

ENG ME 519 Heat Transfer**Fall 2018**

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Text: John H. Lienhard, *A Heat Transfer Textbook*, 4th ed., Dover, 2011;
also available at <http://web.mit.edu/lienhard/www/ahtt.html>.

<u>Week Beginning</u>	<u>Topics</u>	<u>Reading</u>
9/3	Introduction to heat transfer	1.1–1.5
9/10	Heat diffusion equation	2.1–2.5
9/17	One-dimensional conduction	4.1–4.3
9/24	"	4.4–4.5
10/1	Multi-dimensional conduction	5.1–5.4
10/8	"	5.5–5.8
10/15	Laminar boundary layers	6.1–6.3
10/22	"	6.3–6.6
10/29	Turbulent boundary layers	6.7–6.8
11/5	Forced convection	7.1–7.4
11/12	"	7.5–7.7
11/19	Natural convection	8.1–8.3
11/27	"	8.4–8.5
11/27	Radiation heat transfer	10.1–10.3
12/3	"	10.4–10.6
12/10	Boiling heat transfer	9.1–9.4