1.1: 1, 4, 5, 6, 9, 15, 19, 27, 29, 30, 32, 33, 34 Reading. Required background.

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

Exercise 1.3-8 image: http://www.math.utah.edu/~gustafso/exercise1.3-8-EdwardsPenne

1.4: 2, 3, 4, 6, 9, 12, 13, 18, 19, 20, 21, 22, 26, 36, 41, 42, 45, 46, 49, 51, 56, 59

HW 2

1.5: 1, 7, 8, 10, 13, 18, 20, 21, 23, 24, 33, 34, 36, 39

EPbvp 3.7: 1, 2, $\boxed{4}$, 7 [LC and RC circuits, more after 5.6]

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, $\boxed{10}$, 13, 14, 17, 18, 19, $\boxed{20}$, $\boxed{22}$, 24, 25 HW 3

2.4: 2, 3, 4, 6, 10, 12, 17 Euler's method

2.5: 3, 4, 5, $\boxed{6}$, 10, 12 improved Euler or Heun

2.6: 3, 4, 5, 6, 10, 12 Runge-Kutta

This computer project uses maple/matlab/mathematica, project located at numericalDEproject-S2015.pdf

HW 4

3.1: 1, 4, 6, 7, 8, 9, 11, 12, 16, 17, 19, 23, 24, 26, 27, 28, 29, 32, 33, 34

3.2: 7, 8, 9, 10, 13, 14, 15, 17, 20, 21, 24, 25, 29, 30

3.3: 10, 11, 13, 17, 19, 20, 33, 34, 35

3.4: 3, 5, 7, 10, 11, 13, 16, 19, 21, **22**, 27, **30**, 31, 32, 33, 34, 35, **36**, 39, **40**, 44

3.5: 5, 7, $\boxed{14}$, 17, 23, 25, $\boxed{26}$, 33, 43, $\boxed{44}$ or $\boxed{\text{Xc3.5-44a}}$

3.6: 3, 5, 6, 11, 17, 20, 21, 25, 29, 30, 33, 30, 31, 37, 40, 51, 53, 60

HW 6

4.1: 1, 7, 9, 11, 15, 16, 18, 20, 22, 23, 25, 26, 27, 32, 33, 34, 35, 36

4.2: 3, 4, 5, 6, 7, 9, 11, 15, 17, 18, 21, 24, 27, 28, 29

4.3: 1, 3, 6, 8, 9, 10, 11, 16, 17, 18, 23, 24, 25, 34
HW 7

4.5: 6, 9, 15, 19, 23, 24, 28: No lecture, not due.

4.6: 2, 3, 5: No lecture, not due.

4.7: 7, 10, 11, 12, 19, 22, 25, 26

5.1: 1, 6, 10, 11, 12, 14, 17, 18, 27, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 46, 48, 53

5.2: 1, 2, 5, 8, 11,13, 16, 18, 19, 20, 21, 22, 23, 25, 26 HW 8

5.3: 3, 7, 8, 9, 10, 11, 16, 17, 23, 27, 31, 32, 37, 40

5.4: 3, 4, 5, 6, 10, 11, 15, 17, 19, $\boxed{20}$, 21, 33, $\boxed{34}$

3.7 EPbvp: 1, 2, 4, 7, 12, 15, 18, 19 [electrical circuits]

HW 9

5.5: 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

5.6: 3, 4, 5, 7, 8, 9, 11, 13, 15, 17, 18, 20, 21, 22

10.1: 1, 3, 7, 9, 11, 13, 17, 18, 19, 22, 23, 27, 28, 29, 31, 40

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

HW 11

10.2: 3, 7, 9, $\boxed{10}$, 15, $\boxed{16}$, 17, 19, $\boxed{20}$, 21, 23, $\boxed{24}$, 35, 37

10.3: 3, 6, 7, 9, 12, 13, 17, 18, 20, 23, 27, 28, 29, 30, 32, 34, 37

10.4: **2**, 3, 9, 13, 15, 17, **22**, 23, 26, 27, 29, 30, **36**, 37

10.5: 3, 4, 7, 9, 11, 13, 14, 21, 22, 25, 27, 28, 31, 33, 34, 37

HW 12

EPbvp 7.6: 2, 5, 6, 7, 8, 11, 12, 18, 21, 22 [impulses and Laplace]

6.1: 3, 7, 9, 12, 13, 15, 17, 19, 20, 21, 25, 27, 29, 31, 32, 33, 36, 37

6.2: 3, 6, 9, 20, 21, 23, 24, 26, 27, 28, 29, 31, 33, 37

HW 13

7.1: 1, 3, 2, 5, 7, 8, 11, 12, 15, 17, 20, 21, 24, 26

7.2: 1, 3, 7, 9, 12, 13, 14, 16, 23, 25

7.3: 3, 7, 8, 11, 13, 20, 21, 29, 30, 31, 34, 36, 39, 43, 45, 49

HW 14

7.4: 2, 3, $\boxed{6}$, 8, 9, 12, 13, 14, 16, 17, 18, 21, $\boxed{24}$

9.1: 3, 4, 5, 7, 8, 11, 15, 17, 18

9.2: **2**, 5, 7, 9, **12**, 13, 17, 19, 21, **22**, 23, 29

HW 15

9.3: 5, 7, 8, 9, 10, 11, 18, 19

9.4: 1, 3, $\boxed{4}$, $\boxed{8}$, 9, 10, 11, 13, 14