

## Sample 2-year plan with *major admissions requirement courses* for: **Biochemistry, Biology, Human Biology, or Molecular Biosciences**

To be eligible to declare one of the above majors, you need to complete BIOL 150, 152, 350, and CHEM 135/175 with a GPA of at least 2.20 (students entering KU in/after Fall 2014 also require BIOL 105). You also need to apply to the major in the term in which you are enrolled in the final admissions course(s). For important details about the admissions requirements, please go to the web page below:

<http://www.kuub.ku.edu/admission>

If needed, you can complete MATH 101 or 104 the summer before starting this schedule or complete CHEM 135 the summer after (see footnote #1).

### First Year Summer: *BIOL 105* Biology Orientation Seminar (1 hr; online course) - required for students entering KU in/after Fall 2014

First Year Fall	Requirement Fulfilled	# Hours
CHEM 130/170 <sup>1</sup> Chemistry I	General Science	5
<b><i>BIOL 150/151<sup>2</sup> Molecular &amp; Cell. Biol.</i></b>	Major Requirement	4
KU Core (English 101)	KU Core	3
KU Core	KU Core	3
<i>(take BIOL 105 if not taken in summer)</i>		
The AAAC offers affordable tutoring for many intro courses; attend PLUS sections for BIOL & CHEM.		Hours this semester 15 JR/SR hours this sem. 0

Second Year Fall	Requirement Fulfilled	# Hours
CHEM 330 or 310 <sup>4</sup> Organic Chem. I	General Science	3
(CHEM 331 Org Lab I if applicable)	(General Science)	(2)
<b><i>BIOL 350/360 Principles of Genetics</i></b>	Major Requirement	4
MATH 116 (or MATH 122) <sup>1</sup> Calc II	General Science	3 or 5
KU Core	KU Core	3
Apply for admission to the biology major! Watch for an Academic Notice in your myKU Advising Portal!		Hours this semester 13-17 JR/SR hours this sem. 7-9

First Year Spring	Requirement Fulfilled	# Hours
<b><i>CHEM 135/175<sup>3</sup> Chemistry II</i></b>	General Science	5
<b><i>BIOL 152/153 Organismal Biology</i></b>	Major Requirement	4
MATH 115 <sup>1</sup> or MATH 121 Calc I	General Sci & KU Core	3 or 5
KU Core (English 102/105)	KU Core	3
Interested in Study Abroad? This would be a good time to visit the Office of Study Abroad.		Hours this semester 15-17 JR/SR hours this sem. 0

Second Year Spring	Requirement Fulfilled	# Hours
Refer to your notes from advising meetings, to your Degree Progress Report, and to a Degree Requirement Checksheet: <a href="http://www.kuub.ku.edu/degrees">http://www.kuub.ku.edu/degrees</a> Meet with a biology faculty advisor to plan your future semesters. See: <a href="http://www.kuub.ku.edu/advising">http://www.kuub.ku.edu/advising</a>		
Apply for admission to the biology major! Watch for an Academic Notice in your myKU Advising Portal!		Hours this semester 13-17 JR/SR hours this sem. 7-9

- Requires a Math ACT score of 26+, a comparable SAT or KU Math Placement Exam score, or credit for a MATH 101 or 104 equivalent course. MATH 121 can be taken instead of MATH 115 + 116 to fulfill the math requirement, but BS Biochemistry requires both MATH 121 and 122. MATH 121 requires MATH 104, or MATH 103, or three yrs of college prep math including trigonometry and a Math ACT score of 28+, or the required KU Math Placement Exam score.
- Concurrent or prior enrollment in CHEM 130/170 is required. CHEM 170 intended for Biochemistry majors.
- CHEM 135/175 is offered only in the spring. CHEM 170 and 175 intended for Biochemistry majors.
- CHEM 330 is for students who need to take at least two semesters of organic chemistry (CHEM 330 + 335). Students needing only semester may take CHEM 310. Most med schools require the full CHEM 330, 331, 335, and 336 sequence (refer to <http://www.medadvising.ku.edu/pre-medicine-courses>).

## Sample 2-year plan with *major admissions requirement courses* for: **Microbiology**

To be eligible to declare a microbiology major, you need to complete BIOL 150, 350, and CHEM 135 with a GPA of at least 2.20 (students entering KU in/after Fall 2014 also require BIOL 105). You also need to apply to the major in the term in which you are enrolled in the final admissions course(s). For important details about the admissions requirements, please go to the web page below:

<http://www.kuub.ku.edu/admission>

If needed, you can complete MATH 101 or 104 the summer before starting this schedule or complete CHEM 135 the summer after (see footnote #1).

### First Year Summer: *BIOL 105* Biology Orientation Seminar (1 hr; online course) - required for students entering KU in/after Fall 2014

First Year Fall	Requirement Fulfilled	# Hours
CHEM 130 <sup>1</sup> Chemistry I	General Science & NP	5
<b><i>BIOL 150/151<sup>2</sup> Molecular &amp; Cell. Biol.</i></b>	Major Requirement	4
KU Core (English 101)	KU Core	3
KU Core	KU Core	3
<i>(take BIOL 105 if not taken in summer)</i>		
The AAAC offers affordable tutoring for many intro courses; attend PLUS sections for BIOL & CHEM.		Hours this semester 15 JR/SR hours this sem. 0

Second Year Fall	Requirement Fulfilled	# Hours
CHEM 330 or 310 <sup>4</sup> Organic Chem. I	General Science	3
CHEM 331 Organic Chem. I lab	General Science	2
BIOL 400/401 <sup>5</sup> Fund Microbiology	Major Requirement	3
BIOL 402 <sup>5</sup> Microbiology lab	Major Requirement	2
MATH 116 <sup>1</sup> Calculus II (unless MATH 121 taken)	General Science	3
KU Core	KU Core	3
Apply for admission to the microbiology major! Watch for an Academic Notice in your myKU Advising Portal!		Hours this semester 16 JR/SR hours this sem. 10

First Year Spring	Requirement Fulfilled	# Hours
<b><i>CHEM 135<sup>3</sup> Chemistry II</i></b>	General Science	5
MATH 115 <sup>1</sup> or MATH 121 Calc I	General Sci & KU Core	3 or 5
KU Core (English 102/105)	KU Core	3
KU Core	KU Core	3
Interested in Study Abroad? This would be a good time to visit the Office of Study Abroad.		Hours this semester 14 or 16 JR/SR hours this sem. 0

Second Year Spring	Requirement Fulfilled	# Hours
<b><i>BIOL 350 Principles of Genetics</i></b>	General Science	4
AND other courses for a full semester course load.		
Refer to your notes from advising meetings, to your Degree Progress Report, and to a Degree Requirement Checksheet: <a href="http://www.kuub.ku.edu/degrees">http://www.kuub.ku.edu/degrees</a> Meet with a biology faculty advisor to plan your future semesters. See: <a href="http://www.kuub.ku.edu/advising">http://www.kuub.ku.edu/advising</a>		
Apply for admission to the microbiology major! Watch for an Academic Notice in your myKU Advising Portal!		Hours this semester 15-17

- Requires a Math ACT score of 26+, a comparable SAT or KU Math Placement Exam score, or credit for a MATH 101 or 104 equivalent course. MATH 121 can be taken instead of MATH 115 + 116 to fulfill the math requirement but has a prerequisite of MATH 104, or MATH 103, or three yrs of college prep math including trigonometry and a Math ACT score of 28+, or the required KU Math Placement Exam score.
- Concurrent or prior enrollment in CHEM 130 is required.
- CHEM 135 is offered only in the spring.
- CHEM 330 is for B.S. Microbiology students and for students who need to take at least two semesters of organic chemistry (CHEM 330 + 335). Students needing only 1 semester may take CHEM 310. Most med schools require the full CHEM 330, 331, 335, and 336 sequence (refer to <http://www.medadvising.ku.edu/pre-medicine-courses>). Students who plan to attend grad school for an M.A. or Ph.D. should take two semesters of organic.
- BIOL 400/401 and 402 are offered only in the fall.