

### IMIN Program Courses (last update 30 March 2010)

**BOLD** = required course; <sup>superscripts</sup> refer to prerequisites; **(H)** = required for Honors

Year 1		Year 2		Year 3		Year 4	
Fall	Winter	Fall	Winter	Fall	Winter	Fall	Winter
<b>BIOL 107</b> Intro to Cell Biology (either term) LEC, LAB and SEM Multiple sections	<b>CHEM 261</b> Organic Chemistry I LEC 5 sections, LAB Multiple sections	<b>BIOL 207<sup>a</sup></b> Molecular Genetics and Heredity (either term) LEC, LAB and SEM Multiple sections	<b>GENET 270<sup>d</sup></b> Foundations of Molecular Genetics (either term) LEC TuTh 11-12:20 SEM Thu 3:30-4:50	GENET 304 <sup>m</sup> Gene Expression & its Regulation LEC MWF 2-2:50	MICRB 316 <sup>f, m, q</sup> Molecular Microbiology LEC TuTh 12:30-1:50	<b>BIOL 499 or MMI 499 (H)</b> Independent Research in Infection and Immunity	
<b>CHEM 101</b> Intro to Univ Chemistry I (either term) LEC, LAB and SEM Multiple sections	<b>CHEM 102</b> Intro to Univ Chemistry II (either term) LEC, LAB and SEM Multiple sections	<b>BIOCH 200<sup>a, k</sup></b> Intro Biochem. (either term) Fall: LEC A1 MWF 1-1:50 LEC A2 TuTh 11-12:20	<b>BIOCH 330<sup>f, j, l</sup></b> Nucleic Acids and Molecular Biology LEC TuTh 11-12:30	<b>MMI 391 (H)<sup>t</sup></b> Techniques in Mol. Biol. & Bioinformatics LAB TuTh 1-4:50	<b>IMIN 372<sup>o</sup></b> Research Techniques in Immunology LEC Tu 1-1:50 LAB Tu or Th 2-4:50	<b>BIOCH 430<sup>g, h</sup></b> Biochemistry of Eukaryotic Gene Expression LEC MWF 9-9:50	<b>IMIN 401<sup>o, t</sup></b> Comparative Immunology LEC TuTh 11-12:30
<b>MATH 1XX</b>	<b>BIOL 108</b> Intro to Biological Diversity (either term) LEC, LAB and SEM Multiple sections	<b>MICRB 265<sup>a, k</sup></b> General Micro. (either term) LEC MWF 8-8:50 LAB multiple options	<b>IMIN 200<sup>f, q</sup></b> Infection and Immunity LEC MWF 10-10:50	<b>IMIN 371<sup>d, f, n</sup></b> Introduction to Immunology LEC MWF 12:00-12:50	<b>MMI 351 Bacterial Pathogenesis</b> LEC MWF 9-9:50	<b>BIOCH 450<sup>g, h</sup></b> Molecular Biology of Mammalian Viruses LEC A1 TuTh 9:30-10:50 LEC A2 TuTh 12:30-1:50	<b>IMIN 452<sup>f, o</sup></b> Advanced Immunology LEC TuTh 9:30-10:50 SEM 5 sections
ENGL 101 (highly recommended)	<b>STAT 141</b> Intro to Stats (either term) LEC Multiple sections – or – <b>STAT 151</b> Intro Appl. Stats 1 (either term) LEC Multiple sections	<b>BIOL 201<sup>a, k</sup></b> Eukaryotic Cellular Biology (either term) Fall: LEC, A1 TuTh 8-9:20 LEC, A2 TuTh 12:30-1:50	<b>BIOL 208 b</b> Principles of Ecology (either term) Winter: LEC MWF 1-1:50 LAB Multiple sections	<b>IMIN 324<sup>d, f, n</sup></b> Basic Virology LEC TuTh 8-9:20	<b>MMI 352<sup>f, r</sup></b> Practical Pathogenic Bacteriology Tu, Wed or Th 1-4:50	<b>MMI 405<sup>f, r</sup></b> Mechanisms of Pathogenicity I LEC TuTh 8-9:20 SEM Mon 2-4:50	<b>MMI 415<sup>f, p or r or o</sup></b> Mechanisms of Pathogenicity II LEC TuTh 2-3:20
<b>ARTS option</b>		<b>CHEM 263<sup>k</sup></b> Organic Chemistry II LEC 2 sections LAB Multiple sections	<b>ARTS option(s)</b>	<b>CELL 300<sup>c, f</sup></b> Advanced Cell Biology I LEC MWF 11-11:50	<b>BIOCH 320<sup>a, b, j</sup></b> (either term) Structure & Catalysis (Winter): LEC TuTh 12:30-1:50	<b>MMI 426<sup>n</sup></b> Medical Parasitology LEC MWF 10-10:50 LAB Wed or Fri 2-4:50	<b>MMI 427<sup>q or r</sup></b> Fungi Affect. Hum. & Animal Health LEC TuTh 9:30-10:50 LAB Tu 2-4:50
	ENGL 102 (highly recommended)			<b>ZOOL 241</b> Animal Physiol. I: Homeostasis LEC MWF 9-9:50 SEM 7 Sections	<b>ZOOL 242</b> Animal Physiol. II: Intercell. Commun. LEC MWF 9-9:50 SEM 9 Sections	<b>ZOOL 352<sup>n</sup></b> Principles of Parasitism LEC TuTh 9:30-10:50 SEM Wed 2-4:50	<b>ZOOL 452<sup>s</sup></b> Experimental Parasitology Check on availability
				<b>PHYSL 210<sup>a or b and *6 CHEM</sup></b> Human Physiology multiple sections		<b>IMIN 505</b> Advanced Innate Immunity LEC TuTh 11-12:20	<b>ZOOL 354<sup>s</sup></b> Wildlife Diseases LEC Tu Th 9:30-10:50 LAB Tu 2-4:50
				<b>PHYSL 211<sup>a or b, i, j, k, l</sup></b> Human Physiology MWF 10-10:50 (recommended for Specialization)			<b>IMIN 410<sup>t</sup></b> Bioinformatics for Molecular Biologists LEC Fri 2-2:50 LAB Fri 3-3:50

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| <sup>a</sup> BIOL 107 | <sup>d</sup> BIOL 207  | <sup>g</sup> BIOCH 320 | <sup>j</sup> CHEM 102 | <sup>m</sup> GENET 270 | <sup>p</sup> IMIN 324  | <sup>s</sup> ZOOL 352              |
| <sup>a</sup> BIOL 108 | <sup>e</sup> BIOL 208  | <sup>h</sup> BIOCH 330 | <sup>k</sup> CHEM 261 | <sup>n</sup> IMIN 200  | <sup>q</sup> MICRB 265 | <sup>t</sup> consent of department |
| <sup>a</sup> BIOL 201 | <sup>f</sup> BIOCH 200 | <sup>i</sup> CHEM 101  | <sup>l</sup> CHEM 263 | <sup>o</sup> IMIN 371  | <sup>r</sup> MMI 351   |                                    |