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

Below are the degree requirements for WMU's Bachelor of Science in Engineering (Civil) as of July 2019. WMU will award a Bachelor of Science in Engineering (Civil) 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 CCE Program		UNIBE courses				Courses to be taken at WMU and	NOTES
WMU code	WMU name	WMU Credits	UNIBE code	UNIBE Course Equivalent	Credits at UNIBE	Credits Transferred	credit hours	
		First S	emester	HOW SEED OF STREET STREET	DECEMBER OF STREET	CONTRACTOR OF THE PARTY.	COURSE OF STREET	
GEOS 1300	Physical Geology	4	IC4-221	Physical Geology	4	4		1
EE 1020	Technical Communication	3					3	1
DMM 1420	Engineering Graphics	3	IC4-112	Computer Designed	2	3		1
CONTINUE 1420	Engineering Graphics	3	IC4-111	Engineering Drawing	3	3		
MATH 1220 or MATH 1700	Calculus I	4	EGC-154	Calculus I	4	4		1
CCE 1001	Into to Engineering Design	1	IC4-110	Principles of Civil Engineering	4	2		1
CCE 1002	Intro to Engineering Analysis	1	104-110	Principles of Civil Engineering	4	2	The same of the same of the same	
		Second	Semester					
WMU code	WMU name	WMU Credits		UNIBE Course Equivalent	UNIBE	Transfer Credits		7
CHEM 1100	General Chemistry I	3	EGC-160					1
CHEM 1110	General Chemistry Laboratory I	1	EGC-160	General Chemistry I	4	4		
CS 1022	Introduction to Engineering Computing II: Mathematical Software	1	IC4 210	CtP		2		Transferred as CS 1200 Programming in C for Engineers which
CS 1023	Introduction to Engineering Computing III: Computer Programming	1	IC4-210	Computer Programming	3	2		can substitute for CS 1022 and CS 1023.
MATH 1230			EGC-155	Calculus II	4			To the state of th
IVIATO 1230	Calculus II	4	EGC-156	Matrices and Linear Algebra	3	4		
PHYS 2050	University Physics I	4						1
PHYS 2060	University Physics I Laboratory	1	EGC-170	General Physics I	4	5		
NAME OF TAXABLE PARTY.		Tiblian	Semester					
WMU code	WMU name	WMU Credits		UNIBE Course Equivalent	UNIBE	Transfer Credits		4
EE 2610	Engineering Statistics	3	UNB-202	Statistics	3	3	-	-
			EGC-252	Vector Calculus	4	3		-
MATH 2720	Multivariate Calculus and Matrix Algebra	4	EGC-252	Matrices and Linear Algebra	3	4		
ME 2560	Statics	. 3	IG1-210	Statics	3	3		-
PHYS 2070	University Physics II	4			- 3	3		-
PHYS 2080	University Physics II Laboratory	1	EGC-271	General Physics III	4	5		
CCE 2360	Geomatics	3	POPERTY STATE				3	Topography I and II could not be found equivalent; Calculus no
								listed as a prerequisite
		Fourth	Semester					
WMU code	WMU name	WMU Credits		UNIBE Course Equivalent	UNIBE	Transfer Credits		1
TGE D1	General Education Area I - Fine Arts	3	EGH-140	Arts and Humanities	4	3		1
CHEG 2611	Environmental Engineering I	3					3	
			EGC-253	Differential Equations	4			1
MATH 3740	Differential Equations and Linear Algebra	4	EGC-254	Mathematical Methods	3	4		1
			IG1-212	Solid Mechanics I	4			-
ME 2570	Mechanics of Materials	3	IG1-212	Solid Mechanics II	3	3		4
ME 2580	Dynamics	3	IG1-310			2		
IVIL 4JOU	Тоупапись		igi-211 emester	Dynamics	3	3		In order to preserve the integrity of WMU program, we canno
WMU code	WMU name		emester I	THURS OF THE PARTY	1	T =		transfer any more courses after Mechanics of Materials
ECON 2010		WMU Credits		UNIBE Course Equivalent	UNIBE	Transfer Credits		
IEE 3100	Principles of Microeconomics	3		_			3	4
IEE 2100	Engineering Economy	3					3	evaluated, but cannot be articulated
ME 3560	Fluid Mechanics	3	IC4-312 IG1-311	General Hydraulics Fluid Mechanics	5 4	3		-
PHIL 3160	Ethics in Engineering and Technology	3		Ties medianes	Market State of the last	TOTAL STREET, TOTAL STORE	3	1
CCE 3360	Soil Mechanics	3			+		3	-
CCE 3300	[JOHN MICHAINS		emester		1		3	
WMU code	WMU name	WMU Credits	Jennestel .	LIMIDE Co	Linne	T	The second second second second	
CCE 3080	Civil & Construction Eng Materials			UNIBE Course Equivalent	UNIBE	Transfer Credits		
		3					3	4
CCE 3300	Transportation Engineering	3			1		3	

CCE 3330	Constr. Codes, Specs & Contracts	3					
CCE 3860	Structural Analysis	3					3
TGE D4	General Education Area IV - Other Cultures	4	EGS-110	Historical Processes and Social Collective Construction	3	4	3
		Sevent	h Semester				ALC: NAME OF TAXABLE PARTY.
WMU code	WMU name	WMU Credits		UNIBE Course Equivalent	UNIBE	Transfer Credits	A STATE OF THE PARTY OF THE PAR
CCE 4300	Traffic Design	3	SERVICE AND SERVIC		- CHIEC	Transfer Credits	
CCE 4400	Intro to Structural Design	3		MANA DANA PROPERTY AND A STATE OF THE STATE			3
CCE 4830	Project Design & Control	1			-	+	
CCE	Construction Elective	3					1
CCE	Elective	3				-	3
CCE 4561	Foundation & Earth Rataining Structure Design	3					3
		Fighth	Semester				3
WMU code	WMU name	WMU Credits	T	UNIBE Course Equivalent	LIAMAG		
CCE	Structural Elective	3		Olvibe Course Equivalent	UNIBE	Transfer Credits	
CCE 4850	Senior Project	3					3
CCE	Elective	3					3
	General Education Area VIII- Health & Well Being	3					3
	General Education Area III -U.S. Cultures and Issues	2					2
	Required Credits to graduate	126			WITE ASIA		3
	Total credits accounted for in this program	126	1			63	63

Authorized By:

Houssam Toutanji, Dean (date)

College of Engineering and Applied Sciences, WMU

Osama Abudayyeh, Chair (date)

Department of Civil Engineering

College of Engineering and Applied Sciences, WMU

Courses to be taken at WMU in the 3rd and 4th year Multiple courses need to be tranferred to be equivalent to \

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 UNIBE 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.

Francisco García Álvarez (date)

Director, School of Civil Engineering, UNIBE