

**Recommended program of study for Pre-Veterinary Medicine Students
BS in Genetics and Cell Biology/Molecular Biology option**

Name: _____

Expected graduation date: _____

UCORE REQUIREMENTS: (see catalog or degree audit for more details)

_____ Roots of Contemporary Issues	(3)	_____ Humanities	(3)
_____ Communication	(3)	_____ Creative and Professional Arts	(3)
_____ Written Communication	(3)	_____ Global Diversity	(3)
_____ Inquiry in Social Sciences	(3)	_____ Writing Portfolio (http://www.wsu.edu/~jrpf/)	

Non-Major prerequisites

* _____ Biol 106 Introduction: Organismal	(4)
* _____ Biol 107 Intro: Cell Biology & Genetics	(4)
* _____ Chem 105 Principles I	(4)
* _____ Chem 106 Principles II	(4)
_____ Chem 345 Organic Chemistry I	(4)
[**Add Chem 348 for pre-health students—check with your pre-health advisor]	
_____ Phys 101 General or Phys 201 Science & Eng I	(4)
_____ Phys 102 General or Phys 202 Science & Eng II	(4)
_____ } Math 140 Math for Life Scientists	
OR { _____ } Math 171 Calculus I	(4)
_____ } Math 212 Intro Stat Methods	(4)
OR { _____ } Stat 412 Stat Methods Res I	(3)

* A grade of C or better and a cumulative gpa of 2.50 is required to certify in SMB.

MOLECULAR BIOSCIENCES

(A grade of C or better is required in each of the courses below.) (cr) [SMB Prerequisites are listed in brackets]

_____ MBioS 301 General Genetics (Fa/Sp/Su)	(4) [Biol 106, 107; Chem 105, 106]
_____ MBioS 303 Introductory Biochemistry (Fa/Sp/Su)	(4) [Chem 345]
_____ MBioS 304 Micro/Molecular Biology Lab(Fa/Sp/Su)	(3) [c// MBioS 303 or MBioS 305]
_____ MBioS 305 Gen Microbiology Lecture (Fa/Sp/Su)	(3) [Biol 107; Chem 345; MBioS 303 rec]
_____ MBioS 401 Cell Biology (Sp)	(3) [MBioS 301; 303]
_____ [M]MBioS 402 Genetics Laboratory (Sp)	(3) [MBioS 301; 304]
_____ MBioS 404 Molecular Biology (Fa)	(3) [MBioS 301; 303; 305 or c//]
_____ MBioS 423 Human Genetics (Fa)	(3) [MBioS 301]
_____ } MBioS 442 General Virology (Sp)	(3) [MBioS 301; 303 or c//]
OR { _____ } Biol 476 Epigenetics and Systems Biology (Sp-odd)	(3) [MBioS 301]
_____ MBioS 478 Bioinformatics (Fa)	(3) [MBioS 301 or MBioS 303 or CptS 355]
_____ [M]MBioS 494 Senior Project (Fa/Sp)	(3) [senior status]

One lecture course from below:

_____ MBioS 410 Medical Microbiology (Sp)	(3)
_____ MBioS 413 General Biochemistry I (Fa)	(3)
_____ MBioS 426 Microbial Genetics (Sp)	(3)
_____ MBioS 440 Immunology (Fa)	(3)
_____ MBioS 442 General Virology (Sp)	(3)
_____ MBioS 450 Microbial Physiology (Sp)	(3)
_____ MBioS 503 Advanced Mol Biology I (Fa)	(3)
_____ Biol 476 Epigenetics (Sp)	(3)
_____ Biol 519 Intro to Population Genetics (Fa)	(3)

AND

One laboratory course from below:

_____ [M]MBioS 411 Medical Bact (c// 410) (Sp)	(3)
_____ [M]MBioS 430 Immunology/Virology Lab (Fa)	(3)
_____ [M]MBioS 454 Biochemistry Lab (Fa)	(3)
_____ MBioS 498 Directed Research (Fa/Sp/Su)	(min 3)
_____ MBioS 499 Special Problems (Fa/Sp/Su)	(min 3)
_____ Biol 251 Intro Human Physiology (Fa/Su)	(4)
_____ ** Biol 315 Gross and Microanatomy (Fa/Sp)	(4)
_____ Biol 420 Intro Plant Physiology (Fa)	(4)
_____ Biol 321 Principles of Animal Develop (Fa)	(4)
_____ Biol 352 & 353 Cell (Fa) & Human Phys (Sp)	(7)
_____ Biol 372 General Ecology (Fa/Sp)	(4)
_____ Neuro 425/426 Integrated Phys & Lab (Su/Sp)	(4)

** Biol 315 and Chem 348 are recommended for students considering PreVet Med