#### Wichita State University - College of Engineering Updated April 2019

Thermal Electives (3 credits)	
ME 469	Energy Conversion
ME 502	Thermodynamics 2
ME 702	Energy and Sustainability
ME 719	Basic Combustion Theory

Thermal Design Electives (3 credits)	
ME 644	Design of HVAC Systems
ME 731	Advanced Design of Heat Exchangers
ME 745	Design of Thermal Systems

Mechanical Design Electives (3 credits	
ME 541	Mechanical Engineering Design 2
ME 637	Computer – Aided Engineering
ME 729	Computer- Aided Analysis of Mech Systs
ME 749	Applications of Finite Element Methods in ME

Mechanical Electives	(3 credits)
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ME 469	Energy Conversion
ME 502	Thermodynamics 2
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

Mechanical Electives - Continued

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ME 725	Mechanical Vibrations and Acoustics
ME 728	Advanced Electronic Materials
ME 729	Computer – Aided Analysis of Mech Systs
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

Open Electives (3 credits)	
ME 469	Energy Conversion
ME 502	Thermodynamics 2
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Open Electives - Continued

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ME 759	Neural Networks for Control
ME 760	Fracture Mechanics
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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
CHEM 523	Analytical Chemistry
CHEM 524	Instrumental Methods of Chemical Analys
CHEM 531	rganic Chemistry I
CHEM 532	Organic Chemistry II
CHEM 545	Physical Chemistry I
CHEM 603	Industrial & Polymer Chemistry
CHEM 661	Introductory Biochemistry
PHYS 551	Topics in Modern Physics
PHYS 621	Analytical Mechanics
PHYS 623	Advanced Mechanics
PHYS 641	Thermo physics
PHYS 651	Quantum Mechanics I
PHYS 661	Introduction to Atomic Physics
PHYS 681	Solid State Physics
AE 415	Intro to Space Dynamics
AE 424	Aerodynamics I
AE 502	Aerospace Propulsion I

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 733       Advanced Mechanics of Materials         AE 733       Advanced Mechanics of Materials         AE 733       Mechanics of Damage Tolerance         AE 733       Mech Laminated Composites         AE 773       Intermediate Dynamics         AE 773       Intermediate Dynamics         AE 773       Intermediate Dynamics         AE 777       Vibration Analysis         EE 483       Signals and Systems         EE 483       Electric Machines/Transformers         EE 483       Electron Circuits I         EE 588       Electric Power Systems Analysis         EE 588       Electric Power Systems Analysis         EE 588       Electric Probability/ Statistics I         IME 555       Safety Engineering         IME 556       Information Systems         IME 558       Manuf Methods/ for Engineers         IME 555       Design of Experiments         IME 768       Afertal Machining:	Open Electives - Continued	
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 733       Advanced Mechanics of Materials         AE 733       Advanced Mechanics of Materials         AE 733       Mech Laminated Composites         AE 773       Intermediate Dynamics         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 488       Electric Notors         EE 598       Electric Power Systems Analysis         EE 784       Digital Controls Systems         IME 556       Information Systems         IME 558       Manuf Methods/ Materials 2         IME 656       Forming Process         IME 656       Forming Process         IME 656       Forming Process         IME 656       Methods/ Materials 2         IME 656       Methods for Engineers         IME 656       Aicraft Manufacturing & Assembly <tr< th=""><th>AE 508</th><th>Systems Dynamics</th></tr<>	AE 508	Systems Dynamics
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 733       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 463       Electric Machines/Transformers         EE 492       Electron Circuits I         EE 588       Electric Power Systems Analysis         EE 598       Electric Power Systems Analysis         EE 598       Electric Power Systems         IME 552       Engr Probability/ Statistics I         IME 554       Engr Probability/ Statistics I         IME 555       Manuf Methods/ Materials 2         IME 658       Forming Process         IME 658       Forming Process         IME 658       Forming Process         IME 755       Design of Experiments         IME 754       Reliability/ Maintainability         IME 755       Design of Experiments	AE 525	Flight Structures I
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 773       Intermediate Dynamics         AE 773       Intermediate Dynamics         AE 777       Intermediate Dynamics         AE 777       Intermediate Dynamics         AE 777       Intermediate Dynamics         AE 777       Vibration Analysis         EE 483       Signals and Systems         EE 463       Appl Engr Electromagnetics         EE 492       Electron Circuits I         EE 493       Electron Circuits I         EE 493       Electron Circuits I         EE 588       Advanced Electric Motors         EE 598       Electric Power Systems Analysis         EE 784       Digital Controls Systems         IME 556       Information Systems         IME 557       Safety Engineering         IME 558       Manuf Methods/ Materials 2         IME 658       Forming Process         IME 658       Forming Process         IME 656       Aircraft Manufacturing & Assembly         IME 775 </th <th>AE 527</th> <th></th>	AE 527	
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