

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Computer Science
Associate in Science Degree

Curriculum Code: 0169 (Effective Fall 2005 – Summer 2010)

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the MACRAO Transfer Agreement between two-year and four-year institutions in Michigan. General education and subject area requirements vary from one college or university to another.

Prior to beginning this curriculum, students should contact the Counseling and Advising Center, Suite 2300, Gannon (GVT) Building, telephone number (517) 483-1904, to consult with an academic advisor or counselor and obtain an appropriate transfer guide. They are also available on the web at www.lcc.edu/tranfer/guides. Students should also contact the school to which they will transfer for specific transfer institution requirements. (See *Transfer Opportunities* for a list of institutions for which transfer guides are available.)

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 Math and Computer Science Department, Arts & Science Building, Room 301, telephone number (517) 483-1087. Website: <http://www.lcc.edu/mcs/>

REQUIREMENTS

TOTAL: 21 CREDITS

CODE	TITLE	CREDIT HOURS
CPSC230	Algorithms and Computing With C++	4
CPSC231	Computing and Data Structures	4
CPSC260	Computer Science Structures	4
MATH253	Calculus III	4
PHYS251	Physics I: Mechanics	5

LIMITED CHOICE REQUIREMENTS

TOTAL: 39-48 CREDITS

Complete the indicated number of credits from **EACH CHOICE** listed below.

CHOICE 1: General Education MACRAO Requirements

16 Credits

(See *Transfer Information/MACRAO Transfer Agreement* for approved courses in each area.)

English Composition (see Note 2)	0
Science and Mathematics (see Note 1)	0
Social Science (see Note 3)	8
Humanities (see Note 3)	8

CHOICE 2: General Education Core Requirements **0–8 Credits**
 (See *General Education Core Requirements* for information on how to fulfill these requirements. Core area proficiency exams, where appropriate, are available for each core area. Meeting Core with a proficiency test may require additional MACRAO credits.)

Communication Core Area (see Note 3)	0–4
Global Perspectives and Diversity Core Area (see Note 3)	0–4
Mathematics Core Area (see Note 1)	0
Science Core Area (see Note 1)	0
Writing Core Area (see Note 2)	0

CHOICE 3: Writing (Complete one course from each subchoice) **8 Credits**

Subchoice 3A

WRIT121 Composition I	4
WRIT131 Honors Composition I	4

Subchoice 3B

ENGL122 Writing About Literature and Ideas	4
ENGL132 Honors Writing – Literature and Ideas	4
WRIT122 Composition II	4
WRIT132 Honors Composition II	4

CHOICE 4: Mathematics (Complete one course from each subchoice) **8 Credits**

Subchoice 4A

MATH151 Calculus I	4
MATH161 Honors Calculus I	4

Subchoice 4B

MATH152 Calculus II	4
MATH162 Honors Calculus II	4

CHOICE 5: Electives **7–8 Credits**

MATH254 Introduction to Differential Equations	3
MATH260 Linear Algebra	3
PHYS252 Physics II: Electrom, Waves and Optic	5
STAT215 Intro to Probability and Statistics	4

MINIMUM TOTAL **60**

NOTES:

1. Students completing “REQUIREMENTS” have fulfilled the requirements for this Core area.
2. Students completing CHOICE 3 have fulfilled the requirements for these Core and MACRAO areas.
3. Certain Core courses may also be used to meet MACRAO requirements. See *Transfer Information/LCC Core–MACRAO Crosswalk* for suggested courses.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who 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 or counselor for help with adjustments.

I	II	III	IV
CPSC230 MATH151 or 161	CPSC231 MATH152 or 162 PHYS251	CPSC260 MATH253	