Ch. 16 Notes: Chemical Composition of Fibers

-	→Fibers are	: long	made of	molecules	
<u>Natu</u>	ral Fibers				
1.	W				
317	Polymer=		_ chains (forming th	ne keratin)	
	Monomer=				
100	cysteine contains		_)		
2.	S				
	• Polymer=			The state of the s	
	Monomer=		_ (but	of a variety than wool)	
3.	C				
		Polymer= (plant)			
	 Monomer= 				
4	L				
''	· · · · · · · · · · · · · · · · · · ·	se (r	plant)		
		chains than cotton which makes it			
	• Monomer=		botton which makes		
Man					
	made Fibers Rayon				
1.		fiber, then chemica	illy altered,	like	
2	Acetate				
۷.		between	and		
<u>Syntl</u>	<u>netic Fibers</u>				
1.	Polyamides—linked b	у g	ıroup		
	Example:				
	•	and more che	mically	than fibers	
2.	Polyesters—lined by	gro	up		
• linkage than polyamides					
	 Linkage can b 	e linear () or cross-l	inked ()	
3.	Spandex—structurally	similar to			
	 Made of segm 	nents of	conne	cted to long segments of	
	polyesters				
	Resulting spar	ndex can stretch up to	and rec	over strength	
		•			