

CATALOG ADDENDUM

Catalog 2017-18

Re: Correction to course and credit hour requirements for the
Biotechnology –AS program

Effective Fall 2017

This addendum reflects the addition of BY290 Biomanufacturing Internship-5 credit hours that is required for this degree. The addition of this course changes the required hours to 69.

BIOTECHNOLOGY

ASSOCIATE IN SCIENCE

MAJOR CODE: BIOT

Your Butler experience will provide you with the basic general education requirements and background work necessary to transfer to a four-year college. Work closely with your advisor since specific requirements differ with each institution.

MINIMUM GENERAL EDUCATION HOURS REQUIRED			32
Communication			
<input type="checkbox"/> English Comp	EG 101		3
<input type="checkbox"/> English Comp II	EG 102		3
<input type="checkbox"/> Public Speaking <i>or</i> Interpersonal Communication	SP 100		3
	SP 102		
Science and Math*			
<input type="checkbox"/> General Biology <i>or</i>	BI 110		5
<input type="checkbox"/> Majors Biology I (Cell)	BI 215		
<input type="checkbox"/> Microbiology	BI 250		5
<input type="checkbox"/> College Algebra w/Review	MA 131	<i>or above</i>	3-5
Social/Behavioral Science			
<input type="checkbox"/> Sociology			3
<input type="checkbox"/> Social Science Course			3
Humanities/Fine Arts			
<input type="checkbox"/> Fine Arts Course			3
<input type="checkbox"/> Humanities Course			3
Fitness and Wellness			
<input type="checkbox"/> One fitness activity or dance course			1
BCC Required Courses			22
<input type="checkbox"/> Laboratory Safety Lab	BY 226		1
<input type="checkbox"/> Biotechnology Techniques Lab	BY 251		2
<input type="checkbox"/> Molecular Techniques Lab	BY 261		3
<input type="checkbox"/> Cell Culture Techniques Lab	BY 271		3
<input type="checkbox"/> Biomanufacturing Techniques Lab	BY 281		3
<input type="checkbox"/> Biomanufacturing Internship	BY 290		5
<input type="checkbox"/> College Chemistry I	CH 110		5
MATC Required Courses			15
(These MATC courses are offered online and <i>must</i> be completed through them.)			
<input type="checkbox"/> Laboratory Operations	BIO 210		4
<input type="checkbox"/> Laboratory Safety	BIO 225		2
<input type="checkbox"/> Biotechnology Techniques	BIO 250		3
<input type="checkbox"/> Molecular Techniques	BIO 260		2
<input type="checkbox"/> Cell Culture Techniques	BIO 270		2
<input type="checkbox"/> Biomanufacturing Techniques	BIO 280		2

*Note: Credit hours that exceed the minimum general education requirements in math and science may be applied to required related electives where applicable.

Credit Hours: 69

Contact: Alan Brown
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arbrown@butlercc.edu or
Susan Forrest
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Program Information

The Associate in Science in Biotechnology is flexibly designed for students to pursue either of two pathways: Earn an Associate degree in Biotechnology and join the workforce, or transfer to a four-year college already trained to effectively function in a bioscience laboratory. Learned skills are applicable to earning a bachelor degree in bioscience fields including: biology, biotechnology, medical technology, environmental science, and related fields. Both Associates and Bachelor degrees are applicable to jobs in healthcare, environmental science, bioscience research, bio-manufacturing, biofuels, food science/food quality control, diagnostics, drug development/manufacture, microbiology, forensics and veterinary medicine. Biotechnology jobs involve hands-on technical skills, inquiry, and problem solving. If you are interested in a career that engages both the hands-on "do it" part of you and you like to problem solve and know how living things work, this program will get you started.

MANHATTAN AREA TECHNICAL COLLEGE (MATC)

Partnership in Biotechnology

Butler Community College has a partnership with Manhattan Area Technical College. This partnership is connected to their BIOTEKS (biotechnology Training in Kansas) program. We offer the lab components for the Advanced Biotechnology Certificate (ABC). Biotechnology is a rapidly growing field that is creating an increased need for skilled laboratory and biomanufacturing technicians. Students interested in this area of study should contact Alan Brown at Butler Community College.

Related Programs

Pre-medicine, Medical Lab Technician

Recommended Course Sequence

First Semester

EG101, SP100, CH110, MA131 or above, Fitness and Wellness Activity or Dance Course

Second Semester

BI110, EG102, Humanities Course, Social Sciences Course

Third Semester

BI120 or BI215, Behavioral Science Course, Fine Arts Course

Fourth Semester

Any remaining requirements

After Butler

Biotechnology Associate graduates will have skills making them competitive for entry level laboratory technician jobs in disciplines that include: wildlife biology, pharmacy labs, medical technology labs, medical technology labs, veterinary labs, environmental labs, biology research labs, and biomanufacturing businesses. For those pursuing Bachelors or other professional degrees, a Biotechnology associates degree should competitively position its holders for entrance into those programs.

Wages

Salary/hourly rates are dependent on skill level, experience and location