

## 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 188/135/175 with a GPA of at least 2.20. 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 be sure to go to the web page below:

<http://catalog.ku.edu/201314/schools/clas/departments/biol/admission>

If needed, you can complete MATH 101 or 104 the summer before starting this schedule or complete CHEM 188/135 the summer after (see footnote #1).

First Year Fall	Requirement Fulfilled	# Hours
CHEM 184/130/170 <sup>1</sup> Chemistry I	General Science & NP	5
<b>BIOL 150/151<sup>2</sup> Molecular &amp; Cell. Biol.</b>	Major Req & NB	4
ENGL 101 Composition/Core curric.	General Education/Core	3
Social Science (SC/SF/SI)/Core curric.	General Education/Core	3
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 624/330 or 622/310 <sup>4</sup> Org. Chm. I (CHEM 625/331 Org Lab I if applicable)	General Science (General Science)	3 (2)
<b>BIOL 350/360 Principles of Genetics</b>	Major Requirement	3
MATH 116 (or MATH 122) <sup>1</sup> Calc II	General Science & NM	3 or 5
Humanities (HL/HR/HT)/Core curric.	General Education/Core	3
Apply for admission to the biology major! Watch for an Academic Notice in your Kyou Advising Portal!		
	Hours this semester	14 or 16
	JR/SR hours this sem.	6 or 8

First Year Spring	Requirement Fulfilled	# Hours
<b>CHEM 188/135/175<sup>3</sup> Chemistry II</b>	General Science	5
<b>BIOL 152/153<sup>3</sup> Organismal Biology</b>	Major Requirement	4
MATH 115 <sup>1</sup> or MATH 121 Calc I	General Sci & 2nd Math	3 or 5
ENGL 102/105 Read & Wrtnng/Core Curric.	General Education/Core	3
Interested in Study Abroad? This would be a good time to visit the Office of Study Abroad.		
	Hours this semester	15 or 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/~kuub/cgl-bin/advising.shtml">http://www.kuub.ku.edu/~kuub/cgl-bin/advising.shtml</a>		
	Hours this semester	15 or 17
	JR/SR hours this sem.	0

- 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 184/130/170 is required. CHEM 170 intended for Biochemistry majors.
- CHEM 188/189/175 is offered only in the spring. CHEM 170 and 175 intended for Biochemistry majors.
- CHEM 624/330 is for students who need to take at least two semesters of organic chemistry (CHEM 624/330 + 626/335). Students needing only semester may take CHEM 622/310. Most med schools require the full CHEM 624/330, 625/331, 626/335, and 627/336 sequence (refer to <http://www.medadvising.ku.edu/medicine/medhandout.shtml>).

## 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 188/135 with a GPA of at least 2.20. 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 be sure to go to the web page below:

<http://catalog.ku.edu/201314/schools/clas/departments/biol/admission>

If needed, you can complete MATH 101 or 104 the summer before starting this schedule or complete CHEM 188/135 the summer after (see footnote #1).

First Year Fall	Requirement Fulfilled	# Hours
CHEM 184/130 <sup>1</sup> Chemistry I	General Science & NP	5
<b>BIOL 150/151<sup>2</sup> Molecular &amp; Cell. Biol.</b>	General Science & NB	4
ENGL 101 Composition/Core curric.	General Education/Core	3
Social Science (SC/SF/SI)/Core curric.	General Education/Core	3
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 624/330 or 622/310 <sup>4</sup> Org. Chm. I	General Science	3
CHEM 625/331 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	General Science	3
ENGL 203-211 course/Core curric.	General Education/Core	3
	Hours this semester	16
	JR/SR hours this sem.	10

First Year Spring	Requirement Fulfilled	# Hours
<b>CHEM 188/135<sup>3</sup> Chemistry II</b>	General Science	5
MATH 115 <sup>1</sup> or MATH 121 Calc I	General Sci & 2nd Math	3 or 5
ENGL 102/105 Read & Wrtnng/Core Curric.	General Education/Core	3
Humanities (HL/HR/HT)/Core curric.	General Education/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>BIOL 350/360 Principles of Genetics</b>	General Science	3
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/~kuub/cgl-bin/advising.shtml">http://www.kuub.ku.edu/~kuub/cgl-bin/advising.shtml</a>		
Apply for admission to the biology major! Watch for an Academic Notice in your Kyou Advising Portal!		
	Hours this semester	15-17
	JR/SR hours this sem.	0

- 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 184/130 is required.
- CHEM 188/135 is offered only in the spring.
- CHEM 624/330 is for students who need to take at least two semesters of organic chemistry (CHEM 624/330 + 626/335). Students needing only semester may take CHEM 622/310. Most med schools require the full CHEM 624/330, 625/331, 626/335, and 627/336 sequence. 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.