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**MATH 215/255 Ordinary Differential Equations**  
*Summer 2017*

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**Instructor:** Patrick Walls ([pwalls@math.ubc.ca](mailto:pwalls@math.ubc.ca))

**Lectures:** Monday 1-3pm, Tuesday 1-3pm, Wednesday 1-2pm & Friday 1-3pm in MATH 100

**Connect:** All course materials, information and grades are posted on Connect. Please visit the MATH 215/255 homepage on Connect regularly.

**Textbook:** Notes on Diffy Qs, by Jiri Lebl (available at [jirka.org/diffyqs](http://jirka.org/diffyqs))

**WeBWorK:** There are 6 assignments in total. Login to the WeBWorK course via the MATH 215/255 Connect course page or the main UBC WeBWorK page:

[webwork.elearning.ubc.ca/webwork2/MATH215-255-921\\_2017S1/](http://webwork.elearning.ubc.ca/webwork2/MATH215-255-921_2017S1/)

**Grades:** Final grades are assigned according to the following outline:

10% WeBWorK (6 assignments)

20% Midterm Exam I (in class Wednesday May 31)

20% Midterm Exam II (in class Wednesday June 14)

50% Final Exam (during exam period June 26-30)

**Schedule:** Outline of lecture topics (with sections from Diffy Qs):

Week 1: First order ODEs (1.1, 1.2, 1.3, 1.4, 1.6, 1.7)

Week 2: Second order ODEs (2.1, 2.2)

Week 3: Second order ODEs (2.4, 2.5, 2.6) & Laplace Transforms (6.1, 6.2)

Week 4: Laplace transforms (6.3, 6.4) & Linear systems of ODEs (3.1, 3.2)

Week 5: Linear systems of ODEs (3.3, 3.4, 3.5, 3.9) & Nonlinear systems (8.1)

Week 6: Nonlinear systems (8.2, 8.3)