

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Avionics Flightline Maintenance  
Associate in Applied Science Degree

Curriculum Code: 1046 (Effective Fall 2008 – Summer 2013)

Aviation electronics (avionics) is the application of electronics to aviation. Avionics technicians install, troubleshoot, and service complex communication, navigation, radar, autopilot, and related electronic systems. The avionics flightline work environment is fast paced, well organized, and dictated by the airline flight schedule. Students will find employment opportunities in airlines, airports, aircraft manufacturers, and government agencies. In addition, LCC offers on-site testing for the FCC General Radiotelephone Operator License. New students do not need any special skills to begin the Avionics Flightline Maintenance Program. **Not all courses in this program transfer to all colleges.** Students planning to transfer should see an academic advisor or counselor 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 Aviation Program at the LCC Aviation Center, 3428 W. Hangar Drive, Lansing, MI 48906, Room 102, telephone number (517) 483-1406 or the Transportation Technologies Department, West Campus Building, Room M103, telephone number (517) 267-5880 (Website: [www.lcc.edu/transportation/aviation/](http://www.lcc.edu/transportation/aviation/)).

### REQUIREMENTS

CODE	TITLE	TOTAL: 64 CREDITS CREDIT HOURS
AVAF 134	Aircraft Instruments	2
AVAF 208	Aircraft Structures I	4
AVAF 209	Aircraft Structures II	4
AVAF 211	Aircraft Electrical I	4
AVEL 200	Flight Line Testing	2
AVEL 201	Flight Line Testing Lab	1
AVEL 203	Avionics System Interconnect I	3
AVEL 211	Avionics Sys Interconnect II	3
AVEL 223	Adv Avionics Trng/Troubleshoot	5
AVEL 227	Advanced Avionics Systems	2
AVGM 111	Aviation General I	4
AVGM 112	Aviation General II	6
AVGM 113	Aviation General III	4
CITS 170	Basic Electronics for PC Repair	6
MATH 114	Technical Math I	4
MATH 115	Technical Math II	4
SPCH 110	Oral Comm in the Workplace	3
WRIT 124	Technical Writing	3

**LIMITED CHOICE REQUIREMENTS****TOTAL: 7-9 CREDITS**Complete the indicated number of credits from **EACH CHOICE** listed below.**CHOICE 1: General Education Core Areas****7-9 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.)

Communication Core Area (See Note 1)	0
Global Perspectives and Diversity Core Area	3-4
Mathematics Core Area (See Note 1)	0
Science Core Area	4-5
Writing Core Area (See Note 1)	0

<b>MINIMUM TOTAL</b>	<b>71</b>
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**NOTES:**

1. Students completing "REQUIREMENTS" have fulfilled the requirements for this Core area.
2. Students must complete all courses with a minimum grade of 2.0 to receive the LCC Associate Degree.

**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 or counselor for help with adjustments.

<b>I – Fall</b>	<b>II – Spring</b>	<b>III – Summer</b>	<b>IV – Fall</b>
AVGM 111	AVAF 208	AVAF 134	AVAF 209
AVGM 112	AVAF 211	SPCH 110	AVEL 200
AVGM 113	AVEL 203	Lim.Ch.	AVEL 201
WRIT 124	MATH 114		CITS 170
			Lim.Ch.

**V – Spring**


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AVEL 211  
 AVEL 223  
 AVEL 227  
 MATH 115