

Wichita State University College of Engineering
 Computer-Aided Engineering

Updated April 2019

729

Computer- Aided Analysis of Mech Sys

749

Applications of Finite Element Methods in ME

469

Energy Conversion

502

Thermal Design Electives (3 credits)
 Thermodynamics 2

Mechanical Design Electives (3 credits)

Mechanical Electives (3 credits)

ME 541	Mechanical Engineering Design 2
ME 581	Intro of Corrosion
ME 602	Engineering for the Environment
ME 637	Computer – Aided Engineering
ME 644	Design of HVAC Systems
ME 650V	Conduction of Heat Transfer
ME 650W	Intro to Micro-electro-mech Sysytems
ME 651	Biomaterials
ME 660	Polymer Material and Engineering
ME 664	Introduction to Fatigue and Fracture
ME 665	Selection Mats Design/ Manufacturing
ME 667	Mech Props of Materials
ME 670	Intro to Nano Tech
ME 672	Manufacturing of Composites
ME 673	Recovery of Engineering Materials
ME 680	Laser Applications in Manufacturing
ME 702	Energy and Sustainability
ME 709	Injury Biomechanics
ME 719	Basic Combustion Theory

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ME 719	Basic Combustion Theory
ME 725	Mechanical Vibrations and Acoustics
ME 728	Advanced Electronic Materials
ME 729	Computer – Aided Analysis of Mech Sys
ME 730	Appl Finite Element Methods
ME 731	Advanced Design of Heat Exchangers
ME 737	Robotics and Control
ME 739	Advanced Machine Design
ME 745	Design of Thermal Systems
ME 747	Microcomputer Based Mechanical Systems
ME 749	Applications of Finite Element Methods in ME
ME 750K	Six Sigma Engineering
ME 752	Failure Analysis Methods and Tools
ME 753	Advanced Materials for Energy Systems
ME 755	Intermediate Thermodynamics
ME 758	Non Linear Ctrl Electro- Mech Systems
ME 759	Neural Networks for Control
ME 760	Fracture Mechanics
ME 762	Polymeric Composite Materials
ME 764	Thermodynamics of Solids
ME 766	SEM and EDAX
ME 767	X-Ray Diffraction
ME 769	Impact Dynamics
ME 782	Engineering Appl of Computational Fluid Dynamics and Heat Transfer
BIOL 418	General Ecology
CHEM 514	Inorganic Chemistry

Open Electives - Continued

AE 508	Systems Dynamics
AE 525	Flight Structures I
AE 527	Numerical Methods in Engineering
AE 716	Compressible Fluid Flow
AE 719	Computational Fluid Dynamics
AE 722	Finite Element Analys of Structures I
AE 731	Theory of Elasticity
AE 733	Advanced Mechanics of Materials
AE 737	Mechanics of Damage Tolerance
AE 753	Mech Laminated Composites
AE 773	Intermediate Dynamics
AE 777	Vibration Analysis
EE 383	Signals and Systems
EE 463	Appl Engr Electromagnetics
EE 488	Electric Machines/Transformers
EE 492	Electron Circuits I
EE 493	Electron Circuits II
EE 588	Advanced Electric Motors
EE 598	Electric Power Systems Analysis
EE 784	Digital Controls Systems
IME 524	Engr Probability/ Statistics I
IME 556	Information Systems
IME 557	Safety Engineering
IME 558	Manuf Methods/ Materials 2
IME 658	Forming Process
IME 664	Engineering Management
IME 676	Aircraft Manufacturing & Assembly
IME 724	Statistical Methods for Engineers
IME 754	Reliability/ Maintainability
IME 755	Design of Experiments
IME 768	Metal Machining: Theory & Applications
IME 775	Computer Integrated Manufacturing
IME 778	Computer Integrated Manufacturing
BME 335	Biomedical Computer Apps
BME 452	Biomechanics
BME 462	Intro to Bio fluids
BME 477	Introduction to Biomaterials
BME 480	Bioinstrumentation
BME 482	Design of Bio devices
BME 779	Tissue Engineering