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

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

1. ROBERT	MORRIS UNIVERSITY COR	RE41 Credits			
CHEM1215 COSK1220 COSK1221	Chemistry I Chemistry I Lab Reading and Writing Strategies Argument and Research	3CHEM101 1CHEM101 3WRIT101 3	HIST1800 or	History Elective** or Political Science Elective** HIST1100, HIST1200, HIST1500, HIST16 POLS1020) Humanities: Art and Music	3 600, HIST1700 3TRAN
COSK2230	Public Speaking and Persuasion Professional Communications Survey of Economics Literature Elective	3COMM201 3 3 3LITR210	INFS1020 *MATH2070 PSYC1010	Intro to Decision Support Systems	3CIST100 4MATH160 3PSYC101
2. MATH A	ND SCIENCE25 Credits		5001102000	intemporary / interfeat Social i Toblen	<u>15 5</u>
MATH2170	Engineering Statistics Calc with Analytic Geometry II Chemistry II/CHEM2215 Chem Lab	3 4MATH161 4CHEM102	MATH3400 MATH3420 PHYS1210 PHYS1215 PHYS2210 PHYS2215	Linear Algebra with Applications Differential Equations Physics I Physics I Lab Physics II Physics II Lab	3 3PHYS202 1PHYS202 3PHYS203 1PHYS203
2 DUONE	SS –9 Credits				
3. BUSINE	55 –9 Cleans				
ACCT1020 MARK3100	Fundamentals of Accounting Principles of Marketing	3 3	MGMT3100	Management Theory and Practice	3
ACCT1020 MARK3100 4. BASIC I	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits	3 3	MGMT3100	Management Theory and Practice	3
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics	3 3 3	MGMT3100 ENGR2160 ENGR2180	Management Theory and Practice Engineering Graphics Engineering Materials	3 3ENGR120 3
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140 5. MAJOR	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics 33 Credits	3 3 3	ENGR2160 ENGR2180	Engineering Graphics Engineering Materials	3ENGR120 3
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics 33 Credits Introduction to Engineering Value Design Production Engineering	3	ENGR2160	Engineering Graphics	3ENGR120
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140 5. MAJOR ENGR1010 ENGR3200	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics 33 Credits Introduction to Engineering Value Design	3 3 3ENGR100 3 3 3 3	ENGR2160 ENGR2180 ENGR4400 ENGR4650	Engineering Graphics Engineering Materials Device Control Simulation	3ENGR120 3
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140 5. MAJOR ENGR1010 ENGR3200 ENGR3600 ENGR3650 ENGR3680 ENGR3700	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics 33 Credits Introduction to Engineering Value Design Production Engineering Product and Tool Design Introduction to Quality Engineering	3 3 3ENGR100 3 3 3 1_3	ENGR2160 ENGR2180 ENGR4400 ENGR4650 *ENGR4900 *ENGR4950	Engineering Graphics Engineering Materials Device Control Simulation Engineering Practice Integrated Engineering Design	3ENGR120 3 3 3 3 3
ACCT1020 MARK3100 4. BASIC I ENGR1610 ENGR2140 5. MAJOR ENGR1010 ENGR3200 ENGR3600 ENGR3650 ENGR3680 ENGR3680 ENGR3700 6. APPROV Choose from: EN Engineering, EN	Fundamentals of Accounting Principles of Marketing ENGINEERING—12 Credits Statics and Strength of Materials Circuits and Electromagnetics 33 Credits Introduction to Engineering Value Design Production Engineering Product and Tool Design Introduction to Quality Engineering Manufacturing Planning and Contro	3 3 3ENGR100 3 3 3 3 13 mum ENGR3500 Mate ifety and Methods	ENGR2160 ENGR2180 ENGR4400 ENGR4650 *ENGR4900 *ENGR4950 INFS2184 rial handling and PI Engineering, ENGI	Engineering Graphics Engineering Materials Device Control Simulation Engineering Practice Integrated Engineering Design C++ Programming ant Layout, ENGR3900 Optimization of Tec R4700 Robotics and Automation, and/or ENG	3ENGR120 3 3 3 3 3CIST150

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 COSK1220, to 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

SEMESTER BY SEMESTER BREAKDOWN OF COURSE EQUIVALENTS					
	CCBC COURSES	RMU EQUIVALENT			
CRSE NO	COURSE TITLE	CRSE NO	COURSE TITLE		
First Semeste	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 Seme					
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 Semester					
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