

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Molecular Biotechnology Techniques
Certificate of Completion

Curriculum Code: 1608 (Effective Fall 2011 – Summer 2016)

The Molecular Biotechnology Techniques program is a laboratory-intensive curriculum which emphasizes the wide ranging applications of recombinant DNA technology (genetic engineering) including the preparation of purified DNA, Polymerase Chain Reaction, and DNA "fingerprinting". Graduates of this program will be able to work in many exciting areas of biotechnology, such as human genetic disease research, improvement of disease-resistance in plants, enhanced crop production, pharmaceutical research, biological cleanup of environmental pollution, forensic science, or genome sequencing projects. If you plan to transfer to a four-year school, please see an academic advisor before enrolling. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section for skills assessment and advising information.

INFORMATION

Contact the Science Department, Arts & Sciences Building, Room 255, telephone number (517) 483-1092 (Website: www.lcc.edu/science) or the Academic Advising Center, Gannon Building, Room 212, telephone number (517) 483-1904.

REQUIREMENTS

CODE	TITLE	TOTAL: 25 CREDITS CREDIT HOURS
BIOL 127	Cell Biology (See Note 1)	4
BIOL 203	Microbiology	3
BIOL 204	Microbiology Laboratory	1
BIOL 275	Molecular Biology I (See Note 2)	4
BIOL 276	Molecular Biology II	4
CHEM 151	General Chemistry Lecture I (See Note 1)	4
CHEM 161	General Chemistry Lab I (See Note 1)	1
ISCI 275	Advanced Technology Workplace	4
MINIMUM TOTAL		25

NOTES:

1. Students with a Science related Bachelor's degree may be granted approval to waive these prerequisite courses to BIOL 203 and BIOL 275. Please contact the Science Department.
2. BIOL 275 is offered only in the Fall Semester.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I

BIOL 127
CHEM 151
CHEM 161

II Fall

BIOL 203
BIOL 204
BIOL 275

III Spring

BIOL 276
ISCI 275