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COMD 1112 Digital Media Foundations

Assignment 1 – Sounds

- How sounds are made / produced – Sounds are caused by vibrating objects in air molecules, causing changes in air pressure that form a sound wave. Sound is both sensory and analog.
- Amplitude - the height of the “bump” or the “loudness” of the sound.
- Period – the amount of time it takes for an air molecule to fully move back and forth one time, measured in seconds. Period T = number of seconds per oscillation.
- Frequency – is the number of completed waves per unit of time. Measured in Hertz where unit of time is 1 second. Frequency $f = 1 / T$.
- Wavelength – the distance between the two peaks of the sound wave.
- Speed of Sound – the speed of sound is the speed of a disturbance as it moves through air molecules.
- Hertz – a hertz is 1 / second and measures frequency.
- Medium – material through which a sound wave is passing.