

## Aerospace and Mechanical Engineering Deficiency Course Information for MS Applicants

<b>Discipline</b>	<b>Deficiency Courses</b>
Materials/Structures	AME 204 <i>Strength of Materials</i>
Dynamics	AME 301 <i>Dynamics</i>
Fluids	AME 309 <i>Dynamics of Fluids</i>
Thermal Dynamics	AME 310 <i>Engineering Thermodynamics I</i>
Heat Transfer	AME 331 <i>Heat Transfer</i>
Design	AME 305 <i>Mechanical Design</i> or AME 408 <i>Computer-Aided Design of Mechanical Systems</i>
Control	AME 451 <i>Linear Control Systems I</i>

<b>Mathematics</b>	<b>Physics</b>
MATH 125: Calculus I	PHYS 151L: Mechanics and Thermodynamics
MATH 126: Calculus II	PHYS 152L: Electricity and Magnetism
MATH 226: Calculus III	PHYS 153L: Optics and Modern Physics
MATH 245: Mathematics of Physics and Engineering I	

Applicants with non- Aerospace Engineering or Mechanical Engineering undergraduate degrees such as ***Aeronautical Engineering, Biomedical Engineering, Civil Engineering or Physics*** will have better chances of being considered for admission as compared to students from other unrelated majors.

Applicants who majored in ***Computer Science, Electrical Engineering, Industrial Systems Engineering, Accounting, Business, Chemistry or other non-engineering or liberal arts majors*** will likely have the least success in being considered for admission as they may be missing too many courses that are equivalent\* to the deficiency courses listed above. Such applicants may opt to complete equivalent deficiency courses at another accredited institution before applying to help improve their consideration for admission.

\*Course equivalents should be assessed on course description, content, and syllabus, not course titles. Course descriptions can be found at:

<http://catalogue.usc.edu/>