

## MEMORANDUM

TO: Dr. Ana Borger-Greco  
Faculty Senate Chairperson

FROM: Vilas A. Prabhu  
Provost and Vice President  
for Academic Affairs

DATE: October 12, 2006

SUBJECT: APPROVAL OF FACULTY SENATE CURRICULAR RECOMMENDATIONS

As the President's designee, I am informing you of the approvals of the following Faculty Senate Curricular Actions.

### **Faculty Senate action at June 20, 2006, meeting:**

#### **New Undergraduate Course(s):**

##### **ITEC 140 – Bio-Related Technologies**

- 3 credits, Pre-requisites: none, required course for Technology Education and post-baccalaureate certification programs, offered as an experimental course fa06 (ITEC 179)
- CIP Code: 26.1201
- Faculty Load: Will be delivered within existing complement as it replaces ITEC 135.

##### **Approved, effective Spring 2007**

##### **ITEC 435 – Manufacturing Enterprise**

- 3 credits, Pre-requisites: ITEC 110, 120, 130, 140, 241, and 271, required course for Technology Education and post-baccalaureate certification programs
- CIP Code: 15.0613
- Faculty Load: Will be taught within complement – department will reduce the number of sections of elective/service courses starting with the academic year when these new upper level courses begin to be required.

##### **Approved, effective Spring 2007**

**New Undergraduate Course(s):**

**EDTE 496 – Innovation and Design Methodologies**

- 2 credits, Pre-requisites: ITEC 110, 120, 130, 140, and 344, and MATH 130 or higher, and ENGL 312 or 316, required course for Technology Education and post-baccalaureate certification programs
- CIP Code: 13.1309
- Faculty Load: Will be taught within complement – department will reduce the number of sections of elective/service courses starting with the academic year when these new upper level courses begin to be required.

**Approved, effective Spring 2007**

**Changes in Undergraduate Courses/Curricula:**

**EDTE 291 – Foundations of Technology Education**

- Require students to complete course with a grade of C or better. Update pre-requisite requiring students to achieve a C or better to register for junior block.
- Rationale: Course content has been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006 curriculum for BSE EDTE**

**EDTE 391 – Curriculum and Instruction in Technology Education**

- Require students to complete course with a grade of C or better. Update EDTE 391 pre-requisite requiring a C or better in EDTE 291 and that a minimum grade of C must be earned in EDTE 391 in order to progress to student teaching.
- Rationale: Course content has been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006 curriculum for BSE EDTE**

**EDTE 491 – Seminar in Technology Education**

- Update EDTE 491 pre-requisite requiring a C or better in EDTE 391. Course content has been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006 curriculum for BSE EDTE**

Please note that the following are minor curricular changes, so were not addressed by Faculty Senate. Notification of these changes was delayed until the B.S.E. Technology Education program had been approved.

### **ITEC 110 – Communication Systems**

- **REVISE Title: Communication and Information Systems.** Course content has been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006**

### **Changes in Undergraduate Courses/Curricula:**

### **ITEC 120 – Energy, Power, and Transportation Systems**

- Course content has been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006**

### **ITEC 241 – Drafting Communications**

- Course content has been updated in order to better meet current standards and practices in the field.
- The course has also been modified to compensate for the reduction of class time from 90 contact hours to 75 contact hours.

**Approved, effective Fall 2006**

### **ITEC 251 – Graphic Communications**

- **REVISE Title: Print Media Systems.**
- Add pre-requisite: ITEC 110
- Course content has been updated in order to better meet current practices in related fields.

**Approved, effective Fall 2006**

### **ITEC 261: Electrical/Electronic Systems I **REVISE Title: Electronic Systems****

### **ITEC 262: Electrical/Electronic Systems II - **REVISE Title: Semiconductor Electronics****

- Course contents have been updated in order to better meet expectations of the department's accrediting agencies, assist department to better prepare teacher candidates for positions in K-12 schools based on new standards and enhance ITEC students' knowledge in order to better prepare them for the remainder of their program.

**Approved, effective Fall 2006**

**Changes in Undergraduate Courses/Curricula:**

**ITEC 325 – Power Conversion and Control  
ITEC 326 – Fluid Power**

- Course contents have been updated in order to better meet current standards and practices in the field.

**Approved, effective Fall 2006**

**Changes in Undergraduate Courses/Curricula:**

B.S.E. Technology Education - Current Curriculum	Proposed Changes	Analysis/Implications
Total required credits for Graduation: 127	<b>REDUCE</b> total hours required to a minimum of 126 credits for graduation	Total required credits for Graduation: <b>126</b>
<u>BSE EDTE</u> <u>Major Field Requirements</u> <ul style="list-style-type: none"> <li>• Total hours required is a minimum of 127 credits for graduation</li> <li>• Technology Literacy Core: 12 credits</li> <li>• ITEC 110, 120, 130, 135</li> <li>• Intermediate Courses: 18 credits</li> <li>• ITEC 241, 251, 261, 262, 271, 281</li> <li>• Intermediate Courses – 9 credits of electives</li> <li>• Advanced Courses – 9 credits of electives</li> </ul>	<u>BSE EDTE</u> <u>Major Field Requirements</u> <ul style="list-style-type: none"> <li>• Technology Literacy Core: 12 credits <ul style="list-style-type: none"> <li>• Delete ITEC 135 ADD new course <b>ITEC 140</b></li> </ul> </li> <li>• Delete Intermediate and Advanced Course requirements; <b>RENAME</b> requirement TECHNICAL CORE; listing 36 credits of required courses</li> <li>• <b>Technical Core:</b> ITEC 241, 251, 261, 262, 271, 281, 325, 344, 346, <b>435</b>, and two techn. Lab electives</li> </ul>	<ul style="list-style-type: none"> <li>• 48 credits</li> </ul> Strengthen the technical and professional core of the curriculum to address changes in the field as reflected in state and national accreditation standards by: Adding 2 new courses: ITEC 140, 435; Converting some elective courses from current curric. to required courses (325,344,346); Updated many course contents; Reduced number of credits in program to 126 in order to meet the 126 credit mandate from PDE.
<u>Professional Education:</u> 28 credits <ul style="list-style-type: none"> <li>• EDFN 211, 241, EDTE 291, EDSE 321, EDTE 391, 461, 491</li> </ul>	<u>Professional Education:</u> 27 credits <ul style="list-style-type: none"> <li>• <b>DELETE</b> EDSE 321</li> <li>• <b>ADD</b> new, 2-credit course; EDTE 496</li> <li>• EDFN 211, 241, EDTE 291, EDTE 391, 496, 461, 491</li> <li>• <b>Require a minimum grade of "C" for EDTE 291, 391</b></li> </ul>	<ul style="list-style-type: none"> <li>• 27 credits</li> </ul> Adding one, two credit, professional education course: EDTE 496
<u>Required Related Courses:</u> 9-15 credits <ul style="list-style-type: none"> <li>• MATH (6.0 - 8.0 credits)</li> <li>• Choose two General Education approved MATH courses.</li> <li>• SCIENCE (3.0 - 4.0 credits)</li> <li>• CHEM 103, 205, PHYS 103</li> <li>• ENGLISH (3.0 credits)</li> <li>• ENGL 312 or ENGL 316 (coded in AW requirement)</li> </ul>	<u>Required Related Courses:</u> 15 credits <ul style="list-style-type: none"> <li>• MATH (6.0 - 8.0 credits)</li> <li>• Choose two General Education approved MATH courses.</li> <li>• SCIENCE (3.0 - 4.0 credits)</li> <li>• <b>ADD</b> BIOL 100 as an option of courses recommended for the G2 requirement</li> <li>• <b>BIOL 100</b>, CHEM 103, 205, PHYS 103</li> <li>• ENGLISH (3.0 credits)</li> <li>• ENGL 312 or ENGL 316</li> <li>• <b>ADD</b> G1 English Literature course</li> </ul>	<ul style="list-style-type: none"> <li>• 15 credits</li> </ul> Specifying another science course as an elective provides students with more flexibility for satisfying degree requirements.  A literature course is required at the direction of the Pennsylvania Department of Education (PDE).
<ul style="list-style-type: none"> <li>• G1 Requirements (12 credits)</li> </ul>	<ul style="list-style-type: none"> <li>• One ENGL Lit, required related course will satisfy G1</li> </ul>	<ul style="list-style-type: none"> <li>• 9 credits</li> </ul>
<ul style="list-style-type: none"> <li>• G2 Requirements (12 credits)</li> </ul>	<ul style="list-style-type: none"> <li>• Add BIOL 100 (at least 4 required related courses will satisfy G2 requirement)</li> </ul>	<ul style="list-style-type: none"> <li>• 3 credits</li> </ul>
<ul style="list-style-type: none"> <li>• G3 Requirements (12 credits)</li> </ul>	<ul style="list-style-type: none"> <li>• None</li> </ul>	<ul style="list-style-type: none"> <li>• 12 credits</li> </ul>
<ul style="list-style-type: none"> <li>• ENGL 110, COMM 100, P, AW, WELL Requirements (15 credits)</li> </ul>	<ul style="list-style-type: none"> <li>• ENGL 312 or 316 required AW course</li> </ul>	<ul style="list-style-type: none"> <li>• 12 credits</li> </ul>

**Approved, Effective Fall 2006**