

**PHYS 100 – Physics of Ultrasound**

**Lesson Plan: March 5, 2024 - May 28, 2024**

| **Week** | **Date** | **Schedule:** | **Tues - 6:00p - 8:00p** | **Lecture Content / Homework** |
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| **1** | 03/05/24 | Lecture: | Intro to Physics I, Chapter 1 | Syllabus, Lesson Plan, The Basics |
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| **2** | 03/12/24 | Lecture: | Chapters 2 & 3 | Sound, Describing Sound Waves |
| HW: | Study Guide | Complete study guide chapters 2 & 3  Study for Test # 1 |
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| **3** | 03/19/24 | Lecture: | **\*\* GTC ADV BD MTG\*\*** | **NO CLASS** |
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| **4** | 03/26/24 | Lecture: | Chapter 4 | **TEST # 1:** **Chapters 1-3**  *Lecture:* Describing Pulsed Waves |
| HW: | Study Guide | Complete study guide chapter 4 |
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| **5** | 04/02/24 | Lecture: | **EASTER WEEK** | **NO CLASS** |
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| **6** | 04/09/24 | Lecture: | Chapters 5 & 6 | Intensities & Interaction of Sound & Media |
| HW: | Study Guide | Complete study guide chapters 5 & 6  Study for Test # 2 |
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| **7** | 04/16/24 | Lecture: | Chapter 7 | **TEST # 2:** **Chapters 4-6**  *Lecture*: Range Equation |
| HW: | Study Guide | Complete study guide chapter 7 |
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| **8** | 04/23/24 | Lecture: | Chapters 8 & 9 | Transducers & Sound Beam |
| HW: | Study Guide | Complete study guide chapters 8 & 9  Study for Test # 3 |
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| **9** | 04/30/24 | Lecture: | Chapters 10 & 11 | **TEST # 3:** **Chapters 7-9**  Axial & Lateral Resolution and Display Modes |
| HW: | Study Guide | Complete study guide chapters 10 & 11 |
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| **10** | 05/07/24 | Lecture: | Chapter 12 | Two-Dimensional Imaging |
| HW: | Study Guide | Complete study guide chapter 12 |
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| **11** | **PRACTICUM I : MAY 13-17** | | | |
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| **12** | 05/21/24 | Lecture: | Chapter 13 | Real Time Imaging |
| HW: | Study Guide | Complete study guide chapter 13  Study for the Final Exam |
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| **13** | 05/28/24 |  | **FINAL EXAM** | **COMPREHENSIVE - Chapters 1-13** |