

### PROGRAM COURSE PATHWAY

The following sequence is the suggested pathway to complete the degree in two years. This sequence is based on satisfaction of all basic skills requirements and prerequisites and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your academic advisor for other options and to monitor your progress.

*Program Name: Computer Information Systems Administration, AAS*

*Program Learning Outcomes (PLOs):*

|                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Critically analyze IT problems for resolution given time and budget constraints.(3, 5, 6)                                                                                   |
| 2. Evaluate processes to insure the security and privacy of clientele and information, the rights of copyright holders, and the responsibilities of license users.(2, 3, 4, 5) |
| 3. Formulate a preliminary design and system study for an IT case study. (1, 2, 6)                                                                                             |
| 4. Analyze the relationship between DBMS (Database Management Systems) and the business information needed by the user.(3, 5, 6)                                               |
| 5. Examine the architecture for computer file storage systems including the process of data storage and access frameworks. (5, 6)                                              |
| 6. Based upon requirements, design a logical network, including the IP networking scheme and placement of network services.(3, 5, 6)                                           |

| Courses – Asterisk (*) indicates required program courses | AGEC course? | Terms** | Credits |
|-----------------------------------------------------------|--------------|---------|---------|
|-----------------------------------------------------------|--------------|---------|---------|

**First Semester: Fall**

|          |   |           |   |
|----------|---|-----------|---|
| ENG 101* | Y | F, SP, SU | 3 |
| CIS 115* |   | F, SP     | 3 |
| CIS 110* | Y | F, SP, SU | 3 |
| CIS 153* |   | F, SP     | 3 |
| CIS 143* |   | F, SP     | 3 |

**Second Semester: Spring**

|          |   |           |   |
|----------|---|-----------|---|
| ENG 102* | Y | F, SP, SU | 3 |
| MAT 151  | Y | F, SP, SU | 4 |
| BIO 100  | Y | F, SP, SU | 4 |
| CIS 116* |   | SP        | 3 |
| CIS 120* |   | F, SP     | 3 |

**Third Semester: Fall**

|          |   |           |   |
|----------|---|-----------|---|
| CIS 204  |   | F         | 3 |
| AST 101  | Y | F, SP     | 4 |
| SOC 131* | Y | F, SP, SU | 3 |
| BUS 206* |   | F, SP     | 3 |
| HUM 250  | Y | F, SP     | 3 |

**Fourth Semester: Spring**

|          |   |        |   |
|----------|---|--------|---|
| CIS 210* |   | F, SP  | 3 |
| CIS 270* |   | F, SP  | 3 |
| CIS 253* |   | F, SP  | 3 |
| CIS 208  |   | SP     | 3 |
| BUS 207* |   | F, SP  | 3 |
| ART 230  | Y | SP, SU | 3 |

**Key:**

SP= Spring

F= Fall

SU= Summer

1. Aesthetic Sensibilities: An awareness of creative expression in the world around us.
2. Communication Skills: The ability to effectively convey meaning through various media on both personal and professional levels.
3. Critical Thinking Skills and Problem-Solving: The ability to analyze data and arrive at logical and defensible conclusions.
4. Cultural Diversity and Global Awareness: An appreciation of relationships and differences in values, customs, and norms of diverse global communities.
5. Techniques of Inquiry: Use of standardized methodological framework to collect, analyze, interpret, and present findings.
6. Technological Competency: A proficiency in evolving technology to compete and flourish in society.

**Total credits****66****Optional Courses:**

Student may take MAT 142 instead of MAT 151

Student may take two courses from Section C of the AGEC-A instead of ART 230 and HUM 250

Student may take two courses from Section E of the AGEC-A instead of BIO 100 and AST 101

Student may choose two courses from the following four courses instead of taking CIS 204 and CIS 208: CIS 200, CIS 204, CIS 206, CIS 208, CSC 110

Student should consider taking a course during the summer if possible to lighten semester loads

\*\*terms not guaranteed