

## Biotechnology (Greenhouse Production)

DMACC Degree Awarded: Associate in Applied Sciences

Grand View Degree Awarded: Bachelor of Arts

This completion plan is designed for students pursuing an AAS in Biotechnology – Greenhouse Production at DMACC and planning to transfer to Grand View to earn a BA in Biotechnology. GV Core Seminars, Composition, and Quantitative Reasoning requirements are included on this plan, but students must fill in the remaining Core Curriculum requirements, any additional major and/or minor requirements, and electives and upper division courses.

All GV students must complete the GV Core, earn 124 credits, with 30 upper division credits and the last 30 credits at Grand View in order to graduate. Major courses taken at GV will be counted in computing the 2.2 major GPA required for this major.

### Semester 1 at DMACC

Class	Designation	Credits	GV Equivalent	Notes
The College Experience	SDV 108	1	GNEL ELE	
Composition I	ENG 105	3	ENGL 100	
General Biology I	BIO 112	4	BIOL 101	
Soil Science for Horticulture	AGH 146	3	VOCA 100	
Soil Fertility for Horticulture	AGH 147	1	VOCA 100	
Introduction to Horticulture or Principles of Horticulture or Introduction to Botany	AGH 106 or AGH 221 or BIO 135	3 or 3 or 4	VOCA 100 or VOCA 100 or BIOL 225	
	<b>TOTAL</b>	<b>15-16</b>		

### Semester 2 at DMACC

Class	Designation	Credits	GV Equivalent	Notes
General Biology II	BIO 113	4	BIOL 102	
Introduction to Greenhouse	AGH 132	3	VOCA 100	
Plant Propagation I	AGH 233	3	VOCA 100	
Introduction to General Chemistry or General/Inorganic Chemistry I	CHM 122 or CHM 165	4	CHEM 103 or CHEM 111	Take CHM 165
	<b>TOTAL</b>	<b>14</b>		

### Semester 3 at DMACC

Class	Designation	Credits	GV Equivalent	Notes
Statistics	MAT 157	4	STAT 241	
Microbiology	BIO 186	4	BIOL 256	
Insects and Diseases	AGH 253	3	VOCA 100	
	<b>TOTAL</b>	<b>11</b>		

### Semester 4 at DMACC

Class	Designation	Credits	GV Equivalent	Notes
Composition II	ENG 106	3	ENGL 101	
Genetics	BIO 146	3	BIOL NWN	
Greenhouse Production I	AGH 133	3	VOCA 100	
Pesticide Application Cert.	AGH 283	2	VOCA 100	
Intro to Organic/Biochemistry or General/Inorganic Chemistry II	CHM 132 or CHM 175	4	CHEM 107 or CHEM 112	Take CHM 175
	<b>TOTAL</b>	<b>15</b>		

This information must be used in conjunction with the 2019-2020 Grand View University Catalog and does not reflect a student's official record of progress. Students are expected to use the Progress tool found on myView > GV Self Service when monitoring and planning coursework. Other available resources include: Course Planning Documents (found on myView under Academics) and the faculty and staff who work with academic requirements.

### Semester 5 at DMACC

Class	Designation	Credits	GV Equivalent	Notes
Biotechnology Internship	BIO 249	2-3	BIOL 399	Lower division credit
Cell and Molecular Bio-Nucleic Acids	BIO 250	5	BIOL 401 and BIOL 415	Lower division credit
Cell and Molecular Bio-Proteins	BIO 251	5		
AAS Core Social and Behavioral Science/Humanities course		3		See <a href="#">DMACC/GV Core Options</a>
	<b>TOTAL</b>	<b>15-16</b>		

### Semester 1 at Grand View

Class	Designation	Credits	Outcome Iterations	Notes
College Algebra	MATH 121	3	CI, Q	
Journal Club	BIOL 250	1		
Biotechnology	BIOL 285	3	CI, GA	
Plant Biology	BIOL 225	4		
Core course		3		
	<b>TOTAL</b>	<b>14</b>		

### Semester 2 at Grand View

Class	Designation	Credits	Outcome Iterations	Notes
Plant Physiology	BIOL 325	4		Or take BIOL 335 Semester 3*
Cell Biology	BIOL 380	4	Q	
Core Seminar II	LIBA 300	3	CI, IL, Q, GA	
Core or Elective		3		
	<b>TOTAL</b>	<b>14</b>		

### Semester 3 at Grand View

Class	Designation	Credits	Outcome Iterations	Notes
Genetics	BIOL 360	4	Q, GA	
Physiology	BIOL 335	4		Or take BIOL 325 Semester 2*
Organic Chemistry I	CHEM 321	5		
Core or Elective		2		
	<b>TOTAL</b>	<b>15</b>		

### Semester 4 at Grand View

Class	Designation	Credits	Outcome Iterations	Notes
Senior Seminar	BIOL 450	2	CI, IL, W, O, V	
Core Seminar III	LIBA 450	3	CI, O, V	
Core or Elective		10		
	<b>TOTAL</b>	<b>15</b>		

\*Students will only need to take one of these courses.

### Core Outcome Iterations

CI = Critical Inquiry; IL = Information Literacy; W = Written Communication; O = Oral Communication  
Q = Quantitative Communication; GA = Global Awareness; V = Vocation

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