**FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE**

**INFORMATION TECHNOLOGY/**

**DATABASE MANAGEMENT (A25590B)**

Effective: Fall 2024

Revised: 02/07/24

Length: 5 Semesters

Prerequisite: High School Diploma, Placement Test Equivalent

Award: Associate in Applied Science

**SEMESTER 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| ACA120 | Career Assessment | 1 | 0 | 0 | 1 |
| or |  |  |  |  |  |
| ACA122 | College Transfer Success | 0 | 2 | 0 | 1 |
| CIS110 | Introduction to Computers | 2 | 2 | 0 | 3 |
| CTI110 | Web, Pgm, I DB Foundation | 2 | 2 | 0 | 3 |
| CTI120 | Network & Sec Foundation | 2 | 2 | 0 | 3 |
| DBA110 | Database Concepts | 2 | 3 | 0 | 3 |
| ENG-110 | Freshman Composition | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| ENG111 | Writing and Inquiry | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **11** | **9** | **0** | **16** |

**SEMESTER 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| CTS115 | Info Sys Business Concepts | 3 | 0 | 0 | 3 |
| DBA120 | Database Programming I | 2 | 2 | 0 | 3 |
| NET110 | Networking Concepts | 2 | 2 | 0 | 3 |
| NOS110 | Operating Systems Concepts | 2 | 3 | 0 | 3 |
|  | Math Elective | 2 | 2 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **11** | **9** | **0** | **15** |

**SEMESTER 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| COM120 | Intro Interpersonal Com | 3 | 0 | 0 | 3 |
| or |  |  |  |  |  |
| COM231 | Public Speaking | 3 | 0 | 0 | 3 |
|  | Social/Behavioral Science Elective | 3 | 0 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **6** | **0** | **0** | **6** |

**SEMESTER 4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| DBA210 | Database Administration | 2 | 3 | 0 | 3 |
| DBA221 | SQL Server DB Prog II | 2 | 2 | 0 | 3 |
| or |  |  |  |  |  |
| DBA240 | Database Analysis/Design | 2 | 3 | 0 | 3 |
| DBA271 | SQL Server Perf Tuning | 2 | 2 | 0 | 3 |
| SEC110 | Security Concepts | 2 | 2 | 0 | 3 |
|  | Major Elective | 2 | 2 | 0 | 3 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **10** | **11** | **0** | **15** |

**SEMESTER 5**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prefix No.** | Title | **Class** | **Lab** | **Clinical** | **Credit** |
| CTI141 | Cloud & Storage Concepts | 1 | 4 | 0 | 3 |
| DBA261 | SQL Server DBMS Admin | 2 | 2 | 0 | 3 |
| DBA289 | Database Project | 1 | 4 | 0 | 3 |
|  | Humanities Fine Arts Elective | 3 | 0 | 0 | 3 |
|  | Major Elective | 2 | 2 | 0 | 2 |
|  |  | ----- | ----- | ----- | ----- |
|  | **Totals** | **9** | **12** | **0** | **14** |

**TOTAL REQUIRED CREDITS... 66**

**Work-Based Learning Option**: Qualified students may elect to take up to three (3) credit hours of Work-Based Learning in lieu of

 a Major elective provided they acquire approval from the Work-Based Learning Coordinator and the Department Chairperson.

**\*Note:** Students **may not** take an introductory foreign language to fulfill the Humanities/Fine Arts requirement.