

# PAPER SCIENCE MINOR

Coordinator: Dr. Gary Scott

The paper and related industries (including pulp, mineral, chemical and machinery suppliers) continually seek knowledgeable and skilled employees. Each year, companies hire numerous graduates of chemical, mechanical and environmental engineering programs as well as chemists and other environmental professionals in addition to paper science and engineering graduates. Salaries for new hires are among the highest for all fields of study at the bachelor's degree level. This minor gives students a basic understanding of the paper industry that will allow them to apply their major field of study to this growth industry.

The paper science minor is available to all ESF and Syracuse University undergraduate students (**except students in paper engineering programs**) who maintain a minimum cumulative grade point average of 2.70.

Waivers to prerequisites of courses will be favorably considered in increase access to the minor across campus. Fifteen credit hours in paper science courses are required.

Code	Title	Credits
<b>Required Courses</b>		
PSE 200:	Introduction to Papermaking	
PSE 202:	Pulp and Paper Laboratory Skills	
<b>Elective Courses</b>		<b>11</b>
ECH 202:	Principles of Mass and Energy Balance	
PSE 201:	The Art of Early History of Papermaking	
PSE 223:	Introduction to Lignocellulosics	
PSE 304:	Professional Internship	
PSE 305:	Professional Co-Op	
PSE 306:	Professional Synthesis	
PSE 350:	Fiber Processing	
PSE 436:	Pulp and Paper Unit Operations	
PSE 437:	Equipment Troubleshooting and Maintenance	
PSE 438:	Biorenewable fibrous and nonfibrous products	
PSE 450:	Pulping and Bleaching Processes	
PSE 456:	Management in Industry	
PSE 462:	Papermaking Processes I	
PSE 465:	Fiber and Paper Properties	
PSE 466:	Paper Coating and Converting	
PSE 467:	Papermaking Wet End Chemistry	
PSE 469:	Functional and Nano Additives	
PSE 478:	Papermaking Processes II	
PSE 481:	Engineering Design	
PSE 552:	Fiber Materials Recycling and Processing	
RMS 200:	Renewable Materials and Composites from Lignocellulosics	
RMS 335:	Transport Properties of Materials	
RMS 388:	Wood and Fiber Identification Laboratory	
RMS 465:	Renewable Materials and Surfaces: Testing	