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Course outline:

1. Review of First and Second order ordinary differential equations
2. Series solutions of ordinary differential equations
   (a) Legendre polynomials
   (b) Frobenius method
   (c) Bessel functions
   (d) Sturm-Liouville problems
3. Laplace transforms and inverse transforms
4. Partial differential equations
   (a) Hyperbolic equations: wave equation and its solution
   (b) Parabolic equations: heat equation and its solution
5. Numerical solution of differential equations

Grading:
- Homework assignments - 40%
- Final project - 60%