

# Waves Course Syllabus Song

**Walter Smith, June 2001 (Chords by Marian McKenzie)**

**(To the tune of “Scotland the Brave”, with choral bridge version)**

Optional Intro (tune: a variation on the bridge/main tune)

- Dooo Doo, De-Doo Doo Doo Doo; - Dooo Doo, De-Doo Doo Doo Doo

D            D            A                            E            E            E  
**Dooo Dooo, De-Dooo Dooo, De-Dooo Doo De-Doo**

- <sup>A</sup> Dooo <sup>A</sup> Doo, <sup>A</sup> De-Doo <sup>A</sup> Doo Doo Doo; - <sup>A</sup> Dooo <sup>A</sup> Doo, <sup>A</sup> De-Doo <sup>A</sup> Doo Doo Doo

D                      D                      A                      E                      E                      A

**Dooo Dooo, De-Dooo Dooo, De-Dooo Doo De-Doo**

A D A  
Where mass and spring are bouncing, Or megaphones announcing,

D A E  
Where microwaves cause the butter to melt,

<sup>A</sup>Where pendula are swinging, <sup>D</sup>Where violins are singing, <sup>A</sup>

D A E A  
That's where the universal pulse can be felt.

E A  
**Fourier Analysis! Complex functions, oh what bliss!**

A                      E                      D(or B)                      E

**Eigenvalues, diff. e. q., matrix math, and phasors, too!**

A D A  
This is our field of study -- Come on, and bring a buddy!

D A E A  
**Don't be a fuddy-duddy – we welcome you!**

A D A  
Everything stable wiggles -- Even this table jiggles --

D                      A                      E

**Each atom moves with a half k-B T.**

A D A  
**Stand up and start a-cheerin', For electrons interferin',**

D                      A                      E                      A

**Quantum mechanics gives ‘em wave quality.**

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