

MINNESOTA STATE COLLEGES AND
UNIVERSITIES*
ARTICULATION AGREEMENT
BETWEEN

ANOKA-RAMSEY COMMUNITY COLLEGE
AND
SAINT MARY'S UNIVERSITY OF MINNESOTA
SCHOOLS OF GRADUATE AND PROFESSIONAL
PROGRAMS

*The Board of Trustees of the Minnesota State Colleges and Universities is authorized by Minnesota Statutes, Chapter 136F to enter into Agreements and has delegated this authority to colleges and universities.

This Agreement is entered into between ANOKA-RAMSEY COMMUNITY COLLEGE (ARCC) (hereinafter sending institution), and SAINT MARY'S UNIVERSITY OF MINNESOTA SCHOOLS OF GRADUATE AND PROFESSIONAL PROGRAMS (SMUMN) (hereinafter receiving institution). This Agreement and any amendments and supplements, shall be interpreted pursuant to the laws of the State of Minnesota.

The sending institution has established an **A.S. in Applied Engineering Technology – Biomedical Device Manufacturing** (hereinafter sending program), and the receiving institution has established a **B.S. in Business Administration – Biomedical Technology Management Specialization** (hereinafter receiving program), and will facilitate credit transfer and provide a smooth transition from one related program to another. It is mutually agreed:

Admission and Graduation Requirements

- A. The receiving institution's admission and program admission requirements apply to both direct entry students and to students who transfer under this agreement.
- B. Students must fulfill the graduation requirements at both institutions.
- C. Students must complete the entire sending program and meet the receiving institution's admission requirements for the agreement to apply.

Transfer of Credits

- A. The receiving institution will accept 60 credits from the sending program. A total of 62 credits remain to complete the receiving program (36 of these remaining credits need to be completed at Saint Mary's University).
- B. Courses will transfer as described in the attached Program Articulation Table. For system institutions, once the courses are encoded, they will transfer as described in Transferology.
- C. No credit will transfer for courses in which a grade of C- or lower was earned.
- D. No credit will transfer for courses which are pre-freshman level or remedial.
- E. Credit will not be awarded twice for the same learning, including any prior learning or life experience credit awarded.
- F. A maximum of 2.0 semester credits will be awarded for physical education activity courses.

Implementation and Review

- A. The Chief Academic Officers or designees of the parties to this agreement will implement the terms of this agreement, including identifying and incorporating any changes into subsequent agreements, assuring compliance with system policy, procedure and guidelines, and conducting a periodic review of this agreement.
- B. This Articulation Agreement is effective on **12/01/2016** and shall remain in effect until the end date of **12/01/2021** or for five years, whichever occurs first, unless terminated or amended by either party with 90 days prior written notice.
- C. The college and university shall work with students to resolve the transfer of courses should changes to either program occur while the agreement is in effect.
- D. This Articulation Agreement will be reviewed by both parties beginning **06/01/2021** (within six months of the end date).

- E. When a student notifies the receiving institution of their intent to follow this agreement, the receiving institution will encode course waivers and substitutions.

PROGRAM ARTICULATION TABLE		
	College (sending)	University (receiving)
Institution	Anoka Ramsey Community College	Saint Mary's University of Minnesota
Program name	Applied Engineering Technology – Biomedical Design & Manufacturing	Business Administration – Biomedical Technology Management Specialization
Award Type (e.g., AS)	A.S.	B.S.
Credit Length	60	122
CIP code (6-digit)	14.0501	52.0201
Describe program admission requirements (if any)		An official transcript issued to Saint Mary's University with a minimum of 30 semester credits including a basic English Composition course.

Instructions

- List all required courses in both academic programs.
- MnTC goal areas transfer to the receiving institution according to the goal areas designated by the sending institution.
- Do not indicate a goal area for general education courses that are not part of the MnTC.
- For restricted or unrestricted electives, list number of credits.
- Credits applied: the receiving institution course credit amount may be more or less than the sending institution credit amount. Enter the number of credits that the receiving institution will apply toward degree completion.
- Show equivalent university-college courses on the same row to ensure accurate DARS encoding.
- Equiv/Sub/Wav column: If a course is to be encoded as equivalent, enter Equiv. If a course is to be accepted by the university as a "substitution" only for the purposes of this agreement, enter Sub. If a course requirement is waived by the receiving institution, enter Wav. If a course is to be accepted by the university as a MnTC goal area, restricted elective or unrestricted elective, leave the cell blank.

(To add rows, place cursor outside of the end of a row and press enter.)

SECTION A - Minnesota Transfer Curriculum-General Education

College (sending)			University (receiving)			
course prefix, number and name	Goal(s) ¹	Credits	course prefix, number and name	Goal(s) ¹	Credits Applied	Equiv Sub Wav
Minnesota Transfer Curriculum-General Education						
Goal 1: Communication: ENGL 1120 Crosscurrent College Writing & Critical Reading or ENGL1121 College Writing & Critical Reading	1,2	4	Written Communication		4	Sub
Goal 1: Communication CMST 2251 Public Speaking	1,2	3	Oral Communication		3	Sub
Goal 2: Critical Thinking: (met by ENGL1121)	2	0-2	(Various competency areas depending on the course)		0-2	Sub
Goal 3 Natural Sciences: BIOL 1104 The Human Body–Structure & Function; and PHYS 1317 General Physics I	3	4 3	Science		7	Sub
Goal 4: Mathematics: MATH 1110 Introduction to Statistics,	4	3	Mathematics		10	Sub

¹ MnTC goal areas transfer to the receiving college/university according to the goal areas designated by the sending college/university

MATH 1200 College Algebra, and MATH 1201 College Algebra & Trigonometry		3 4				
Goal 5: History and the Social and Behavioral Sciences: PSYC 1110 General Psychology	5,7	4	Historical, Social, and Behavioral Sciences		4	Sub
Goal 6: Humanities and Fine Arts	6	0-2	Humanities and Fine Arts		0-2	Sub
Goal 7: Human Diversity	7	0-2	Global Human Perspectives		0-2	Sub
Goal 8: Global Perspectives	8	0-2	Global Human Perspectives		0-2	Sub
Goal 9: Ethical/Civic Responsibility	9	0-2	Ethics and Civic Responsibility		0-2	Sub
Goal 10: People and the Environment	10	0-2	(Various competency areas depending on the course)		0-2	Sub
At least one course in six of the ten goal areas must be completed. One course may satisfy more than one emphasis area, but course credits may be counted only once.	1-10	0-2	(Various competency areas depending on the course)		0-2	Sub
MnTC/General Education Total		30				

Special Notes, if any: Some SMU general education competencies are fulfilled by SMU core program or elective courses.

SECTION B - Major, Emphasis, Restricted and Unrestricted Electives or Other

(pre-requisite courses, required core courses, required courses in an emphasis, or electives (restricted or general) within the major). Restricted electives (in Major) fulfill a specific requirement within a major. Example A: "Chose two of the following three courses;" Example B: A Biology degree may require 40 science credits (20 credits of required courses + 20 credits of listed related courses, such as botany, genetics, sociobiology, etc. which students can select).

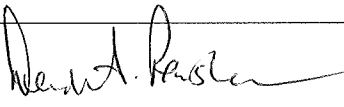
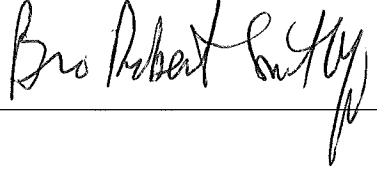
Major, Emphasis, Restricted, Unrestricted Electives or Other Courses				
AENG2225 Digital Electronics	3	Unrestricted electives	30	
AENG2230 Electromechanical Devices	3			
AENG2235 Instrumentation & Control	3			
BMED1100 Introduction to Biomedical Devices/Industry	2			
BMED2100 Design & Manufacturing in the Medical Device Industry	3			
BMED2200 Intro to Medical Device Regulations Ethics	3			
BMED2297 Capstone Experience & Seminar	4			
BMED2300 Introduction to Quality Assurance for Medical Devices	3			
BMED2520 Technical Writing for Regulated Industries	3			
ENGR1111 Engineering Graphics	3			
**Restricted elective credits - list courses (if none enter 0)	0			
**Unrestricted elective credits (if none enter 0)	0			
Major, Emphasis, Unrestricted Electives Total	30			Total College Credits Applied (sum of sections A and B)

SECTION C - Remaining University (receiving) Requirements

	course prefix, number and name	Credits
	BU300 Accounting Principles	3
	BU403 Applied Business Statistics	3
	BU400 Business Law	3
	BU407 Financial Management	3
	BU460 Engineering Economics	3
	BU477 Biomedical Technology Management	3
	IT301 Information Technology Management	3
	MK300 Principles of Marketing	3
	MK430 Product Life Cycle Management	3
	MG305 Managerial Ethics	3
	MG410 Applied Leadership and Management <u>OR</u> MG412 Critical Thinking for Organizational Leaders	3
	MG415 Total Quality & Team Development	3
	MG450 Operations Management	3
	BU490 Strategic Management Capstone	3
	COM309 Professional Writing	3
	COM310 Oral Communications	3

	Required MAJOR Elective (See Catalog for options)	0
	**Students will meet with a Saint Mary's advisor to determine additional elective courses from SMU, ARCC, or other institutions, that might be needed for the program.	14
		62
Special Notes, if any:		

SECTION D - Summary of Total Program Credits			
College (sending) Credits		University (receiving) Requirements	
MnTC/General Education	30		
Major, Emphasis, Unrestricted Electives or Other	30		
Total College Credits	60	Total College Credits Applied	60
		Remaining credit to be taken at the university (receiving institution)	62
		Total Program Credits	122
<p>Special Notes: * Saint Mary's University (SMU) requires that students complete a minimum of 48 semester credits at SMU (SMU's minimum residency requirement), and 122 credits total, to earn the Bachelor of Science in Business Administration – Biomedical Technology Management Specialization degree. The remaining 74 credits can be completed at Anoka-Ramsey Community College. Credit for prior learning, military training, and standardized exams such as CLEP and DANTES can also count toward fulfilling the 74 non-SMU credit requirement. Courses completed at colleges and universities other than Anoka-Ramsey Community College are also considered for credit transfer into SMU.</p>			

College	Name	Signature	Date
Chief Academic Officer			
Vice President of Academic Affairs	Deidra Peaslee, Ph.D.		10/28/16
Title			
University	Name	Signature	Date
Chief Academic Officer			
Vice President of the Schools of Graduate and Professional Programs	Robert Smith, FSC, Ph.D.		10-5-16
Title			
DARS Encoder			
Date when equivalencies were encoded in DARS by the receiving MnSCU institution.			