Description:

- From the UBC Calendar: “Linear ordinary differential equations, Laplace transforms, Fourier series and separation of variables for linear partial differential equations.”
- Unlike the (outdated) calendar description, this version of the course is intended for students in the EECE program.

Topic prerequisites:

- Integral calculus including some ordinary differential equations (e.g. MATH 101)
- Linear systems including eigenvalues of matrices (e.g. MATH 152)
- Corequisite: multivariable calculus including partial derivatives (e.g. MATH 253)

Instructor:

- Section 103: Wayne Nagata (office: Math 112, e-mail: nagata@math.ubc.ca)

Textbook:


Topics:

1. Differential equations [Chapter 1]
2. First order ordinary differential equations [Chapter 2]
3. Second order linear ordinary differential equations [Chapter 3]
4. The Laplace transform [Chapter 6]
5. Systems of first order linear ordinary differential equations [Chapter 7]
6. Partial differential equations and Fourier series [Chapter 10]