**Theoretical and Applied Mechanics**

**TAM 470  Computational Mechanics**  credit: 3 OR 4 hours.

Modercomputational mechanics: mappings and iterative methods; stability; convergence; consistency; numerical and symbolic solutions of ordinary and partial differential equations; finite-difference methods; the finite-element method; spectral methods. Applications to problems in solid mechanics, fluid mechanics, and dynamics. Same as CSE 450. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: CS 101 and MATH 285.

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Not intended for Undergrad - Urbana-Champaign.