## Addendum A to the 2019 Dual Degree Agreement between WMU and INTEC Civil Engineering Program

Below are the degree requirements for WMU's Civil 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.

			INTEC courses	Courses to be			
		First Semester			AND DESCRIPTION OF SALES	taken at WMU and	
WMU code	WMU name	WMU Credits	INTEC code	INTEC Course Equivalent	Credits Transferred	credit hours	
MATH 1220 or MATH 1700		4	CBM-102	Differential Calculus	4		4
GEOS 1300	Physical Geology	4				4	
CCE 1001	Into to Engineering Design	1	INS-209	Spreadsheets for Engineers	1	-	Both INS-209 and INC-211 must be taken to
IEE 1020	Technical Communication	3	AHH-201	Rhetoric and Composition	3		
EDMM 1420	Engineering Graphics		INM 201	Mechanical Drawing I	COLUMN TO SERVICE STREET		
	engineering draphics	3	INM 202	Mechanical Drawing II	3		+
		Second Semester		Internation Divising II			-{
WMU code	WMU name	WMU Credits		INTEC Course Equivalent	Credits		-
MATH 1230	Calculus II	4	CBM-201	Calculus II	4		-{
CHEM 1100	General Chemistry I	3	CBQ 207	Chemistry I	3		+
CHEM 1110	General Chemistry Laboratory I	1	CBQ 207L	Chemistry I Lab	1		1
PHYS 2050	University Physics I	4	CBF 210	Mechanical Physics I	4	<del>                                     </del>	1
PHYS 2060	University Physics I Laboratory	1	CBF 210L	Mechanical Physics I Lab	1		
CS 1022	Introduction to Engineering Computing II: Mathematical Software	1	INS 208	Programming Fundamentals			De Abudeureh has annes al INC 200
CS 1023	Introduction to Engineering Computing III: Computer Programming	1	INS 208L	Programming Fundamentals Lab	2		Dr. Abudayyeh has approved INS 208 and INS 208 for transfer as both CS 1022 and 1023 for CCE
CCE 1002	Intro to Engineering Analysis	1	INC-211	Civil Engineering Fundamentals	1		program
		Third Semester			1		
WMU code	WMU name	WMU Credits		INITEGO			Both INS-209 and INC-211 must be taken to count
MATH 2720	Multivariate Calculus and Matrix Algebra	4	CBM-202	INTEC Course Equivalent Calculus III	Credits		for both CCE 1001 and CCE 1002
PHYS 2070	University Physics II	4	CBF 211	Mechanical Physics II	4		
PHYS 2080	University Physics Lab II	1	CBF 211L	Mechanical Physics Lab II	4		
CCE 2360			CIV 301		11		
CCE 2300	Geomatics	3	CIV 301L	Topography I (prereq. CBM 102) Topography I Lab	3		
IEE 2610	Engineering Statistics	3	CBM 302	Statistical Inference			1
ME 2560	Statics		ING 216	Statistical interence Statics	3		
WE 2500	Statics	3	ING 216L	Statics Statics Lab	3		
		Fourth Semester	11140 2101	Statics Lab			4
WMU code	WMU name						
MATH 3740	Differential Equations and Linear Algebra	WMU Credits		INTEC Course Equivalent	Credits		
CHEG 2611	Environmental Engineering	4	CBM 203	Differential Equations	4		
		3	INC 349	Environmental Engineering	3		
ME 2580	Dynamics	3	ING 212	Dynamics	3		
			ING 212L	Dynamics Lab			
			ING 217	Mechanics of Materials			
ME 2570	Mechanics of Materials	3	ING 217L	Mechanics of Materials Laboratory			Both ING 217 and INC 213 are equivalent courses,
			OR		3		but students generally pick the one that suits their
			INC 213	Mechanics of Deformable Solids			schedule
TGE D1	General Education Area I - Fine Arts	3	INC 213L AHA 201	Mechanics of Deformable Solids Laboratory			
	The state of the s	Fifth Semester	JAHA 201	Art Appreciation I	3		
WMU code	WMU name	WMU Credits					
CCE 3360	Soil Mechanics	Wivio Credits		INTEC Course Equivalent	Credits		
IEE 3100	Engineering Economy	3				3	
ME 3560	Fluid Mechanics	3	<del> </del>			3	
TGE D5	ECON 2010 Principles of Microeconomics	3	ECO 201	B. I.I. Call		3	
PHIL 3160	Ethics in Engineering and Technology	3	ECO 201	Principles of Microeconomics	3		
	g. Jing and reciniology	Sixth Semester				3	
WMU code	WMU name						
	vvivio name	WMU Credits		INTEC Course Equivalent	Credits		

CCE 3080	Civil & Construction Eng Materials	3				
CE 3300	Transportation Engineering	3				3
CE 3330	Constr. Codes, Specs & Contracts	3				3
CCE 3860	Structural Analysis	3				3
GE D4	General Education Area IV - Other Cultures	1				3
		Seventh Semeste				4
WMU code	WMU name	WMU Credits		INTEG C	PARTICIPATION OF THE PARTICIPA	
CE 4300	Traffic Design	2	III DESIGNATION OF THE PARTY OF	INTEC Course Equivalent	Credits	
CE 4400	Intro to Structural Design	3				3
CCE 4830	Project Design & Control	1				3
LEC	Construction Elective	2				1
LEC	Elective	3				3
CCE 4561	Foundation & Earth Retaining Structure Design	3				3
	Land and the second of the sec	Eighth Semester	CONTRACTOR OF THE PARTY OF THE			3
WMU code	WMU name	WMU Credits				
LEC	Structural Elective	WWO Credits		INTEC Course Equivalent	Credits	
CE 4850	Senior Project	3				3
LEC	Elective	3				3
GE D8	General Education Area VIII- Health & Well Being	2	AUD 404			3
GE D3	General Education Area III -U.S. Cultures and Issues	2	AHD 101	Physical Education and Sport	2	
	Required Credits to graduate					3
	Total credits accounted for in this program	126			66	60

Approved By

College of Engineering and Applied Sciences, WMU

Osama Abudayyeh, Chair

Department of Civil 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

Director, Transfer Programs, INTEC

(date)