AN ARTICULATION AGREEMENT BETWEEN ROBERT MORRIS UNIVERSITY AND COMMUNITY COLLEGE OF BEAVER COUNTY

OBJECTIVE OF THE AGREEMENT

Based on the commonality of purpose and a mutual goal of assuring a quality education, Community College of Beaver County and Robert Morris University enter into the following articulation agreement. The primary objective of this agreement is to maximize credit transferability while retaining all Robert Morris academic requirements and providing a rigorous program of study. This agreement will afford students the opportunity to realize their educational goals and enhance their future employability through a curriculum that is both challenging and rewarding.

TERMS AND CONDITIONS OF THE AGREEMENT

This agreement applies to Community College of Beaver County (CCBC) graduates with an earned Associate in Sciences Degree in Pre-Engineering who plan to enter Robert Morris University (RMU) in a major under the Bachelor of Science degree program majoring in Manufacturing Engineering.

Up to 51 credits will be granted to students who have successfully completed an Associate Degree provided that:

- Students have completed the curriculum as outlined in the CCBC 2016-2017 College catalog
- Students have fulfilled grade requirements of the major into which they are transferring.

Courses completed at other academic institutions do not affect the nature or scope of this agreement. Said courses will be evaluated according to the Academic Policies of RMU regarding transfer credits.

RMU will provide an official evaluation of all previously completed coursework and placement of those credits at the time of application.

RMU reserves the right to change program requirements and/or transfer equivalents.

Notice of changes in program requirements by any party of this agreement must be given in writing in a timely manner.

Termination of this agreement may be made by any party, and must be in writing.

Students who sign a letter of intent are indicating their interest in attending RMU and will be entitled to:

- a waiver of the RMU application fee
- advanced registration along with RMU students
- participation in department functions and activities while enrolled at CCBC

However, this letter of intent does not obligate students to attend RMU. Students who sign a letter of intent must matriculate within three years.

CCBC will properly advertise and will provide information regarding RMU, its academic programs, requirements, and services extended to the transfer graduate under the terms of this agreement.

CCBC will communicate with the RMU Academic Services Office regarding issues and questions posed by participating students.

CCBC will provide the RMU Admissions Office with the names and addresses of CCBC students who have indicated an interest in attending RMU and would benefit from major department activity information.

The undersigned duly authorized officials agree to abide by the above terms and conditions.

APPROVED BY:

COMMUNITY COLLEGE OF BEAVER COUNTY ROBERT MORRIS UNIVERSITY

Christopher M. Reber, Ph.D.	Date
President	

Christopher B. Howard, D. Phil. Date President

ROBERT MORRIS UNIVERSITY

School: Engineering, Mathematics, and Science Department: Engineering

DODEDT MODDIG UNIVEDGITV CODE

ACADEMIC REQUIREMENTS FOR Bachelor of Science Major: MANUFACTURING ENGINEERING Minimum Credits Required - 126

I. ROBERT MORRIS UNIVERSITY CO	KE41 Credits			
CHEM1210 Chemistry I	3CHEM101	HIST	History Elective** or	3
CHEM1215 Chemistry I Lab	1CHEM101	POLS	Political Science Elective**	
COSK1220 Reading and Writing Strategies	3WRIT101	(**Choose from		600, HIST1700
COSK1221 Argument and Research	3	HIST1800 or	· POLS1020)	
COSK2220 Public Speaking and Persuasion	3COMM201	HUMA1010	Humanities: Art and Music	3TRAN
COSK2230 Professional Communications	3	INFS1020	Intro to Decision Support Systems	3CIST100
ECON1010 Survey of Economics	3	*MATH2070	Calculus w/Analytic Geometry I	4MATH160
ELIT Literature Elective	3LITR210	PSYC1010	General Psychology	3PSYC101
		SOCI1020Co	ntemporary American Social Problem	ns 3
2. MATH AND SCIENCE25 Credits				
ENGR2080 Engineering Statistics	3	MATH3400	Linear Algebra with Applications	3
MATH2170 Calc with Analytic Geometry II	4MATH161	MATH3420	Differential Equations	3
CHEM2210 Chemistry II/CHEM2215 Chem Lab	4CHEM102	PHYS1210	Physics I	3PHYS202
		PHYS1215	Physics I Lab	1PHYS202
		PHYS2210	Physics II	3PHYS203
		PHYS2215	Physics II Lab	1PHYS203
3 BUSINESS 0 Credite				
5. DOSINESS -9 Credits				
ACCT1020 Fundamentals of Accounting	3	MGMT3100	Management Theory and Practice	3
MARK3100 Principles of Marketing	3		in an agement in only and in a control	0
4 BASIC ENGINEERING-12 Credits				
DASIC ENGINEERING—12 cicults				
ENGR1610 Statics and Strength of Materials	3	ENGR2160	Engineering Graphics	3ENGR120
ENGR2140 Circuits and Electromagnetics	3	ENGR2180	Engineering Materials	3
5. MAJOR33 Credits				
ENGR1010 Introduction to Engineering	3ENGR100	ENGR4400	Device Control	3
ENGR3200 Value Design	3	ENGR4650	Simulation	3
ENGR3600 Production Engineering	3	*ENGR4900	Engineering Practice	3
ENGR3650 Product and Tool Design	3	*ENGR4950	Integrated Engineering Design	3
ENGR3680 Introduction to Quality Engineering	z <u>3</u>	INFS2184	C++ Programming	3CIST150
ENCD2700 Manufacturing Dianning and Contr				
ENGROPHIC Manufacturing Flamming and Control	$\frac{1}{3}$			

Choose from: ENGR3250 Automated Identification Systems, ENGR3500 Material handling and Plant Layout, ENGR3900 Optimization of Techniques of Industiral Engineering, ENGR4030 Project Engineering, ENGR4200 Safety and Methods Engineering, ENGR4700 Robotics and Automation, and/or ENGR4801 Rapid Prototyping/Reverse Engineering. Other Engineering electives may be chosen with advisor approval.

IMPORTANT NOTES:

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A cumulative Q.P.A. of 2.00 or higher is required for graduation.

A minimum grade of C must be earned in each course identified with an asterisk.

51 credits apply to this degree program.

All students must take 12 credits of Communication Skills as part of the RMU Core Curriculum. Depending upon placement testing scores, students will take COSK1220 or COSK2221 in addition to COSK1221, COSK2220, and COSK2230. If placed in COSK1220, a student's Core requirements are Communication Skills COSK1220, COSK1221, COSK2220, and COSK2230. If placed in COSK1221 (advanced placement; no credit earned for COSK1220), a student's Core requirements are Communication Skills COSK1220, a student's Core requirements are Communication Skills COSK1221, and COSK2230. Upon completion of the COSK courses, students must complete a component of courses (the specific number is determined by the student's "academic"School) to meet one of the requirements for graduation. These courses called "Communication Skills Intensive" are integrated into the degree as part of the "major" areas of the checksheet.

Major Code – MFEN

Checksheet Code – ME

Academic Year – 2016-2017

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SEMESTER BY SEMESTER BREAKDOWN OF COURSE EQUIVALENTS					
CCBC COURSES		RMU EQUIVALENT			
CRSE NO	COURSE TITLE	CRSE NO	COURSE TITLE		
First Semest	er				
CHEM101	General Chemistry I	CHEM1210	Chemistry I and Lab (CHEM1215)		
CIST100	Intro to Information Technology	INFS1020	Intro to Decision Support Systems		
MATH155	Pre-Calculus	MATH1020	Pre-Calculus (Not Applicable)		
ENGR100	Introduction to Engineering	ENGR1010	Introduction to Engineering		
CIST130	Introduction to Agile Robotics		Not Applicable		
Second Sem	ester				
CHEM102	General Chemistry II	CHEM2210	Chemistry II and Lab (CHEM2215)		
ENGR120	CAD: Computer Aided Drafting	ENGR2160	Engineering Graphics		
WRIT101	English Composition	COSK1220	Reading and Writing Strategies		
MATH160	Calculus I	MATH2070	Calculus w/Analytic Geometry I		
CIST135	Integrated Intelligent Systems		Not Applicable		
Third Semes	ter				
CIST150	C++ Programming or CIST160	INFS2184	C++ Programming		
MATH161	Calculus II	MATH2170	Analytical Calculus with Geometry II		
PHYS202	University Physics I	PHYS1210	Physics I and Lab (PHYS1215)		
LITR210	Concepts of Literature	ELIT1999	Literature Elective		
Fourth Seme	ster				
COMM201	Public Speaking	COSK2220	Public Speaking and Persuasion		
PHYS203	University Physics II	PHYS2210	Physics II and Lab (PHYS2215)		
PSYC101	General Psychology (TAOC Category Five)	PSYC1010	General Psychology		
	TAOC Category six (Any FINE, MUSI, PHIL)	HUMA1010	Humanities: Art and Music		

Students are also encouraged to take up to 18 credits from the following selection:

- SOCI210
- Any HIST or POLS course
- ACCT110 Financial Accounting
- BUSM112 Principles of Management
- BUSM245 Principles of Marketing
- BUSM255 Macroeconomics or BUSM256 Microeconomics

Maximum of 69 credits can transfer