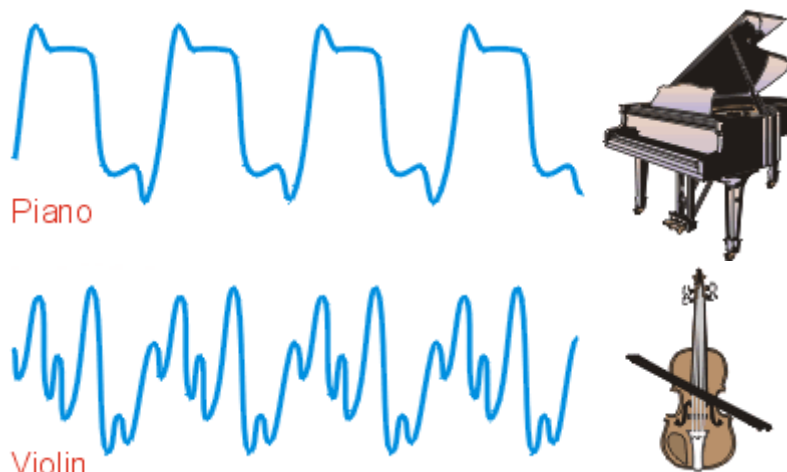


## MATH6050 Mathematics & Music 1 (CRN: 24564)

What is it that determines musical pitch? What properties influence how loud music sounds? What is it that makes the various musical instruments sound so different from one another?



This module is an exploration of some of the many links between Mathematics and Music. To view the module descriptor, click [here](#)

Among the many topics covered are:

- Horizontal and vertical structures in music;
- Mathematical waveforms and their relationship to musical sound;
- Tuning methodologies including the placement of guitar frets;
- The relationship between analogue sounds and their digital counterparts;
- Algorithmic methods of composition.

You will need a good knowledge of basic mathematics and a basic knowledge of music theory. The ability to read music is **not** required.

For further information, please contact Dr. Clodagh Carroll ([clodagh.carroll@cit.ie](mailto:clodagh.carroll@cit.ie))

Times: This module will be delivered in Semester 2, starting in February 2018. The timetable will be published in late January.