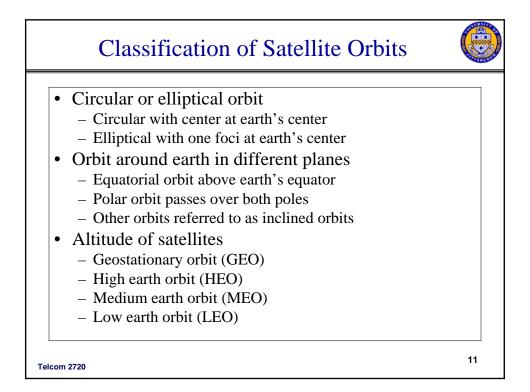
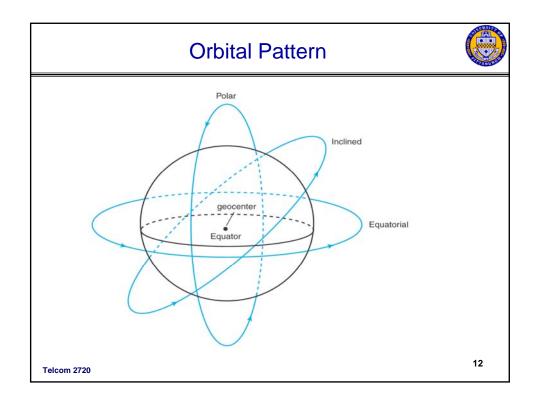
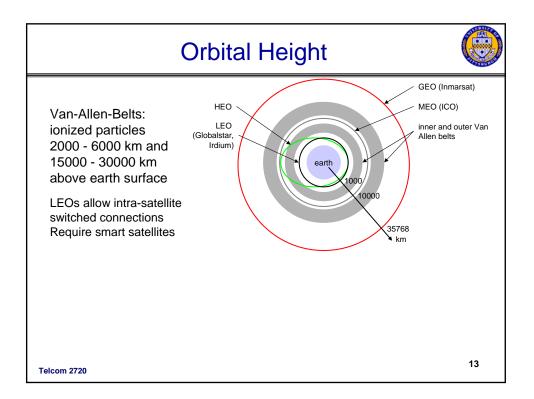
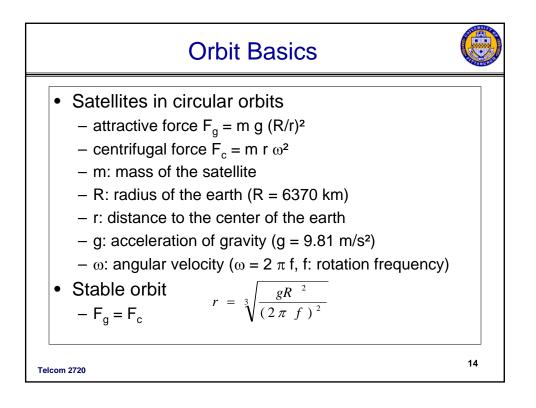


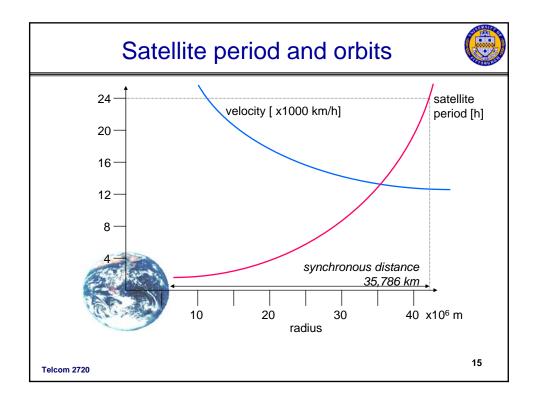
Licensed Spectrum - only					
Band	nd Frequency Range Total Bandwidth General Applica		General Application		
L	1 to 2 GHz	1 GHz	Mobile satellite service (MSS)		
S	2 to 4 GHz	2 GHz	MSS, NASA, deep space research		
С	4 to 8 GHz	4 GHz	Fixed satellite service (FSS)		
Х	8 to 12.5 GHz	4.5 GHz	FSS military, terrestrial earth exploration, and meteorological satellites		
Ku	12.5 to 18 GHz	5.5 GHz	FSS, broadcast satellite service (BSS)		
Κ	18 to 26.5 GHz	8.5 GHz	BSS, FSS		
Ka	26.5 to 40 GHz	13.5 GHz	FSS		

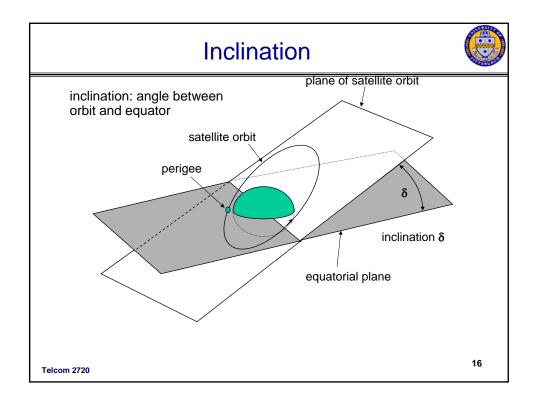


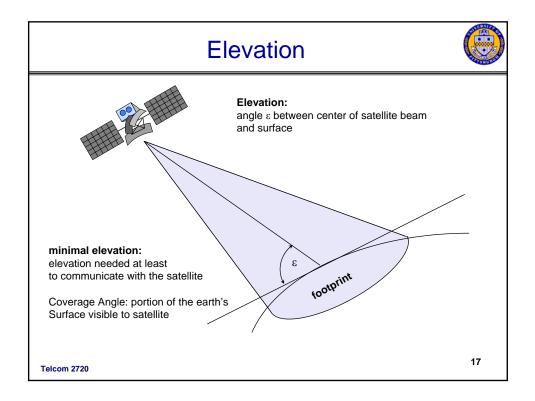


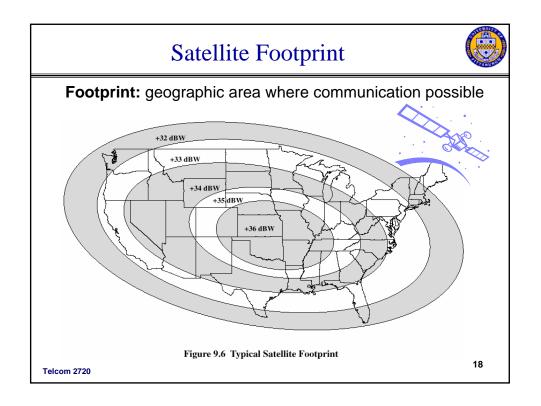


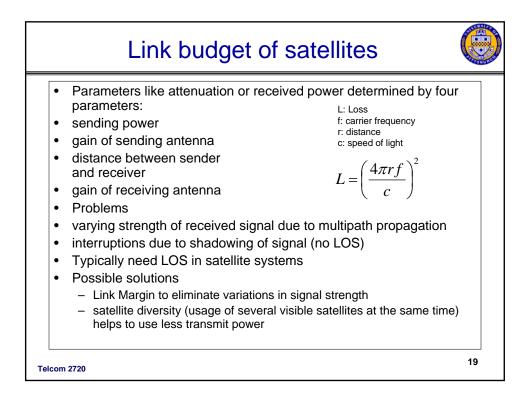


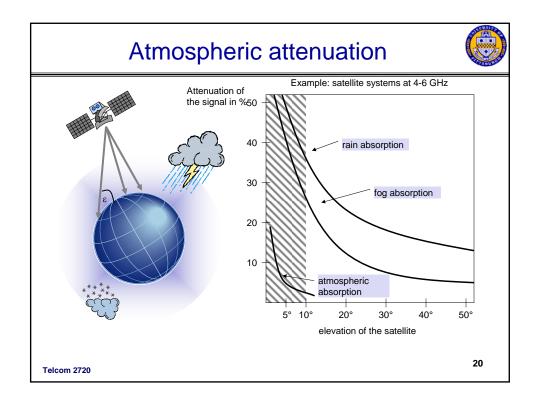


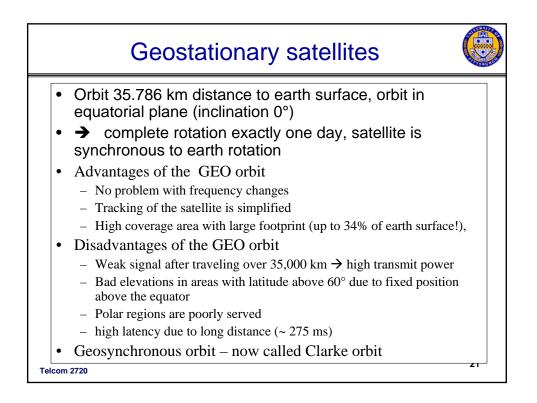


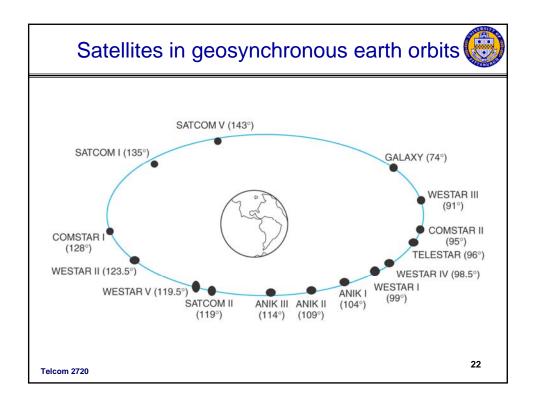


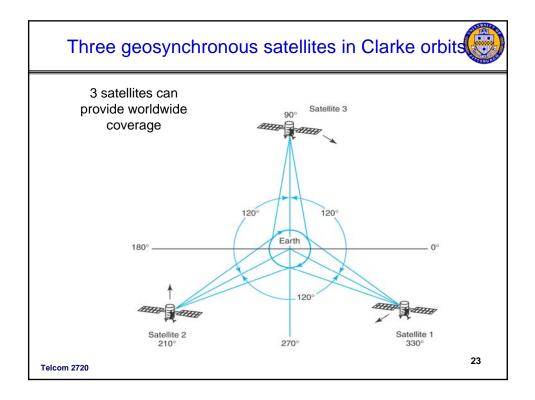


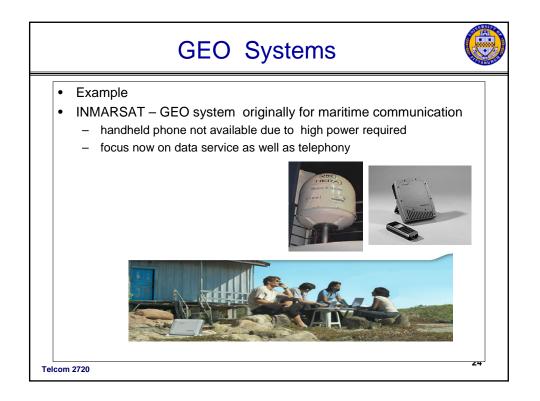


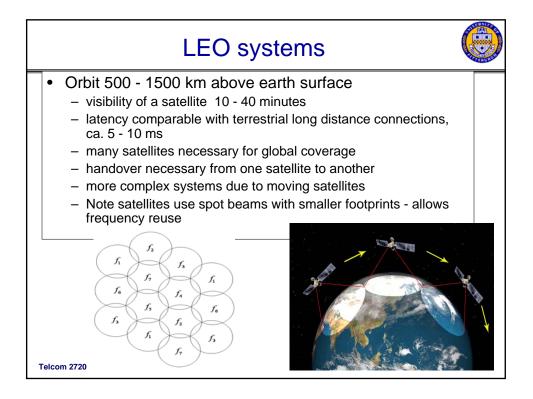


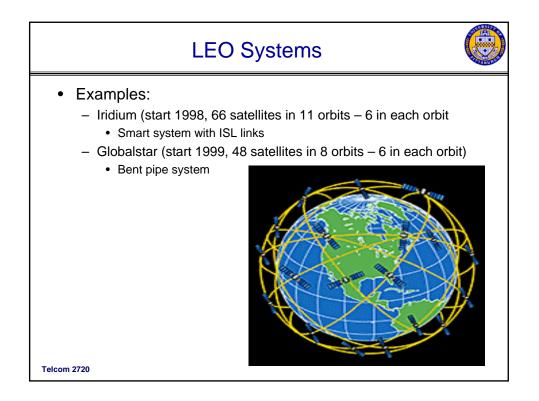


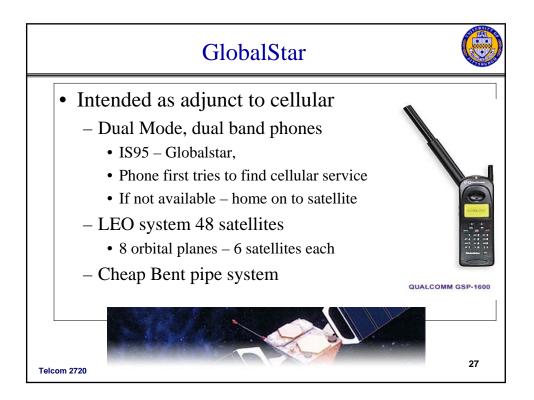


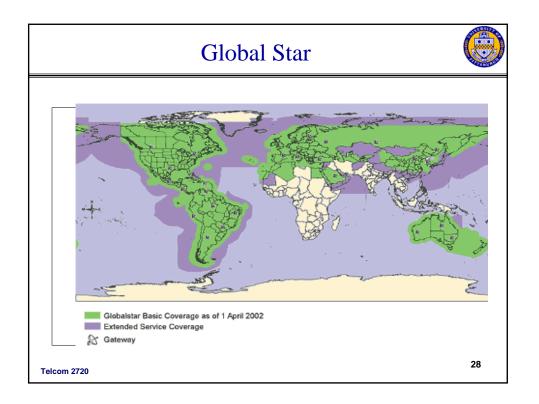


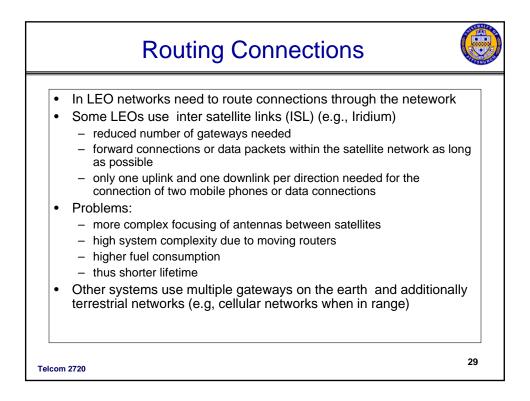


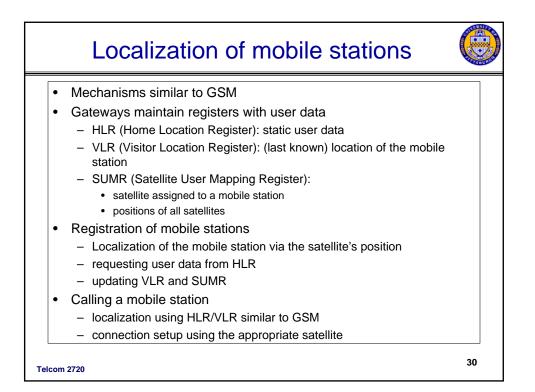


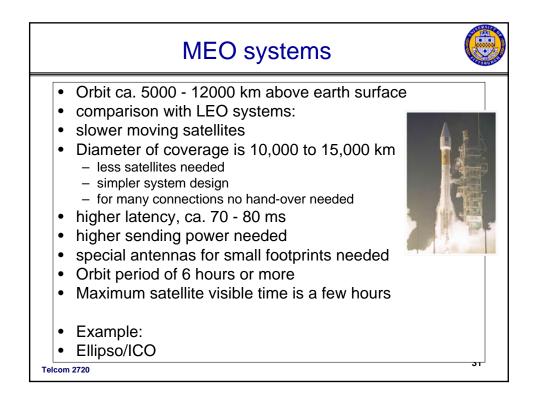


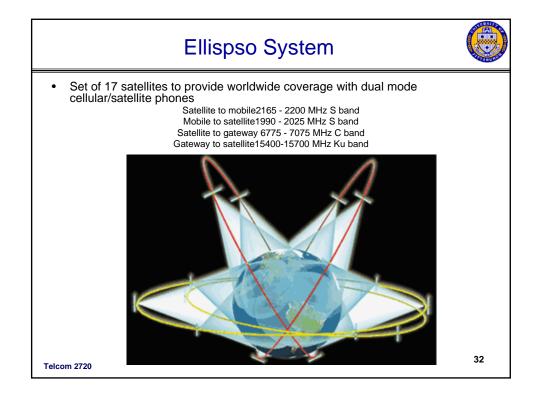


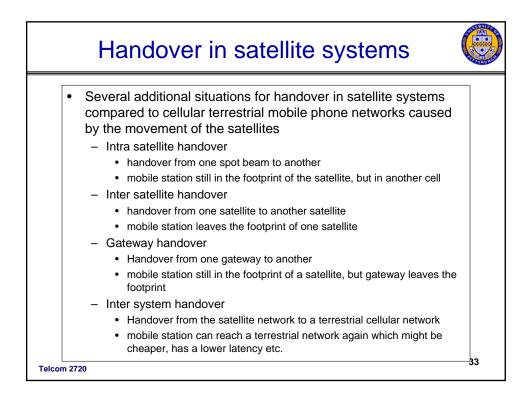












	Iridium	Globalstar	Ellipso/ICO	Teledesic		
# satellites	66 + 6	48 + 4	17 + 2	288		
altitude (km)	780	1414	10390	ca. 700		
coverage	global	±70° latitude	global	global		
min. elevation	8°	20°	20°	40°		
frequencies	1.6 MS	1.6 MS ↑	2 MS ↑	19↓		
[GHz	29.2 ↑	2.5 MS ↓	2.2 MS ↓	28.8 ↑		
(circa)]	19.5↓	5.1 ↑	5.2 ↑	62 ISL		
	23.3 ISL	6.9↓	7↓			
access method	FDMA/TDMA	CDMA	FDMA/TDMA	FDMA/TDMA		
ISL	yes	no	no	yes		
bit rate	2.4 kbit/s	9.6 kbit/s	4.8 kbit/s	64 Mbit/s ↓		
				2/64 Mbit/s ↑		
# channels	4000	2700	4500	2500		
Lifetime	5-8	7.5	12	10		
[years]						
cost	4.4 B\$	2.9 B\$	4.5 B\$	9 B\$		
estimation						
Access	TDD/TDMA	FDD/CDMA	CDMA	FDMA/TDMA		

