**Tentative Weekly Schedule**

The schedule may be updated during the semester, depending on circumstances. The exact due dates for assignments will be announced in class and posted on Blackboard

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| Week | Topic | Reading | Assignment |
| 1 Jan.17 (Wed.) | Unit 1: General properties of waves. Interference and diffraction of water waves. | Ch.1 of “Physics in the Arts”. Relevant pages in open source physics texts. | Online Quiz 1 (3%): Waves. |
| 21 2 Jan.24 (Wed.) | Unit 2: The wave nature of light: diffraction and interference. Polarization. The EM spectrum. | Ch.1 of “Physics in the Arts”. Relevant pages in open source physics texts. | Part 1 of Lab Journal (12%): Wave Optics |
| 33 3 Jan.31 (Wed.) | Unit 3: Reflection and refraction of light on boundaries. Total internal reflection. Dispersion in prisms and raindrops. | Ch.2 of “Physics in the Arts”. Relevant pages in open source physics texts. | Online Quiz 2 (3%): Reflection, refraction, dispersion |
| 4 Feb.7  (Wed.) | Unit 4: Lenses and formation of images; aberrations and their corrections. | Ch.3 of “Physics in the Arts”. Relevant pages in open source physics texts. | Part 2 of Lab Journal (12%): Geometric Optics |
| 5 5 Feb.14  (Wed.) | Unit 5: The eye as an optical device. Optical devices: Microscopes, telescopes. | Selections from Chs. 4, 5 of “Physics in the Arts”; open source physics text. | Online Quiz 3 (3%): Optical Devices |
| 5 6 Feb.21  (Wed.) | Unit 5 (cont.): Photo cameras. | Ch.5 of “Physics in the Arts”. | MidTerm Test (20%) |
|  | STUDY WEEK |  |  |
| 7 Mar.7  (Wed.) | Unit 6: Color and color vision. Physical and psychological color. Additive color mixing. | Chs. 6, 7 of “Physics in the Arts”. |  |
| 8 Mar.14  (Wed.) | Unit 7: Subtractive color mixing. Pigments. Color-generating Mechanisms. | Chs. 8 and 9 of “Physics in the Arts”. | Part 3 of Lab Journal (8%): Colour |
| 9 Mar.21  (Wed.) | Unit 8: Simple Harmonic Motion. Damped Oscillations and Resonance. Adding sound sources. | Chs.10 to 13 of “Physics in the Arts”. Relevant pages in open source physics textbooks. | Online Quiz 4 (3%): Periodic Oscillations |
| 10 Mar.28  (Wed.) | Unit 9: Properties of sound waves in materials. Sound perception. The Ear. | Chs.14 to 16 of “Physics in the Arts”. Relevant pages in open source physics textbooks. | Online Quiz 5 (3%): Sound and Sound perception |
| 11 April 4 (Wed.) | Unit 10: Waves in Strings and Pipes. | Chs.17, 18 of “Physics in the Arts”. Relevant pages in open source physics textbooks. |  |
| 12 April 11  (Wed.) | Unit 11: Fourier Analysis: Sound Spectrum and Fourier Synthesis. | Ch.19 of “Physics in the Arts”. Relevant pages in open source physics textbooks. | Part 4 of Lab Journal (8%): Exploring Sound |
| 13 April 18 (Wed.) | FINAL EXAM |  | FINAL EXAM (25%) |