

ENG ME 519 Heat Transfer**Spring 2025**

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Text: John H. Lienhard, *A Heat Transfer Textbook*, 6th ed., <https://ahtt.mit.edu>.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/20	Introduction to heat transfer	1.1–1.5
1/27	Heat diffusion equation	2.1–2.5
2/3	One-dimensional conduction	4.1–4.5
2/10	Multi-dimensional space-time conduction	5.1–5.4
2/17	"	5.4–5.8
2/24	"	"
3/3	Laminar boundary layers	6.1–6.3
3/10	"	6.3–6.6
3/17	Turbulent boundary layers	6.7–6.8
3/24	"	"
3/31	Pipe flow	7.1–7.4
4/7	Natural convection	8.1–8.4
4/14	Film condensation	8.5
4/21	Radiation heat transfer	10.1–10.3
4/28	"	10.4–10.6