

ENGINEERING TECHNOLOGY MANAGEMENT, BACHELOR OF SCIENCE (B.S.) AND TECHNOLOGY MANAGEMENT MASTER OF SCIENCE (M.S.) [TECHNOLOGY 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.

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: 15.1501

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+ hours) | 1 |
| Upper division courses (42 hours distributed throughout Major/Supporting/Gen Ed/Free Electives categories) | | |
| Major Requirements | | |
| <i>Core Courses</i> | | |
| AEM 195 | Computer Aided Drafting | 3 |
| AEM 202 | Introduction to Quality | 3 |
| AEM 308 | Methods of Lean Operations | 3 |
| AEM 310W | Technical Communication | 3 |
| AEM 332 | Process Control and Auditing | 3 |
| AEM 349 | Applied Learning in Industrial Technology | 1 |
| AEM 408 | Human Resource Development | 3 |
| AEM 499 | Senior Capstone Project | 3 |
| AEM 706 | Six Sigma Quality | 3 |
| AEM 801 | Economics for Lean Operations | 3 |
| AEM 804 | Project Management | 3 |
| STA 215 | Introduction to Statistical Reasoning | 3-4 |
| | or STA 270 Applied Statistics | |
| TEC 161 | Computer Applications in Technology | 3 |

Concentrations

Students must select one of the following Concentrations:

Manufacturing

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| Technology | 30 |
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Supporting Course Requirements

Choose from one of the following:

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| CHE 101 & 101L | Introductory Chemistry and Introductory Chemistry Lab (Element 4) ^G |
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| CHE 111 & 111L | General Chemistry and General Chemistry Lab I (Element 4) ^G |
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| Choose from 0-3 hours of the following: | 0-3 |
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| ECO 120 | Economic Reasoning and Issues (Element 5B) ^G |
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| ECO 230 | Fundamentals of Microeconomics (Element 5B) ^G |
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| ACC 200 | Survey of Accounting |
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| Choose from 3-6 hours of the following: | 3-6 |
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| MAT 120 | Trigonometry (Element 2) ^G |
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| MAT 211 | Applied Calculus |
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| MAT 261 | |
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Or choose six hours of higher-level MAT courses

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| PHY 131 | College Physics I (Element 4) ^G |
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Exit Requirements

Students must take an AEM assessment examination before graduation (CR only, no hours). An exam fee is required.

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| AEM 467 | Comprehensive Exam for BS in ETM | 0 |
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Free Electives

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| Choose from 6-10 hours of free electives | 6-10 |
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| Total Hours | 120 |
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Course also satisfies a General Education element. Hours are included within the 36 hr. General Education requirement above. A maximum of six hours can apply toward Element 4.

Concentration

| Code | Title | Hours |
|--|-------|-----------|
| Concentration Courses | | |
| Choose from 30 hours of approved technical electives | | 30 |
| Total Hours | | 30 |