



College of Agriculture, Food and Environment

Agricultural and Medical Biotechnology

Four year plan for students starting Fall 2017

MA 109 in their first year

Fall Year 1

MA 109 College Algebra	3
ABT 101 Introduction to Biotechnology	1
GEN 100 Issues in Agriculture -UK Core ¹ IX-	3
CIS 110 Composition and Communication I -UK Core V-	3
CHE 105 General College Chemistry I -UK Core IV-	4
CHE 111 General College Chemistry I Lab -UK Core IV-	1
Total	15

Spring Year 1

CHE 107 General College Chemistry II	3
CHE 113 General College Chemistry II Lab	2
CHE 197 General Chemistry Workshop II (elective)	1
ABT 120 Genetics and Society	3
MA 123 Elementary Calculus and its Applications -UK Core VII-	4
CIS 111 Composition and Communication II -UK Core VI-	3
Total	16

Fall Year 2

CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry I Lab	1
CHE 295 Organic Chemistry Workshop I (elective)	1
BIO 148 Introductory Biology	3
BIO 155 Introductory Biology Lab	1
UK Core II	3
ABT 201 Scientific Method in Biotechnology (after 30 hours have been earned)	1
Elective	3
Total	16

Spring Year 2

CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry II Lab	1
CHE 297 Organic Chemistry II Workshop (elective)	1
BIO 152 Principles of Biology II	3
UK Core I	3
STA 296 Statistical Methods and Motivations -UK Core VIII-	3
Elective	1
Total	15

Fall Year 3

PHY 211 General Physics	5
ABT 360 ² Genetics	3
ABT 301 Writing & Presentation in the Life Sciences	2
UK Core III	3
SS ³ - 1 Specialty Support Course	3
Total	16

Spring Year 3

PHY 213 General Physics	5
BIO 308 General Microbiology	3
BIO 309 Microbiology Lab	2
ABT 461 Introduction to Population Genetics	3
SS - 2 Specialty Support	3
Total	16

Fall Year 4

BCH 401G Fundamentals of Biochemistry	3
ABT 395 Independent Study in Biotechnology	3
ABT 495 Experimental Methods in Biotechnology	4
SS - 3 Specialty Support Course	3
UK Core X	3
Total	16

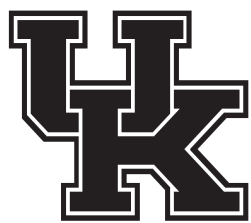
Spring Year 4

ABT 460 Introduction to Molecular Genetics	3
SS - 4 Specialty Support Course	3
SS - 5 Specialty Support Course	3
SS - 6 Specialty Support Course	3
SS - 7 Specialty Support Course	3
Total	15

¹UK Core --for list of acceptable courses, check the UK 2017-18 Bulletin pgs 106-107

²BIO 304 (4 hrs) can be substituted for ABT 360 (3 hrs)

³Specialty Support Course--for list of acceptable courses, check myUK GPS and check with your advisor.



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MA 123 in their first year

Fall Year 1

MA 123 Elementary Calculus and its Application -UK Core ¹ VII	4
ABT 101 Introduction to Biotechnology	1
GEN 100 Issues in Agriculture -UK Core IX-	3
CIS 110 Composition and Communication I -UK Core V-	3
CHE 105 General College Chemistry I -UK Core IV-	4
CHE 111 General College Chemistry I Lab -UK Core IV-	1
Total	16

Fall Year 2

CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry I Lab	1
CHE 295 Organic Chemistry Workshop I (elective)	1
BIO 152 Principles of Biology II	3
UK Core I	3
ABT 201 Scientific Method in Biotechnology (after 30 hours have been earned)	1
Elective	3
Total	15

Fall Year 3

PHY 211 General Physics	5
ABT 360 ² Genetics	3
ABT 301 Writing & Presentation in the Life Sciences	2
UK Core X	3
SS ³ - 1 Specialty Support Course	3
Total	16

Fall Year 4

ABT 395 Independent Study in Biotechnology	3
ABT 495 Experimental Methods in Biotechnology	4
SS - 3 Specialty Support Course	3
SS - 4 Specialty Support Course	3
Elective	3
Total	16

Spring Year 1

CHE 107 General College Chemistry II	3
CHE 113 General College Chemistry II Lab	2
CHE 197 General Chemistry II Workshop (elective)	1
ABT 120 Genetics and Society	3
BIO 148 Introductory Biology	3
BIO 155 Introductory Biology Lab	1
CIS 111 Composition and Communication II -UK Core VI-	3
Total	16

Spring Year 2

CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry II Lab	1
CHE 297 Organic Chemistry II Workshop (elective)	1
UK Core II	3
UK Core III	3
STA 296 Statistical Methods and Motivations -UK Core VIII-	3
Elective	1
Total	15

Spring Year 3

PHY 213 General Physics	5
BIO 308 General Microbiology	3
BIO 309 Microbiology Lab	2
BCH 401G Fundamentals of Biochemistry	3
SS - 2 Specialty Support Course	3
Total	16

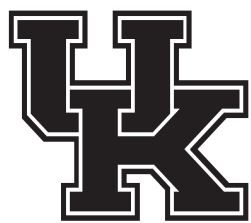
Spring Year 4

ABT 460 Introduction to Molecular Genetics	3
ABT 461 Introduction to Population Genetics	3
SS - 5 Specialty Support Course	3
SS - 6 Specialty Support Course	3
SS - 7 Specialty Support Course	3
Total	15

¹UK Core --for list of acceptable courses, check the UK 2017-18 Bulletin pgs 106-107

²BIO 304 (4 hrs) can be substituted for ABT 360 (3 hrs)

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MA 113 or MA 137 in their first year

Fall Year 1

MA 113 Calculus I -UK Core ¹ VII-	4
MA 193 Supplementary Calculus I Workshop (elective) OR MA 137 Calculus for the Life Sciences	1 4
ABT 101 Introduction to Biotechnology	1
GEN 100 Issues in Agriculture -UK Core IX-	3
CIS 110 Composition and Communication I -UK Core V-	3
CHE 105 General College Chemistry I -UK Core IV-	4
CHE 111 General College Chemistry I Lab -UK Core IV-	1

Total 16-17

Fall Year 2

CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry I Lab	1
CHE 295 Organic Chemistry Workshop I (elective)	1
BIO 152 Principles of Biology II	3
ABT 201 Scientific Method in Biotechnology (after 30 hours have been earned)	1
UK Core I	3
Elective	3

Total 15

Fall Year 3

PHY 211 General Physics	5
ABT 360 ² Genetics	3
ABT 301 Writing & Presentation in the Life Sciences	2
UK Core X	3
SS ³ - 1 Specialty Support Course	3

Total 16

Fall Year 4

ABT 395 Independent Study in Biotechnology	3
ABT 495 Experimental Methods in Biotechnology	4
SS - 3 Specialty Support Course	3
SS - 4 Specialty Support Course	3
Elective	3

Total 16

Spring Year 1

CHE 107 General College Chemistry II	3
CHE 113 General College Chemistry II Lab	2
CHE 197 General Chemistry II Workshop (elective)	1
ABT 120 Genetics and Society	3
BIO 148 Introductory Biology	3
BIO 155 Introductory Biology Lab	1
CIS 111 Composition and Communication II -UK Core VI-	3

Total 16

Spring Year 2

CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry II Lab	1
CHE 297 Organic Chemistry II Workshop (elective)	1
UK Core II	3
UK Core III	3
STA 296 Statistical Methods and Motivations -UK Core VIII-	3

Total 15

Spring Year 3

PHY 213 General Physics	5
BIO 308 General Microbiology	3
BIO 309 Microbiology Lab	2
BCH 401G Fundamentals of Biochemistry	3
SS - 2 Specialty Support Course	3

Total 16

Spring Year 4

ABT 460 Introduction to Molecular Genetics	3
ABT 461 Introduction to Population Genetics	3
SS - 5 Specialty Support Course	3
SS - 6 Specialty Support Course	3
SS - 7 Specialty Support Course	3

Total 15

¹UK Core --for list of acceptable courses, check the UK 2017-18 Bulletin pgs 106-107

²BIO 304 (4 hrs) can be substituted for ABT 360 (3 hrs)

³Specialty Support Course--for list of acceptable courses, check myUK GPS and check with your advisor.