

Curriculum Change Form

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

Part I

(Check one) <input type="checkbox"/> New Course (Parts II, IV) <input type="checkbox"/> Course Revision (Parts II, IV) <input type="checkbox"/> Hybrid Course ("S," "W") <input type="checkbox"/> Course Dropped (Part II) <input type="checkbox"/> New Program (Part III) <input checked="" type="checkbox"/> Program Revision (Part III) <input type="checkbox"/> Program Suspended (Part III)	Department Name <u>Technology</u> College <u>Business & Technology</u> *Course Prefix & Number _____ *Course Title (<u>30 characters</u>) _____ *Program Title <u>Technology (A.A.S)</u> (Major ____, Option <input checked="" type="checkbox"/> ; Minor ____; or Certificate ____) *Provide only the information relevant to the proposal.																																				
Proposal Approved by: <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%; text-align: center;"><u>Date</u></td> <td style="width: 30%;"></td> <td style="width: 10%;"></td> <td style="width: 30%; text-align: center;"><u>Date</u></td> </tr> <tr> <td>Departmental Committee</td> <td style="text-align: center;"><u>5/1/2009 & 10/2/2009</u></td> <td>Graduate Council*</td> <td></td> <td style="text-align: center;">N/A</td> </tr> <tr> <td style="text-align: center;"><i>Is this a SACS Substantive Change?</i></td> <td style="text-align: center;"> Yes**** <input type="checkbox"/> No <input checked="" type="checkbox"/> </td> <td>Council on Academic Affairs</td> <td></td> <td></td> </tr> <tr> <td>College Curriculum Committee</td> <td style="text-align: center;"><u>10/14/2009</u></td> <td>Approved <input checked="" type="checkbox"/> Disapproved _____</td> <td></td> <td style="text-align: center;"><u>FFB JBEJ</u></td> </tr> <tr> <td>General Education Committee*</td> <td style="text-align: center;">N/A</td> <td>Faculty Senate**</td> <td></td> <td></td> </tr> <tr> <td>Teacher Education Committee*</td> <td style="text-align: center;">N/A</td> <td>Board of Regents**</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Council on Postsecondary Edu.***</td> <td></td> <td></td> </tr> </table>				<u>Date</u>			<u>Date</u>	Departmental Committee	<u>5/1/2009 & 10/2/2009</u>	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	<u>10/14/2009</u>	Approved <input checked="" type="checkbox"/> Disapproved _____		<u>FFB JBEJ</u>	General Education Committee*	N/A	Faculty Senate**			Teacher Education Committee*	N/A	Board of Regents**					Council on Postsecondary Edu.***		
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*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.)

<p>A. 1. Specific action requested: (Example: To increase the number of credit hours for ABC 100 from 1 to 2.)</p> <ol style="list-style-type: none"> 1. Change prefixes for networking and security related courses in the Computer Electronics and Digital Imaging Design option from "EET," to "NET." 2. Expand selection of Computer Science classes beyond CSC 160 (Intro. to programming) to include three hours of higher level computer science courses, not restricted to CSC 177 (Visual Basic). 3. Expand selection of general education physical science laboratory courses to include PHY 101 (Conceptual physics) courses in standard general education block IVB, not restricted to PHY 131 (College Physics I). 4. Drop EET254 as a requirement for the option and include NET 354 (Microcomputer & network security) formerly EET 354, as a required class. 5. Offer a selection between EET 351 (Programmable Logic Controllers), or NET 395 (Special Topics in NET) formerly EET 395. 6. Reduce the total number of hours in the Computer Electronics option from 44 to 39-40. 7. Change INT prefixes to AEM. 8. Drop INT 238 and 330 from the Quality Assurance option, and add AEM 338 (4) to the option. 9. Add CMS 210 (Public Speaking) as an alternate course to CMS 100 in all AAS degree options. <p>A. 2. Effective date: (Example: Fall 2001)</p> <p>08/ 2010</p> <p>A. 3. Effective date of suspended programs for currently enrolled students: (if applicable)</p> <p>N/A</p>	
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B. The justification for this action:

1. Following discussions in both the Computer Electronics curriculum committee and the advisory committees, the unanimous recommendation was to change the prefixes major courses for emphasizing the future direction of the major. The "NET," prefix change for classes related to computer networking and security reflects this, while retaining the EET prefix for electricity and electronics related major courses.
2. Three hours of CSC160 or a higher level computer science course will provide students with greater flexibility in course selection, and ease transfer coursework.
3. Expanding the selection of physical laboratory sciences to include a range of Physics courses based on the recommendation of the departmental curriculum and advisory committees. The Association of Technology, Management, and Applied Engineering (ATMAE), formerly National Association of Industrial Technology (NAIT) accreditation guidelines specify 3 or more hours of physical sciences - Physics, Chemistry, etc. Students in major will benefit by taking physical laboratory science courses including Physics (PHY 101) for developing an understanding of the physical world.
4. The essentials of microcontroller hardware and programming covered in EET 254 will be migrated into EET 253 (Microprocessor Systems) whose course description is being revised to reflect these changes. The integration of the microprocessor and microcontroller courses will enable students to learn about real-time control using embedded controllers and mechatronics. Program accreditation will be unaffected by this change.
5. The automation and control related course EET 351 will serve as a technical elective along with computer and network security course EET 354. Students entering computer electronics and technology related fields often work in fields related to either of these specialized areas. Including computer security concepts in the curriculum has been strongly supported by the computer electronics program advisory and curriculum committees.
6. Dropping EET 254 from the Computer Electronics option, and permitting an expanded selection of physical laboratory science courses from Gen Ed IVB, will reduce the total hours required by the option.
7. Changes with Industrial Technology to Applied Engineering Management.
8. The course AEM 338(Engineered Materials) Testing will consist primarily of material from INT [AEM] 238 (minus plastics testing) and the core of metrology (lab content) of INT [AEM] 330 with syllabus.
9. General education Block IC includes both CMS 100 (Intro. to Human Communication) and CMS210 (Public Speaking).

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

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 ~~strickethrough~~ 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 ~~strickethrough~~ for deletions and underlines for additions.)

Technology (A.A.S.)
 CIP Code: 15.0612

University Requirement	1 hour
BTO 100.	
General Education Requirements	18 hours
ENG 101 and 102 or 105 (6 hours); MAT 107 or higher (3 hours); humanities (3 hours); ECO 230 (3 hours); CMS 100 or 210 (3 hours).	
Option Requirements	39-44 <u>37-41</u> hours
Computer Aided Drafting (41 hours)	
CON 303; INT AEM 102, 195, 201, 330, 383, 390, 392, 397; MAT 108; PHY 131 (5); TEC 161, 190.	
Computer Electronics (44 39 hours)	
CSC 160 or 477 higher; <u>EET</u> 251, 252, 253, 254 , 257, <u>NET</u> 302, 303, 343, (<u>EET</u> 351 or <u>NET</u> 354), 399; MAT 108; PHY 131 (5) (<u>PHY</u> 101) in general education block IVB; TEC 161.	
Digital Imaging Design (40 hours)	
ART 100 or 152; CHE 101, 107 (1); CSC 160; EET <u>NET</u> 303; GCM 211, 217, 316, 317, 319; TEC 161, 255, 313, 355.	
Quality Assurance (39-40 <u>37-38</u> hours)	
CHE 101, 107 (1) or CHE 111, 115 (1); EET 251; INT AEM 201, 202, 238 , 301, 330 , 332, 336, <u>338(4)</u> ; MAT 108; QMB 200 or STA 215 or 270; TEC 161, 190.	
Free Electives	<u>1-6</u> 8 hours
Total Curriculum Requirements	<u>64</u> hours

Students must take an assessment examination before graduation.