: Glass and Ceramics
- M E 533: Electronic Properties of Materials
- M E 534: Properties and Selection of Materials
- M E 535: Experimental Stress Analysis
- M E 537: Mechatronic Systems Engineering
- M E 538: Exprl Character of Polymer Composites
- M E 540: Failure Analysis
- M E 541: Theory and Use of CAD and Solid Modeling
- M E 543: Linear Systems and Controls
- M E 555: Heating Ventilation and Air-Conditioning
- Manf 150: Intro to Engineering / Manufacturing
- Manf 250: Graphics / Solid Modeling
- Manf 251: Manufacturing Processes
- Manf 252: Product Realization Laboratory
- Manf 253: Strategic Planning
- Manf 254: The Art and Science of Manufacturing
- Manf 255: Lean I: Standardized Work & Takt Time
- Manf 350: Manufacturing Process Definition
- Manf 351: Manufacturing Product/Process Design
- Manf 355: Lean II: Continuous Flow/Layout
- Manf 450: Manf Design I Prod Devel and Eval
- Manf 451: Manf Design II Product Realization
- Manf 452: Manf Design-Product Realization, II
- Manf 455: Lean III: Practical Problem Solving

