

MAE 2022-2023 Teaching Plan (Revised Oct 2022). Subject to change.

| Course | Course Name | Summer 2022 | Fall 2022 | Winter 2023 | Spring 2023 |
|----------|--|--------------------|-----------|-------------|-------------------|
| ENGR 290 | Developing Teaching Excellence | | | | |
| MAE 10 | Introduction to Engineering Computations | mfardadi | nbuswell | avoloshi | |
| MAE 52 | Computer-Aided Design | norooziz | ddimas | | ddimas |
| MAE 60 | Electric Circuits | | dcopp | mgameroc | |
| MAE 80 | Dynamics | mfardadi | fjabbari | solmaz | dcopp |
| MAE 91 | Introduction to Thermodynamics | norooziz | lkulinsk | | sungwoon,jaeholee |
| MAE 106 | Mechanical Systems Laboratory | | | dcopp | jperezib |
| MAE 107 | Fluid Thermal Science Laboratory | | yunw | | STAFF |
| MAE 108 | Aerospace Laboratory | | huynhlj | | STAFF |
| MAE 110 | Combustion and Fuel Cell Systems | | vgmcdone | | |
| MAE 112 | Propulsion | | sirignan | | |
| MAE 113 | Electric Propulsion | | | | mgameroc |
| MAE 114 | Fuel Cell Fundamentals and Technology | | | jbrouwer | |
| MAE 115 | Applied Engineering Thermodynamics | robertjf, Imastrop | jbrouwer | | |
| MAE 120 | Heat and Mass Transfer | lkulinsk | won | | bpadak |
| MAE 130A | Introduction to Fluid Mechanics | dmoratac | dpapamos | rhrangel | dpapamos |
| MAE 130B | Introduction to Viscous and Compressible Flows | norooziz | | xianshi | pjohnso3 |
| MAE 135 | Compressible Flow | | | | fliu |
| MAE 136 | Aerodynamics | | rliebeck | | |
| MAE 145 | Theory of Machines and Mechanisms | | | | lkulinsk |
| MAE 146 | Astronautics | | | fariaei | |
| MAE 147 | Vibrations | | | ashkel | avoloshi |
| MAE 150 | Mechanics of Structures | shantd | nbuswell | | raminb |
| MAE 150L | Mechanics of Structures Laboratory | shantd | nbuswell | | raminb |
| MAE 151 | Mechanical Engineering Design | | walterm | walterm | |
| MAE 152 | Introduction to Computer-Aided Engineering. | | | ddimas | |
| MAE 155 | Composite Materials and Structures | | | | walterm |
| MAE 156 | Mechanical Behavior and Design Principles | saeidin | | caoph | |
| MAE 157 | Lightweight Structures | | | jrimoli | |
| MAE 158 | Aircraft Performance | | | huynhlj | |
| MAE 159 | Aircraft Design | | | | rliebeck |
| MAE 170 | Introduction to Control Systems | mfardadi | tryphon | fariaei | |
| MAE 172 | Design of Computer-Controlled Robots | | | efrainmf | |
| MAE 175 | Dynamics and Control of Aerospace Vehicles | | | hetaha | |

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|----------|--|--|----------|----------|----------|
| MAE 183 | Computer-Aided Mechanism Design | | | | jmmccart |
| MAE 189 | Senior Project - Special Topics | | walterm | walterm | walterm |
| MAE 189 | Senior Capstone Pilot | | dcopp | dcopp | dcopp |
| MAE 195 | Senior Projects Check-ins | | dcopp | dcopp | dcopp |
| MAE 195 | Turbomachinery | | | fliu | |
| MAE 195 | Intoduction to Robotics | | | | solmaz |
| MAE 195 | Failure/Fracture | | | | caoph |
| MAE 195 | Senior Design Project Check-in | | walterm | walterm | walterm |
| MAE 195 | Robotics at the Small Scale | | cvelezcu | | |
| MAE 200A | Engineering Analysis I | | tryphon | | |
| MAE 200B | Engineering Analysis II | | | sirignan | |
| MAE 206 | Nonlinear Optimization Methods | | | asideris | |
| MAE 210 | Advanced Fundamentals of Combustion | | | bpadak | |
| MAE 213 | Electric Propulsion | | | | mgameroc |
| MAE 214A | Fuel Cell Fundamentals and Technology | | | jbrouwer | |
| MAE 216 | Statistical Thermodynamics | | | | xianshi |
| MAE 217 | Generalized Thermodynamics | | mgameroc | | |
| MAE 220 | Conduction Heat Transfer | | | jaeholee | |
| MAE 221 | Convective Heat and Mass Transfer | | | | won |
| MAE 224 | Advanced Transport Phenomena | | | yunw | |
| MAE 228 | Nanoscale Phase Change Transport Physics | | | won | |
| MAE 230A | Inviscid Incompressible Fluid Mechanics I | | selghoba | | |
| MAE 230B | Viscous Incompressible Fluid Mechanics II | | | pjohnso3 | |
| MAE 230C | Compressible Fluid Dynamics | | | | dpapamos |
| MAE 230D | Theoretical Foundations of Fluid Mechanics | | | | sirignan |
| MAE 231 | Fundamentals of Turbulence | | | | pjohnso3 |
| MAE 241 | Dynamics | | hetaha | | |
| MAE 242 | Robotics | | | jmmccart | |
| MAE 245 | Spatial Mechanism Design | | jmmccart | | |
| MAE 247 | Micro-System Design | | | | cvelezcu |
| MAE 249 | Micro-Sensors and Actuators | | ashkel | | |
| MAE 250 | Biorobotics | | | dreinken | |
| MAE 254 | Mechanics of Solids and Structures | | sungwoon | | |
| MAE 255 | Composite Materials and Structures | | | | walterm |
| MAE 257 | Failure and Fracture | | | | caoph |

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|----------|--|--|----------|----------|----------|
| MAE 258 | Mechanical Behavior of Solids - Continuum Theories | | | raminb | |
| MAE 259 | Mechanical Behavior of Solids - Atomistic Theories | | caoph | | |
| MAE 260 | Current Issues Related to Air Quality, Climate, and Energy | | | | jbrouwer |
| MAE 263 | Aircraft Systems and the Environment | | | | huynhlj |
| MAE 270A | Linear Systems I | | solmaz | | |
| MAE 270B | Linear Systems II | | | fjabbari | |
| MAE 276 | Geometric Nonlinear Control | | | | hetaha |
| MAE 277 | Learning Control Systems | | | | asideris |
| MAE 278 | Parameter and State Estimation | | | tryphon | |
| MAE 279 | Special Topics in Mechanical Systems | | npatarin | jmmccart | jmmccart |
| MAE 280 | Design of Computer-Controlled Robots | | | efrainmf | |
| MAE 286 | Design for Human Movement | | avoloshi | | |
| MAE 295 | Chemical Kinetics and Simulation | | bpadak | | |
| MAE 295 | Engineering Design Under Uncertainty | | | raminb | |
| MAE 295 | Robotics at the Small Scale | | cvelezcu | | |
| MAE 295 | Turbomachinery | | | fliu | |
| MAE 295 | Current Topics in CFD | | fliu | | |
| MAE 295 | Nanoscale Fabrication and Characterization | | | sungwoon | |
| MAE 298 | Seminars in Mechanical and Aerospace Engineering | | avoloshi | huynhlj | avoloshi |

Cell: C15

Comment: Added according to submitted Summer 2022 Schedule from Nov 2021
-Adrian Valones
zheydarz dropped, robertjf, Imastrop to co-teach
-Adrian Valones

Cell: C17

Comment: Added according to submitted Summer 2022 Schedule from Nov 2021
-Adrian Valones