CURRICULUM GUIDE

Cyber Systems Technology (Tech Systems Concentration), B.S., CST (TS)
2023-2024
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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.

\begin{tabular}{|c|c|c|c|c|}
\hline \& \multicolumn{2}{|l|}{Fall Semester} \& \multicolumn{2}{|l|}{Spring Semester} \\
\hline Freshman Year \& \begin{tabular}{l}
\[
\text { SCO } 100
\] \\
(TEC 161 or INF 104) \\
\(\dagger\) Concentration Elective \\
\(\dagger\) Concentration Elective \\
\({ }^{\text {G MAT }} 112 \mathrm{~A}\) and 112 B (or higher, such as MAT 114 or 120) (fulfills Gen. Ed. 2) \\
Gen. Ed. 1A (ENG 101) \\
TOTAL
\end{tabular} \& \begin{tabular}{l}
\[
\begin{aligned}
\& 1 \\
\& 3 \\
\& 3 \\
\& 3
\end{aligned}
\] \\
3
3 \\
16
\end{tabular} \& \begin{tabular}{l}
\(\dagger\) Concentration Elective \\
\(\dagger\) Concentration Elective \\
Gen. Ed 1B (ENG 102) \\
Free Elective \\
Free Elective \\
TOTAL
\end{tabular} \& 3
3
3
3
3

15 \\
\hline Sophomore Year \& ```
` ECO 120 (or higher) (fulfills Gen.
Ed. 5B)
\dagger Concentration Elective
\dagger Concentration Elective
Gen. Ed. 1C (Comm.)
Free Elective
TOTAL

``` & \[
\begin{array}{r}
3 \\
3 \\
3 \\
3 \\
0-1
\end{array}
\] & ```
` PHY }101\mathrm{ (or higher) (fulfills
    Gen. Ed. 4)
(STA 215 or 270)
\dagger Concentration Elective
\dagger Concentration Elective
Gen. Ed. 3B (Humanities)
TOTAL
``` & \[
\begin{array}{r}
3 \\
3-4 \\
3 \\
3 \\
3
\end{array}
\] \\
\hline Junior Year & \begin{tabular}{l}
AEM 202 \\
EET 252 \\
NET 302 \\
NET 303 \\
Gen. Ed. 3A (Arts) \\
TOTAL
\end{tabular} & \begin{tabular}{l}
\[
\begin{aligned}
& \hline 3 \\
& 3 \\
& 3 \\
& 3 \\
& 3
\end{aligned}
\] \\
15
\end{tabular} & \begin{tabular}{l}
AEM 310 \\
NET 343 \\
NET 354 \\
NET 361 \\
NET 403 \\
TOTAL
\end{tabular} & 3
3
3
3
3 \\
\hline Senior Year & \begin{tabular}{l}
AEM 407 or CIS 410 \\
AEM 352, EET 253, EET 351, or \\
NET 440 \\
NET 349 \\
¥ Supporting Course Elective Gen. Ed. 6 (Div. of per. and exp.) \\
Free Elective (Co-op, NET 395, or NET 454 recommended) \\
TOTAL
\end{tabular} & \begin{tabular}{l}
3 \\
3 \\
2-4 \\
15-17
\end{tabular} & \begin{tabular}{l}
AEM 408 \\
NET 467 \\
NET 499 \\
Gen. Ed. 4 (Nat. Sci.) \\
Gen. Ed. 5A (History) \\
Gen. Ed. 6 (Div. of per. and exp.) \\
TOTAL
\end{tabular} & 3
0
3
3
3
3 \\
\hline \multicolumn{4}{|r|}{TOTAL HOURS TO DEGREE COMPLETION} & 120 \\
\hline
\end{tabular}
* PREREQUISITES: Consult with your advisor and/or the University catalog regarding prerequisites for upper division
courses in your major.

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.
\begin{tabular}{|c|c|}
\hline \begin{tabular}{l}
Course \\
Number
\end{tabular} & Course Name \\
\hline \multicolumn{2}{|l|}{GENERAL EDUCATION \& UNIVERSITY REQUIREMENTS (37)} \\
\hline SCO 100 & Student Success Seminar (1) \\
\hline \multicolumn{2}{|l|}{CORE COURSE REQUIREMENTS (34)} \\
\hline AEM 202 & Introduction to Quality (3) \\
\hline AEM 310 & Technical Communication (3) \\
\hline AEM 408 & Human Resource Development (3) \\
\hline EET 252 & Digital Electronics (3) \\
\hline NET 302 & PC Troubleshooting and Construction (3) \\
\hline NET 303 & LANs and PC Communications (3) \\
\hline NET 343 & Network Switches and Routers (3) \\
\hline NET 349 & Applied Learning in NET (1) \\
\hline NET 354 & Microcomputer and Network Security (3) \\
\hline NET 361 & (3) \\
\hline NET 403 & Advanced LANs and PC Communication (3) \\
\hline NET 499 & Senior Capstone (3) (spring only) \\
\hline \multicolumn{2}{|l|}{PROGRAM ELECTIVES (9)} \\
\hline \multicolumn{2}{|l|}{Select THREE (3) HOURS from:} \\
\hline AEM 407 & Fundamentals of Project Management (3) (fall only) \\
\hline CIS 410 & Project Management and Practice (3) \\
\hline \multicolumn{2}{|l|}{Select THREE (3) HOURS from:} \\
\hline AEM 352 & Robotics and Automated Systems (3) \\
\hline EET 253 & Microprocessor Control Systems (3) \\
\hline EET 351 & Programmable Logic Controllers (3) \\
\hline NET 440 & Wired/Wireless Communications (3) \\
\hline \multicolumn{2}{|l|}{Select THREE (3) HOURS from:} \\
\hline INF 104 & Computer Literacy with Software Applications (3) \\
\hline TEC 161 & Computer Applications in Technology (3) \\
\hline \multicolumn{2}{|l|}{TECH SYSTEMS CONCENTRATION REQUIREMENTS (24)} \\
\hline \multicolumn{2}{|l|}{\(\dagger\) 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).} \\
\hline \multicolumn{2}{|l|}{SUPPORTING COURSE REQUIREMENTS (6-7)} \\
\hline \begin{tabular}{l}
\({ }^{6}\) ECO 120 \\
\({ }^{6}\) MAT 112A and \\
\({ }^{6}\) MAT 112B \\
\({ }^{6}\) PHY 101
\[
\binom{\text { STA } 215 \text { or }}{\text { STA } 270}
\]
\end{tabular} & \begin{tabular}{l}
Economic Reasoning and Issues (3) \\
Algebra: Polynomials (1.5) \\
Algebra: Functions and Matrices (1.5) \\
Conceptual Physics (3) \\
Introduction to Statistical Reasoning (3) \\
Applied Statistics (4)
\end{tabular} \\
\hline \multicolumn{2}{|l|}{\(\ddagger\) 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)} \\
\hline \multicolumn{2}{|l|}{EXIT REQUIREMENT (0)} \\
\hline NET 467 & Exit Exam for BS in NET (0) \\
\hline \multicolumn{2}{|l|}{FREE ELECTIVES (9-10)} \\
\hline \multicolumn{2}{|l|}{\begin{tabular}{l}
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.
\end{tabular}} \\
\hline
\end{tabular}
\({ }^{6}\) Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.```

