

PROGRAM MODIFICATION PROPOSAL

Name of Institution
South Carolina State University

Name of Program (include concentrations, options, and tracks)
Industrial Education with an option in Industrial Technology

Program Designation

- | | |
|--|---|
| <input type="checkbox"/> Associate's Degree | <input type="checkbox"/> Master's Degree |
| <input checked="" type="checkbox"/> Bachelor's Degree: 4 Year | <input type="checkbox"/> Specialist |
| <input type="checkbox"/> Bachelor's Degree: 5 Year
Ph.D. and DMA) | <input type="checkbox"/> Doctoral Degree: Research/Scholarship (e.g., |
| <input type="checkbox"/> Doctoral Degree: Professional Practice (e.g., Ed.D., D.N.P., J.D., Pharm.D., and
M.D.) | |

Does the program qualify for supplemental Palmetto Fellows and LIFE Scholarship awards?

- Yes
 No

Proposed Date of Implementation
Spring 2015

CIP Code
131309

Delivery Site(s)
South Carolina State University, Main Campus, Orangeburg, SC

Delivery Mode

- | | |
|--|---|
| <input checked="" type="checkbox"/> Traditional/face-to-face*
*select if less than 50% online | <input type="checkbox"/> Distance Education
<input type="checkbox"/> 100% online |
| | <input type="checkbox"/> Blended (more than 50% online) |
| | <input type="checkbox"/> Other distance education |

Program Contact Information (name, title, telephone number, and email address)

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Institutional Approvals and Dates of Approval

Department Chairperson	July 1998
Dean of the College	July 1998
Vice President for Academic Affairs	July 1998

Background Information

Provide a detailed description of the proposed modification, including its nature and purpose and centrality to institutional mission. (1500 characters)

This program modification proposal is to update the SC CHE *Inventory of Academic Programs* to reflect the Industrial Technology option in the undergraduate Industrial Education program currently offered by South Carolina State University (SC State). The option was approved since 1998 by officials at the University but was never reported to CHE. As part of the Industrial Education program, the Industrial Technology option supports the mission of SC State by preparing highly skilled, competent, and socially aware graduates to enable them to work and live productively in a dynamic, global society.

The Industrial Technology option eliminates 29 credits (including the 12-credit *Professional Clinical Experiences* course required for teachers) in the Industrial Education program and replaces those with 18 credits of coursework in the fields of Electrical Engineering Technology, Mechanical Engineering Technology, Civil Engineering Technology, and Industrial Engineering Technology since the students pursuing this option are being trained as industrial engineering technicians instead of classroom instructors.

South Carolina State University is the only University in the state that offers Industrial Education and its technology option. Other institutions in the region have made similar modifications to their Industrial Education program. For example, North Carolina State University changed its Technology Education degree to Technology, Engineering, and Design Education.

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List the objectives of the modified program. (1500 characters)

The objectives of the Industrial Technology option are as follows:

1. Develop an understanding and acquire knowledge of the nature of technology.
2. Develop an understanding of technology and society.
3. Develop an understanding of design.
4. Develop abilities for a technological world.
5. Develop an understanding of the design world with practical applications.

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Assessment of Need

Provide an assessment of the need for the program modification for the institution, the state, the region, and beyond, if applicable. (1500 characters)

The Bureau of Labor Statistics, *Occupational Employment and Wages, May 2013*, indicates that Industrial Engineering Technicians usually work under the direction of engineering staff. They are occupied in the following industries: Semiconductor and Other Electronic Component Manufacturing, Aerospace Product and Part Manufacturing, Motor Vehicle Parts Manufacturing, Navigational, Measuring, Electromedical, and Control Instruments Manufacturing, and Plastics Product Manufacturing. The website www.indeed.com lists 2,411 manufacturing vacancies in South Carolina. Graduates in Industrial Technology will certainly be qualified for many of those jobs. For example, CMC Commercial Metals has an opening for a Mechanical Supervisor, and the UTI company has a vacancy for a Logistics Manager.

Will the proposed modification impact any existing programs and services at the institution?

Yes

No

If yes, explain. (1000 characters)

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List of Similar Programs in South Carolina

Program Name	Institution	Similarities	Differences
None			

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Faculty

Provide a brief explanation of any additional institutional changes in faculty and/or administrative assignment that may result from implementing the proposed program modification. (1000 characters)

No new faculty will be required since the Industrial Technology option is currently in existence and the goal of the modification is to update the CHE *Inventory of Academic Programs*.

Resources

Identify any new library/learning resources, new instructional equipment, and new facilities or modifications to existing facilities needed to support the modified program. (2000 characters)

No additional resources will be required since the Industrial Technology option is currently in existence and the goal of the modification is to update the CHE *Inventory of Academic Programs*.

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Financial Support

Estimated New Costs by Year						
Category	1st	2nd	3rd	4th	5th	Total
Program Administration						
Faculty and Staff Salaries						
Graduate Assistants						
Equipment						
Facilities						
Supplies and Materials						
Library Resources						
Other*						
Total						
Sources of Financing						
Category	1st	2nd	3rd	4th	5th	Total
Tuition Funding	211,848	232,024	252,200	272,376	292,552	1,261,000
Program-Specific Fees						
State Funding (i.e., Special State Appropriation)*						
Reallocation of Existing Funds*						
Federal Funding*						
Other Funding*						
Total						
Net Total (i.e., Estimated New Costs Minus Sources of	211,848	232,024	252,200	272,376	292,552	1,261,000

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Financing)						
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*Provide an explanation for these costs and sources of financing in the budget justification.

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Budget Justification

Provide a brief explanation for the other new costs and any special sources of financing (state funding, reallocation of existing funds, federal funding, or other funding) identified in the Financial Support table. (1000 characters)

Note: Institutions need to complete this budget justification *only* if any other new costs, state funding, reallocation of existing funds, federal funding, or other funding are included in the Financial Support table.

Since the Industrial Education program and the Industrial Technology option are currently existing with 19 students (which is an increase of 1 student compared to the previous year) there is an expectation of modest growth of an additional two students each year. However, this modest increase will **not** result in new costs for the next five years.

The revenue figures relate to tuition, which is \$10,088 per student per year. Fulltime students take 15 credit hours per semester. The tuition revenue reflects the enrollment figures in the table above.

Year 1 with 21 students X \$10,088 =\$211,848
Year 2 with 23 students X \$10,088 =\$232,024
Year 3 with 25 students X \$10,088 =\$252,200
Year 4 with 27 students X \$10,088 =\$272,376
Year 5 with 29 students X \$10,088 =\$292,552
Total Tuition for 5 Years =\$1,261,000

Evaluation and Assessment

Will any the proposed modification impact the way the program is evaluated and assessed?

Yes

No

If yes, explain. (1000 characters)

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Will the proposed modification affect or result in program-specific accreditation?

Yes

No

If yes, explain; if the modification will result in the program seeking program-specific accreditation, provide the institution's plans to seek accreditation, including the expected timeline for accreditation. (500 characters)

Will the proposed modification affect or lead to licensure or certification?

Yes

No

If yes, explain how the program will prepare students for licensure or certification. (500 characters)

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Teacher or School Professional Preparation Programs

Is the proposed modified program a teacher or school professional preparation program?

Yes

No

If yes, complete the following components.

Area of Certification

Attach a document addressing the South Carolina Department of Education Requirements and SPA or Other National Specialized and/or Professional Association Standards.

INDUSTRIAL TECHNOLOGY

TOTAL HOURS 120

First Semester

FRESHMAN

Second Semester

E150 English. I	3	E 151 Eng. Comp. II	3
Math M 151/ 152/ 153/ 154	3	M 155 Math	3
IT 121 Prod. & Struct. Design I	3	IT 122 Prod.& Struct. Design. II	3
IT 180 Intro Ind Tech.	2	CS 150, 151, MGT216	3
HED 151 / PE 150 / MS 101	2	ET 250, S 250, S 150, BA 331	3
Univ 101 Univ Comm	2		
	15		15

SOPHOMORE

First Semester

Second Semester

BSC 150 or 152 Bio Sci	3	PSC 150 or 152 Psc. Sci	3
BSC 151 or 153 Bio Sci. Lab	1	PSC 151 or 153 Psc. Sci Lab	1
ARTS 250 or M 250 or D 254	3	H 250 or H251	3
IT 251 Intro. To Comm	3	IT 381 Graphic Communication	3
IT 330 Tech. Concepts in Mfrg.	3	IT 221 Mfg. Tech	3
PS252, FCS251, ECON250, 255, ET 255	3	E 251 World Literature	3
	16		16

JUNIOR

First Semester

Second Semester

IT 211 Const. System	3	IT 331 Power Mechanics	3
IT 241 Transp. & Engy.	3	IT 252 Elect. & Electronics	3
IT 305 Psychology Applied to Work	3	ETS 250 African-Amer. His.	3
SOC 250, PSY 250, EPSY 250	3	IT 325 Construction Practice	3
Elective	3	Elective	4
	15		16

SENIOR

First Semester

Second Semester

IT 410 Facil. Plan. & Mgt.	3	Approved electives	12
IT 301 His. & Phil.	3		
TED 326 Tech. for Learners Spec. Needs	3		
TED 308 Method of Teaching	3		
Elective	3		
	15		12