



THE CONNECTICUT STATE UNIVERSITY

P.O. Box 2008 • New Britain, Connecticut 06050 • (203) 827-7700

Office of the President

RESOLUTION

concerning

LICENSURE APPLICATION

for

BACHELOR'S PROGRAM

in

ENGINEERING TECHNOLOGY

at

CENTRAL CONNECTICUT STATE UNIVERSITY

July 20, 1984

RESOLVED, That under the authority granted the Board of Trustees in Chapter 185b, Section 10a-87 and Chapter 185b, Section 10a-149 of the General Statutes, the President of the Connecticut State University is authorized to seek licensure from the Board of Governors for a Bachelor's degree in Engineering Technology to be presented by Central Connecticut State University.

A Certified True Copy:

James A. Frost
President

CONNECTICUT BOARD OF HIGHER EDUCATION

PROGRAM SUMMARY

61 WOODLAND STREET
HARTFORD, CONNECTICUT 06105

DESCRIPTION OF PROPOSED ACADEMIC PROGRAM OR DEGREE

PROGRAM NAME <u>Engineering Technology</u>		DATE OF SUBMISSION TO BHE <u>06/14, 1984</u>
TITLE OF DEGREE (and abbreviation) <u>Bachelor of Science</u>		
PROGRAM CODE NO. <u>1 5 9 9 9 9</u>	TITLE <u>Engineering and Engineering Related Technologies, Other</u>	
DEPARTMENT AND SCHOOL OR COLLEGE <u>Department of Engineering Technology and School of Technology</u>		
APPLICANT INSTITUTION <u>Central Connecticut State University</u>		PROPOSED INITIATION DATE <u>A.S.A.P.</u>
GEOGRAPHIC LOCATION OF PROGRAM <u>New Britain, Connecticut</u>		
INSTITUTIONAL LIAISON PERSON <u>Dr. H. B. Jestin</u>		TITLE <u>Central Conn State University Vice President for Academic Affairs</u>
BOARD OF TRUSTEES STAFF LIAISON (if applicable) <u>Dr. Thomas A. Porter, Vice President for Academic and Student Affairs, CSU, 827-7700</u>		TELEPHONE <u>827-7288</u>

SUMMARY (Describe the proposed academic program below and on a separate page if necessary.)

For more than a decade Central has had licensure/accreditation for "Industrial Engineering Technologies" at the bachelor's level. From its inception this program included a number of options or specializations, and over the years further curricular evolution has occurred. Much of this evolution has been in response to advice from an advisory committee representing the industrial firms which employ graduates of the program. One significant theme in this advice has been to strengthen the capacity of graduates to work in an intermediate, facilitating role between engineers on the one hand and craftsmen on the other. This advice has simultaneously called for strengthening the math and science capabilities of the students.

Accordingly, Central has been offering an option designated "Engineering Technology" under its approved program in "Industrial Engineering Technologies." The university has developed and is now in the second year of implementing a plan for the enhancement of the equipment and staffing of its total Industrial Engineering Technologies program. A part of this plan is to attain the quality standards in the Engineering Technology option which are sufficient for accreditation by the national organization, ABET--the Accreditation Board for Engineering and Technology. Accreditation by ABET is a distinction enjoyed by only a few bachelor's programs in Engineering Technology throughout the nation. Enhancing the quality of the program and attaining ABET accreditation are seen by the Connecticut State University as a significant way to increase support for the state's economy and to contribute to Governor O'Neill's initiative for high technology.

Securing of ABET accreditation will be facilitated by treating the Engineering Technology option as a separate program. That is the reason for this application for licensure. The separate program in Engineering Technology is conceived as having the following three specializations:

DO NOT FILL IN	LICENSURE ACTION	ACCREDITATION ACTION
These items will be completed by the BHE staff.	SCA _____	SCA _____
	PAAC _____	PAAC _____
	BHE _____	BHE _____

* Note: Code to be selected from the CLASSIFICATION OF INSTRUCTIONAL PROGRAMS (as provided by HEGIS).

Industrial Systems (60 S.H.)

Math 125 - Applied Calculus I	3
Math 126 - Applied Calculus II	3
I.T. 359 - Plant Layout	3
I.T. 360 - Production Systems	3
I.T. 362 - Leadership Skills for Supvrs	3
I.T. 362 - Statistical Quality Control	3
I.T. 410 - Industrial Safety	3
I.T. 458 - Methods & Time Study	3
E.T. 300 - Human Factor Eng.	3
E.T. 360 - Computer Aided Planning (CAP)	3
CHEM.122 - Chemistry II	4
C.S. 213 - Application of Computer Programming	3
C.S. 450 - Operations Research	3
C.S. 473 - Simulation Techniques	3
PHY 122 - Physics II	4
Directed Electives	13 sh

Manufacturing (60 S.H.)

Math 125 - Applied Calculus I	3
Math 126 - Applied Calculus II	3
I.T. 359 - Plant Layout	3
I.T. 360 - Production System	3
I.T. 362 - Leadership Skills for Supvrs	3
I.T. 364 - Statistical Quality Control	3
I.T. 410 - Industrial Safety	3
I.T. 458 - Methods and Time Study	3
E.T. 300 - Human Factors Engr.	3
E.T. 360 - Computer Aided Planning (CAP)	3
T.C. 216 - Material Processing	3
T.C. 316 - Metals Machining	3
T.C. 446 - Tool/Die Fundamentals	3
T.C. 456 - Materials Analysis	3
E.T. 460 - Computer Aided Design/Mfg.	3
Phy. 122 - Physics II	4
Directed Electives	11 sh

Construction (60 S.H.)

Math 125 - Applied Calculus I	3
Math 126 - Applied Calculus II	3
Phy 122 - Physics II	4
C.S. 213 - Application of Computer Programming	3
TC 254 - Architectural Planning	3
TC 313 - Electrical Systems	3
TC 454 - Transportation/Land	3
TC 353 - Construction Surveying	3
IT 251 - Materials of Construction	3
IT 252 - Building Codes & Specifications	3
IT 351 - Estimating for Construction	3
IT 352 - Construction Planning	3
ET 150 - Introduction to Engineering Technology	3
ET 300 - Human Factors Engineering	3
ET 351 - Applied Mechanics I	3
IT 453 - Structural Design	3
Directed Electives	11 sh



THE CONNECTICUT STATE UNIVERSITY

P.O. Box 2008 • New Britain, Connecticut 06050 • (203) 827-7700

October 3, 1984

Dr. Norma Foreman Glasgow
Commissioner of Higher Education
61 Woodland Street
Hartford, CT 06106

Dear Norma:

On behalf of the Trustees of the Connecticut State University I am pleased to submit an application for licensure for a Bachelor of Science in Engineering Technology to be presented in the School of Technology at Central.

As you know, the Technology program has been one of Central's most successful offerings. The graduates of this program are readily placed at high salaries, and it has been very popular with the businesses which employ the graduates.

This application for licensure results from our efforts to enhance further the strength of the Technology program. We have with your assistance been updating the equipment in the School of Technology and hope to continue to do so. Also, as our application states, we intend to seek accreditation from the Accrediting Board for Engineering and Technology (ABET) if the Board of Governors responds favorably to this request for licensure. We see such national accreditation as a significant move to build the academic quality as well as the reputation for quality of a program which is unique within Connecticut State University.

The resources required for a separately licensed Engineering Technology program are minimal since only a few new courses have to be added. The two additional faculty positions called for in the proposal will be reallocated from existing faculty lines. These are positions which we believe are justified for the program even without the new licensure.

We do not see our proposed Engineering Technology program as competing with other institutions. We are most willing to continue the fine relationship we have had with the Technical Colleges and to make very clear in Central's catalog that A.S. graduates of the Technical Colleges can transfer into this program without loss of credit.

Our Trustees resolution authorizing this request is enclosed along with multiple copies of the application summary. Copies of the full application are being transmitted underseparate cover.

Sincerely,

James A. Frost
President

Southern Connecticut State University • New Haven
Western Connecticut State University • Danbury

Central Connecticut State University • New Britain
Eastern Connecticut State University • Willimantic