

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

### Molecular Biotechnology Techniques Certificate of Completion

Curriculum Code: 1608 (Effective Fall 2014 – Summer 2019)

The Molecular Biotechnology Techniques degree 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 will be able to work in many 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](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

#### INFORMATION

Contact the Science Department, Arts & Sciences Building, Room 301, telephone number (517) 483-1092 (Website: [www.lcc.edu/science](http://www.lcc.edu/science)) or the Academic Advising Center, Gannon Building, Room 200, telephone number (517) 483-1904.

#### REQUIREMENTS

CODE	TITLE	TOTAL: 24 CREDITS CREDIT HOURS
BIOL 127	Cell Biology (See Note 1)	4
BIOL 203	Microbiology	3
BIOL 204	Microbiology Laboratory	1
BIOL 270	Human Genetics	3
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
<b>MINIMUM TOTAL</b>		<b>24</b>

#### 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, and BIOL 276 is only offered Spring semester.
3. A 2.0 grade or higher is required in all courses used to satisfy this certificate.

#### 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**

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BIOL 127  
CHEM 151  
CHEM 161

**II Fall**

BIOL 275  
BIOL 270

**III Spring**

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BIOL 203  
BIOL 204  
BIOL 276