HW 1, Due Week 2
1.1: 1, 4, 5, 6, 9, 15, 19, 27, 29, 30, 32, 33, 34

Reading. Required background. Nothing graded from 1.1.
1.2: 1, $2,4,5,4,7,9,10,13,15,16,18$, $21,22,24,26,29,31,32,33,35,40,41$
$1.3: 2,3,5,6,8,10,11,13,14,23,25,26,33$ Print: Exercise 1.3-8 image at 200\%
1.4: 2, 3, 4, 6 , 9, $42,13,48,19,20,21, \boxed{22}, \mathbf{2 6}, 36$, $41,42,45,46,49,51,56,59$

All homework listed in one file Here.

Computer Lab 1, Due Week 3:
http://www.math.utah.edu/~gustafso/s2015/2280/2280mapleL1-intro-S2015.pdf
HW 2, Due Week 3
$1.5: 1,7,8,10,13,18,20,21,23,24,33$, 34, 36, 39
3.7: 1, 2, 4, 7 [LC and RC circuits, LRC after 3.6]
2.1: $1,3,4,6,8,10,12,16,22,23,33,37$
$2.2: 5,7,8,9,10,11,15,17,18$
$2.3: 2,3,9,10,13,14,17,18,19,20,22,24,25$

All homework listed in one file Here.

HW 3, Due Week 4, as a maple/matlab/mathematica computer project:
http://www.math.utah.edu/~gustafso/s2015/2280/numericalDEproject-S2015.pdf
2.4: 2, 3, 4, 6, 10, 12, 17 Euler's method
2.5: 3, 4, 5, 6, 10, 12 Improved Euler or Heun
2.6: 3, 4, 5, 6, 10, 12 Runge-Kutta, RK4

All homework listed in one file Here.

HW 4, Due Week 5
3.1: $1,6,10,27,33,44,46,37, \boxed{38}, 39,40,41,42,43,46,48,53$
3.2: $1,2,5,8,11,13,16,18,19,20,21,22,23,25,26$
$3.3: 3,7,8,9,10,11,16,17,23,27,31,32,37,40$
3.4: 3, 4, 5, 6, 10, 11, 15, 17, 19, 20, 21, 33, 34

All homework listed in one file Here.

HW 5, Due Week 6
$3.5: 2,3,5,6,10,11,12,19,21,22,25,27,29,31,34,39$, $43,45,47,51,52,54,57,58,59$
3.6: $3,4,5,7,8,9,11,13,15,17,18,20,21,22$
3.7: 1, 2, 4, 7, 12, 15, 18, 19 [LRC circuits]

Computer Lab 2, Newton Cooling, Due Week 6. Choose one project.
http://www.math.utah.edu/~gustafso/s2015/2280/2280mapleL2-freezing-pipes-S2015.pdf http://www.math.utah.edu/~gustafso/s2015/2280/2280mapleL2-swamp-cooler-S2015.pdf

All homework listed in one file Here.

HW 6, Due Week 7
7.1: $1,3,7,9,11,13,17,18,19,22,23,27,28,29,31,40$
7.2: $3,7,9,10,15,16,17,19,20,21,23,24,35,37$
$7.3: 3,6,7,9,12,13,17,18,20,23,27,28,29,30,32,34,37$

All homework listed in one file Here.

HW 7, Due Week 8
7.4: 2, 3, 9, 13, 15, 17, 22, 23, 26, 27, 29, 30, 36, 37
$7.5: 3,4,7,9,11,13,44,21,22,25,27,28,31,33,34,37$

All homework listed in one file Here.

HW 8, Due Week 9
7.6: $2,5,6,7,8,11,12,18,21,22$ [impulses and Laplace]
4.1: $1,3,2,5,7,8,11,12,15,17,20,21,24,26$
4.2: 7, 12, 27; A Laplace or Cayley-Hamilton-Ziebur solution is acceptable.
4.3: 7, 9, 21;

See RK4 for systems
http://www.math.utah.edu/~gustafso/s2015/2280/numericalVectorMethods.pdf

All homework listed in one file Here.

HW 9, Due Week 11 after Spring Break (Week 10, no classes)
5.1: $16,17,20,22,24,25,28$

Computer Lab 2, Newton Cooling
Computer Lab 3, Laplace
http://www.math.utah.edu/ gustafso/s2015/2280/2280mapleL2-freezing-pipes-S2015.pdf|http://www.mat swamp-cooler-S2015.pdf http://www.math.utah.edu/ gustafso/s2015/2280/2280mapleL3-
laplace-S2015.pdf

All homework listed in one file Here.

HW 10 does not exist. Spring Break.
No Quiz 10. No Lab 10.

All homework listed in one file Here.

HW 11, due Week 12
5.2: 8, 11, 13, 20, 21, 27, 29, 30, 31, 35, 39, 43, 45, 49
5.3: 6, 9, 13, 19, 24, 27
5.4: 1, 7, 11 , 29
$5.5: 1,3,4,11,12,23,38$

All homework listed in one file Here.

HW 12, due Week 13
5.6: $1,13,15,19,23$
6.1: $3,4,5,7,8,11,15,17,18$
6.2: 2, 5, 7, 9, 12, 13, 17, 19, 21, 22, 23, 29
$6.3: 5,7,8,9,10,11,18,19$

All homework listed in one file Here.

HW 13, due Week 14
6.4: $1,3,4,8,9,10,11,13,14$

Computer Lab 4, Resonance
http://www.math.utah.edu/~gustafso/s2015/2280/2280mapleL4-resonance-S2015.pdf

All homework listed in one file Here.

HW 14, due Week 15
9.1: 6, 7, 10, 13, 15, 17, 20, 24, 30
9.2: 2, $8,9,20$
$9.3: 1,4,9,17,20$
9.4: $1,7,9,13$

All homework listed in one file Here.

HW 15, due by 6pm Tuesday May 5 under the door JWB 113
9.5 : 1, 2, $3,7,9$
9.6: 1, 5

All homework listed in one file Here,

