

BACHELOR OF SCIENCE IN PAPER ENGINEERING

The paper engineering program is a chemical engineering-based curriculum designed to provide greater depth in fiber and paper processing for students preparing for an engineering career in the pulp, paper and allied industries.

The pulp and paper industry is at the forefront of the renewable resources industry. It represents the first industry that uses biomass in large quantities to produce commodity and specialized products. Graduates are well prepared to move into assignments in the engineering field and advance quickly to positions of responsibility in the analysis and design of processes and equipment. The paper engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Lower Division Required Courses

APM 205	Calculus I:Science & Engr	4
APM 206	Calculus II:Science & Engr	4
APM 307	Multivariable Calculus	4
APM 485	Diff Equat/Engr&Scientist	3
ECH 132	Orientatn&Intro to Chem Eng I	1
ECH 133	Orientatn&Intro to Chem Eng II	1
EWP 190	Writing And The Envrnment	3
EWP 290	Research Writing & Humanities	3
FCH 150	General Chemistry I	3
FCH 151	General Chemistry I Lab	1
FCH 152	General Chemistry II	3
FCH 153	General Chemistry II Lab	1
FCH 221	Organic Chemistry 1	3
FCH 222	Organic Chemistry Lab 1	1
FCH 223	Organic Chemistry II	3
AND		
FCH 224	Organic Chemistry Lab II	1
OR		
PSE 223	Intro to Lignocellulosics	4
FOR 207	Introduction To Economics	3

GNE 160	Comp Methods/Engrs&Scientists	3
PHY 211	General Physics I	0 - 8
PHY 212	General Physics II	0 - 8
PHY 221	General Physics I Laboratory	0 - 8
PHY 222	General Physics II Laboratory	0 - 8
PSE 200	Intro to Papermaking	3
PSE 201	Art &Early History/Papermaking	3
PSE 202	Pulp&Paper Lab Skills	1
ECH 202	Prin Mass/Energy Balance	3
ECH 212	Engr Thermodynamics	3

General Education Elective

Course Name	Codes*	Credits
General Education Course in Diversity, Equity, Inclusion and Social Justice	G	3

Upper Division Required Courses

APM 395	Probability & Stats/Engr	3
ECH 322	Fluid Mechanics	3
ECH 323	Transport Phenomena	3
ECH 324	Unit Operations Laboratory	3
ECH 355	Engr Design Economics	3
ECH 371	Process Control	3
ESF 200	Information Literacy	1
EWP 444	Prof Writing/Paper&Bioproc Eng	2
PSE 304	Professional Internship	1
PSE 306	Professional Synthesis	1

PSE 350	Fiber Processing	3
PSE 450	Pulping & Bleaching Processes	3
PSE 462	Papermaking Processing I	3
PSE 467	Papermaking Wetend Chem	3
PSE 478	Papermaking Processing II	2
PSE 481	Engineering Design	3

EWP 200 and EWP 407 are to be taken in the same semester *in the same time block*. Please consult your advisor if you have question.

Directed Electives

ENGINEERING DIRECTED ELECTIVES	9 - 12
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SCIENCE ELECTIVES	3 - 6
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The list of directed elective courses is available in the student handbook and from the student's advisor. Some courses are available in an exchange program with Germany.

Total Minimum Credits For Degree: 128

