

Course Schedule[†]
ALL DATES ARE SUBJECT TO CHANGE

Date	Agenda	Assignment	Due
Tue, Aug 27 Thu, Aug 29	1. Overview, Introduction, Syllabus 2. Separable eqns. (1.1–1.3)		
Tue, Sep 3 Thu, Sep 5	3. Integrating factors Lab 1a. Numerical methods (1)	PS1	
Tue, Sep 10 Thu, Sep 12	4a. 2nd order ODEs I (2.1–2.2) Lab 1b. Numerical methods (2)	PS2	PS1
Tue, Sep 17 Thu, Sep 19	4b. 2nd order ODEs II Work on Lab 1 (No Class)	PS3	PS2
Tue, Sep 24 Thu, Sep 26	5. Mechanical vibrations (2.3–2.4) Lab 2a. Visualization and stability (1)	PS4	PS3 Lab 1
Tue, Oct 1 Thu, Oct 3	6. High-order theory (2.5) Lab 2b. Visualization and stability (2)	PS5	PS4
Tue, Oct 8 Thu, Oct 10	Midterm review Midterm Exam		PS5 Final Proj.
Tue, Oct 15 Thu, Oct 17	7. System of eqns. (3.8–3.9) Lab 3a. Population dynamics (1)		Lab 2
Tue, Oct 22 Thu, Oct 24	8a. Laplace transform I (6.1–6.4) Lab 3b. Population dynamics (2)		Final Proj. Topics
Tue, Oct 29 Thu, Oct 31	8a. Laplace transform II 8c. Laplace transform III	PS6	Final Proj. toy model
Tue, Nov 5 Thu, Nov 7	Election Day (No Class) Lab 4a. Infectious disease modeling (1)		Civic Engagement Lab 3
Tue, Nov 12 Thu, Nov 14	9. Power series methods (7.1–7.3) Lab 4b. Infectious disease modeling (2)		PS6 Final Proj. data
Tue, Nov 19 Thu, Nov 21	10. Method of Frobenius 11. Nonlinearity and chaos		Lab 4
Tue, Nov 26 Thu, Nov 28	12a. PDE I Thanksgiving Holiday (No Class)	PS7	Final Report draft Self
Tue, Dec 3 Thu, Dec 5	12b. PDE II 12c. PDE III		PS7
Tue, Dec 10 Thu, Dec 12	Final presentations		Final Report

[†]Major assessments are highlighted in red.