

**College of Health Professions
Molecular Diagnostics, BS Degree**

Semester by Semester Program Plan - Applies to students entering the program 2017 and later

Fall Semester Pre Professional Phase		Spring Semester Pre Professional Phase		Summer Semester	
BIOL 121 General Biology 1 CHEM 114 Intro to General Chemistry COHP 100 Orientation to Med Vocab MATH 115 Intermediate Algebra (or ACT) Cultural or Self and Society Elective	4 Cr 4 Cr 1 Cr 3 Cr <u>3 Cr</u> 15	BIOL 122 General Biology 2 COHP 102 Safety Issues in Health Care CHEM 214 Fund. Of Organic Chemistry COMM 105 or 121 or 221	4 Cr 1 Cr 4 Cr <u>3 Cr</u> 12	Students may elect to take general education courses in the summer semester.	
Fall Semester: Pre Professional		Spring Semester Pre Professional		Summer Semester-Prog. Entry GR	
BIOL 205 Human Anatomy & Physiology CHEM 324 Fund. of Biochemistry ENGL 150 English 1 Cultural or Self and Society Elective DMOL 101 Molecular Diagnostics Orient.	5 Cr 3 Cr 3 Cr 3 Cr <u>1 Cr</u> 15	BIOL 108 Medical Microbiology COHP 101 The U.S. Health Care System ENGL 250 English 2 or ENGL 211 PHIL 320 Biomedical Ethics Cultural or Self and Society Elective	3 Cr 3 Cr 3 Cr 3 Cr <u>3 Cr</u> 15	CLLS 219 Hemostasis CLLS 252 Immunology BIOL 375 Principles of Genetics	2 Cr 1 Cr <u>3 Cr</u> 6
Fall Semester Professional Seq-GR		Spring Semester Professional Seq-GR		Summer Semester	
BIOL 373 Cell Biology CLLS 231 Hematology DMOL 110 Lab Techniques in Mol Diag COHP 350 Statistics in Health Care Cultural or Self and Society Elective	3 Cr 2 Cr 2 Cr 3 Cr <u>3 Cr</u> 13	BIOL 300 Pathophysiology BIOL 475 Bioinformatics CLLS 241 Virology/Mycology/Parasitology DMOL 210 Adv Lab Tech in Molec. Diag. DMOL 236 Techniques in Microbiology	3 Cr 3 Cr 2 Cr 2 Cr <u>2 Cr</u> 12	Students may elect to take general education courses in the summer semester.	
Fall Semester Professional Seq-GR		Spring Semester Professional Seq-GR		Summer Semester-Internship Site	
DMOL 410/411 Principles of Molecular Diagnostics/Lab DMOL 440/441 Molec Genetics/Lab ENGL 321 Advanced Composition OR ENGL 323 Proposal Writing DMOL 220/221 Clinical Flow Cyt./Lab	4 Cr 3 Cr 3 Cr <u>5 Cr</u> 15	DMOL 430/431 Molecular Hem/Oncology DMOL 420/421 Molecular Diag of Infect Dis DMOL 450/451 Molecular Forensics/Identity DMOL 460 Mgmt and Reg in Mol. Diag. Cultural or Self and Society Elective	3 Cr 3 Cr 3 Cr 2 Cr <u>3 Cr</u> 14	DMOL 491 Molecular Diagnostics Internship DMOL 499 Molecular Diagnostics Seminar	6 Cr <u>1 Cr</u> 7

Molecular Diagnostics Program Plan 2017 (Important Notes: Applications for the professional phase are due January 15-30th. All professional sequence semesters take place on the Grand Rapids (GR) campus. DMOL and CLLS-prefix classes are offered only once per year.