



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**Program: IT-Mobile Applications Developer 1718 Academic Year**

**Lakeland University Program: Computer Science - Computer Science emphasis**

**Minimum GPA for admission: 2.0**

**Review Date: 9/6/17**

**General Education Courses**

| Madison College                                |                                  |           | Lakeland   |                                 |           |
|--|----------------------------------|-----------|--|---------------------------------|-----------|
| Course No.                                     | Course Title                     | Credits   | Course No.                                       | Course Title/Field              | Credits   |
| 10-801-195                                     | Written Communication            | 3         | GEN 110  | Composition I                   | 3         |
| 10-809-199                                     | Psychology Of Human Relations    | 3         |  | A Social Sciences course        | 3         |
| 10-801-196                                     | Oral/Interpersonal Communication | 3         | COM 111  | Fundamentals of Public Speaking | 3         |
| 10-804-144                                     | Math of Finance                  | 3         |  | An elective course              | 3         |
| 10-809-197                                     | Contemporary American Society    | 3         |  |                                 | 3         |
| <b>Total general education credits earned:</b> |                                  | <b>15</b> | <b>Total general education credits accepted:</b> |                                 | <b>15</b> |

**Occupational Courses**

| Course No.                            | Course Title                                | Credits   | Course No. | Course Title                       | Credits |
|---------------------------------------|---|-----------|------------|------------------------------------|---------|
| 10-107-111                            | Exploration of Information Technology       | 1         |            | An elective course                 | 1       |
| 10-151-102                            | IT Security Awareness                       | 1         |            | An elective course                 | 1       |
| 10-152-119                            | Introduction to Programming with JavaScript | 3         | CPS 200    | Programming I                      | 3       |
| 10-152-120                            | Website Development-HTML5                   | 3         | CPS 280    | Special Topics in Computer Science | 3       |
| 10-152-124                            | Introduction to Databases                   | 3         | CPS 210    | Database Basics                    | 3       |
| 10-152-111                            | Java Programming                            | 3         | CPS 315    | Object-Oriented Programming I      | 3       |
| 10-152-121                            | Advanced Website Development--XML           | 3         |            | An elective course                 | 3       |
| 10-152-125                            | SQL Database Programming                    | 3         |            | An elective course                 | 3       |
| 10-152-130                            | Systems Design                              | 3         | CPS 445    | Systems Analysis & Design          | 3       |
| 10-107-175                            | Preparation for an IT Career                | 1         |            | An elective course                 | 1       |
| 10-152-112                            | Advanced Java Programming                   | 3         | CPS 316    | Object-Oriented Programming II     | 3       |
| 10-152-131                            | Systems Analysis                            | 3         |            | An elective course                 | 3       |
| 10-152-139                            | iOS Development                             | 3         |            | An elective course                 | 3       |
| 10-152-168                            | AJAX and JavaScript Web Development         | 3         |            | An elective course                 | 3       |
| 10-152-174                            | IT Mobile Development Internship            | 3         | CPS 400    | Internship in Computer Science     | 3       |
| 10-152-189                            | Android Applications Development            | 3         | CPS 435    | Mobile Application Development     | 3       |
|                                       | Recommended elective or general elective    | 3         |            |                                    |         |
| <b>Total of Occupational/Elective</b> |   | <b>45</b> |            |                                    |         |
| <b>Total transferable credits:</b>    |   | <b>60</b> |            |                                    |         |

**NOTE: Transfer credits noted assume completed Associate's Degree.**

|                                       |           |
|---------------------------------------|-----------|
| <b>Total of Occupational/Elective</b> | <b>42</b> |
| <b>Total transferable credits:</b>    | <b>60</b> |

**Courses needed to complete degree at Lakeland University:**

| Course No.  | Course Title   | Credits   |
|---|--|-----------|
| GEN 112   | Composition II   | 3         |
| MAT 130   | Intermediate Algebra   | 3         |
| <b>Complete a min. of 3 semester credits in 6 of the 7 categories listed below:</b> |  |           |
|   | Number of semester hours still needed                          | 18        |
|   | Mathematics  |           |
|   | World Languages  |           |
|   | History & Political Science                                    |           |
|   | Art, Music & Theatre   |           |
|   | Philosophy & Religion  |           |
|   | Natural Science  |           |
|   | Literature and Writing   |           |
| GEN 3XX   | CORE II  | 3         |
| GEN4XX  | CORE III   | 3         |
| CPS 212   | Programming II   | 3         |
| CPS 362   | Introduction to Data Structures                                | 3         |
| CPS 442   | Data Management, Warehousing & Mining                          | 3         |
| MAT 250   | Discrete Mathematics   | 3         |
|   | Additional semester hours of computer science emphasis courses | 9         |
|   | Number of electives needed to reach 120 semester hour minimum: | 9         |
| <b>Total credits needed at Lakeland University to complete degree:</b>              |  | <b>60</b> |