THEORETICAL AND APPLIED MECHANICS

Degree Types: PhD, MS

The interdisciplinary Graduate Program in Theoretical and Applied Mechanics (https://www.mccormick.northwestern.edu/theoretical-applied-mechanics/) (TAM) combines many disciplines in the McCormick School of Engineering and Applied Science including civil and environmental engineering, mechanical engineering, biomedical engineering, and materials science. Qualified students of engineering, mathematics, physics, or an allied science may pursue the MS or PhD in solid mechanics or fluid mechanics.

Specific applications of mechanics research include nanotechnology, soft matter, cell mechanics, composite materials, multiscale modeling, sensor development, nondestructive evaluation, transportation materials and vehicles, earthquake, and material and structural design with uncertainty quantification.

Colloquia and seminars with world-renowned researchers are regularly scheduled in association with the program.

Additional resources:

- Department website (https://www.mccormick.northwestern.edu/theoretical-applied-mechanics/)
- Program handbook(s)

Degrees Offered

- Theoretical and Applied Mechanics BS/MS (https://catalogs.northwestern.edu/tgs/theoretical-applied-mechanics-theoretical-applied-mechanics-bach-mast/)
- Theoretical and Applied Mechanics MS (https://catalogs.northwestern.edu/tgs/theoretical-applied-mechanics-theoretical-applied-mechanics-ms/)
- Theoretical and Applied Mechanics PhD (https://catalogs.northwestern.edu/tgs/theoretical-applied-mechanics-theoretical-applied-mechanics-phd/)