

# *TRANSFER ARTICULATION AGREEMENT*

---

**Quinsigamond Community College**

*and*

**Fitchburg State University**

**Manufacturing Technology**

**to**

**Engineering Technology  
(Manufacturing Concentration)**

Quinsigamond Community College and Fitchburg State University agree to enter into a transfer agreement for the following academic disciplines:

***Manufacturing Technology Associate in Science (MP)***  
***to***  
***Engineering Technology (Manufacturing Engineering Technology Concentration)***

**Purpose**

This agreement is set forth by Quinsigamond Community College and Fitchburg State University in an effort to delineate a transfer student's best options in course selection. This document signifies the ongoing commitment between these institutions of higher education to promote coordinated curricula of the highest quality. As such, it bears with it the commitment of our respective faculty, and administrative staff to strengthen these ties and address the needs of our students in a mutually beneficial manner.

**Terms and Conditions of Transfer**

- A. Students graduating from the Quinsigamond Community College's Manufacturing Technology Associate in Science (MP) program, with a qualitative grade point average of 2.0 or greater, and upon completion of FSU's admissions requirements, are guaranteed acceptance into the Engineering Technology major.
- B. In addition, 65-67 credits of the completed QCC College's Manufacturing Technology degree will be accepted and applied to FSU's Engineering Technology (Manufacturing Engineering Technology Concentration) program. All coursework from the sending program must be completed with grades of C- or higher in order to transfer.
- C. Quinsigamond Students will be advised to complete the prescribed coursework, and electives, as listed in the attached program grid (Appendix A). Failure to follow these recommendations may affect guarantee of admission, and will result in additional coursework requirements and longer time to degree completion at Fitchburg State.
- D. Acknowledging that students may, and do transfer from a wide variety of majors, this agreement does not prohibit transfer to or from other programs of study at either institution. This agreement suggests optimal transfer routes from Quinsigamond Community College to Fitchburg State University.

This agreement is effective upon date of signature and will remain in effect for three (3) years from that date, with the provision that the terms specified herein will continue to apply to graduates who transfer from Quinsigamond Community College to Fitchburg State University in either the day or evening division, within one year of the expiration of this agreement. The faculty at both institutions agrees to meet annually to review the agreement and discuss modifications.

**For: Quinsigamond Community College**

DocuSigned by:



7A64E1641D45446...

Dr. Luis G. Pedraja  
President

DocuSigned by:



7CCF1766815040F...

Dr. James Keane  
Vice President of Academic Affairs

DocuSigned by:



507585984DDB4A8...

Betty Lauer  
Dean of the School of Business,  
Engineering and Technology

DocuSigned by:



C77906DAGAGE457...

Lee Duerden  
Coordinator of the Manufacturing  
Technology Program

DocuSigned by:



AB7FDB1F3E7F414...

Dr. Daniel de la Torre  
Coordinator of Transfer & Articulation

**For: Fitchburg State University**

DocuSigned by:



AB3F974AA0C44D1...

Dr. Richard S. Lapidus  
President

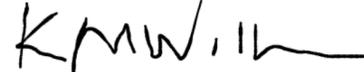
DocuSigned by:



3179BC24BC9945F...

Dr. Alberto J. F. Cardelle  
Provost and Vice President for  
Academic Affairs

DocuSigned by:



70F4EB9D83DE4A8...

Dr. Keith Williamson  
Dean of the School of Business and Technology

DocuSigned by:



DF0D92FBA0C54AC...

Dr. Sanjay Kaul  
Chairperson, Engineering Technology

DocuSigned by:



AA442F7C1F5644C...

Heather Thomas  
MassTransfer Coordinator

12/9/2020

Date of Signature: \_\_\_\_\_

## Appendix A

*Associate in Manufacturing Technology*  
to  
*Bachelor of Science in Engineering Technology*

**Engineering Technology – Manufacturing**  
**Quinsigamond Community College**

---

**LA&S – Writing**

Fitchburg State University	QCC	Cr
ENGL 1100 Writing I	ENG 101	3
ENGL 1200 Writing II	ENG 102	3

**LA&S Social Science**

Fitchburg State University	QCC	Cr
History Elective (HIST)		3
PSY/SOC LA&S Elective (HMN)		3
ECON 1100 Macro-Economics		3

**LA&S – Hum & Fine Arts\***

Literature Elective (LIT)		3
Art or Music Elective (AOM)		3
Art Elective (ART)		3

**LA&S- Science and Technology**

CHEM 1300 Gen Chemistry		4
PHYS 2300 Gen Physics I	PHY 101	4
PHYS 2400 Gen Physics II	PHY 102	4
EXSS 1100 Health & Fitness		3

**LA&S - Math**

MATH 1300 Precalculus	MAT 147 Recommended	4
MATH 1700 Applied Statistics	MAT 148 Recommended	4
MATH 2100 Technical Calculus		3

**LA&S – Advanced Option C**

Covered by PHYS 2300, PHYS 2400, ECON 1100 and MATH 1700.		

**Engineering Tech - Core**

ENGT 1700 Evol of Tech (CTW, GDC)		3
ENGT 1000 Elec Sys & Circuits		3
ENGT 1020 Engr Graphics	MNT 103	3
ENGT 2020 Statics & Dynamics		3
ENGT 2025 Strength of Matls		3
ENGT 1050 Tech Analysis		3
ENGT 1040 Software Appl in ET	CIS 111	3
ENGT 2030 Materials Testing	MNT 106	3
ENGT 3030 MEP & HVAC Sys	MNT 115	3
ENGT 3000 Energy & Sust Practice		3
ENGT 2000 Fluid Mech & Thermo Lab		3
ENGT 3035 OSHA Safety Lab	MNT100	3
ENGT 4700 Proj Mgmt Lab	MNT 299	3
ENGT 3025 Engr Design Fab I	MNT 110	3
ENGT 3026 Engr Design Fab II	MNT 210	3
ENGT 4903 Engr Tech Capstone		3

**Manufacturing - Concentration**

ENGT 3040 Metrology		4
ENGT 3041 Mfg Process & Systems		3
ENGT 3042 Enterprise Resource Plan System		4
ENGT 3110 Robotics & Mechatronics	MNT 215 & MNT 217	4
ENGT 4000 Quality Concepts & Lean Six Sigma	MNT 216 & MNT 218	4
ENGT 4025 Indust Sys Automation		4

\*Students will need to choose a course in the Arts section which will also meet the Global Diversity requirement (GDAN).

Courses highlighted in yellow are ones we are recommending students choose to take at QCC. Courses highlighted in blue are being substituted by the department.

## Appendix A

**Quinsigamond Community College and Fitchburg State University**  
**QCC Manufacturing Technology**  
**to**  
**Engineering Technology – Manufacturing Engineering Technology Program Articulation Table**

QCC Course	Course #	Credits	Fitchburg State Course	Course #	Credits
Introduction to Microcomputer Applications	CIS 111	3	Software Appl in ET	ENGT 1040	3
College Mathematics I: Pre-Calculus <b>or</b> Mathematics for Technicians I <b>Recommend MAT 147 Mathematics for Technicians I</b>	MAT 123 <b>or</b> <b>MAT 147</b>	3-4	<b>Substitute for Precalculus</b>	MATH 1300	4
Manufacturing Safety	MNT 100	3	OSHA: Safety & Risk Management	ENGT 3035	3
Mechanical CAD I	MNT 101	3	Transfer Elective	ENGT 1990	3
Basic Machine Operation	MNT 108	3	Transfer Elective	ENGT 1990	3
<b>Semester 2</b>					
Composition I	ENG 101	3	Writing I	ENGL 1100	3
College Mathematics II: Trigonometry <b>or</b> Mathematics for Technicians II <b>Recommend MAT 148 Mathematics for Technicians II</b>	MAT 124 <b>or</b> <b>MAT 148</b>	3-4	<b>Substitute for Applied Statistics + MATH elective</b>	MATH 1700	3 + 1
Quality	MNT 106	3	Materials Testing	ENGT 2030	3
Manufacturing Materials and Processes	MNT 110	3	Engineering Design Fab I	ENGT 3025	3
Maintenance and Instrumentation in Manufacturing	MNT 115	3	MEP & HVAC Systems	ENGT 3030	3
<b>Semester 3</b>					
Pre Cooperative Education Seminar	CPS 298	0			
Composition II <b>or</b> Technical Writing	<b>ENG 102</b> <b>or</b> ENG 105	3	<b>Recommend ENG 102 = Writing II</b>	ENGL 1200	3
Solid Modeling	MNT 103	3	Engineering Graphics	ENGT 1020	3
CNC Programming	MNT 210	4	Engineering Design Fab II + ENGT elective	ENGT 3026	4
Physics I	PHY 101	4	General Physics I	PHYS 2300	4
<b>Semester 4</b>					
Computer-Aided Manufacturing + Process Automation & Robotics	MNT 215 + MNT 217	4 + 3	Robotics & Mechatronics + ENGT elective	ENGT 3110	4 + 3
Manufacturing Capstone Project + Lean Manufacturing and Six Sigma	MNT 216 + MNT 218	4 + 3	Quality Concepts & Lean Six Sigma + ENGT elective	ENGT 4000	4 + 3
Cooperative Work Experience & Seminar	MNT 299	3	Proj Mgmt Lab	ENGT 4700	3
Physics II	PHY 102	4	General Physics II	PHYS 2400	4
Total credits		65-67			67

## Appendix A

## Courses left to complete at Fitchburg State University

Course #	Course Title	Credits	Comments
	<b>Courses in Major</b>		
ENGT 1700	Evolution of Technology (CTW, GDC)	3	
ENGT 1000	Electric Systems & Circuits	3	
ENGT 2020	Statics & Dynamics	3	
ENGT 2025	Strength of Materials	3	
ENGT 1050	Tech Analysis	3	
ENGT 3000	Energy & Sustainable Practice	3	
ENGT 2000	Fluid Mechanics & Thermodynamics Lab	3	
ENGT 4093	Engineering Technology Capstone	3	
ENGT 3040	Metrology	4	
ENGT 3041	Manufacturing Process & Systems	3	
ENGT 3042	Enterprise Resource Plan System	4	
ENGT 4025	Industrial System Automation	4	
	<b>Major Specific Liberal Arts &amp; Science Courses</b>		
CHEM 1300	General Chemistry I	4	
ECON 1100	Macroeconomics	3	
MATH 1300	Precalculus	(0-4)	Covered by MAT 147 or both MAT 123 & 124
MATH 1700	Applied Statistics	(0-3)	Covered by MAT 148 at QCC
MATH 2100	Technical Calculus	3	
	<b>General Education Courses</b>		
EXSS 1100	Health and Fitness	3	
ENGL 1200	Writing II	(0-3)	Covered by ENG 102 at QCC
	Literature (LIT)*	3	
	Art or Music Elective (AOM)*	3	
	Art Elective (ART)*	3	
	History Elective (HIST)	3	
	Human Behavior Elective(CTW, HMN)	3	
	Global Diversity (GDAN)		*Students will need to choose a course in the Arts section which will also meet the Global Diversity requirement (GDAN)
Total credits		67	As little as 67 credits left to complete if students follow agreement.