



## Program Pathway – B.A.S Information Technology

This map is a term-by-term sample course schedule. Highlighted courses have been identified as "key courses." It is strongly advised that students make every effort to pass these courses on the first attempt with a "C" or higher in order to be successful in this program. The milestones listed below each year are designed to keep you on course to graduate in four years. Missing milestones could prevent you from being eligible for a particular program or could result in a delay in graduation. The Program Pathway serves as a general guideline to help you build a full schedule each term.

| First Year – Fall |                                 |           |                                   |
|-------------------|---------------------------------|-----------|-----------------------------------|
| Course Number     | Course Title                    | Credits   | Pre-requisites                    |
| ENGL 1101 *       | English Composition I           | 3         | Minimum SAT/ACT/Accuplacer scores |
| MATH 1111         | College Algebra                 | 3         | Minimum SAT/ACT/Accuplacer scores |
| CAPS 1140         | Microcomputer Operating Systems | 3         |                                   |
| CAPS 1145         | Intro to Networks               | 3         |                                   |
| POLS 1101         | American Government             | 3         | ENGL 0999 unless exempt           |
| PRSP 1050*        | Perspectives in STEM            | 1         |                                   |
| Semester Total    |                                 | <b>16</b> |                                   |

| First Year – Spring            |                                           |           |                           |
|--------------------------------|-------------------------------------------|-----------|---------------------------|
| Course Number                  | Course Title                              | Credits   | Pre-requisites            |
| ENGL 1102 *                    | English Composition II                    | 3         | ENGL 1101 ('C' or higher) |
| CAPS 1270                      | Switching, Routing, & Wireless Essentials | 3         | CAPS 1145                 |
| BUSA 2201                      | Fundamentals of Computer Applications     | 3         | MATH 1101 or higher       |
| CAPS 1275 (S)(guided elective) | Computer Systems/Networking Security      | 3         | CAPS 1140                 |
| CMPS 1301 (guided elective)    | Principles of Programming I               | 3         | MATH 1111                 |
| Semester Total                 |                                           | <b>15</b> |                           |

| First Year Milestones                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Complete ENGL 1102, MATH 1111, CAPS 1140, and CAPS 1270</li> <li>• Meet with your advisor</li> <li>• Explore career options</li> <li>• Meet with Career and Professional Development as needed</li> </ul> |

| <b>Second Year – Fall</b>          |                               |                |                                                                         |
|------------------------------------|-------------------------------|----------------|-------------------------------------------------------------------------|
| <b>Course Number</b>               | <b>Course Title</b>           | <b>Credits</b> | <b>Pre-requisites</b>                                                   |
| CAPS 1152 (F)                      | Linux                         | 3              | CAPS 1140                                                               |
| CAPS 1240 (F)<br>(guided elective) | Advanced Topics in CAPS       | 3              | CAPS 1270                                                               |
| CAPS 1390 (F)<br>(guided elective) | Introduction to Cybersecurity | 3              | Complete 2 of the following: CAPS 1145, CAPS 1152, CMPS 1301, CMPS 1302 |
| English Elective                   | Any ENGL 2xxx                 | 3              | Co-req ENGL 1102                                                        |
| Lab science                        | Lab Science Sequence I        | 4              | varies                                                                  |
| <b>Semester Total</b>              |                               | <b>16</b>      |                                                                         |

| <b>Second Year – Spring</b>    |                                                 |                |                       |
|--------------------------------|-------------------------------------------------|----------------|-----------------------|
| <b>Course Number</b>           | <b>Course Title</b>                             | <b>Credits</b> | <b>Pre-requisites</b> |
| CAPS 1276                      | Enterprise Networking, Security, and Automation | 3              | CAPS 1270             |
| CAPS 1400<br>(guided elective) | IoT: Connecting Things                          | 3              | CAPS 1145             |
| ITEC 3251* (S)                 | Linux II                                        | 3              | CAPS 1152             |
| MATH 1401                      | Introduction to Statistics                      | 3              | MATH 1101 or higher   |
| Lab science                    | Lab Science Sequence II                         | 4              | varies                |
| <b>Semester Total</b>          |                                                 | <b>16</b>      |                       |

| <b>Second Year Milestones</b>                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Meet with your advisor</li> <li>• Continue exploring career options</li> <li>• Consider job shadowing</li> <li>• Meet with Career and Professional Development as needed</li> </ul> |

| <b>Third Year – Fall</b>          |                                         |                |                           |
|-----------------------------------|-----------------------------------------|----------------|---------------------------|
| <b>Course Number</b>              | <b>Course Title</b>                     | <b>Credits</b> | <b>Pre-requisites</b>     |
| MGIS 3351 *                       | Principles of Management Info Systems   | 3              | BUSA 2201 ('C' or higher) |
| MGIS 3352 * (F)                   | Management Applications Programming I   | 3              | BUSA 2201 ('C' or higher) |
| ELCT 1100<br>(F)(guided elective) | PC Maintenance and T-shooting           | 3              | CMPS 1130 or BUSA 2201    |
| ITEC elective*                    | Options: ITEC 3361, 3362, 4800, or 4900 | 3              | varies                    |
| HIST 211X                         | United States History                   | 3              | ENGL 0999 unless exempt   |
| <b>Semester Total</b>             |                                         | <b>15</b>      |                           |

| <b>Third Year – Spring</b>         |                                                                 |                |                                      |
|------------------------------------|-----------------------------------------------------------------|----------------|--------------------------------------|
| <b>Course Number</b>               | <b>Course Title</b>                                             | <b>Credits</b> | <b>Pre-requisites</b>                |
| MGIS 3353 *(S)                     | Management Applications Programming II                          | 3              | BUSA 2201, MGIS 3352 ('C' or higher) |
| ELCT 2120 (S)<br>(guided elective) | A+ Certification Review                                         | 3              | ELCT 1100                            |
| ITEC elective*                     | Options: ITEC 3361, 3362, 4800, or 4900                         | 3              | varies                               |
| Area E elective                    | Subject options: ANTH, ECON, GEOG, HIST, PHIL, POLS, PSYC, SOCI | 3              | varies                               |
| COMM 1110                          | Fundamentals of Speech                                          | 3              | Coreq ENGL 0999 unless exempt        |
| <b>Semester Total</b>              |                                                                 | <b>15</b>      |                                      |

| <b>Third Year Milestones</b>                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Meet with your advisor</li> <li>• Have completed resume and submit on Handshake</li> <li>• Attend a Career Fair</li> <li>• Explore internship opportunities</li> <li>• Meet with Career and Professional Development as needed</li> </ul> |

| <b>Fourth Year – Fall</b>     |                                               |                |                           |
|-------------------------------|-----------------------------------------------|----------------|---------------------------|
| <b>Course Number</b>          | <b>Course Title</b>                           | <b>Credits</b> | <b>Pre-requisites</b>     |
| MGIS 3356 *(F)                | Database Management Systems                   | 3              | MGIS 3351                 |
| Upper-level elective*         | Subject options: ITEC, MGIS, MNGT, COMM       | 3              | varies                    |
| Upper-level elective*         | Subject options: ITEC, MGIS, MNGT, COMM       | 3              | varies                    |
| Humanities/Fine Arts elective | Subject options: ENGL, ARTS, HUMN, MUSC, THEA | 3              | varies                    |
| MGIS 3390 *(F)                | Management of IS Security                     | 3              | MGIS 3351 ('C' or higher) |
| <b>Semester Total</b>         |                                               | <b>15</b>      |                           |

| <b>Fourth Year – Spring</b> |                                                                 |                |                                 |
|-----------------------------|-----------------------------------------------------------------|----------------|---------------------------------|
| <b>Course Number</b>        | <b>Course Title</b>                                             | <b>Credits</b> | <b>Pre-requisites</b>           |
| Area E elective             | Subject options: ANTH, ECON, GEOG, HIST, PHIL, POLS, PSYC, SOCI | 3              | varies                          |
| MGIS 4701 *(S)              | Systems Analysis and Design                                     | 3              | MGIS 3352, 3356 ('C' or higher) |
| Upper-level elective*       | Subject options: ITEC, MGIS, MNGT, COMM                         | 3              | varies                          |
| Upper-level elective*       | Subject options: ITEC, MGIS, MNGT, COMM                         | 3              | varies                          |
| <b>Semester Total</b>       |                                                                 | <b>12</b>      |                                 |

| <b>Fourth Year Milestones</b>                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Meet with your faculty advisor</li> <li>• Check and polish resume with Career and Professional Development</li> <li>• Submit Graduation Application to Office of Enrollment Services the semester before you intend to graduate</li> <li>• Apply to Graduate School and/or jobs</li> </ul> |

Notes:

\* Denotes grade of 'C' or higher required

Courses with (F) designates fall only courses, (S) designates spring only

*The Program Pathway is not a contract, neither expressed or implied, between the student and Dalton State College, but represents a flexible program of the current catalog's curriculum which may be altered at any time to carry out the academic objectives of the College.*