

**A STATEMENT OF COLLABORATIVE ARRANGEMENTS BETWEEN MOUNT WACHUSETT
COMMUNITY COLLEGE AND WORCESTER STATE UNIVERSITY**

Whereas, the Massachusetts Department of Higher Education strongly endorses transfer articulation between the community colleges and state universities: and

Whereas, Mount Wachusett Community College and Worcester State University are located in close proximity: and

Whereas, the mission of both institutions is dedicated to regional access and to affordable quality education for citizens of Central Massachusetts: and

Whereas, there has been a natural transfer of a significant number of students between these two institutions: and

Whereas, both institutions support a collaborative relationship that will produce and offer a unique and effective educational opportunity to all students: and

Whereas, both institutions recognize that in an era of declining resources regional collaboration will lead to innovation in educational productivity.

Therefore Worcester State University and Mount Wachusett Community College agree to engage in a collaborative compact to:

1. Provide educational access to students through an articulation transfer to the Biotechnology Program at both institutions. Students should be able to complete their degree requirements for the B.S. in Biotechnology within two years.
2. Establish an effective articulation advisory system to affect smooth and trouble-free course planning at both institutions along with the development of curriculum guides and program brochures.
3. Publish and highlight this articulation agreement in the respective college catalogues and other appropriate publications.

Mount Wachusett Community College Associate of Science in <u>Biotechnology/Biomanufacturing</u>			Worcester State University Bachelor of Science in <u>Biotechnology</u>		
Credits	Course number	Course name	Credits	Course number	Course name
4	BIO 109	Biology I	4	BI 101	Concepts of Biology
4	CHEM 207	General Chemistry I	4	CH 120	General Chemistry I
3	ENG 101	English Composition	3	EN 101	English Composition
3	CIS 127	Computer Technologies	?	?	?
4	BTC 101	Introduction to Biotechnology	--	--	--
4	CHEM 208	General Chemistry II	4	CH 121	General Chemistry II
3	ENG102	English Composition II	3	EN 102	English Composition II
3	MAT134	College Algebra	4	MA 110	College Algebra
4	BTC185	Industrial Microbiology	4	BI 204	Microbiology
7	BTC 110 (4 credits) and BTC102 (3 credits)	Biotechnology Experience : Concepts and Procedures Basic Solutions and Media Prep	4		Biotechnology elective
3	HUM 212	Medical Ethics	?	?	?
4	BTC 120	Biotechnology Experience: Biomanufacturing	*		
3	BTC 191	Quality and Compliance	--	--	--
3	BTC 200	Biotechnology Seminar (Capstone Course)	--	--	--
2/3		Health Elective	?	?	?
		Professional Elective Including any <u>one</u> of the following:			
4	BIO 170	Cell Biology	4	BI141	Introduction to Cell and Molecular Biology
4	BTC 170	Cell Culture Techniques	--	--	--
4	BTC 180	Instrumental Analysis	--	--	--
3	ENG 106	Technical Writing	3	EN 252	Technical Writing
3	MAS 208	Principles of Pharmacology	--		--
3	MAT 163 (or higher)	Pre-Calculus	4	MA 190	Pre-Calculus
74-75					
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60/62	Total additional credits at MWCC				

			Four-year courses to be completed at Four-Year College		
			4	MA 201	Calculus I
			4	MA 202/BI 203	Calculus II or Genetics
			4	PY 221	Physics I
			4	PY 222	Physics II
			5	CH 201 & CH 203	Organic Chemistry I with lab
			4	CH 202	Chemical Analysis
			4	BT 375	Tissue Culture
			4	BT 376	Biotechnology*
			4	CH 410	Biochemistry
			4-6		Internship or Elective
			1	BT 410	Senior Seminar
			12		4 Gen Ed Electives
			4		Pre-calculus or Cell Biology
			xxxxxxx	Total credits for four-year degree	

* Contains elements covered in our BTC 101, 110 and 120 classes

Blue shaded - not sure which of these will transfer as electives or if there are aligned courses at WSU