

BULLETIN
of the
**NEW BEDFORD INSTITUTE
OF TECHNOLOGY**
NEW BEDFORD, MASS.



1960-1961

EVENING DIVISION CATALOGUE

New Bedford Institute of Technology

LIST OF INSTRUCTORS
GENERAL INFORMATION
LIST OF COURSES

LOUIS PACHECO, JR., *Director*
Evening School

EVENING SCHOOL CALENDAR

Registration

Sept. 13, 14, 15, 19607 P.M. to 9 P.M.
 Sept. 26, 1960Fall Semester Begins

Holidays

Oct. 12, WednesdayColumbus Day
 Nov. 23, WednesdayThanksgiving Recess
 Nov. 24, ThursdayThanksgiving Recess

Fall Semester Examinations

Dec. 12, 13, 14, 15, 1960

Registration

Spring Semester7 P.M. to 9 P.M.
 Dec. 12, 13, 14, 15, 1960
 Jan. 2, 1961Spring Semester Begins

Holidays

Feb. 22, WednesdayWashington's Birthday

Spring Semester Examinations

March 20, 21, 22, 23, 1961

**ALL CLASSES WILL START PROMPTLY AT 7:15 P.M.
 AND ARE OF A TWO HOUR DURATION**

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FACULTY

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JAMES L. GIBLIN, M.S. *Professor, Head of Textile Engineering Department*

LENINE GONSALVES, B.S., M.S.E.E., P.E. *Professor, Head of Electrical Engineering Department*

ANTHONY J. JOHN, B.S., M.S., M.A. . . *Professor, Head of Mathematics Department*

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M.S.M.E. *Professor, Head of Mechanical Engineering Department*

FRANCIS TRIPP, B.S. in Ch.E.,
B.S. in T.C., M.S. in Ch., Ch.E. . . *Professor, Head of Chemistry Department*

JOHN BROADMEADOW, B.S. in Ch.E.,
B.S. in T.C., M.Ed. *Associate Professor of Dyeing and Finishing*

EDWARD H. CLOUTIER *Associate Professor of Knitting*

EDMUND J. DUPRE, B.S. in T.C. . . . *Associate Professor of Dyeing and Finishing*

LOUIS E. F. FENAUX, B.S. in Ch.,
M.S. in Ch. *Associate Professor of Analytical Chemistry*

SHELDON H. HARRIS, B.A., M.A., Ph.D. *Associate Professor of Social Sciences*

WARREN M. HOLT, B.S., M.Ed. *Associate Professor of Mathematics*

FREDERIC R. MATTFIELD, B.S. in B.A.,
M.B.S., M.Ed. *Associate Professor of Business Administration*

LOUIS PACHECO, JR., B.S. in T.E., M.Ed. *Associate Professor of Textile Engineering*

JOHN R. BARYLSKI, B.S. in M.E. . . . *Assistant Professor of Mechanical Engineering*

CLIFFORD N. BECK, B.S. in T.E. . . . *Assistant Professor of Textile Engineering*

ALDEN W. COUNSELL, B.S. in M.E.	<i>Assistant Professor of Mechanical Engineering</i>
MICHAEL CROWLEY, B.S., M.A.	<i>Assistant Professor of Mathematics</i>
EARL J. DIAS, A.B., M.A.	<i>Assistant Professor of English</i>
FERDINAND P. FIOCCHI, B.S. in Ch.	<i>Assistant Professor of Chemistry</i>
CELESTINO D. MACEDO, A.B., A.M.	<i>Assistant Professor of Social Sciences</i>
MARGOT NEUGEBAUER, B.F.A., M.F.A.	<i>Assistant Professor of Textile Design and Fashion</i>
JOHN T. REGAN, A.B.	<i>Assistant Professor of Textile Engineering</i>
CONRAD R. RICHARD, B.S.	<i>Assistant Professor of Mechanical Engineering</i>
ANTONE RODIL	<i>Assistant Professor of Textile Engineering</i>
WILLIAM A. SILVEIRA, B.S. in T.E., M.S. in T.T.	<i>Assistant Professor of Mathematics</i>
GEORGE J. THOMAS, S.B., P.E.	<i>Assistant Professor of Physics</i>
ARTHUR V. SWAYE, B.S. in T.E.	<i>Assistant Professor of Textile Engineering</i>
HENRY SWIFT, A.B., M.B.A.	<i>Assistant Professor of Business Administration</i>
ROBERT C. BOOTH	<i>Instructor in Textile Design and Fashion</i>
EDWARD A. CORMIER, B.S., M.Ed.	<i>Instructor in Business Administration</i>
JAMES A. FLANAGAN, B.S. in Ed.	<i>Instructor in Social Sciences</i>
FRANK GOLEN, JR., B.S. in B.A., M.Ed.	<i>Instructor in Business Administration</i>
FRYDERYK E. GORCZYCA, B.S. in M.E.	<i>Instructor in Mechanical Engineering</i>
WALTER E. A. MIERZEJEWSKI, A.B.	<i>Instructor in Mathematics</i>
EVELYN RAMALHETE, B.S.	<i>Instructor in Textile Design and Fashion</i>
JOSEPH L. ROBERTS, B.S. in M.E.	<i>Instructor in Mechanical Engineering</i>
LOUIS J. ROBITAILLE, B.S. in B.A., M.Ed.	<i>Instructor in Social Sciences</i>
FRED R. TRIPP, B.S. in T.Ch., B.S. in Ch.E.	<i>Instructor in Chemistry</i>
RICHARD WALDER, B.S. in E.E.	<i>Instructor in Electrical Engineering</i>
JOHN F. WAREING	<i>Instructor in Electrical Engineering</i>
VIVIAN M. ZERBONE, A.B., M.A.	<i>Instructor in Modern Languages</i>
CLAIRE N. RILEY, A.B.	<i>Librarian</i>
KENNETH BARNARD, B.S. in Ch.	<i>Visiting Professor, Lecturer in Textile Chemistry</i>
MILTON E. PARKER, B.S.	<i>Visiting Professor, Lecturer in Food Engineering</i>
HANS E. PICARD, B.S. in E.E.	<i>Visiting Instructor in Electronics</i>
EDWARD S. RUDNICK, B.S. in M.E., M.S. in T.T.	<i>Visiting Professor, Lecturer in Quality Control</i>

THE EVENING SCHOOL

Organization and Purpose

The Evening School is an integrated administrative unit of the New Bedford Institute of Technology. It is oriented to the need for supplying competently trained personnel to the professions and industries which the Institute serves. In addition, courses are offered to meet a growing need for the continuing education for the adult community.

Entrance Requirements

Entrance requirements vary with the subject selected. Applicants for credit in any course are required to present qualifying records. For all other programs, the only requirement, in general, is graduation from grammar school and the necessary professional or industrial experience. All applications must be reviewed for the necessary professional or industrial experience. All applications must be reviewed for the necessary prerequisites by the department concerned prior to acceptance. Duly enrolled day school students may, with permission of the Dean of Students, participate in the Evening School program.

Registration

Registration forms may be procured in advance at the office of the Registrar. Registration is normally held during the second week of September for the Fall term and during the second week in December for the Spring term. No new registrations will be accepted after the first two weeks of classes have been held except with permission of the Director of Evening School and the Instructor concerned. Students cannot apply for a transfer to a college credit program after the first two weeks of classes.

Tuition and Fees

Tuition and Fees charged for attendance at the Evening School are as follows:

1. Non-credit courses are available without tuition charge to residents of New Bedford. (This is in lieu of a \$10,000 annual grant to the Institution from the city of New Bedford.)
2. Non-credit courses have a tuition charge of \$10.00 per course to non-residents of New Bedford.
3. A \$9.00 fee per credit hour is charged to all students enrolled in a course for college credit. Out-of-state students will be charged \$11.00 per credit hour if college credit is desired.

4. Audited credit courses have a tuition charge of \$5.00 per credit hour.
5. The Five Year Certificate programs in Electronics Technology or Machine Design have a tuition charge of \$10.00 per semester.
6. A \$2.00 laboratory fee is required of students enrolled in Chemistry and Machine Shop courses.
7. All fees are payable on, or prior to, the first week of scheduled classes.
8. No refunds for evening school classes will be made after two weeks from the date of enrollment in any class. An application for refund must be made by the student concerned; it is not the function of the Institute.

Veterans

Any resident of Massachusetts who has served in any branch of the armed services for at least 90 days, ten of which must have been served either between SEPTEMBER 16, 1940, and DECEMBER 31, 1946, or between JUNE 25, 1950 and JANUARY 31, 1955, and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or a photostatic copy) or certificate of satisfactory service in the case of officers, together with proof of residence, in advance of the opening date of class meeting.

Attendance

Students must attend 85% of classes held and complete prescribed assignments in order to receive a certificate for the subject. Students in college-credit courses must be present for 90% of scheduled classes.

The sessions per week and the semesters required to complete a subject are shown with each course. A session consists of 2 hour periods. All classes will be from 7:15 P.M. to 9:15 P.M.

Grading System

The system as used in the day program will be adhered to.

COURSES OFFERED—NON CREDIT

TEXTILE DEPARTMENT

	SESSIONS PER WEEK	SEMESTERS
<i>Yarn Preparation Division:</i>		
Picking, Carding, Drawing	2	2
Roving Frames	2	1
Spinning	2	1
Time Study	1	2
 <i>Weaving Division:</i>		
Elementary Loom Fixing	2	1
Draper Loom Fixing	2	1
Automatic Box Loom Fixing	2	1
 <i>Knitting Division:</i>		
General Knitting	2	2
Power Sewing	1	1
Sewing Machine Maintenance	1	2
 <i>Design Division:</i>		
Weave Formation	2	2
Fabric Analysis	2	2
Fabric Classification	1	2
Fashion Illustration	1	2
Apparel Design	1	2
Drawing & Painting	1	2
Art Appreciation	1	1
 <i>Testing and Microscopy Division:</i>		
Physical Testing	1	1
Microscopy	1	1
Photomicroscopy	1	1
Basic Photography	1	1

BUSINESS ADMINISTRATION DEPARTMENT

BA-010 Income Taxes (State & Federal)	1	2
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DEPARTMENT OF ELECTRICAL ENGINEERING
Certificate Course—Electronics Technology

First Year

FALL	HRS./CLASS	SESSIONS PER WEEK	SPRING	HRS./CLASS	SESSIONS PER WEEK
Technical Mathematics	2	2	Technical Mathematics	2	2

Second Year

D.C. Circuits & Mag. Circuits	2	2	A.C. Circuits	2	2
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Third Year

Electric Machinery	2	2	Fund. of Electronics	2	2
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Fourth Year

Electronic Circuits I (with laboratory)	2	2	Electronic Circuits II (with laboratory)	2	2
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Fifth Year

Elective	2	2	Elective	2	2
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ELECTIVES: Industrial Electronics I and II
 Communication Circuits I and II
 Transistor Electronics
 Computational Circuits
 Electrical Instrumentation

DEPARTMENT OF MECHANICAL ENGINEERING
Certificate Course—Machine Design

First Year

FALL	HRS./CLASS	SESSIONS PER WEEK	SPRING	HRS./CLASS	SESSIONS PER WEEK
Mathematics	2	2	Mathematics	2	2
Mechanical Drawing	2	1	Mechanical Drawing	2	1

Second Year

Mechanics	2	1	Mechanics	2	1
Machine Shop (Theory & Practice)	2	1	Machine Shop (Theory & Practice)	2	1

Third Year

Strength of Materials	2	1	Strength of Materials	2	1
Adv. Machine Drawing	2	1	Adv. Machine Drawing	2	1

Fourth Year

	HRS./CLASS	SESSIONS PER WEEK		HRS./CLASS	SESSIONS PER WEEK
Metallurgy	2	1	Materials		
			Testing Lab	2	1
Mechanisms	2	1	Machine Design	2	1

Fifth Year

Machine Design	2	1	Jig, Fixture & Tool Design	2	1
Elective	2	1	Elective	2	1

ELECTIVES: Mold Design
Die Design
Descriptive Geometry
Advanced Manufacturing Processes
Basic Electricity
Hydraulics

CREDIT COURSES**MATHEMATICS AND PHYSICS DEPARTMENT**

		SESSIONS PER WEEK	SEMESTERS	CRS.
M-010	Pre-College Mathematics	2	2	0
M-020	Technical Mathematics	2	2	0
M-030	Slide Rule Fundamentals	1	1	0
M-101	College Mathematics I	3	1	5
M-102	College Mathematics II	3	1	5
M-201	Differential Calculus	2	1	3
M-202	Integral Calculus	2	1	3
M-221	Statistics	1	2	3
M-100A	Introductory Mathematics I	2	1	3
M-100B	Introductory Mathematics II	2	1	3
P-102	General Physics I	2	1	3
P-201	General Physics II	2	1	3
P-202	General Physics III	2	1	3
P-211	College Physics I	2	1	3
P-212	College Physics II	2	1	3

ELECTRICAL ENGINEERING DEPARTMENT

EE-309	Network Analysis	2	1	3
EE-304	Electronics I	2	2	4
EE-405	Electronics II	2	2	4
EE-417	Transient Analysis	2	1	3
EE-317	Electromagnetics	2	1	3
EE-413	Servomechanisms	2	1	3

MECHANICAL ENGINEERING DEPARTMENT

ME-310	Mechanics (Dynamics)	1	2	3
ME-214	Mechanics (Statics)	1	2	3
ME-121	Engineering Drawing	1	2	2

BUSINESS ADMINISTRATION DEPARTMENT

		SESSIONS		CRS.
		PER WEEK	SEMESTERS	
BA-101	Accounting Principles (Elementary)	1	2	3
BA-201	Accounting Principles (Advanced)	1	2	3
BA-103	Introduction to Business	1	2	3
BA-408	Labor Relations	1	2	3
BA-309	Management Principles	1	2	3
BA-209	Effective Business Communication	1	2	3

SOCIAL SCIENCE DEPARTMENT

SS-413	Psychology of Adjustment	1	2	3
SS-340	Sociology	1	2	3
SS-411	Industrial Psychology	1	2	3
SS-230	Principles of Economics	1	2	3
SS-110	General Psychology	1	2	3
SS-121	History of Western Civilization I	1	2	3
SS-122	History of Western Civilization II	1	2	3
SS-423	History of American Civilization	1	2	3

ENGLISH AND MODERN LANGUAGES DEPARTMENT

E-101	College English I	2	1	3
E-102	College English II	2	1	3
E-301	Masterpieces of World Literature	2	1	3
E-302	Survey of American Literature	2	1	3
L-010	Elementary Spanish	1	2	0
L-201	French I	1	2	3
L-211	German I	1	2	3

CHEMISTRY DEPARTMENT

Ch-010	General Inorganic Chemistry	2	2	0
Ch-111	Inorganic Chemistry	2	2	4
Ch-112	Inorganic Chemistry II	2	2	4
Ch-113	Qualitative Analysis	2	2	4
Ch-211	Elementary Quantitative Analysis	2	2	4
Ch-212	Elementary Quantitative Analysis II	2	2	4
Ch-221	Introductory Textile Chemistry	2	2	4
Ch-231	Elementary Organic Chemistry	2	2	4
Ch-232	Elementary Organic Chemistry II	2	2	4
Ch-222	Elementary Dyeing	2	2	4
Ch-341	Textile Printing I	2	2	4
Ch-342	Textile Printing II	2	2	4
Ch-321	Advanced Dyeing I	2	2	4
Ch-421	Advanced Dyeing II	2	2	4
Ch-351	Bacteriology	2	2	4
Ch-352	Microbiology	2	2	4