Syllabus for MATH 2410 Section 009
Elementary Differential Equations

Term:	Fall 2019	**Instructor:**	Michael Biro
Time:	MoWeFr 12:20 PM – 1:10 PM	**E-mail:**	michael.biro@uconn.edu
Room:	MCHU 302	**Office:**	MONT 403
Website:	`learn.uconn.edu`	**Hours:**	W 2-6pm or by appointment

Text: *"A First Course in Differential Equations with Modeling Applications" by Dennis Zill (11th ed.)*

Description: Introduction to ordinary differential equations and their applications, linear differential equations, systems of first order linear equations, numerical methods.

Exams: There will be 2 exams and a cumulative final. The midterm dates are tentatively set for October 2nd and November 13th respectively, while the final will be scheduled by the registrar.

Homework: There will be homework assigned and collected on WebAssign (Link in HuskyCT). No late homework will be accepted, and the lowest homework score will be dropped.

Grading: Based on the homework, the exams, and the final. The weights will be approximately:

- Homework: 10%
- Exam 1: 30%
- Exam 2: 30%
- Final Exam: 30%

Resources: The following resources offer tutoring, support, and accommodations for students:

- The Q center `https://qcenter.uconn.edu`
- The Dean of Students `https://dos.uconn.edu`
- The Center for Students with Disabilities `https://csd.uconn.edu`

Date	Week	Sections	Topics
08/26/19			
08/28/19	1		
08/30/19			
09/02/19			
09/04/19	2		
09/06/19		2.2	Separable Equations
09/09/19		2.3	Linear Equations
09/11/19	3	2.4	Exact Equations
09/13/19		2.4	Exact Equations
09/16/19		2.5	Substitutions
09/18/19	4	2.5	Substitutions
09/20/19		2.6	Euler's Method
09/23/19		3.1	Linear Models
09/25/19	5	3.2	Nonlinear Models
09/27/19		3.3	Systems of First-Order Equations
09/30/19		Review	Ch 1,2,3
10/02/19	6	Exam	Exam
10/04/19		4.1	Introduction to Linear Equations
10/07/19		4.1	Introduction to Linear Equations
10/09/19	7	4.3	Homogeneous Linear Equations
10/11/19		4.3	Homogeneous Linear Equations
10/14/19		4.4	Undetermined Coefficients
10/16/19	8	4.6	Variation of Parameters
10/18/19		5.1	Linear Models
10/21/19		7.1	Laplace Transforms
10/23/19	9	7.1	Laplace Transforms
10/25/19		7.2	Inverse Transforms
10/28/19		7.3	Operational Properties I
10/30/19	10	7.3	Operational Properties I
11/01/19		7.4	Operational Properties II
11/04/19		B.1	Matrices
11/06/19	11	B.2	Elimination
11/08/19		B.3	Eigenvalues and Eigenvectors
11/11/19		Review	Ch 4,5,7
11/13/19	12	Exam	Ch 4,5,7
11/15/19		8.1	Linear Systems
11/18/19		8.1	Linear Systems
11/20/19	13	8.2	Homogeneous Linear Systems
11/22/19		8.2	Homogeneous Linear Systems
11/25/19			
11/27/19	14	Break	Thanksgiving Break
11/29/19			
12/02/19		8.3	Nonhomogeneous Linear Systems
12/04/19	15	-	Phase Portraits/TBD
12/06/19		Review	Cumulative
TBD	16	Final	Cumulative