

Recommended program of study for Pre-Medical and Pre-Dental students BS in Microbiology/Molecular Biology

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 or Stat 412 Stat Methods Res I (4 or 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 404 Molecular Biology (Fa) (3)	[MBioS 301; 303; 305 or c//]
_____ MBioS 410 Medical Microbiology (Sp) (3)	[MBioS 305; 404 or c//]
_____ } **[M]MBioS 411 Diagnostic Med Bact (Sp) (3)	[MBioS 304; 410 or c//]
OR { **[M]MBioS 430 Immunology/Virology lab (Fa) (3)	[MBioS304; 305; c// MBioS 440 or MBioS 442]
_____ MBioS 440 Immunology (Fa) (3)	[MBioS 305]
_____ MBioS 442 Virology (Sp) (3)	[MBioS 301; 303 or c//]
_____ MBioS 450 Microbial Physiology (Sp) (3)	[MBioS 303; 304; 305]
_____ [M] MBioS 494 Senior Project (Fa/Sp) (3)	[senior status]

One lecture course from below:

_____ MBioS 342 Microbial Ecology (Fa-odd) (3)	AND
_____ MBioS 401 Cell Biology (Sp) (3)	
_____ MBioS 413 Biochemistry I (Fa) (3)	
_____ MBioS 426 Microbial Genetics (Sp) (3)	
_____ MBioS 446 Epidemiology (Sp) (3)	
** Biol 418 Parasitology (Fa) (4)	
_____ Entom 343 Entomology (Fa) (3)	
_____ FS 416 Food Microbiology (Fa) (3)	

One laboratory course from below:

_____ [M] MBioS 402 Genetics Lab (RSLN) (Sp) (3)
** [M]MBioS 411 Diagnostic Med Bact (Sp) (3)
** [M]MBioS 430 Immuno/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) (4)
*** Biol 315 Gross and Microanatomy (Fa/Sp) (4)
_____ Biol 352 & 353 Cell (Fa) & Human Phys (Sp) (7)
_____ Entom 344 Entomology Lab (Fa) (2)
_____ F S 417 Food Micro Lab (c// FS 416) (Fa) (2)
_____ Neuro 425/426 Integrated Phys and Lab (Su/?) (4)

** Med Tech option requires MBioS 411, MBioS 430 and Biol 418

*** Students considering Premed or Preudent should take Chem 348; Biol 315 is recommended.