



STATE OF CONNECTICUT

BOARD OF TRUSTEES

FOR THE STATE COLLEGES

P. O. BOX 2008 NEW BRITAIN, CONNECTICUT 06050

TEL. NEW BRITAIN: 203-229-1607 TEL. HARTFORD: 203-566-7373

RESOLUTION

concerning

AGREEMENT FOR COOPERATION

between

WESTERN CONNECTICUT STATE COLLEGE

and

THE UNIVERSITY OF BRIDGEPORT

in the presentation of

PRE-ENGINEERING AND ENGINEERING EDUCATION

June 11, 1982

- WHEREAS, The administrations and faculties of Western Connecticut State College and the University of Bridgeport have jointly prepared an articulation plan whereby students may begin an undergraduate engineering program at Western where pre-engineering courses will be offered together with selected engineering courses to be taught by faculty acceptable to the School of Engineering at the University of Bridgeport, with the remainder of the engineering program to be completed at the University of Bridgeport, and
- WHEREAS, Students participating in this program will be able to defray some of the tuition costs through participation in the CO-OP program of the School of Engineering of the University of Bridgeport, therefore be it
- RESOLVED, That the Board of Trustees of the Connecticut State Colleges commends this cooperation between two institutions and approves the participation of Western Connecticut State College in this endeavor.

A Certified True Copy:

James A. Frost

 James A. Frost
 Executive Director



**THE
CONNECTICUT
STATE
COLLEGES**

FOUNDED 1849

file
Office of the
Board of Trustees

P.O. BOX 2008 NEW BRITAIN, CONNECTICUT 06050

Telephone : (203) 827-7700

June 14, 1982

Norma Foreman Glasgow, Commissioner
Board of Higher Education
61 Woodland Street
Hartford, CT 06101

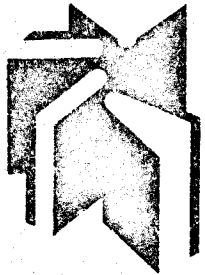
Dear Norma:

You will recall that we discussed the engineering transfer arrangement worked out by Western and the University of Bridgeport. Our Trustees gave their blessing to this arrangement on May 11. Enclosed is a copy of my file on this subject. Do you wish further information or further action?

Sincerely,

Jim
James A. Frost
Executive Director

encl.



**THE
CONNECTICUT
STATE
COLLEGES**

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*Hand delivered
file*

Office of the
Executive Director

P.O. BOX 2008 NEW BRITAIN, CONNECTICUT 06050
Telephone : (203) 827-7700

May 10, 1982

Norma Foreman Glasgow, Commissioner
Board of Higher Education
61 Woodland Street
Hartford, CT 06101

Dear Norma:

Enclosed is a copy of the University of Bridgeport-Western Connecticut State College transfer program in Engineering. Bridgeport is to offer on Western's campus a non-credit Engineering Seminar, a three hour course in Mechanical Engineering, and a three hour course in Electrical Engineering. I hope the announcement on Wednesday will be worded to indicate that the program will be recommended by the two presidents and that the appropriate approvals will be sought.

Unless you have some objection, I would have no problem with the proposal.

Sincerely,

James A. Frost
Executive Director

Enc.

UNIVERSITY OF BRIDGEPORT - WESTERN CONNECTICUT STATE COLLEGE

JOINT ENGINEERING PROGRAM

Summary of understandings

RECEIVED
MAY 10 1982
BOARD OF TRUSTEES
FOR THE STATE COLLEGES

I. Admissions

- A. Students will apply only to Western
- B. U.B. and WCSC admissions officers will work out a procedure which applies UB admission standards. Borderline cases, as at U.B., will be reviewed by the Associate Dean of the College of Science and Engineering.
- C. Letters of admission will be sent by WCSC.
- D. Copies of records of those admitted will be sent to College of Science and Engineering which will, in turn, send letter of welcome and congratulations. U.B. admissions officer will arrange for student ID's for use of U.B. campus by WCSC students.

II. Program at Western

- A. The corrected program attached will be followed by students. College of Science and Engineering faculty will teach asterisked courses.
- B. Student advisement will be the responsibility of WCSC Physics department which will maintain liaison with UB's College of Science and Engineering.
- C. WCSC Physics department will be the scheduling agency for UB courses taught at WCSC through the regular procedures with the Dean of Arts and Sciences and the Registrar.
- D. Engineering 100 - Engineering Seminar (description attached) will be a non credit required course for enrollees in the joint program. It will be open to any interested students at Western who wish to attend.
- E. Course descriptions and outlines for Mechanical and Electrical Engineering provided by the College of Science and Engineering will, under the aegis of Western's Physics department, go through Western's curriculum approval process.
- F. Any seats available in UB credit Engineering courses not used by enrollees in the joint program may be used by other WCSC students who meet the prerequisites.

- G. Grade reports will be provided to U.B. for each enrolled student at the end of each semester (and summer session if applicable) by WCSC Registrar's office.
- H. WCSC students applying for internal transfer to the joint program will work through the Dean of Arts and Sciences who will assure that all admissions understandings are carried out for the student before the transfer is effective.

III. Transition to U.B.

- A. UB and WCSC Registrar's will work out a procedure for transmission of official documents from Western to U.B. at no cost to the student.
- B. All passing grades at Western will be transferred. The QPR earned at Western will also be transferred. The final four year QPR will be a combination of all grades earned in the joint program regardless of campus.
- C. Students moving to UB at end of sophomore year will retain library, and parking privileges at Western.
- D. In the event a student wishes, during first two years at WCSC, to take an evening course at U.B. s/he will pay U.B. per credit rate for that course.

JOINT ENGINEERING PROGRAM - W.C.S.C. AND U.B.

Freshman Year

English 140	3	English 100	3
Chemistry 110	4	Chemistry 111	4
Mathematics 101	4	Mathematics 102	4
Computer Science 150	4	Humanities Course	3
Physical Education	1	Social Science Course	3
*Engineering seminars	—		—
	16		17

Sophomore Year

Mathematics 201	4	Mathematics 205	3
Physics 110	4	Physics 111	4
Computer Science 255/256	4	*Mechanical Engineering	3
SPT 162	3	*Electrical Engineering	3
Physical Education	1	Humanities or Social Science	3
*Engineering seminars	—		—
	16		16

*New courses from UB

ENGINEERING 100 - ENGINEERING SEMINAR

A series of seminars on topics in engineering and engineering education conducted by faculty from the University of Bridgeport College of Science and Engineering and visiting speakers. (one hour lecture-no credit)

Scheduled for one hour per week, each seminar will be announced in advance. All students registered in the Western/UB engineering program will be expected to attend but the seminars will be open to all interested students.

Topics will include discussion of the UB engineering programs, description of the co-op program, and the activities and contributions of engineers to various technological industries.

Physical ...

COURSE OUTLINE

ME 250

Engineering Mechanics I

Credit 3 Lecture 3

Text: Beers and Johnston, Vector Mechanics for Engineers, Statics

Prerequisite: Math 110 or 111, Physics 107
(Calc. 1) (Physics 1)

Objective: To develop the ability to analyze problems in static mechanics by applying fundamental physical principles.

Outline

1. Fundamental concepts and principles: Newton's law of Mechanics, units, numerical accuracy. (1 week)
2. Statics of Particles. Addition of vectors, resolution of a force into components, free body diagram for a particle. (1 week)
3. Rigid body statics; moment of a force about a point, rectangular components of a moment, couples, equivalent systems of forces. (2 weeks)
4. Equilibrium problems for rigid bodies; types of supports, proper and improper constraints, statically indeterminate structures. (2 weeks)
5. Distributed forces, center of gravity, centroids, composite bodies. (1 week)
6. Analysis of structures; method of joints, method of sections. Structures with multforce members. (2 weeks)
7. Forces of friction; problems involving dry friction, wedges, belts, and brakes. (2 weeks)
8. Moment of inertia of areas, radius of gyration. Composite bodies. Mass moment of inertia. (.2weeks)
9. Introduction to methods of virtual work. (1 week)

CATALOG DESCRIPTION:

The concept of a rigid body in equilibrium using vector algebra. Two- and three-dimensional systems. Center of gravity. Moment of inertia. Friction. Virtual work. Prerequisites: Mathematics 110 or 111, Physics 107.

3 semester hours 3 lecture hours

Course Outline

EE-233

Network Analysis I

3 credits

3 lectures 1 recitation hour

Text: Basic Electric Circuit Analysis; Johnson, Hilburn & Johnson
Prentice Hall, 1978

Prerequisite: Math 112 Physics 108
 (Calc. II) (Physics II)

Outline:

Weeks

1. Definitions and units	1/2
2. Experimental laws and simple resistive circuits	1
3. Nodal and mesh analysis	2
4. Thevenin's, Norton's, and other theorems	1 1/2
5. Inductance and capacitance	1
6. Source-free RL and RC circuits	1
7. RL and RC circuits with unit-step forcing functions	1 1/2
8. RLC circuits with unit-step forcing functions	2
9. Sinusoidal forcing functions	1
10. Phasors	1 1/2
11. Sinusoidal steady-state response	1

Catalog Description:

Elementary two-terminal component characteristics. Physical laws of equilibrium. Analysis of linear systems with algebraic components. Steady-state AC analysis. Phasors Co-requisite: