

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Avionics Flightline Maintenance  
Associate in Applied Science Degree

Curriculum Code: 1046 (Effective Fall 2005 – Summer 2010)

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 109, telephone number (517) 483-1406.

### REQUIREMENTS

| CODE    | TITLE                               | TOTAL: 65 CREDITS<br>CREDIT HOURS |
|---------|-------------------------------------|-----------------------------------|
| AVAF134 | Aircraft Instruments                | 2                                 |
| AVAF208 | Aircraft Structures I               | 4                                 |
| AVAF209 | Aircraft Structures II              | 4                                 |
| AVAF211 | Aircraft Electrical I               | 4                                 |
| AVEL150 | Avionics Test Equipment             | 2                                 |
| AVEL151 | Avionics Test Equipment Lab         | 1                                 |
| AVEL190 | Receiver Troubleshooting            | 2                                 |
| AVEL191 | Receiver Troubleshooting Lab        | 1                                 |
| AVEL200 | Flight Line Testing                 | 2                                 |
| AVEL201 | Flight Line Testing Lab             | 1                                 |
| AVEL220 | Avionics Systems I                  | 3                                 |
| AVEL221 | Avionics Systems I Lab              | 2                                 |
| AVEL225 | FCC License Preparation             | 1                                 |
| AVEL230 | Avionics Systems II                 | 3                                 |
| AVEL231 | Avionics Systems II Lab             | 2                                 |
| AVGM111 | Aviation General I                  | 4                                 |
| AVGM112 | Aviation General II                 | 6                                 |
| AVGM113 | Aviation General III                | 4                                 |
| ELTE126 | Digital Basics                      | 3                                 |
| MATH114 | Technical Math I                    | 4                                 |
| MATH115 | Technical Math II                   | 4                                 |
| SPCH110 | Oral Communication in the Workplace | 3                                 |
| WRIT124 | 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   |

**MINIMUM TOTAL****72****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</b> | <b>II</b> | <b>III</b> | <b>IV</b> |
|----------|-----------|------------|-----------|
| AVGM111  | AVAF208   | AVAF134    | AVEL220   |
| AVGM112  | AVAF211   | AVEL190    | AVEL221   |
| AVGM113  | AVEL150   | AVEL191    | ELTE126   |
| SPCH110  | AVEL151   | AVEL200    | MATH115   |
| WRIT124  | MATH114   | AVEL201    | Lim.Ch.   |
| <b>V</b> |           |            |           |
| AVAF209  |           |            |           |
| AVEL225  |           |            |           |
| AVEL230  |           |            |           |
| AVEL231  |           |            |           |
| Lim.Ch.  |           |            |           |