

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF UTAH  
**PDEs for Engineering Students**  
**MATH 3150 – Section 004 – Spring 2019**  
**Homework 1**  
**Conservation and the heat equation**

**Due January 16, 2019**

---

Text: *Applied Partial Differential Equations*, Richard Haberman, 5th edition,

Section 1.2: # 1, 2, 4, 6, 8

Section 1.3: # 1, 2