

**ENG ME 519 Heat Transfer****Spring 2022**

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

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
1/17	Introduction to heat transfer	1.1–1.5
1/24	Heat diffusion equation	2.1–2.5
1/31	One-dimensional conduction	4.1–4.3
2/7	"	4.4–4.5
2/14	Multi-dimensional conduction	5.1–5.4
2/21	"	5.5–5.8
3/14	Laminar boundary layers	6.1–6.3
3/21	"	6.3–6.6
3/28	Turbulent boundary layers	6.7–6.8
4/4	Forced convection	7.1–7.4
4/11	"	7.5–7.7
4/18	Natural convection	8.1–8.3
4/25	Radiation heat transfer	10.1–10.3
5/2	"	10.4–10.6