

PHYS 1320/ MPSY 5340/PHYS 3320: Fall 2015, TUNKS & OLNESS

| # | DAY | LECTURE: | NOTES: | Chpt | TOPIC |
|--|------|---------------|---------------------|------|--|
| 1 | TUE | 08/25/15 | First Class | 0 | Introduction and course overview |
| 2 | THUR | 08/27/15 | | 1 | Basic physical quantities - Ch. 1 |
| 3 | TUE | 09/01/15 | | 2 | Simple vibrating systems - Ch. 2 |
| 4 | THUR | 09/03/15 | | 3 | Waves and wave propagation - Ch. 3 |
| 5 | TUE | 09/08/15 | | 4 | Complex vibration and resonance - Ch. 4 |
| 6 | THUR | 09/10/15 | | 4 | Complex vibration (continued) |
| 7 | TUE | 09/15/15 | | 5 | The Ear and hearing - Ch.5 to p. 91 |
| 8 | THUR | 09/17/15 | | 5 | Hearing and review |
| 9 | TUE | 09/22/15 | EXAM 1 | | Chpts. 1-5 |
| 10 | THUR | 09/24/15 | | 5 | Go over Exam I; & Intensity: Ch.5, p.91-10 |
| 11 | TUE | 09/29/15 | | 6 | Timbre - Ch. 6 |
| 12 | THUR | 10/01/15 | | 7 | Frequency and Pitch - Ch. 7 |
| 13 | TUE | 10/06/15 | | 8 | Intervals and tuning - Ch. 8 |
| 14 | THUR | 10/08/15 | | 8 | Tuning (continued) and review for Exam II |
| | TUE | 10/13/15 | Fall Break | | |
| 15 | THUR | 10/15/15 | EXAM 2 | | Chpts. 5-8 |
| 16 | TUE | 10/20/15 | | 10 | Strings - Ch. 10 |
| 17 | THUR | 10/22/15 | | 11 | Strings (continued) |
| 18 | TUE | 10/27/15 | | 11 | Woodwinds |
| 19 | THUR | 10/29/15 | | 11 | Woodwinds (cont) |
| 20 | TUE | 11/03/15 | | 13 | Piano - Ch. 13 |
| 21 | THUR | 11/05/15 | Drop Date | 13 | Piano (continued) and Voice |
| 22 | TUE | 11/10/15 | | | Voice (continued) and organ |
| 23 | THUR | 11/12/15 | | 9 | Room Acoustics |
| 24 | TUE | 11/17/15 | | 9 | Room Acoustics |
| 25 | THUR | 11/19/15 | | 12 | Brass - Ch. 12 |
| 26 | TUE | 11/24/15 | | 12 | Brass (continued) |
| 27 | THUR | 11/26/15 | Thanksgiving | | |
| 28 | TUE | 12/01/15 | | 14 | Percussion - Ch. 14 |
| 29 | THUR | 12/03/15 | Last Class | 14 | Project Presentations |
| | WED | Dec 16 | FINAL EXAM | | Wednesday Dec. 16, 2015, 8am-11am |
| <i>Adjustments may be made depending on student interests/needs and unplanned events</i> | | | | | |

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| DAY | NOTES | # | LAB |
|------------|------------------|-----------|--|
| Aug 24 | FIRST LAB | 1 | Measurement and Errors |
| Aug 31 | | 2 | Speed of Sound |
| Sep 7 | <i>Labor Day</i> | | |
| Sep 14 | | 3 | Velocity of Sound in Resonant Tubes |
| Sep 21 | | 4 | Transverse Waves |
| Sep 28 | | 5 | Simple musical instruments: |
| Oct 5 | | 6 | Computer based labs |
| Oct 12 | Fall Break | | |
| Oct 19 | | 7 | <i>Fourier Transforms</i> |
| Oct 26 | | 8 | <i>Diffraction and Interference</i> |
| Nov 2 | | 9 | <i>Resonant Flame tube</i> |
| Nov 9 | | 10 | <i>Oscilloscope experiments</i> |
| Nov 16 | | 11 | <i>Standing wave patters in 2-D</i> |
| Nov 23 | | - | <i>last day to hand in labs</i> |