





# College of Agriculture, Food and Environment

Agricultural and Medical Biotechnology

Example Curriculum for  
Students starting Fall 2016  
Math 123 in their first year

<u>Fall year 1</u>		<u>Spring Year 1</u>	
MA 123	Elementary Calculus and its Applications 4 -UK Core VII-	CHE 107	General College Chemistry II 3
ABT 101	Intro to Biotechnology 1	CHE 113	General College Chemistry II Lab 2
GEN 100	Issues in Ag -UK Core IX- 3	ABT 120	Genetics and Society 3
CHE 105	General College Chemistry I 4 -UK Core IV-	BIO 148	Introductory Biology I 3
CHE 111	General College Chemistry I Lab 1 -UK Core IV-	Elective	3
CIS 110	Composition and Communication I 3 -UK Core V-	CIS 111	Composition and Communication II 3 -UK Core VI-
Total	16	Total	17

<u>Fall year 2</u>		<u>Spring Year 2</u>	
CHE 230	Organic Chemistry I 3	CHE 232	Organic Chemistry II 3
CHE 231	Organic Chemistry I Lab 1	CHE 233	Organic Chemistry II Lab 1
CHE 295	Organic Chemistry I Workshop <sup>(optional)</sup> 1	(Optional Organic Chemistry II Workshop)	
BIO 152	Principles of Biology II 3	UK Core <sup>1</sup> II	3
BIO 155	Biology Lab 1	UK Core <sup>1</sup> III	3
Elective	3	Elective	3
ABT 201	Scientific Method in Biotechnology 1 (only after 30 hrs)	STA 296	Statistical Methods and Motivations <sup>4</sup> 3 -UK Core VIII-
UK Core <sup>1</sup> I	3		
Total	16	Total	16

<u>Fall year 3</u>		<u>Spring Year 3</u>	
PHY 211	General Physics I 5	PHY 213	General Physics II 5
SS <sup>2</sup> - 1	Specialty Support Course 3	BIO 308	General Microbiology 3
ABT 360 <sup>3</sup>	Genetics 3	BIO 209	Introductory Microbiology Lab 2
ABT 301	Writing & Presentation in the Life Sci 2	BCH 401G	Fundamentals of Biochemistry 3
UK Core X	3	SS <sup>2</sup> - 2	Specialty Support Course 3
Total	16	Total	16

<u>Fall year 4</u>		<u>Spring Year 4</u>	
ABT 495	Experimental Methods in Biotechnology 4	ABT 460	Introduction to Molecular Genetics 3
ABT 395	Independent Study in Biotechnology 3	ABT 461	Introduction to Population Genetics 3
SS <sup>2</sup> - 3	Specialty Support Course 3	SS <sup>2</sup> - 5	Specialty Support Course 3
SS <sup>2</sup> - 4	Specialty Support Course 3	SS <sup>2</sup> - 6	Specialty Support Course 3
Elective	3	SS <sup>2</sup> - 7	Specialty Support Course 3
Total	16	Total	15

MINIMUM TOTAL NEEDED = 128 credit hours

<sup>1</sup>UK Core—for list of acceptable courses, check the UK 2016-2017 Bulletin pgs 97-103

<sup>2</sup>Specialty Support course—for list of acceptable courses, check APEX, myUKGPS and check with your advisor.

<sup>3</sup>BIO 304 (4hrs) can substitute for ABT 360 (3hrs)

<sup>4</sup>Check with your advisor for possible changes to the list



# College of Agriculture, Food and Environment

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Example Curriculum for  
Students starting Fall 2016  
Math 113 in their first year

<u>Fall year 1</u>				<u>Spring Year 1</u>			
MA 113	Calculus I	-UK Core VII-	4	CHE 107	General College Chemistry II		3
MA 193	Calculus I Workshop		1	CHE 113	General College Chemistry II Lab		2
	OR			CHE 197	General Chemistry II Workshop		1
MA 137	Calculus for the Life Sciences		4	ABT 120	Genetics and Society		3
		-UK Core VII-		BIO 148	Introductory Biology I		3
ABT 101	Intro to Biotechnology		1	BIO 155	Lab for Introductory Biology I		1
GEN 100	Issues in Ag	-UK Core IX-	3	CIS 111	Composition and Communication II		3
CHE 105	General College Chemistry I		4			-UK Core VI-	
		-UK Core IV-					
CHE 111	General College Chemistry I Lab		1				
		-UK Core IV-					
CIS 110	Composition and Communication I		3				
		-UK Core V-					
Total			16-17	Total			16

<u>Fall year 2</u>				<u>Spring Year 2</u>			
CHE 230	Organic Chemistry I		3	CHE 232	Organic Chemistry II		3
CHE 231	Organic Chemistry I Lab		1	CHE 233	Organic Chemistry II Lab		1
CHE 295	Organic Chemistry I Workshop <sup>(optional)</sup>		1	(Optional CHE 297 Organic Chemistry II Workshop)			
BIO 152	Principles of Biology II		3	UK Core <sup>1</sup> II			3
Elective			3	UK Core <sup>1</sup> III			3
ABT 201	Scientific Method in Biotechnology		1	STA 296	Statistical Methods and Motivations <sup>4</sup>		3
	(only after 30 hrs)					-UK Core VIII-	
				Elective			3
UK Core <sup>1</sup> I			3				
Total			15	Total			16

<u>Fall year 3</u>				<u>Spring Year 3</u>			
PHY 211	General Physics I		5	PHY 213	General Physics II		5
SS <sup>2</sup> - 1	Specialty Support Course		3	BIO 308	General Microbiology		3
ABT 360 <sup>3</sup>	Genetics		3	BIO 209	Introductory Microbiology Lab		2
ABT 301	Writing & Presentation in the Life Sci		2	BCH 401G	Fundamentals of Biochemistry		3
UK Core <sup>1</sup> X			3	SS <sup>2</sup> - 2	Specialty Support Course		3
Total			16	Total			16

<u>Fall year 4</u>				<u>Spring Year 4</u>			
ABT 495	Experimental Methods in Biotechnology		3	ABT 460	Introduction to Molecular Genetics		3
ABT 395	Independent Study in Biotechnology		3	ABT 461	Introduction to Population Genetics		3
SS <sup>2</sup> - 3	Specialty Support Course		3	SS <sup>2</sup> - 5	Specialty Support Course		3
SS <sup>2</sup> - 4	Specialty Support Course		3	SS <sup>2</sup> - 6	Specialty Support Course		3
Elective			3	SS <sup>2</sup> - 7	Specialty Support Course		3
				Elective			1-2
Total			15	Total			16-17

MINIMUM TOTAL NEEDED = 128 credit hours

<sup>1</sup>UK Core—for list of acceptable courses, check the UK 2016-2017 Bulletin pgs 97-103

<sup>2</sup>Specialty Support course—for list of acceptable courses, check APEX, myUKGPS and check with your advisor.

<sup>3</sup>BIO 304 (4hrs) can substitute for ABT 360 (3hrs)

<sup>4</sup>Check with your advisor for possible changes to the list