

North Carolina State University

Paper Science & Engineering Curriculum (Effective 01-01-2016)

1 + 3 Program with UNC Asheville

FALL SEMESTER

SPRING SEMESTER

Freshman Year (UNC Asheville)

MATH	191	Calculus I	4	MATH	192	Calculus II	4
LANG	120	Academic Writing & Crit Inquiry	4	ECON	102	Prin of Microeconomics (GEP)	3
	XXX	GEP Course	3	PHYS	221	Physics I	4
CHEM	111	General Chemistry Lab	1	CHEM	233	Fndns Inorganic Chemistry	3
CHEM	132	General Chemistry	3	CHEM	145	Quant Chemistry Lab	<u>1</u>
E	101	Intro to Engr & Prob Solv	<u>1</u>				<u>15</u>
			16				

Sophomore Year (NC State)

MA	242	Calculus III	4	PSE	371	Pulping Process Analysis	3
CHE	205	Chemical Process Principles	4	CH	223	Organic Chemistry II	3
CH	221	Organic Chemistry I	3	CH	224	Organic Chemistry II Lab	1
CH	222	Organic Chemistry I Lab	1	PY	208	Physics for Engrs & Sci II	3
PSE	201	Pulping & Papermaking Tech	3	PY	209	Physics for Engrs & Sci II Lab	1
PSE	212	Paper Properties	4	XXX		Advised Elective	<u>3</u>
E	115	Intro to Computing Environ	<u>1</u>				<u>14</u>
			20				

Junior Year (NC State)

MAE	201	Engineering Thermodynamics I	3	PSE	332	Wood & Pulping Chemistry	3
PSE	211	Pulp & Paper Internship	1	PSE	360	Pulp & Paper Unit Processes II	3
PSE	322	Wet End/Polymer Chemistry	4		XXX	Advised Elective	3
PSE	355	Pulp & Paper Unit Processes I	3		XXX	GEP Course	3
	XXX	GEP Course	3		XXX	GEP Course	3
	XXX	Engineering Elective	<u>3</u>	HES	XXX	Health Exercise Studies	<u>1</u>
			17				<u>16</u>

Senior Year (NC State)

PSE	415	Paper Indus Start Proj Analysis	3	PSE	416	Process Design & Analysis	3
PSE	417	Model & Sim of Pulp Paper Proc	3	PSE	465	Paper Physics & Prod Design	3
PSE	425	Bioenergy & Biomatsls Engr	3	PSE	472	Paper Process Analysis	3
PSE	475	Process Control in Pulp Paper	3		XXX	Advised Elective	3
	XXX	GEP Course	<u>3</u>		XXX	GEP Course	3
			15	HESF	XXX	Health Exercise Studies	<u>1</u>
							<u>16</u>

Total hours shown: 129

Italics indicates the course is received from NC State by distance education technology (none).