

| Week | Day       | Date   | Lecture          | Reading      | Topic                       |
|------|-----------|--------|------------------|--------------|-----------------------------|
| 1    | M         | 30-Mar | 1                | Syllabus     |                             |
|      | W         | 01-Apr | 2                | 15.1 - 15.4  | Energy and force in SHM     |
|      | F         | 03-Apr | 3                | 15.5 - 15.8  | SHM for springs and pendula |
| 2    | M         | 06-Apr | 4                | 16.1 - 16.2  | 1D waves propagation        |
|      | W         | 08-Apr | 5                | 16.3 - 16.5  | Superposition               |
|      | F         | 10-Apr | 6                | 16.6 - 16.9  | Standing waves              |
| 3    | M         | 13-Apr | 7                | 17.1 - 17.2  | Sound                       |
|      | W         | 15-Apr | 8                | 17.3 - 17.4  | Interference                |
|      | F         | 17-Apr | 9                | 17.5 - 17.8  | Doppler effect              |
| 4    | M         | 20-Apr | 10               | 33.1 - 33.2  | Light rays                  |
|      | W         | 22-Apr | 11               | 33.3 - 33.4  | Refraction and lenses       |
|      | Th(night) | 23-Apr | <b>Midterm 1</b> |              |                             |
|      | F         | 24-Apr | 12               | 33.5 - 33.6  | Snel's law                  |
| 5    | M         | 27-Apr | 13               | 33.7         | Mirrors                     |
|      | W         | 29-Apr | 14               | 34.1 - 34.3  | Diffraction of light        |
|      | F         | 01-May | 15               | 34.3 - 34.6  | Wave particle duality       |
| 6    | M         | 04-May | 16               | 34.7 - 34.8  | Interference of light       |
|      | W         | 06-May | 17               | 34.9 - 34.10 | Photo electric effect       |
|      | F         | 08-May | 18               | 18.1 - 18.3  | Fluids I                    |
| 7    | M         | 11-May | 19               | 18.5 - 18.7  | Fluids II                   |
|      | W         | 13-May | 20               | 19.1 - 19.2  | Entropy I                   |
|      | Th(night) | 14-May | <b>Midterm 2</b> |              |                             |
|      | F         | 15-May | 21               | 19.3 - 19.5  | Entropy II                  |
| 8    | M         | 18-May | 22               | 19.6         | Entropy III                 |
|      | W         | 20-May | 23               | 19.7 - 19.8  | Monatomic ideal gas         |
|      | F         | 22-May | 24               | 20.1 - 20.3  | Thermal interactions        |
| 9    | M         | 25-May | Holiday          |              |                             |
|      | W         | 27-May | 25               | 20.4 - 20.6  | PV diagrams                 |
|      | F         | 29-May | 26               | 20.7 - 20.9  | Processes                   |
| 10   | M         | 01-Jun | 27               | 21.1 - 21.3  | Entropy constraints         |
|      | W         | 03-Jun | 28               | 21.4 - 21.7  | Heat engines and heat pumps |
|      | F         | 05-Jun | 29               | No reading   | Global warming              |