

Course Listings: UMBC Translational Life Science Technology (TLST) B.S. Program		
Major		Credits
BTEC 300	Translational Life Science Technology Survey(WI)	3
BTEC 303	Applied Cell Biology	4
BTEC 310	Instrumentation & Methods for the Biotechnology Lab	3
BTEC 330	Software Applications for the Life Sciences	3
BTEC 344	Epidemiology	3
BTEC 350	Statistics for the Life Sciences	4
BTEC 395	Translational Bioinformatics	4
BTEC 430	Translational Biochemistry & Molecular Biology	4
BTEC 444	Translational Cancer Biotechnology	3
BTEC 453	Biochemical Engineering	4
BTEC 462	Bioprocess Design & Control	4
BTEC 470	Advanced Bio-manufacturing	4
BTEC 495	Professional Internship/Project-based Course (3 cr., 2 x)	6
<b>Supporting Courses:</b>		
CHEM 101	Principles of Chemistry I	4
CHEM 102	Principles of Chemistry II	4
CHEM 102L	Introductory Chemistry Laboratory	2
CHEM 351	Organic Chemistry I	3
CHEM 351L	Organic Chemistry Lab	2
BIOL 141	Foundations of Biology: Cells, Energy & Organisms	4
BIOL 142	Foundations of Biology: Ecology and Evolution	4
BIOL 275	Microbiology	3
BIOL 300L	Experimental Biology	2
BIOL 302	Molecular and General Genetics	4
PHYS 111 or PHYS 121	Introductory Physics (algebra-based) or Introductory Physics (calculus-based)	4
<b>General Education Requirements:</b>		
ENGL 100	Composition	3
MATH 155 or MATH151	Applied Calculus or Calculus I	4
Arts & Humanities	Three courses	9
Social Sciences	Three courses	9
Sciences + Lab	Above coursework meet requirements	
Cultural	One course	3
Language	One course at the 201 level	4
Electives	As needed, especially to meet prerequisites	3
	Total Credits	120
	<i>Does not include Physical Education credits</i>	