Addendum D to the 2019 Dual Degree Agreement between WMU and INTEC Mechanical Engineering Program

Below are the degree requirements for WMU's Mechanical 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 ME Program			INTEC courses			Courses to be taken at WMU an
First Semester.						
WMU code	WMU name	WMU Credits	INTEC code	INTEC Course Equivalent	Credits	credit hours
MATH 1220 or MATH 1700	Calculus I	4	CBM 102	Differential Calculus	Transferred	
HEM 1100	General Chemistry I	3	CBQ 207	Chemistry I	4	
HEM 1110	General Chemistry Laboratory I	1	CBQ 207L	Chemistry I Lab	3	
E 1020	Technical Communication	3	AHH 201		1	
DMM 1420			INM 201	Rhetoric and Composition	3	
DIVINI 1420	Engineering Graphics	3	INM 202	Mechanical Drawing !	3	
GE D1	General Education Area I - Fine Arts	3	AHA 201	Mechanical Drawing II		
		Second Semester	TAHA 201	Art Appreciation I	3	
WMU code	WMU name	WMU Credits				
IATH 1230	Calculus II			INTEC Course Equivalent	Credits	
HYS 2050	University Physics I	4	CBM 201	Calculus II	4	
HYS 2060	University Physics I Laboratory	4	CBF 210	Mechanical Physics I	4	
		1	CBF 210L	Mechanical Physics I Lab	1	Mary 17 (000)
S 1200	Programming in C for Engineers	3	INS 212	Programming I	3	
1E 2615			INS 212L	Programming I Lab	3	
GE D2	Introduction to Mechanical Engineering	3			THE PERSON	3
DE DZ	General Education Area II - Humanities	4	CSS 101	Human Being and Society	4	
		Third Semester				
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
ATH 2720	Multivariate Calculus and Matrix Algebra	4	CBM 202	Calculus III	4	
HYS 2070	University Physics II	4	CBF 211	Mechanical Physics II		
HYS 2080	University Physics II Laboratory	1	CBF 211L	Mechanical Physics II Lab	4	
E 2320	Thermodynamics I	3	INM 300	Thermodynamics	1	
E 2560	Statics		ING 216	Statics	3	
L 2300	Statics	3	ING 216L		3	
		Fourth Semester	ING STEE	Statics Lab		
WMU code	WMU name	WMU Credits			A STATE OF THE PARTY OF THE PAR	
ATH 3740	Differential Equations and Linear Algebra	4		INTEC Course Equivalent	Credits	
		The second second	CBM 203	Differential Equations	4	
ME 2500	Materials Science	3	INI 383	Science and Engineering of Materials	2	
	Mechanics of Materials		INI 383L	Science and Engineering of Materials Lab	1	
			ING 217	Mechanics of Materials		
E 2570			ING 217L	Mechanics of Materials Laboratory		
		3	OR OR		3	
			INC 213	Mechanics of Deformable Solids		
			INC 213L	Mechanics of Deformable Solids Laboratory		
			INE 377			
E 2100	Circuit Analysis			Electric Circuits I		
£ 2100		4	INE 377L	Electric Circuits I Lab	4	
			OR			
			INE 319	Electrical Circuits		
ME 2580	Dynamics	3	ING 212	Dynamics		
			ING 212L	Dynamics Lab	3 -	
WMU code		Fifth Semester				
E 3560	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
E 3580	Fluid Mechanics	4				4
	Mechanism Analysis	3				3
E 3620	Engineering Experimentation	3				3
IEM 1120	General Chemistry II		CBQ 208	Chemistry II		
IEM 1130	General Chemistry II Lab		CBQ 208L	Chemistry II Lab	Section 1	
The same of the sa	or	4				
YS 3090	Introductory Modern Physics		005.043	or	4	
YS 3090	Introductory Modern Physics Lab		CBF 212	Mechanical Physics III		
3650	Machine Design I		CBF 212L	Mechanical Physics III Laboratory		
	machine Design 1	3				3
WMU code		Sixth Semester	THE PERSON NAMED IN			
3350	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
	Instrumentation	3				3
E 3600	Control Systems	3				3
E 4310	Heat Transfer	3				
						3
E 4320 E 2110	Thermodynamics II Machine & Electronics Circuits	3		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The second secon	3

Both ING 217 and INC 213 are equivalent courses, but students generally pick the one hat suits their schedule

E 319 is equivalent to INE 377 and INE 377L I of these courses still exist)

		Seventh Semeste				
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
ME 4790	Mechanical Eng. Project Planning	3		invice course Equivalent	Credits	
ME	ME Design Elective	3	1000		-	3
ME	ME Elective	1				3
ME	ME Elective	3				3
TGE D5	General Education Area V - Social Behavioral Sciences		CSG-204	Social and Cultural Anthropology		3
			ECO 201	Principles of Microeconomics	3	
TGE D3	General Education Area III -U.S. Cultures and Issues	3			THE RESERVE OF THE PARTY OF THE	2
		Eighth Semester	WHEN SHARES			- 3
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	Credits	
ME 4800	Mechanical Eng. Project	3		THE COURSE EQUIVALENT	Credits	
ME	ME Design Elective	3				3
ME	ME Elective	3				3
TGE D8	General Education Area VIII- Health & Well Being	2	AHD 101	Dhadad Sharing Long		3
IGE D4	General Education Area IV - Other Cultures	2	AHD 101	Physical Education and Sport	2	150
	Required Credits to graduate	422				3
	Total modita account of facility	132	THE VENT OF		74	58

Total credits accounted for in this program

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.

Department of Mechanical and Aerospace Engineering College of Engineering and Applied Sciences, WMU

Tulio Rodriguez

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(date)