

|             |     |        |         |                                                   |                    |                    |
|-------------|-----|--------|---------|---------------------------------------------------|--------------------|--------------------|
| Heat Trans. |     |        |         | Sum 2025                                          |                    |                    |
|             |     |        |         |                                                   |                    |                    |
| Week        | Day | Monday | Chapter | Topic                                             | Important Events   | Skip sections      |
| 1           | M   | Jun 02 | 1       | Intro                                             |                    |                    |
| 1           | T   | Jun 03 | 2       | Derive general hx eqn                             |                    |                    |
| 1           | W   | Jun 04 | 2       | Intro to conduction                               |                    |                    |
|             |     |        |         |                                                   |                    |                    |
| 2           | M   | Jun 09 | 3       | 1-D, SS cond,<br>Critical radius of insul         |                    |                    |
| 2           | T   | Jun 10 | 3       | Extended surfaces (fins)                          |                    | 3.7                |
| 2           | W   | Jun 11 | 3       | Finish fins, math review<br>Transient (lumped)    |                    |                    |
|             |     |        |         |                                                   |                    |                    |
| 3           | M   | Jun 16 | 5       | Finish lumped<br>General T hx eqn, overview graph |                    | 5.9                |
| 3           | T   | Jun 17 | 5       |                                                   |                    |                    |
| 3           | W   | Jun 18 | 8       |                                                   |                    |                    |
|             |     |        |         |                                                   |                    |                    |
| 4           | M   | Jun 23 | 6       | Intro to convection                               |                    |                    |
| 4           | T   | Jun 24 | 7       | External flow                                     |                    | 8.8, 8.9           |
| 4           | W   | Jun 25 | 7       | External flow                                     |                    |                    |
|             |     |        |         |                                                   |                    |                    |
| 5           | M   | Jun 30 | 7, 8    | External flow, start Internal flow                |                    |                    |
| 5           | T   | Jul 01 | 8       | Internal flow                                     |                    |                    |
| 5           | W   | Jul 02 | 8       | Internal flow                                     | Exam 1 (take home) |                    |
|             |     |        |         |                                                   |                    |                    |
| 6           | M   | Jul 07 | 8, 11   | Internal flow, start Heat Exchangers              |                    | 7.7, 7.8           |
| 6           | T   | Jul 08 | 11      | Heat Exchangers                                   |                    |                    |
| 6           | W   | Jul 09 | 9       | Free convection                                   |                    | 9.8, 9.10          |
|             |     |        |         |                                                   |                    |                    |
| 7           | M   | Jul 14 | 10      | Boiling                                           |                    | 10.5, 10.10, 10.11 |
| 7           | T   | Jul 15 | 10      | Boiling                                           |                    |                    |
| 7           | W   | Jul 16 | 12      | Radiation                                         |                    | 12.9               |
|             |     |        |         |                                                   |                    |                    |
| 8           | M   | Jul 21 | 13      | Radiation                                         |                    |                    |
| 8           | T   | Jul 22 | 13      | Radiation                                         |                    |                    |
| 8           | W   | Jul 23 |         | Review                                            | Project due        |                    |