

**ENG ME 519 Heat Transfer****Spring 2023**

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Text: John H. Lienhard, *A Heat Transfer Textbook*, 4<sup>th</sup> ed., Dover, 2011;  
5<sup>th</sup> edition available at <https://ahtt.mit.edu>.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/16	Introduction to heat transfer	1.1–1.5
1/23	Heat diffusion equation	2.1–2.5
1/30	One-dimensional conduction	4.1–4.3
2/6	"	4.4–4.5
2/13	Multi-dimensional conduction	5.1–5.4
2/20	"	5.5–5.8
2/27	Laminar boundary layers	6.1–6.3
3/13	"	6.3–6.6
3/20	Turbulent boundary layers	6.7–6.8
3/27	"	"
4/3	Pipe flow	7.1–7.4
4/10	Natural convection	8.1–8.4
4/17	Film condensation	8.5
4/24	Radiation heat transfer	10.1–10.3
5/1	"	10.4–10.6