

CURRICULUM GUIDE

3+2 Cyber Systems Technology (Tech Systems Concentration), 3+2 CST (TS)

2022-2023

Website: <https://www.eku.edu/csit/>

Email Contact: kuangnan.chang@eku.edu

3+2 CST (TS) program coordinator: vigs.chandra@eku.edu

Department of Computer Science and Information Technology (CSIT)

521 Lancaster Ave.

417 Wallace Bldg.

Richmond, KY 40475

859-622-2398

The schedule below is an **EXAMPLE** of how you can arrange your class schedule. Please consult your advisor for specific changes that may need to be made.

| | Fall Semester | Spring Semester |
|---|--|---|
| Freshman Year | † Concentration Elective 3 † Concentration Elective 3 SCO 100 1 (TEC 161 or INF 104) 3 ^g MAT 112A <u>and</u> 112B (or higher, such as MAT 114 or 120) (fulfills Gen. Ed. 2) 3 Gen. Ed. 1A (ENG 101) 3 TOTAL 16 | † Concentration Elective 3 † Concentration Elective 3 Free elective (Gen. Ed. 3A recommended) 3 Free elective (Gen. Ed. 5A recommended) 3 Gen. Ed 1B (ENG 102) 3 TOTAL 15 |
| Sophomore Year | † Concentration Elective 3 † Concentration Elective 3 Free elective (Gen. Ed. 3A recommended) 0-1 Gen. Ed. 1C (Oral Comm.) 3 ^g ECO 120 (or higher) (fulfills Gen. Ed. 5B) 3 TOTAL 12-13 | † Concentration Elective 3 † Concentration Elective 3 ^g PHY 101 (or higher) (fulfills Gen. Ed. 4) 3 (STA 215 <u>or</u> 270) 3-4 Gen. Ed. 3B (Humanities) 3 TOTAL 15-16 |
| Junior Year | AEM 202 3 EET 252 3 NET 302 3 NET 303 3 Gen. Ed. 3A (Arts) 3 TOTAL 15 | AEM 310 3 NET 343 3 NET 354 3 NET 361 3 NET 403 3 TOTAL 15 |
| Senior Year | AEM 804 3 (EET 351, AEM 352, EET 253, <u>or</u> NET 440) 3 NET 349 1 NSM 815 3 Gen. Ed. 5A (History) 3 Gen. Ed. 6 (Div. of per. and exp.) 3 TOTAL 16 | AEM 408 3 NET 467 0 NET 499 (ACCT) 3 NSM 845 3 Gen. Ed. 4 (Nat. Sci.) 3 Gen. Ed. 6 (Div. of per. and exp.) 3 TOTAL 15 |
| TOTAL HOURS TO DEGREE COMPLETION | | 120 |

| Course Number | Course Name |
|---|--|
| GENERAL EDUCATION & UNIVERSITY REQUIREMENTS (37) | |
| SCO 100 | Student Success Seminar (1) |
| CORE COURSE REQUIREMENTS (43) | |
| AEM 202 | Introduction to Quality (3) |
| AEM 310 | Technical Communication (3) |
| AEM 408 | Human Resource Development (3) |
| AEM 804 | Project Management (3) |
| EET 252 | Digital Electronics (3) |
| NET 302 | PC Troubleshooting & Construction (3) |
| NET 303 | LANs & PC Communications (3) |
| NET 343 | Network Switches & Routers (3) |
| NET 349 | Applied Learning in NET (1) |
| NET 354 | Microcomputer & Network Security (3) |
| NET 361 | Cloud Technology Foundations (3) |
| NET 403 | Advanced LANs and PC Communication (3) |
| NET 499 | Senior Capstone (3) (spring only) |
| NSM 815 | Foundations of Network Security (3) |
| NSM 845 | Advanced Server Security (3) |
| PROGRAM ELECTIVES (6) | |
| Select THREE (3) HOURS from: | |
| AEM 352 | Robotics and Automated Systems (3) |
| EET 253 | Microprocessor Control Systems (3) |
| EET 351 | Programmable Logic Controllers (3) |
| NET 440 | Wired/Wireless Communications (3) |
| Select THREE (3) HOURS from: | |
| INF 104 | Computer Literacy with Software Applications (3) |
| TEC 161 | Computer Applications in Technology (3) |
| TECH SYSTEMS CONCENTRATION REQUIREMENTS (24) | |
| † 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 (3-4) | |
| ^g ECO 120 | Economic Reasoning and Issues (3) |
| ^g MAT 112A <u>and</u> | Algebra: Polynomials (1.5) |
| ^g MAT 112B | Algebra: Functions and Matrices (1.5) |
| ^g PHY 101 | Conceptual Physics (3) |
| STA 215 <u>or</u> | Introduction to Statistical Reasoning (3) |
| STA 270 | Applied Statistics (4) |
| EXIT REQUIREMENT (0) | |
| NET 467 | Exit Exam for BS in NET (0) |
| FREE ELECTIVES (6-7) | |
| Co-operative education, NET 349, recommended as free electives or NET 395 (Special Topics in NET) taken with a unique topic. | |

* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division courses in your major.

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

Upper division courses: All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at <http://www.catalogs.eku.edu/> regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103.

Applied Critical & Creative Thinking (ACCT) Requirement: Cyber Systems Technology majors will fulfill ACCT with NET 499. (Credit hours are incorporated into program requirements.)