

## ME 720 Acoustics 2

	<b>Topic</b>	<b>Reading</b>
Week 1	Derivation of wave equation Spherical Waves	Blackstock 2, Pierce 10 Blackstock 10
Week 2	Spherical Waves Cylindrical Waves	Blackstock 10 Blackstock 11
Week 3	Cylindrical Waveguides Radiation from a piston	Blackstock 12 Blackstock 13
Week 4	Radiation from a piston Radiation from a piston	Blackstock 13 Pierce 5-6
Week 5	Time domain diffraction Time domain diffraction	Blackstock 14 Blackstock 14
Week 6	Arrays Arrays	Blackstock 15 Blackstock 15
Week 7	Fourier Acoustics and the Angular Spectrum Fresnel Diffraction	Anderson and Trahey Handout
Week 8	Fraunhofer Diffraction Diffraction by an edge	Handout Pierce 5-8
Week 9	Gaussian Beams Focused beams	Handout Handout
Week 10	Inhomogeneous Media	Pierce 8, Morse and Ingard Chap 8
Week 11	Scattering of sound Scattering of sound	Morse and Ingard Chap 8 Morse and Ingard Chap 8
Week 12	Ray Theory Elastic Waves	Pierce 8