



Department of Computer Science and  
Information Technology College of Science, Technology,  
Engineering, and Math (2025-26)

**Suggested Curriculum Guide for Cyber Systems Technology (Tech Systems Concentration), B.S., CST (TS)**

**Freshman (1<sup>st</sup> Semester) 18 hrs**

|                                                                                                                                                 |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---|
| GSD 101 Foundations of Learning                                                                                                                 | 3 |
| TEC 161 <u>or</u> INF 104- Computer Applications in Technology <u>or</u><br>Computer Literacy with Software Applications                        | 3 |
| † Concentration Elective                                                                                                                        | 3 |
| † Concentration Elective                                                                                                                        | 3 |
| Ⓐ MAT 112A <u>and</u> 112B (or higher, such as MAT 114 or 120) (fulfills<br>Gen. Ed. 2)- Algebra: Polynomials <u>and</u> Functions and Matrices | 3 |
| Gen. Ed. 1A (ENG 101)                                                                                                                           | 3 |

**Sophomore (1<sup>st</sup> Semester) 12-13 hrs**

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Ⓐ ECO 120 (or higher) (fulfills Gen. Ed. 5B)- Economic Reasoning and<br>Issues | 3   |
| † Concentration Elective                                                       | 3   |
| † Concentration Elective                                                       | 3   |
| Gen. Ed. 1C (Comm.)                                                            | 3   |
| Free Elective                                                                  | 0-1 |

**Junior (1<sup>st</sup> Semester) 15 hrs**

|                                            |   |
|--------------------------------------------|---|
| AEM 202- Introduction to Quality           | 3 |
| EET 252- Digital Electronics               | 3 |
| NET 302- PC Troubleshooting & Construction | 3 |
| NET 303- LANs & PC Communications          | 3 |
| Gen. Ed. 3A (Arts)                         | 3 |

**Senior (1<sup>st</sup> Semester) 15-17 hrs**

|                                                                                                                                                                                             |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| AEM 407 (fall only) <u>or</u> CIS 410- Fundamentals of Project<br>Management <u>or</u> Project Management and Practice                                                                      | 3   |
| AEM 352, EET 253, EET 351, <u>or</u> NET 440- Robotics and Automated<br>Systems, Microprocessor Control Systems, Programmable Logic<br>Controllers, <u>or</u> Wired/Wireless Communications | 3   |
| NET 349- Applied Learning in NET                                                                                                                                                            | 1   |
| * Supporting Course Elective                                                                                                                                                                | 3   |
| Gen. Ed. 3B Course 2                                                                                                                                                                        | 3   |
| Free Elective (Co-op, NET 395, or NET 454 recommended)- Co-<br>op, Special Topics in NET, <u>or</u> Wireless/WAN Security                                                                   | 2-4 |

**Freshman (2<sup>nd</sup> Semester) 15 hrs**

|                          |   |
|--------------------------|---|
| † Concentration Elective | 3 |
| † Concentration Elective | 3 |
| Gen. Ed 1B (ENG 102)     | 3 |
| Free                     | 3 |
| Elective                 | 3 |
| Free                     | 3 |
| Elective                 | 3 |

**Sophomore (2<sup>nd</sup> Semester) 15-16 hrs**

|                                                                                           |     |
|-------------------------------------------------------------------------------------------|-----|
| Ⓐ PHY 101 (or higher) (fulfills Gen. Ed. 4)-Conceptual Physics                            | 3   |
| STA 215 <u>or</u> 270- Introduction to Statistical Reasoning <u>or</u> Applied Statistics | 3-4 |
| † Concentration Elective                                                                  | 3   |
| † Concentration Elective                                                                  | 3   |
| Gen. Ed. 3B (Humanities) Course 1                                                         | 3   |

**Junior (2<sup>nd</sup> Semester) 15 hrs**

|                                           |   |
|-------------------------------------------|---|
| AEM 310- Technical Communication          | 3 |
| NET 343- Network Switches & Routers       | 3 |
| NET 354- Microcomputer & Network Security | 3 |
| NET 361- Cloud Technology Foundations     | 3 |
| NET 403- Advanced LANs & PC Communication | 3 |

**Senior (2<sup>nd</sup> Semester) 15 hrs**

|                                     |   |
|-------------------------------------|---|
| AEM 408- Human Resource Development | 3 |
| NET 467- Exit Exam for BS in NET    | 0 |
| NET 499- Senior Capstone            | 3 |
| Gen. Ed. 4 (Nat. Sci.)              | 3 |
| Gen. Ed. 5A                         | 3 |
| (History)                           | 3 |
| Gen. Ed. 5B Course 2                | 3 |

*Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.*

**UNIVERSITY GRADUATION REQUIREMENTS**

**Total hours University Graduation Requirements**

**39 hours**

**Core Courses**

**34 hours**

AEM 202, AEM 310, AEM 408, EET 252, NET 302, NET 303, NET 343, NET 349, NET 354, NET 361, NET 403, NET 499

**Program Electives**

**9 hours**

Select THREE (3) hours from: AEM 407, CIS 410

Select THREE (3) hours from: AEM 352, EET 253, EET 351, NET 440

Select THREE (3) hours from: INF 104, TEC 161

**Concentration Requirements**

**24 hours**

† TWENTY-FOUR (24) HOURS of course work in computer systems, electricity and electronics, and networking related technical electives as approved by major adviser. (This concentration is recommended for transfer students).

**Supporting Course Requirements**

**7-8 hours**

Ⓐ ECO 120, Ⓐ MAT 112A and Ⓐ MAT 112B, Ⓐ PHY 101, STA 215 or STA 270

PLUS THREE (3) HOURS of AAC, AEM, CCT, CIS, FIN, GBU, MGT, MKT, or RMI upper division electives as approved by major advisor (supporting course elective)

**Free Electives**

**7-8 hours**

Co-operative education, NET 349, recommended as free electives or NET 395 (Special Topics in NET) taken with a unique topic.

Students with an ACT Math sub-score of 19-21 may consider taking CSC 101 (The World of Code) to build computing competencies early in the degree program.

