

Course: Music, Rhythm, and Mathematics  
Duration: TBA  
Time/Day: TBA  
Course#: Math 112  
Prerequisites: A genuine interest in mathematics, and music. Experience in playing a musical instrument is helpful but not essential.

Instructor: Dr. Alireza Arasteh  
Office#: GRC 213  
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Required textbook: Math, and Music (Harmonious Connections) by Trudi Hammel Garland and Charity Vaughn Khan, First edition (published by Dayle Seymour )

The course topics include but not limited to

- 1) The Essence
- 2) The Beat (Rhythm)
- 3) The Tone (Frequency, Amplitude)
- 4) The Tune (Tuning)
- 5) The Song (composition)
- 6) The Source (Instruments)
- 7) The people (Human Connections)
- 8) The Curiosities (an Assortment)

The course is run very much like a workshop, with a lot of hands on experimentation. Students are evaluated based on class participation and homework assignments. Attendance is essential.