**MECHANICAL ENGINEERING & ME w/ NUCLEAR ENGG OPTION (125 Hours)**

Approved Spring 2022

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**FRESHMAN**

- H & SS *a* (3)
  - ECON 110 (3) Macro Econ

- MATH 220 (4) AG & Calc 1
  - PHYS 213 (5) Engg Phys 1

- PHYS 214 (5) Engg Phys 2
  - ME 212 (2) Engg Graph

- CHEM 210 (4) Chem 1
  - COMM 105 (2) Pub Spkg. 1A

- ENGL 100 (3) Exp Writ 1
  - CHEM 354 (1) Basic Materials

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**SOPHOMORE**

- MATH 221 (4) AG & Calc 2
  - MATH 222 (4) AG & Calc 3
  - MATH 340 (4) Diff Eq

- PHYS 215 (5) Engg Phys 1
  - PHYS 216 (5) Engg Phys 2

- CE 333 (3) Statics
  - ME 513 (3) Thermo 1

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**JUNIOR**

- MATH 551 (3) Applied Mtx Thry
  - ME 400 (3) Comp. Appl. in ME
  - NE 512 (3) Princ of Rad. Det

- ME 571 (3) Fluid Mech
  - ME 570 (4) Cont Mech Sys I

- ECE 519 (4) Circuits for MNE
  - MATH 221 (4) AG & Calc 1

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**SENIOR**

- H & SS *a* (3)
  - IMSE 250 (2) Intro to Manf Proc.

- MATH 220 (4) AG & Calc 1
  - MATH 551 (3) Applied Mtx Thry

- ME 573 (3) Heat Transfer
  - PHYS 213 (5) Engg Phys 1

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**Courses Notes:**

* - A total of 9 credits of humanities and social science electives are required. These are to be selected from the College of Engineering Humanities and Social Science Electives Course List. Three of these credits can come from 300-level or above AERO or MSCI courses for students who successfully complete the ROTC program. Students should select these courses such that the requirements of the K-State 8 general education program also are met.

*b* - Technical Electives: Complete list available at mne.k-state.edu/student-success/advising/tech-electives/

*c* - Nuclear Engineering Option: ME 612 will replace ME 535 in the curriculum. The three remaining Nuclear Engineering option courses fulfill the requirement of the three MNE technical electives.

*d* - ME 535 and NE 612 may both be taken and one of them applied as a Tech Elective. NE 612 must be taken for the NE Option.

*e* - Currently admitted students will only be allowed to transfer in one ME/NE numbered course as required by the curriculum; however, ME 533, ME 574, ME 575 and ME 573 must be taken within the MNE department.

*f* - Currently admitted students will be allowed to transfer one of the three required MNE technical electives with the exception of the >=600 level MNE technical elective.

*g* - To graduate with a Bachelors in Mechanical Engineering, students must have a >= 2.200 GPA in all ME/NE classes >= 400 level taken for undergraduate credit at Kansas State University. Course grades that have been removed by the K-State Retake policy will not apply to this GPA calculation.