

CYBER SYSTEMS TECHNOLOGY, BACHELOR OF SCIENCE (B.S.) & TECHNOLOGY MANAGEMENT MASTER OF SCIENCE (M.S.) [TECH SYSTEMS CONCENTRATION] ACCELERATED 3+2 DUAL DEGREE PROGRAM

Students accepted to the 3+2 Accelerated Dual Degree Program are able to complete their B.S. degree and M.S. degree within five calendar years because of the accelerated curriculum and because nine semester hours of graduate coursework will apply to both the undergraduate B.S. degree and the graduate M.S. degree. Only undergraduate students of proven academic ability will be considered for the program. Students should be aware that, in order to maintain their progress in the accelerated 3+2 program, careful coordination with their advisor is required. Depending upon undergraduate progress at the time of 3+2 admission, some summer-school classes may be needed.

The Cyber Systems Technology degree program has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College's Associate in Applied Science degree in Engineering Technology with Electrical Specialization.

Prerequisites may be required for some course selections.

Students must take at least one computer systems, networking, security, electronics, or telecommunications technology certification or license exam approved by the advisor.

Students must take a Cyber Systems Technology exit examination before graduation. Graduates must have an overall GPA of 2.25 in major requirements.

The Cyber Systems Technology program is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

Admission Requirements

Students interested in this option must satisfy all of the following conditions:

1. Junior or Senior standing
2. Overall grade point average (GPA) of at least 3.0 at the time of admission to the 3+2 program
3. Approval from department and Graduate School (see the form at <http://gradschool.eku.edu/graduate-school-forms> (<http://gradschool.eku.edu/graduate-school-forms/>))
4. Must maintain an overall undergraduate and graduate grade point average (GPA) of at least 3.0 to continue in the 3+2 program.

Program Requirements

CIP Code: 15.1299

Summary Checklist for General Education

| Code | Title | Hours |
|--------------------|---|-----------|
| Element 1 | | |
| A: | Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| B: | Written Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| C: | Oral Communication (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-1/) | 3 |
| Element 2 | | |
| | Quantitative Reasoning (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-2/) | 3 |
| Element 3 | | |
| A: | Arts (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/) | 3 |
| B: | Humanities (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-3/) | 3 |
| Element 4 | | |
| | Natural Sciences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-4/) | 6 |
| Element 5 | | |
| A: | Historical Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/) | 3 |
| B: | Social Behavioral Science (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-5/) | 3 |
| Element 6 | | |
| | Diversity of Perspectives Experiences (http://catalogs.eku.edu/undergraduate/general-academic-information/general-education-requirements/element-6/) | 6 |
| Total Hours | | 36 |

Students are expected to complete Elements 1 and 2 within their first 60 hours of college credit.

Major

| Code | Title | Hours |
|---|--|-------|
| University Graduation Requirements | | |
| General Education | | 36 |
| <i>Student Success Seminar</i> | | |
| SCO 100 | Student Success Seminar (waived for transfers with 30+ hrs.) | 1 |
| Upper division courses (42 hrs. distributed throughout Major/Supporting/Gen Ed/Free Electives categories) | | |
| Major Requirements | | |
| <i>Core Courses</i> | | |
| AEM 202 | Introduction to Quality | 3 |
| AEM 310W | 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 395 | Special Topics in NET | 3 |
| NET 403 | Advanced LANSs and PC Communication | 3 |
| NET 499 | Senior Capstone | 3 |
| NSM 815 | Foundations of Network Sec | 3 |
| NSM 845 | Advanced Server Security | 3 |

Major Electives

| | | |
|------------|--|---|
| AEM 352 | Robotics and Automated Systems | 3 |
| or EET 253 | Microprocessor Control Systems | |
| or EET 351 | Programmable Logic Controllers | |
| or NET 440 | Wired/Wireless Communications | |
| TEC 161 | Computer Applications in Technology | 3 |
| or INF 104 | Computer Literacy with Software Applications | |

Concentrations

Students must select one of the following Concentrations:

| | |
|--------------------------------|----|
| Network Security & Electronics | |
| Tech Systems | 24 |

Supporting Course Requirements

| | | |
|---------------------|---|-----|
| AEM 804 | Project Management | 3 |
| ECO 130 | Contemporary Economic Problems (or higher) (Element 5B) ^G | |
| MAT 112A & MAT 112B | Algebra: Polynomials and Algebra: Functions & Matrices (or higher) (Element 2) ^G | |
| PHY 101 | Conceptual Physics (or higher) (Element 4) ^G | |
| STA 215 | Introduction to Statistical Reasoning | 3-4 |
| or STA 270 | Applied Statistics | |

Free Electives

| | |
|---|-----|
| Choose from 3-4 hours of free electives | 3-4 |
|---|-----|

Exit Requirements

Students must take an exit examination before graduation. An exam fee is required.

| | | |
|---------|-------------------------|---|
| NET 467 | Exit Exam for BS in NET | 0 |
|---------|-------------------------|---|

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|--------------------|------------|
| Total Hours | 120 |
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Course also satisfies a General Education element. A maximum of six hours will count toward Element 4. Hours are included within the 36 hr. General Education requirement above.

Concentration

| Code | Title | Hours |
|---|-------|-----------|
| Concentration Courses | | |
| Choose from 24 hours of computer systems, electricity & electronics, and networking technical electives as approved by major advisor. This is the recommended option for transfer students. | | |
| Total Hours | | 24 |

Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.)

See Technology Management, Master of Science with a Concentration in Cyber Systems Tech Security (M.S.) (<http://catalogs.eku.edu/graduate/science-technology-engineering-mathematics/applied-engineering-technology/technology-management-concentration-cyber-systems-tech-security-ms/>)