

CPE 381 Midterm Exam material

	Must Know	Should Know
Chapter 0 – Introduction	X	
0.2 Examples of signal processing applications		X
0.3, 0.4, 0.5	X	
Chapter 1 – Signals	X	
1.2, 1.3, 1.4, 1.5, 1.6	X	
Ex 1.2, 1.8, 1.9, 1.10, 1.11, 1.13, 1.14	X	
Chapter 2 – Systems	X	
2.2, 2.3, 2.3.1	X	
2.3.2		X
2.3.3	X	
2.4, 2.5, 2.6	X	
Ex. 2.1, 2.3, 2.5, 2.11,	X	
Ex. 2.10, 2.15, 2.17, 2.20		X
Chapter 3 – Laplace	X	
3.2, 3.3, 3.4, 3.5, 3.6, 3.7	X	
3.8		X
Ex. 3.1, 3.2, 3.3, 3.8, 3.12, 3.17, 3.18, 3.19, 3.24, 3.25, 3.28, 3.29	X	
Ex. 3.9, 3.23, 3.26		X

Additional material:

- Basic formulas
  - Arithmetic ( $\sum_{n=0}^N n = \frac{N(N+1)}{2}$ ) and Geometric ( $\sum_{n=0}^{N-1} a^n = \frac{1-a^N}{1-a}$ ) series,
  - basic trigonometric formulas
- Basic transformations
- All examples in class
- All homework/quiz solutions