| Master Physics Teacher Certificate | | | |
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| Modern Physics | | | |
| Text: Ideas of Modern Physics by Simon Dalley | | | Summer 2018 |
| Objectives: Upon successful completion of this course, students will be able to: * Explain how the main ideas of Modern Physics shape our world * Analyze and interpret quantitative data in the context of Modern Physics * Identify Ideas of Modern Physics within the appropriate State standards | | | |
| Date (1-5 pm) | Pre-class reading and quizzes | | |
| before Jul 9 | Chapter 1 Numbers in Science prelab | | |
| Mon Jul 9 | Chapter 2 | CLASSICAL PHYSICS | Pre-test & LAB - Measurement Error |
| Tues Jul 10 | Chapter 3 .1 - 3.2 | SPECIAL RELATIVITY | LAB - Light Speed |
| Wed Jul 11 | Chapter 3.3 - 3.4 | SPECIAL RELATIVITY | LAB - Moving Clocks |
| Thu Jul 12 | Chapter 4.1 - 4.2 | GENERAL RELATIVITY | LAB - Free Fall |
| Fri Jul 13 | Chapter 4.3 - 4.4 | GENERAL RELATIVITY | LAB - Hubble's Law |
| Mon Jul 16 | Chapter 5.1 - 5.3 | QUANTUM MECHANICS | LAB - Laser Diffraction |
| Tues Jul 17 | Chapter 6.1 - 6.2 | ATOMS | LAB - Hydrogen Spectrum |
| Wed Jul 18 | Chapter 6.3 - 6.4 | ATOMS | LAB - Radioactivity |
| Thu Jul 19 | Chapter 7.1 - 7.2 | SYNTHESIS | LAB - Particle ID |
| Fri Jul 20 | Chapter 7.3 - 7.4 | SYNTHESIS | Documentary - Particle Fever & Post-test |