Department of Mechanical Engineering
General Advising for Juniors and Seniors

Spring 2017
Dr. Padilla

www.unr.edu/engineering/student-resources/advising
Overview

- Announcements
- Requirements for ENGR 301, ME 451, ME 452
- Restricted Electives
- General Electives
- Math Science Electives
- ENGR 490 - FE
- How to apply for graduation
- Accelerated BS/MS and BS/MBA
- Faculty Advisors
- Questions
Announcements

• New Faculty Advising Appointment Scheduling System in Fall 2017

• https://wolfpack.campus.eab.com/home/#

• ME 303 will be a Pre-requisite for ME 310 starting Fall 2017

• No exceptions policy
  – Waivers will not be given for pre-requisites or co-requisites
Requirements for ENGR 301
Effective Fall 2016

• Pre-req’s
  – ENG 102, PHYS 181 with a “C” or better
  – CH 201 or CH 202
  – CH 203
Requirements for Capstone

- ME 451
  - Prereq: ME 310
  - Coreq: ME 314, ME 351, ENGR 301

- ME 452
  - Prereq: ENGR 100, ENGR 301, ME 451
  - Coreq: ME 322
Restricted Electives

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

• Spring
  – ME 312/312L: Thermodynamics II
  – ME 453/453L: Vibrations
  – ME 467/467L: Intermediate Fluids
General Electives

Fall 2017
• ME 350 Computer Aided Design and Manufacturing
• ME 354 Intro to Manufacturing Processes
• ME 475 Combustion
• ME 482 Aerodynamics
• ME 493 Special Topics: Biofluids

Spring 2018 (planned)
• ME 350 Computer Aided Design and Manufacturing
• ME 432 Materials
• ME 456 Introduction to Tribology
• ME 457 Finite Element Analysis
• ME 493 Special Topics – TBD
Elective Restrictions/Substitutions

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

• ME 499: Independent Study
  – You may only use 3 credits towards your degree

• 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.
  – Approval will not be granted if you are already using ME 499 credit towards your degree.
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
### Faculty Advisors

**ALL JUNIORS & SENIORS (60+ CREDITS):**

<table>
<thead>
<tr>
<th>Last Name</th>
<th>Faculty Advisor</th>
<th>Office</th>
<th>Email</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>Dr. Menezes</td>
<td>KRC 143</td>
<td><a href="mailto:pmenezes@unr.edu">pmenezes@unr.edu</a></td>
</tr>
<tr>
<td>B</td>
<td>Dr. Fan</td>
<td>KRC 100A</td>
<td><a href="mailto:ffan@unr.edu">ffan@unr.edu</a></td>
</tr>
<tr>
<td>C</td>
<td>Dr. Liao</td>
<td>KRC 126</td>
<td><a href="mailto:yliao@unr.edu">yliao@unr.edu</a></td>
</tr>
<tr>
<td>D – F</td>
<td>Dr. Cao</td>
<td>KRC 103B</td>
<td><a href="mailto:leiccao@unr.edu">leiccao@unr.edu</a></td>
</tr>
<tr>
<td>G – H</td>
<td>Dr. Evrensel</td>
<td>KRC 115</td>
<td><a href="mailto:cahit@unr.edu">cahit@unr.edu</a></td>
</tr>
<tr>
<td>I – J</td>
<td>Dr. Masoud</td>
<td>KRC 125</td>
<td><a href="mailto:hmasoud@unr.edu">hmasoud@unr.edu</a></td>
</tr>
<tr>
<td>K – L</td>
<td>Dr. Jiang</td>
<td>ARF 104</td>
<td><a href="mailto:yjiang@unr.edu">yjiang@unr.edu</a></td>
</tr>
<tr>
<td>M</td>
<td>Mr. Maus</td>
<td>KRC 103C</td>
<td><a href="mailto:nmaus@unr.edu">nmaus@unr.edu</a></td>
</tr>
<tr>
<td>N – O</td>
<td>Dr. Ramachandran</td>
<td>KRC 103A</td>
<td><a href="mailto:rramachandran@unr.edu">rramachandran@unr.edu</a></td>
</tr>
<tr>
<td>P – Q</td>
<td>Dr. Aureli</td>
<td>KRC 128</td>
<td><a href="mailto:maureli@unr.edu">maureli@unr.edu</a></td>
</tr>
<tr>
<td>R</td>
<td>Dr. Y. Wang</td>
<td>KRC 100E</td>
<td><a href="mailto:yanwang@unr.edu">yanwang@unr.edu</a></td>
</tr>
<tr>
<td>S</td>
<td>Dr. Shan</td>
<td>KRC 123</td>
<td><a href="mailto:wshan@unr.edu">wshan@unr.edu</a></td>
</tr>
<tr>
<td>T</td>
<td>Dr. Tung</td>
<td>KRC 120</td>
<td><a href="mailto:rtung@unr.edu">rtung@unr.edu</a></td>
</tr>
<tr>
<td>U – W</td>
<td>Dr. Wang</td>
<td>KRC 109</td>
<td><a href="mailto:eric.wang@unr.edu">eric.wang@unr.edu</a></td>
</tr>
<tr>
<td>X – Z</td>
<td>Dr. Yliniemi</td>
<td>KRC 111</td>
<td><a href="mailto:logan@unr.edu">logan@unr.edu</a></td>
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<td>National Merit/</td>
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*See Dr. Padilla if you cannot contact your assigned advisor*
Questions