

**Curriculum Change Form**  
**(Present only one proposed curriculum change per form)**  
**(Complete only the section(s) applicable.)**

**Part I**

(Check one)	Department Name	Technology
<input type="checkbox"/> New Course (Parts II, IV)	College	Business & Technology
<input type="checkbox"/> Course Revision (Parts II, IV)	*Course Prefix & Number	
<input type="checkbox"/> Hybrid Course ("S," "W")	*Course Title (30 characters)	
<input type="checkbox"/> Course Dropped (Part II)	*Program Title	Industrial Technology (B.S.)
<input type="checkbox"/> New Program (Part III)		(Major <input checked="" type="checkbox"/> , Option __; Minor __; or Certificate __)
<input checked="" type="checkbox"/> Program Revision (Part III)		
<input type="checkbox"/> Program Suspended (Part III)	*Provide only the information relevant to the proposal.	

Proposal Approved by:	<u>Date</u>		<u>Date</u>
Departmental Committee	10/2/2009	Graduate Council*	N/A
<i>Is this a SACS Substantive Change?</i>	Yes**** <input type="checkbox"/> No <input checked="" type="checkbox"/>	Council on Academic Affairs	
College Curriculum Committee	10/14/2009	Approved <input checked="" type="checkbox"/> Disapproved <input type="checkbox"/>	<del>FFB</del> <del>JBEJ</del>
General Education Committee*	N/A	Faculty Senate**	
Teacher Education Committee*	N/A	Board of Regents**	
		Council on Postsecondary Edu.***	

\*If Applicable (Type NA if not applicable.)  
\*\*Approval needed for new, revised, or suspended programs  
\*\*\*Approval/Posting needed for new degree program or certificate program  
\*\*\*\*If "yes", SACS must be notified before implementation. Please contact EKU's Office of Institutional Effectiveness.

**Completion of A, B, and C is required: (Please be specific, but concise.)**

**A. 1. Specific action requested:** (Example: To increase the number of credit hours for ABC 100 from 1 to 2.)

- Change name of major program from Industrial Technology to Applied Engineering Management
- Change course prefixes of program from INT to AEM
- Suspend the Industrial Distribution option.
- Reduce requirement of four hours of cooperative study in technology (AEM 349) to one hour.
- Drop two courses, AEM 238 and AEM 330, from the list of required courses and add a new four-credit course, AEM 338, to the list of required courses.
- Add AEM 301 and 338 as required courses to the program core.
- Add AEM 332 as a required course to the program core while dropping a three-credit elective.
- Drop three credits of general electives from the program.

**9. Decrease number of hours in program from 128 to 120.**

**A. 2. Effective date:** (Example: Fall 2001)  
~~Oct~~ 2010

**A. 3. Effective date of suspended programs for currently enrolled students:** (if applicable)  
Suspend the Industrial Distribution option of the Industrial Technology (B.S.) as of Summer 2010.

**B. The justification for this action:**

1. The body that accredits the Industrial Technology program completed a year-long self-study in an effort to understand and better reflect changes in the field. As part of this effort, the organization determined that a name change was appropriate. The name has been changed from the "National Association of Industrial Technology" to the "Association of Technology, Management, and Applied Engineering." In keeping with the findings of the study, the Industrial Technology Curriculum Committee voted to change the name of the degree program to "Applied Engineering Management." The full faculty of the Department of Technology concurred.
2. A prefix change is recommended to bring it in line with the program name change.
3. The Industrial Technology Curriculum Committee voted to suspend the Industrial Distribution option due to low enrollments. The full faculty of the Department of Technology concurred.
4. The proposed change from a requirement of four hours of cooperative study in technology to one hour is based on the effort to reduce the overall program credit requirement from 128 to 120 credit hours. Most students exceed the required number of cooperative study hours in any case.
5. AEM 201 (Metallic Material Processes), AEM 238 (Industrial Materials), AEM 301 (Non-Metallic Material Processes), and AEM 330 (Dimensional Metrology) necessarily have some content overlap. The Industrial Technology Curriculum Committee believes that some of that overlap can be eliminated without loss of content coverage by developing a new four-credit course, AEM 338 (Engineered Materials Testing) and integrating the material from the AEM 238 and AEM 330 courses over the other three courses (AEM 201, AEM 301, and AEM 338). This results in a net reduction of two credits from the program total.
6. AEM 238, 301, and 330 were all required courses in the Manufacturing option, but were not identified as being in the core since they were not required by the Industrial Distribution option. Since that program has been recommended for suspension, AEM 301 can be moved to the core along with the replacement course (AEM 338) for the other two courses.
7. AEM 202 has been a difficult course for many students in the program due to the amount and nature of material covered. For that reason, there are proposed modifications to the required quality course, AEM 202, that would change the focus of the course from a primarily quantitative approach to one that addresses the key concepts behind the modern quality movement. The Industrial Advisory Committee has previously recommended that the quantitative requirements for quality control topics in the program not be reduced. In the past, there has been significant overlap in terms of quantitative topics between AEM 202 (Quality Control) and AEM 332 (Process Control and Auditing), so the addition of AEM 332 to the required core along with the elimination of a three-credit elective was the recommendation of the Industrial Technology Curriculum Committee.
8. The proposed reduction of three credits of general electives from the program is based on the effort to reduce the overall program credit requirement from 128 to 120 credit hours.
9. The reduction in total number of hours needed for completing the program from 128 to 120 will reduce the burden on students while still meeting accreditation requirements. The impact on the curriculum should be minimal given the proposed changes:
  - a. Reduction in the cooperative study requirement from four credits to one credit (3 credit reduction).
  - b. Replace one 3-credit elective course with AEM 332 as a required course for Industrial Technology majors (0 credit reduction).
  - c. Drop AEM 238 and AEM 330 from the curriculum. Add a new 4-credit course, AEM 338 to the curriculum (2 credit reduction).
  - d. Drop one 3-credit general elective course from the curriculum.

The reduction to 120 credit hours will encourage transfers from the Kentucky Community and Technical College System (KCTCS) in a streamlined 2+2 format.

**C. The projected cost (or savings) of this proposal is as follows:**

**Personnel Impact:**

None

**Operating Expenses Impact:**

None

**Equipment/Physical Facility Needs:**

None

**Library Resources:**

None

**New or Revised\* Catalog Text**

(\*Use ~~striethrough~~ for deletions and underlines for additions. Also include Crs. Prefix, No., and description, limited to 35 words.)

**Part III. Recording Data for New, Revised, or Suspended Program**

1. For a new program, provide the catalog description as being proposed.
2. For a revised program, provide the current program requirements using ~~striethrough~~ for deletions and *underlines* for additions.
3. For a suspended program, provide the current program requirements as shown in catalog. List any options and/or minors affected by the program's suspension.

New or Revised\* Program Text  
 (\*Use ~~strikethrough~~ for deletions and underlines for additions.)

**Applied Engineering Management ~~Industrial Technology~~ (Formerly Industrial Technology) (B.S.) Area Major**

*CIP Code: 15.0612*

Prior to enrolling in the last 60 hours of the Applied Engineering Management ~~Industrial Technology~~ degree program students must complete ~~INT 238, AEM 201, 202, TEC 161, 190, MAT 108, PHY 131, CHE 101, 107 (1) or CHE 111, 115 (1); and STA 215 or STA 270 or QMB 200~~ and have an overall 2.0 GPA and 2.25 major GPA. Graduates must have an overall GPA of 2.25 in the major with no major grade below a "C-". Transfer students will be treated on an individual basis. The Applied Engineering Management ~~Industrial Technology~~ program is accredited by the Association of Technology, Management, and Applied Engineering. ~~National Association of Industrial Technology.~~

**University Requirement.....1 hour**

BTO 100.

**General Education Requirements.....30 hours**

Standard General Education program, excluding blocks II, IVB, VB, VII (3 hours), and VIII (6 hours). Refer to Section Four of this *Catalog* for details on the General Education and University requirements.

**College Requirement: Professional Skills Seminar**

BTS 300 (CR) and BTS 400 (CR).

**Supporting Course Requirements for Industrial Distribution.....42 hours**

~~ECO 230, MAT 108, 211 or 261 or 6 hours of higher level MAT courses; STA 215 or 270 or QMB 200 (credits included in GenEd VII); CHE 101, CHE 107 (1) or CHE 111, 115 (1); PHY 131 (5); ACC 201, ACC 202, GBU 201, GBU 204, MKT 300; select two courses from CCT 300, CIS 300, FIN 300, MGT 300.~~

**Supporting Course Requirements for Manufacturing.....~~22-28~~ hours**

ECO 230, CON 420 or ECO 300; MAT 108, 211 or 261 (or six hours of higher level MAT courses); PHY 131 (5); CHE 101, CHE 107 (1) or CHE 111, CHE 115 (1); STA 215 or 270 or QMB 200 (credits included in GenEd VII); ~~INT AEM 349 (1-4)~~.

**Major Requirements.....~~46-36~~ hours**

Applied Engineering Management ~~Industrial Technology~~ Core:

EET 251, AEM-INT 201, 202, 301, 308, 310, 332, 338 (4), 352, 371, 406, 408, 499; TEC 161, 190.

~~Major must select an option in Industrial Distribution or Manufacturing.~~

Options:

**Industrial Distribution.....18 hours**

~~INT 200, 320, 400, 506, MKT 312 or 401.~~

Select 3 hours of Upper Division technical electives from:

~~EET 351, INT 332, 336, 349, TEC 313.~~

**Applied Engineering Management electives Manufacturing.....~~15-24~~ hours**

~~INT 238, 301, 330.~~

Select 3 technical hours from:

EET 252, AEM-INT 192, 195; GCM 211.

Select 12 hours of Upper Division ~~U-D~~ technical electives from:

EET 350, 351, 452; NET 440; CON 303; AEM-INT 320, 332, 336, 383, 390, 392, 397, 506, 530; TEC 313.

**Free Electives (Industrial Distribution Option).....1 hour**

**Free Electives (Manufacturing Option).....~~6-9~~ hours**

**Total Curriculum Requirements.....~~120-128~~ hours**

The Department of Technology's Applied Engineering Management ~~Industrial Technology~~ degree program (Manufacturing Option) has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College (formerly Lexington Community College) Associate in Applied Science Degree in Engineering Technology with Electrical Specialization. In addition, the Department of Technology's Applied Engineering Management ~~Industrial Technology~~ degree program (~~Manufacturing Option~~) has an articulation agreement for transfer of credit and cooperation with Bluegrass Community and Technical College (formerly Central Kentucky Technical College) and Somerset Community and Technical College's Associate of Applied Science in General Occupational/Technical Studies including the areas of Machine Tool Technology, Industrial Maintenance, Industrial Electronics and Computer Aided Drafting. Students must take an assessment examination before graduation. An exam fee is required.

+Transfer students (~~Manufacturing Option~~) with an associate degree in an industrial related field may not need to take these 12 hours of electives if upper division requirement can be completed.

\* Applied Engineering Management ~~Industrial Technology~~ majors may apply AEM-INT 310 in lieu of CCT 300 toward the minor in Business.

~~Incorporates a Business Minor into the Industrial Distribution Option.~~