

## Associate of Applied Science – Information Technology (Networking – System Administration Option)

Name: \_\_\_\_\_ ID#: \_\_\_\_\_ Date: \_\_\_\_\_

Networks drive the speed of business. The demand for information in the global economy requires consistent and robust network connectivity. Networking professionals provide this ever-increasing need. MACC offers a path to this exciting career through our nationally recognized Cisco Academy. In two semesters, an individual can prepare to become a Cisco Certified Network Associate (CCNA) and also be eligible for the widely recognized A+ certification. For those who wish to pursue the full Networking degree, MACC offers coursework in Linux Administration and Windows Server Management. Networking graduates are prepared to enter the field or transfer to a four-year institution. MACC also offers a 32 credit hour certificate and a Certificates of Specialization in this field. This academic map is a suggested semester-by-semester schedule of courses based upon the AAS degree requirements as outlined in the academic catalog.

| Taken | Course                                         | Semester                                                                                                          | Hours        | Milestone*                 |
|-------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------|----------------------------|
|       |                                                | <b>First Semester (Fall)</b>                                                                                      |              |                            |
|       | BUS150 <u>or</u><br>LAL101                     | ^Business Communication <u>or</u><br>^Composition I                                                               | 3            | BUS150 <u>or</u><br>LAL101 |
|       | ITC106                                         | IT Essentials                                                                                                     | 3            |                            |
|       | ITC125                                         | ^Object Oriented Programming I                                                                                    | 3            |                            |
|       | ITC145                                         | Web Design I                                                                                                      | 3            |                            |
|       | MTH140                                         | ^College Algebra                                                                                                  | 3            | MTH140                     |
|       | SKL101                                         | College Orientation                                                                                               | 1            | SKL101                     |
|       |                                                |                                                                                                                   | <b>16</b>    |                            |
|       |                                                | <b>Second Semester (Spring)</b>                                                                                   |              |                            |
|       | HST105 <u>or</u><br>HST106 <u>or</u><br>PSC105 | American History to 1865 <u>or</u><br>American History from 1865 <u>or</u><br>Introduction to American Government | 3            |                            |
|       | ITC120                                         | ^Programming I                                                                                                    | 3            | ITC120                     |
|       | ITC130                                         | Introduction to Networks                                                                                          | 5            | ITC130                     |
|       | ITC150                                         | Linux Administration I                                                                                            | 3            |                            |
|       | SPK101 <u>or</u><br>SPK120                     | Public Speaking <u>or</u><br>Interpersonal Communication                                                          | 3            |                            |
|       |                                                |                                                                                                                   | <b>17</b>    |                            |
|       |                                                | <b>Third Semester (Fall)</b>                                                                                      |              |                            |
|       |                                                | <u>Humanities***</u>                                                                                              | 3            |                            |
|       | ITC201                                         | ^Relational Database Systems – <b>Fall Only</b>                                                                   | 3            |                            |
|       | ITC230                                         | ^Wireless and Switching Essentials – <b>Fall Only</b>                                                             | 5            |                            |
|       | ITC258                                         | ^Windows Server Management I (1 <sup>st</sup> 8-weeks) – <b>Fall Only</b>                                         | 3            |                            |
|       | ITC259                                         | ^Windows Server Management II (2 <sup>nd</sup> 8-weeks) – <b>Fall Only</b>                                        | 3            |                            |
|       | ITC295 <u>or</u><br>SKL250                     | ^Information Technology Internship <u>or</u><br>^Employment Seminar                                               | 1-6          |                            |
|       |                                                |                                                                                                                   | <b>18</b>    |                            |
|       |                                                | <b>Fourth Semester (Spring)</b>                                                                                   |              |                            |
|       |                                                | <u>Biological or Physical Science (with lab)</u>                                                                  | 4-5          |                            |
|       | ITC231                                         | ^Enterprise Networking – <b>Spring Only</b>                                                                       | 3            |                            |
|       | ITC250                                         | ^Linux Administration II – <b>Spring Only</b>                                                                     | 3            |                            |
|       | ITC255                                         | ^Cyber Security – <b>Spring Only</b>                                                                              | 3            |                            |
|       | ITC282                                         | ^Systems Project: Networking                                                                                      | 3            |                            |
|       |                                                |                                                                                                                   | <b>16-17</b> |                            |
|       |                                                | <b>Minimum Required Hours for Degree</b>                                                                          | <b>67</b>    |                            |

\*It is strongly recommended that students successfully complete the Milestone courses as planned on the academic map to ensure completion of the degree in two years. In addition, if students do not successfully complete the Milestone course(s), they are strongly encouraged to re-enroll in the course(s) the following semester.

\*\*Note for all Information Technology AAS degrees and certificates (32 credit hour and Certificates of Specialization): A grade of "C" or better must be achieved in all required ITC courses (course prefix "ITC") to earn an AAS degree, 32 credit hour certificate, or Certificate of Specialization.



\*\*\* Core 42 approved humanities courses are located on the course description web pages for Art, Drama, Foreign Language, History, Language and Literature, Music, and Philosophy.

^Please refer to the course descriptions for pre/co-requisite and placement information. You can only register for these courses if you have met the prerequisite, placed into the course and/or enroll in the co-requisite course(s).

#### Additional Graduation Requirement

Missouri law, included in Senate Bill 807, requires every college student pursuing an associate's or bachelor's degree at a public institution to pass the Missouri Higher Education Civics Achievement Examination with at least a 70 percent to graduate. The rule will apply to the incoming class of first-time college students in the fall of 2019 and all students thereafter.