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Announcements

• Students who requested S/U grading due to Covid
  – For courses that require a C or better, it is strongly recommended that you repeat the course and earn at least a C
  – For all courses you must earn at least an S

• No exceptions policy
  – Waivers will not be given for pre-requisites or co-requisites
Announcements (1 of 2)

• Repeat Policy
  – A course may only be taken a maximum of 3 times
    • C or better courses: you have 3 tries to get a C
    • Other courses: you have 3 tries to get a D-
  – The third time you take a course
    • You need permission to enroll in a course a 3rd time
    • You must go to the college of engineering advisors and sign a form stating you know that it is your final chance to enroll in the course
    • If you do not earn the required grade on the 3rd try you will not be given permission to enroll in the course again and you will not have the necessary requirements to get a degree in ME
Announcements (2 of 2)

• New minor in Aerospace starting Fall 2021!

Program Requirements (22 units)
The Aerospace minor is available to all majors and consists of a total of 22 units. A maximum of 13 units may count towards this minor and another degree.

A. Numerical Methods (3 units)
EE 291 Numerical & Computational Methods for Electrical Engineering OR ME 303 Applied Numerical Methods

B. Design (4 units)
ME 310 System Analysis and Design

C. Fluid Dynamics (3 units)
ENGR 360 Introduction to Fluid Mechanics OR ME 380 Fluid Dynamics for Mechanical Engineers

D. Controls (3 units)
EE 370 Control Systems OR ME 410 Introduction to System Control

E. Flight (9 units)
ME 480 Gas Dynamics
ME 482 Aerodynamics
ME 458 Flight Stability and Control
Advising Tools

- Academic Requirements in MyNevada
- Flow charts
Summer Courses

• Required
  – ENGR 241
  – ME 242
  – ME 310
  – ME 311
  – ENGR 301

• Electives
  – ME 354 - Introduction to Manufacturing Processes
  – ME 496 - Mechanical Engineering Internship Projects
Requirements for ENGR 301 & Capstone

- **ENGR 301**
  - Pre-req: ENG 102, PHYS 181 with a “C” or better
  - Pre-req: CH 201 or CH 202 and CH 203

- **ME 451**
  - Pre-req: ME 310, ME 314, ME 351, ME 322
  - Co-req: ENGR 301

- **ME 452**
  - Pre-req: ENGR 100, ENGR 301, ME 451
Restricted Electives

• Fall
  – ME 414/414L: Intermediate Heat Transfer
  – ME 431/431L: Advanced Mechanics
  – ME 444/444L: Intermediate Dynamics

• Spring
  – ME 432/432L Materials
  – ME 453/453L: Vibrations
  – ME 467/467L: Intermediate Fluids
General Electives - Fall 2021

- ME 354 Intro to Manufacturing Processes
- ME 446 Composite Materials (may be cancelled)
- ME 475 Introduction to Combustion (may be cancelled)
- ME 482 Aerodynamics
- ME 496 - Mechanical Engineering Internship Projects
- ME 493 Special Topics – Linear Theory of Elasticity
  - Prerequisites: CEE 372, MATH 285,
  - Recommended: MATH 330
  - Introduction to the linearized theory of elasticity. Governing differential equations and boundary conditions, strain and stress, constitutive relations, plane and other symmetric problems, waves.
General Electives - Spring 2022 (Tentative)

- ME 312 Thermodynamics II
- ME 422 Introduction to Robotics
- ME 456 Introduction to Tribology
- ME 463 Nonlinear Dynamics and Chaos
- ME 476 Internal Combustion Engines
- ME 480 Gas Dynamics
- ME 493 Special Topics – Manufacturing
- ME 493 Special Topics – Aerospace
- ME 496 - Mechanical Engineering Internship Projects
Elective Restrictions/Substitutions

• ME 493: Special Topics
  – Only 6 credits is allowed for your degree

• Maximum of 3 credits towards your degree
  – ME 499: Independent Study
  – ME 496: Mechanical Engineering Internship Projects
  – ME 493 - Design Process
  – Courses outside of the ME department
    • If you would like to use an upper division course that does not have an ME prefix but is related you must get advisor approval.
Math/Science Electives

- ATMS 411 Introduction to Atmospheric Physics
- ATMS 412 Introduction to Air Pollution
- ATMS 413 Introduction to Synoptic Meteorology
- ATMS 414 Physical Climatology
- BME 401 Introduction to Biomedical Engineering
- MSE 401 Corrosion of Metals
- MSE 433 Electronic, Magnetic and Optical Properties of Materials
- MSE 460 Physical Metallurgy I
- MSE 461 Physical Metallurgy II
- MSE 470 Polymeric and Composite Materials
- MSE 472 Introduction to Ceramics
- PHYS 182 Physics for Scientists and Engineers III
- PHYS 351 Classical Mechanics
- PHYS 422R Applications of Quantum Mechanics
- PHYS 425 Thermal and Statistical Physics
- PHYS 426 Physics of Solids
- PHYS 473 Electricity and Magnetism
- MATH 307 Symbolic Logic
- MATH 310 Introduction to Analysis I
- MATH 311 Introduction to Analysis II
- MATH 330 Linear Algebra I
- MATH 331 Groups, Rings and Fields
- MATH/STAT 352 Probability and Statistics
- MATH 373 Theory of Positive Integers
- MATH 381 Methods of Discrete Mathematics
- MATH 401 Set Theory
- MATH 410 Complex Analysis
- MATH 411 Real Analysis
- MATH 412 Functional Analysis
- MATH 420 Mathematical Modeling
- MATH 422 Optimal Analysis
- MATH 430 Linear Algebra II
- MATH 440 Topology
- MATH 441 Intro Algebra Topology
- MATH 442 Differential Geometry
- MATH 443 Differential Geometry and Relativity I
- MATH 461 Probability Theory
- MATH 488 Partial Differential Equations
FE Requirement

• Enroll in ENGR 490 the same semester you plan to take the FE
  – There are no meetings for ENGR 490

• Register and pay to take the FE

• If you do not take the FE the same semester you are enrolled in ENGR 490
  – You will get an incomplete
  – Send your scores to Sam DiMuzio
Applying for Graduation

- Apply for graduation in MyNevada
- May Graduation Deadline: March 1
- August Graduation Deadline: June 1
- December Graduation Deadline: October 1
Graduate School

- Accelerated BS/MS program
- Accelerated BS/MBA program
- MS and PhD degrees
Questions