





All Disciplines of Engineering are Applied Sciences

Engineering – Applied Science	Basic Science
Mechanical Engineering	Physics – mechanics
Electrical Engineering	Physics – electricity and magnetism
Chemical Engineering	Chemistry
Biomedical Engineering	Biology
Packaging Engineering	All of the above plus: Material science Industrial Engineering Project Management Marketing Art and Design Communication skills Manufacturing Distribution

+ Packaging Technologies studied at Rutgers

- Printing and Decorating
- Environmental and Sustainability Issues
- Paper and Paperboard
- Paperboard Cartons
- Metal Cans and Containers
- Glass Containers
- Polymer Chemistry

- Shaping Plastics
- Plastic Applications
- Closures
- Adhesives
- Flexible Packaging Laminates
- Corrugated Fiberboard
- Distribution Packaging









Source and Preparation of Fiber		
Approximate fiber length of c Fiber Source	ellulose used in papermaking Typical Fiber Length	
Main Sources	7 1 5	
Hardwood (e.g. poplar, aspen, maple)	2mm/0.08"	
Softwood (e.g. pine, spruce, hemlock)	4mm/0.16"	
Other Sources		
Straw, bagasse	<2mm/0.08"	
Bast (e.g. Linen, cotton)	> 12mm/0.5"	
Recycled paper	Varies depending on source	

































































