

Advising Course Plan - Molecular and Cellular Biology Major - Medical School Interest

Plan Option 1

It is our experience that most incoming freshmen are not prepared for more than one lab science course the first semester. This plan was developed with that in mind and indicates an effective way to earn a Bachelor of Science degree in Molecular and Cellular Biology (MCB) and to complete the typical premedical requirements without taking two lab sciences in the First Year.

First Year		
Fall		Units
BIOL 100	Becoming a Stetson Biologist	0.0
FSEM 100	First Year Seminar	1
BIOL 141P	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
MATH 130 ¹	Calculus I with Review Part I	1
PSYC 101S ²	Introduction to Psychology	1
Term Units		4
Spring		
BIOL 142P	Introductory Biology: Animal and Plant Physiology	1
MATH 131Q ¹	Calculus I with Review Part 2	1
SOCI 101S ²	Understanding Society: An Introduction to Sociology	1
General Education requirement		1
Term Units		4
Second Year		
Fall		
BIOL 243Q	Biostatistics	1
CHEM 141P	General Chemistry I	1
PHYS 121P ³	College Physics I	1
General Education requirement		1
Term Units		4
Spring		
BIOL 300	Molecular Biology and Biotechnology	1
CHEM 142P	General Chemistry II	1
PHYS 122P	College Physics II	1
General Education requirement		1
Term Units		4
Third Year		
Fall		
BIOL 302 ⁴	Genetics	1
Junior Seminar ⁵		1
CHEM 201	Organic Chemistry I	1
Elective		1
Term Units		4
Spring		
BIOL 497	Research Proposal	0.5
CHEM 301	Organic Chemistry II	1
CHEM 204 [*]	Biochemistry I	1
Elective		1
Elective		1
Term Units		4.5
Summer		

If you intend to start MD or DO school the fall after you graduate, during the summer between Third Year and Fourth Year you should take the MCAT (after proper preparation; a prep course is offered on campus) and apply to medical schools (via online services AMCAS and/or AACOMAS).

Fourth Year		
Fall		Term Units
BIOL 498	Senior Project I	1
BIOL 300- or 400-level course ⁶		1
Elective		1
Elective		1
Term Units		4
Spring		
BIOL 499	Senior Project II	1
BIOL 300 or 400 level course ⁶		1
Elective		1
Elective		1
Term Units		4
Total Unit: 32.5		

- The timing of the Math course is not critical; it can be taken at a later time. Some students may place into, and wish to take, MATH 141Q or MATH 151 instead of MATH 130 and MATH 131Q.
 - PSYC 101S and SOCI 101S can be taken at any time before the MCAT is taken.
 - The Physics courses can be taken later.
 - BIOL 300, BIOL 302, and the other 300- or 400-level course can be taken in any order.
 - The Junior Seminar can be taken in the spring instead of the fall.
 - Other recommended upper division courses include: BIOL 301, BIOL 314, BIOL 315, BIOL 401, BIOL 409, BIOL 410, BIOL 415, BIOL 425.
- * Two core courses are required for the MCB major (Core course options: BIOL 302, BIOL 425, and CHEM 204).

Plan Option 2

This plan indicates an effective way to earn a Bachelor of Science degree in Molecular and Cellular Biology (MCB) and to complete the typical premedical requirements. *This path includes 2 lab sciences the first semester so is only for highly motivated students with strong backgrounds in high school Biology, Chemistry, and Math and/or a Math SAT score # 650.*

First Year		
Fall		Units
BIOL 100	Becoming a Stetson Biologist	0.0
FSEM 100	First Year Seminar	1
BIOL 141P	Introductory Biology: Biochemistry, Cell Biology and Molecular Genetics	1
CHEM 141P ⁺	General Chemistry I	1
MATH 130 ¹	Calculus I with Review Part I	1
Term Units		4
Spring		
BIOL 142P	Introductory Biology: Animal and Plant Physiology	1
CHEM 142P	General Chemistry II	1
MATH 131Q ¹	Calculus I with Review Part 2	1
General Education requirement		1
Term Units		4
Second Year		
Fall		
BIOL 243Q	Biostatistics	1

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PHYS 121P ³	College Physics I	1
General Education requirement		1
General Education requirement		1
Term Units		4
Spring		
CHEM 301	Organic Chemistry II	1
CHEM 204 ⁺	Biochemistry I	1
PHYS 122P ³	College Physics II	1
Elective		1
Term Units		4
Third Year		
Fall		
Junior Seminar ⁵		1
BIOL 302 ³	Genetics	1
PSYC 101S ²	Introduction to Psychology	1
Elective		1
Term Units		4
Spring		
BIOL 300	Molecular Biology and Biotechnology	1
BIOL 497	Research Proposal	0.5
CHEM 204	Biochemistry I	1
SOCI 101S ²	Understanding Society: An Introduction to Sociology	1
Elective		1
Term Units		4.5
Summer		
During the summer between Third Year and Fourth Year you should take the MCAT (after proper preparation; a prep course is offered on campus) and apply to medical schools (online service).		
Term Units		0
Fourth Year		
Fall		
BIOL 498	Senior Project I	1
BIOL 300- or 400-level course ⁶		1
Elective		1
Elective		1
Term Units		4
Spring		
BIOL 499	Senior Project II	1
BIOL 300 or 400 level course ⁶		1
Elective		1
Elective		1
Term Units		4

Total Unit: 32.5

¹ The timing of the Math course is not critical; it can be taken at a later time. Some students may place into, and wish to take, MATH 141Q or MATH 151 instead of MATH 130 and MATH 131Q.

² PSYC 101S and SOCI 101S can be taken at any time before the MCAT is taken.

³ The Physics courses can be taken later.

⁴ BIOL 300, BIOL 302, and the other 300- or 400-level course can be taken in any order.

⁵ The Junior Seminar can be taken in the spring instead of the fall.

⁶ Other recommended upper division courses include: BIOL 301, BIOL 314, BIOL 315, BIOL 425, BIOL 401, BIOL 409, BIOL 410, BIOL 415, BIOL 422.

+ Students can concurrently take BIOL 141P with CHEM 141P and/ or BIOL 142P with CHEM 142P. However, student must obtain additional academic advising and get permission from their academic advisor before enrolling in both courses.

* Two core courses are required for the MCB major (Core course options: BIOL 302, BIOL 425, and CHEM 204).