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, 6, 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, 12, 13, 18, 19, 20, 21, 22, 26, 36,
      41, 42, 45, 46, 49, 51, 56, 59

**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

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

HW 4, Due Week 5
**3.1**: 1, 6, 10, 27, 33, 34, 36, 37, 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

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

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

 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, 14, 21, 22, 25, 27, 28, 31, 33, 34, 37

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

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

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

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

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

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

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

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