Addendum E to the 2019 Dual Degree Agreement between WMU and INTEC Paper Engineering Program

Below are the degree requirements for WMU's Paper Engineering Program as of July 2019. WMU will award a degree to all students who successfully complete all of the degree requirements (as detailed in the current degree catalog on the WMU Registrar's Office website https://wmich.edu/registrar) and who meet all of WMU's graduation requirements. Students are encouraged to meet with their academic advisor at WMU to ensure they will meet all of the requirements to graduate.

WMU Paper E Program				INTEC courses		
		First Semester	ctor			
WMU code	WMU name	WMU Credits	INTEC code	INTEC Course Equivalent	Credits Transferred	credit hours
MATH 1220 or MATH 170		4	CBM 102	Differential Calculus	4	
HEM 1100	General Chemistry I	3	CBQ 207	Chemistry I	3	
HEM 1110	General Chemistry Laboratory I	1	CBQ 207L	Chemistry I Lab	1	
EE 1020	Technical Communication	3	AHH 201	Rhetoric and Composition	3	
APR 1000	Introduction to Pulp and Paper Manufacture	3				3
GE D1	General Education Area I - Fine Arts	3	AHA 201	Art Appreciation I		3
		Second Semester	The state of the s	Arcappreciation	3	
WMU code	WMU name	WMU Credits	T	INTEC Course Equivalent		
1ATH 1230	Calculus II	4	CBM-201	Calculus II	Credits	
HEM 1120	General Chemistry II	3	CBQ 208	Chemistry II	4	
HEM 1130	General Chemistry Lab II	1	CBQ 208L	Chemistry II	3	
HEG 1810	Introduction to Chemical Engineering Computation	2	CDQ 208L	Chemistry Lab II	1	
APR 2040	Stock Preparation and Papermaking	4				2
GE D8	Health & Well-Being	2	AHD 101	Division in the second		3
		Third Semester	IMUD 101	Physical Education and Sport	2	
WMU code	WMU name	WMU Credits				
HEM 3750	Organic Chemistry I			INTEC Course Equivalent	Credits	
HEM 3760	Organic Chemistry Lab I	3	CBQ 204	Organic Chemistry I	4	
HYS 2050	University Physics	1				
HYS 2060	University Physics I Laboratory	4	CBF 210	Mechanical Physics I	4	
E 2610	Engineering Statistics	1	CBF 210L	Mechanical Physics I Lab	1	
APR 2550	Paper Physics Fundamentals	3	CBM 302	Statistical Inference	3	
CON 2010	Principles of Microeconomics	4				4
2010	Principles of Microeconomics	3	ECO 201	Principles of Microeconomics	3	
WMU code		Fourth Semester				
IATH 2720	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
HYS 2070	Multivariate Calculus and Matrix Algebra	4	CBM 202	Calculus III	4	
HYS 2080	University Physics II	4	CBF 211	Mechanical Physics II	4	
HEG 2960	University Physics II Laboratory	1	CBF 211L	Mechanical Physics II Lab	1	
HEG 2611	Material and Energy Balance	4				4
HEG 2611	Environmental Engineering	3	INC 349	Environmental Engineering	3	
	Elective	4				4
		Fifth Semester		CONTRACTOR OF THE PARTY OF THE		
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
HEG 3110	Unit Operations in Chemical Engineering I	3			Credits	3
APR 3030	Pulping and Bleaching	4				4
GE D2	General Education Area II - Humanities	4	CSS-101	Human Being and Society	4	4
SE D3	General Education Area III - U.S. Cultures and Issues	3				
	Elective	4				3
		Sixth Semester				4
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	6 10	
ATH 3740	Differential Equations and Linear Algebra	4	CBM-203	Differential Equations	Credits	
HEG 3120	Unit Operations in Chemical Engineering II	3		Sincreman Equations	4	
APR 3330	Carbohydrate and Lignin Chemistry	3				3
	Elective	3				3
E D4	General Education Area IV - Other Cultures	3				4
		Seventh Semester	Andrew Street, Square, Street, Square,			3
WMU code	WMU name	WMU Credits				
IEM 4300	Physical Chemistry I	WMU Credits		INTEC Course Equivalent	Credits	
1EG 4830	Process Control I					3
PR 4600	Plant Economics and Project Design	4				4
APR 4400	Seminar Seminar	3				3
APR 4850		1				1
	Research Design	3				3

CHP 3100	Work Exp	1			4
		Eighth Semester			
WMU code	WMU name	WMU Credits	INTEC Course Equivalent	Credits	
APR 4300	Surface and Wet End Science	3	INTEC Course Equivalent	Credits	
CHEG/GPS 4400	Seminar	1			3
APR 4860	Independent Research	2			1
CHEG 4811	Unit Operations Lab	1			3
	Elective	3			1
	Elective	3			3
	Required Credits to graduate	135			3
	Total credits accounted for in this program	135		59	76

Approved By

College of Engineering and Applied Sciences, WMU

Kecheng Li, Chair

Department of Chemical and Paper Engineering College of Engineering and Applied Sciences, WMU Courses to be taken at WMU in the 3rd and 4th year

Courses with alternative options

Multiple courses need to be tranferred to be equivalent

At the time of the signing of this addendum, WMU is undergoing changes to its general education curriculum. The courses highlighted in green may or may not change during this curriculum revision, and therefore any green courses taken at INTEC may not count for this program beginning Fall 2020. If changes are made, WMU will work with students to help them understand their options to complete the program.

Tulio Rodriguez

(date)

Director, Transfer Programs, INTEC