



Prep Subject Matter: 64-66 Units

Global Disease Bio Core:

	<i>Course Title</i>	<i>Prerequisites</i>	<i>Quarter(s) offered</i>	<i>Units</i>
GDB 90	Introduction to Global Disease Biology	--	F, S	1
SAS 13	Disease & Society	--	F, W	3

Chemistry:

CHE 2A	General Chemistry	Chemistry Placement Test	F, W, Su	5
CHE 2B	General Chemistry	CHE 2A/2AH with C- or better	W, S, Su	5
CHE 2C	General Chemistry	CHE 2B/2BH with C- or better	F, S, Su	5

Organic Chemistry:

CHE 8A	Organic Chemistry: Brief Course	CHE 2B/2BH with C- or better	F, S, Su	2
CHE 8B	Organic Chemistry: Brief Course	CHE 8A/118A/128A	F, W, Su	4
or				
CHE 118A	Organic Chemistry for Health and Life Sciences	CHE 2C/2CH with C- or better	F, W, Su	4
CHE 118B	Organic Chemistry for Health and Life Sciences	CHE 118A/128A	W, S, Su	4

Biological Sciences:

BIS 2A	Introduction to Biology	--	F, W, S, Su	5
BIS 2B	Introduction to Biology	--	F,W, S, Su	5
BIS 2C	Introduction to Biology	BIS 2B with C- or better	F,W, S, Su	5

Physics:

PHY 7A	General Physics	MAT 16B/17B/21B (can be concurrent)	F, W, S, Su	4
PHY 7B	General Physics	PHY 7A	F, W, S, Su	4

Mathematics:

MAT 17A	Calculus for Biology and Medicine	Math Placement Score of 30+	F, W, S, Su	4
MAT 17B	Calculus for Biology and Medicine	MAT 16A/17A/21A/21AH with C- or better	F, W, S, Su	4
MAT 17C	Calculus for Biology and Medicine	MAT 17B with C- or better	F, W, S, Su	4

Statistics (choose one):

STA 13	Elementary Statistics	2 years of high school algebra or Mathematics D	F, W, S, Su	4
STA 100	Applied Statistics for Biological Sciences	MAT 16B/17B/21B with a C- or better	F, W, S, Su	4

PLS 120	Applied Statistics in Agricultural Sciences	Upper division standing	F, S	4
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Depth Subject Matter: 44-49 Units

	Course Title	Prerequisites	Quarter(s) offered	Units
Global Disease Bio Core:				
PMI 129Y	One Health: Human, Animal & Environment Interfaces	Good academic standing	F, W	3
VME 158	Disease Ecology	BIS 2A-C; EVE 100 recommended	W, S	3
GDB 101	Epidemiology	BIS 2A-C; SAS 13, STA 13/100 or PLS 120	F, W	4
GDB 102	Disease Intervention & Policy	BIS 2A-C; SAS 13; PMI 129Y; VME 158; GDB 101	F, S	4
Upper Division Biology:				
BIS 101	Genes and Gene Expression	BIS 2A-B with C- or better; CHE 8A/118A; STA 13/100	F, W, S, Su	4
BIS 105 or BIS 102 & 103	Biomolecules and Metabolism	BIS 2A; CHE 8B/118B or BIS 2A; CHE 8B/118B	F, W, S, Su	3 or 6
EVE 100	Introduction to Evolution	BIS 2A-C; MAT 16/17/21A-B; STA 13/100 recommended	F, W, S, Su	4
MIC 102	Introduction to Microbiology	BIS 2A; CHE 2B (can be concurrent)	F, W, S, Su	3
MIC 103L	Introduction to Microbiology Lab	MIC 102 with C- or better, CHE 2B	F, W, S, Su	2
Pathogen/Disease Courses:				
<i>Choose 2 of the following:</i>				
PLP 100	Biology of Plant Pathogens	BIS 2A-C	W	3
PLP 120	Introduction to Plant Pathology	BIS 2C; MIC 102 recommended	S	4
PLP 130	Fungal Biology and Disease	BIS 2A-C (can be concurrent)	S	3
PMI 127	Medical Bacteria and Fungi	Any MIC course with lab, Immunology recommended	S	3
ENT 153	Medical Entomology	BIS 2A-B	W	3
ENT 156	Biology of Parasitism	BIS 2A	S	3
GDB 103	Microbiome of People, Animals, & Plants	BIS 2A-C	S	3
MIC 162 or PMI 128	General Virology or Biology of Animal Viruses	BIS 101; BIS 102 or 105 recommended or BIS 102	W or S	3 or 3
MMI 177	Human Virology	BIS 102 or BIS 101 or BIS 103 or BIS 104 or BIS 105	W	3
Practicum Proposal Class:				
GDB 187	Global Disease Biology Seminar	GDB 90; SAS 13	F, W, S	3
Senior Practicum:				
GDB 189 (may be taken twice)	Global Disease Biology Senior Research	GDB 90; SAS 13; GDB 187	F, W, S, Su	3
GDB 189D	Global Disease Biology Research Discussion	GDB 90; SAS 13; GDB 187; GDB 189	F, W, S, Su	1

Restricted Electives (Minimum upper division 25 units) Focused specialty as outlined in the student's proposal (from GDB 187) with **approval** of an advisor; upper division units may be chosen from courses offered by various departments.

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| 2. _____ | 7. _____ |
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| 4. _____ | 9. _____ |
| 5. _____ | 10. _____ |

Additional Notes:

***Course offerings are subject to change. Check with your advisor for the most updated listings. Updated 7/29/22