

INTEROFFICE CORRESPONDENCE

**YSU**

To: Academic Programs Division

From: G. E. Sutton, Dean--WRSE

Date: January 31, 1990

Subject: Program Change - Civil Engineering Technology

Enclosed is a copy of a program change request from CAST. Please review and, if you have any concerns, contact me. In any case, please send me a schedule of your Winter Quarter activities.

eam

RECEIVED

FEB 01 1990

HOME ECONOMICS

THESE COURSE CHANGES IN THE CIVIL ENGINEERING TECHNOLOGY CURRICULUM RANGE FROM MINOR WORD CHANGES AND PREREQUISITE CORRECTIONS, TO CERTAIN BASIC CHANGES MADE IN RESPONSE TO CHANGING TECHNOLOGY. A THOROUGH SYSTEMS STUDY HAS BEEN ONGOING FOR ALMOST TWO YEARS BY THE CITEC FACULTY. THE RESULTS REFLECT INPUTS FROM THE FOLLOWING SOURCES:

- 1. TECHNOLOGY CHANGES
- 2. RECOMMENDATIONS MADE BY FAC/ABET, OUR ACCREDITING AGENCY
- 3. SUGGESTIONS MADE BY OTHER FACULTY, STUDENTS AND GRADUATES
- 4. SUGGESTIONS MADE BY OUR INDUSTRIAL ADVISORY COMMITTEE
- 5. REQUIREMENTS OF ASCE

Youngstown State University  
Academic Programs Division

PD#

Date Rec'd

Addition of a new program \_\_\_\_\_ (Complete B,C)

Deletion of an existing program \_\_\_\_\_ (Complete A,C)

Change in an existing program   X   (Complete A,B,C)

Program title Civil Engineering Technology Department Engineering Technology

A. Describe the requirements of the program as it currently exists.  
(Attach additional sheets if necessary.)

See curriculum sheet attached.

B. Describe the requirements of the proposed program. (Attach additional sheets if necessary.)

See proposed new curriculum sheet attached.

C. Using as many additional sheets as are necessary, provide a rationale and estimate how this addition/deletion/change of program will impact upon the resources of departments other than the one originating the form (e.g. enrollments, frequency of support-course offerings, staffing, budgets, equipment, duplicate courses, etc.).

While the new proposed curriculum sheet shows a change in the order of some courses as well as a change in the name of some CITEC courses, the only changes affecting other departments are:

(see attached sheet)

Signatures

Department Chairperson

W. Bunch

RC 1-8-90

Dean

W. Buckley 1/10/90

Prog. Div.

.Geology 611, Geology for Engineers, is deleted and replaced by Physics 503.

.Management 725 has been deleted.

.CE 711/711L Surveying has been changed from required to optional.

The rationale for these changes is based on a two-year systems study by the CITEC faculty with inputs from students, graduates, employers, the Industrial Advisory Committee, other faculty and TAC/ABET, our accrediting agency.

The effects on the Geology and Physics Departments will be minimal since the enrollment in the courses is large compared to the CITEC component of that enrollment. The same is true for the Management Department.

The effect of making Surveying 2 optional will not be appreciable. BSAS students are typically employed full time, and, therefore, there are only a few CITEC students in the course each year. It is expected about half will still take the course as an option.

Youngstown State University  
College of Applied Science & Technology

**CIVIL ENGINEERING TECHNOLOGY**  
Bachelor's Degree Program

Effective FALL, 1989

NAME \_\_\_\_\_ DATE \_\_\_\_\_ SOC. SEC. # \_\_\_\_\_

THIRD YEAR		FOURTH YEAR	
Seventh Quarter	Hrs.	Tenth Quarter	Hrs.
CITEC 707 Solid Mechanics II.....	4( )	CITEC 800 Building Systems.....	4( )
ELTEC 625 Electrical Systems I.....	4( )	**CITEC Elective (700/800 level).....	4( )
ENGL 743 Technical Communications.....	4( )	HPE Activity Course.....	1( )
HPE Activity Course.....	1( )	*Humanities Elective.....	4( )
MATH 770 Cal for Engr Tech III.....	4( )	MGT 725 Fundamentals of Management.....	4( )
	<u>17( )</u>		<u>17( )</u>
Eighth Quarter	Hrs.	Eleventh Quarter	Hrs.
CITEC 710 Structural Analysis II.....	4( )	CITEC 812 Concrete Design Techniques....	4( )
CITEC 730 Transportation, Technology.....	4( )	ELTEC 810 Electrical Systems Design.....	4( )
MATH 785 Matrix Alg & Num Methods.....	4( )	GEOG 808 Land Use & Transportation.....	4( )
MGT 604 Legal Environment of Business...	4( )	*Humanities Elective.....	4( )
	<u>16( )</u>		<u>16( )</u>
Ninth Quarter	Hrs.	Twelfth Quarter	Hrs.
CITEC 717 Underground Construction.....	4( )	CITEC 850 Computing for Civil	
CITEC 817 Construction Management.....	4( )	Technologists.....	4( )
CIEGR 711 Surveying II.....	3( )	**CITEC Elective (700/800 level).....	4( )
CIEGR 711L Surveying II Lab.....	1( )	GEOG 732 Advanced Cartography.....	4( )
GEOG 611 Geology for Engineers.....	4( )	METEC 870 Applied Finite Element Method.	4( )
HPE Activity Course.....	1( )		<u>16( )</u>
	<u>17( )</u>		

TOTAL CREDIT HOURS -- 99

TOTAL HOURS 4 YEARS -- 204

\*Humanities Elective - a sheet listing courses which satisfy the humanities requirement is available in the departmental main office.

\*\*CITEC Electives - CITEC 712 Architectural Technology, CITEC 724 Public Works Technology, CITEC 824 Environmental Technology.

TRANSFER CREDIT EVALUATION

(K) designates courses completed by transfer credit from \_\_\_\_\_.

Evaluated by \_\_\_\_\_, date \_\_\_\_\_. Total Q.H. (K) \_\_\_\_\_.

Remarks: \_\_\_\_\_.

(SEE OTHER SIDE)

## CIVIL ENGINEERING TECHNOLOGY

PROGRAM COORDINATOR: Dr. Ralph G. Crum  
PHONE: (216) 742-1772  
ADVISORS: Dr. R. Crum, Mr. J. Zupanic, Mr. W. Wood  
DEPARTMENT OFFICE NO.: #3056 Cushwa Hall  
ADMISSION REQUIREMENTS: Completion of Associate Degree. GPA of 2.30 for transfer students. Transfer students with less than the 2.30 GPA admission requirement are encouraged to schedule an appointment with the Program Coordinator (mentioned above).

### DEPARTMENTAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

1. No more than 4 q.h. of "D" are allowed in Bachelor's Degree major courses. Major courses consist of all courses offered by the Engineering Technology Department, the School of Engineering, the Geography Department, and thus these courses may not be taken using the CR-NC grading option. Also included are any courses approved as substitutes for departmental major courses.
2. Transfer students are required to complete at least 21 hours of major departmental courses at YSU in order to qualify for an Engineering Technology or Computer Technology degree.

### UNIVERSITY REQUIREMENTS

English Composition.....	8	ENGL 550, 551
Health & Physical Education.....	6	HPE 590 + 3 Activity Courses
Humanities.....	8 - 18	See your advisor for help in
Social Studies.....	16 - 22	selecting courses in these
Science/Mathematics.....	12 - 22	areas (46 Q.H. required).
Other Courses.....	126 - 138	See Other Side

(The curriculum on the reverse side includes the above requirements.)

MINOR - 21 Q.H. of "C" or better course work in another department.

(Math is an automatic minor if grades are "C" or better.)

Must complete at least 60 Q.H. of upper division (700 or 800 level) course work.

Must earn an overall point average of 2.00, "C" or better to apply for the degree.

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The curriculum shown on the reverse side identifies the courses you must complete, in their proper sequence, to qualify for the Bachelor's Degree. Since courses are offered in approximately the same order in which they are listed, great care must be taken in arranging your schedule for any given quarter. You are strongly urged to seek an advisor's assistance in scheduling so that you can make efficient and orderly progress toward your goal.

### COURSE SCHEDULING PROCEDURE

1. DAY STUDENT: As soon as you receive a permit to register by mail, stop in for an appointment with your advisor (24 hours in advance).
2. NIGHT STUDENT: As soon as you receive a permit to register by mail, stop in to schedule an appointment with an advisor.

YOUNGSTOWN STATE UNIVERSITY  
College of Applied Science & Technology

CIVIL ENGINEERING TECHNOLOGY  
Effective Fall 1999

NAME \_\_\_\_\_ DATE \_\_\_\_\_

THIRD YEAR

FOURTH YEAR

Seventh Quarter

Tenth Quarter

ENGLISH 743 Technical Comm..... 4( )  
MATH 770 Calc for Engr Tech 3 .....4( )  
CITEC 705 Computing for Technologists4( )  
CITEC 710 Structural Analysis 2.....4( )  
H&PE Activity Course Elective.....1( )  
17

HUMANITY ELECTIVE..... 4( )  
ELTEC 625 Electr. Syst.1.....4( )  
CITEC 724 Public Works Tech...4( )  
CITEC 730 Transp. Tech.....4( )  
H&PE Activity Course.....1( )  
17

Eighth Quarter

Eleventh Quarter

MATH 785 Matrix Alg & Num Methods....4( )  
MGT 604 Legal Env. of Business.....4( )  
CITEC 707 Advanced Steel Design.....4( )  
CITEC Elective (700/800 Level).....4( )  
16

GEOG 808 Land Use & Trans.....4( )  
ELTEC 310 Elect. Syst Design..4( )  
CITEC 300 Building Systems....4( )  
CITEC 312 Adv. Concrete Des...4( )  
16

Ninth Quarter

Twelfth Quarter

HUMANITY ELECTIVE.....4( )  
PHYSICS 500 Fund. of Physics 3 .....3( )  
PHYSICS 103L Fund. of Physics 3 Lab..1( )  
CITEC Elective (700/800 Level).....4( )  
CITEC 717 Underground Construction...4( )  
16

GEOG 732 Adv. Cartography.....4( )  
CITEC 307 Design.Project Mgmt.4( )  
CITEC 317 Construction Mgmt...4( )  
METEC 870 Appl.Fin.Elem Meth..4( )  
H&PE Activity Course.....1( )  
17

TOTAL CREDIT HOURS 99  
TOTAL HOURS FOUR YEARS 204

Humanities Elective - Listing available in Engineering Technology Office

CITEC Electives - CITEC 712 Architectual Design, CITEC 324 Environmental Planning Technology, CIENG 711/711L Surveying 2.