

# STATE OF CONNECTICUT

### BOARD OF TRUSTEES

FOR THE STATE COLLEGES

P. O. Box 2008

NEW BRITAIN, CONNECTICUT 06050

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#### RESOLUTION

#### concerning

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION at EASTERN CONNECTICUT STATE COLLEGE

April 14, 1978

RESOLVED, Under the authority granted the Board of Trustees in Chapter 164, Section 109 and 10-326 of the General Statutes, Eastern Connecticut State College is hereby authorized to submit a program proposal leading to a Bachelor of Science degree in Business Administration to the Board of Higher Education for planning approval.

A Certified True Copy:

James A. Frost

/Executive Director

CONNECTICUT COMMISSION FOR HIGHER EDUCATION

### Application for Planning Approval

### I. PROGRAM CLASSIFICATION

A. Management Science

B. Bachelor of Science in Business Administration (BSBA)

C. 0506

D. Division of Professional Studies

### II. PROGRAM DESCRIPTION

A. The proposed undergraduate program is intended to serve and further strengthen the educational mission of Eastern Connecticut State College. It will broaden and significantly enhance the existing specialized programs in professional studies at the College.

The program will provide an organized selection of course offerings for individuals who aspire to a business career. A foundation of core courses within the various functional business areas will be required of all students who matriculate in this proposed program. Introductory and specialized courses in accounting, marketing, economics, finance, and computer science will provide a desired foundation upon which the students can pursue their advanced undergraduate studies. Upon completion of this business core, students will be able to pursue a more specialized option in behavioral management.

The management science option relates best to personnel, administration and industrial relations. The emphasis will be qualitative with advanced instruction in human behavior as related to the accomplishment of organizational work and management-union relations.

- B. The program will enable the College to more directly serve the economic and business-related interests of the North-Eastern region of Connecticut. The North-Eastern region of the State remains a relatively under-developed rural area which will likely experience greater residential and industrial growth in the future. Since many of the College's students remain within the region, the proposed Management Science major can contribute to a more knowledgeable citizenry and a valuable labor resource to be employed within the region's expanding business community.
- C. The proposed program will complement the existing and developing two year degree programs of the state-supported community colleges located in Danielson, Norwich, and Manchester. These institutions currently award the Associate Degree in Business Administration and each year a substantial number of their graduates transfer to Eastern.

in addition, there presently exists a very strong interest among the student body for the proposed program, and student enrollment in the extensive business course offerings at Eastern has grown markedly in recent years.

D. This major will facilitate cooperative efforts with other colleges in Connecticut by making available courses, seminars, and instructional business workshops which will become an integral part of the proposed program of study.

#### III. PROGRAM JUSTIFICATION

A. The primary objective of the proposed major is to serve and further contribute to the educational mission of Eastern Connecticut State College. This program will advance the College's objective of serving the educational aspirations of the students and to additionally contribute to the economic and business interests of the surrounding community.

The College presently has a well-established B.A. degree program in Economics. Those students who aspire to a business management career have matriculated in this major and have complemented their program with extensive course work in various business courses. In addition, the College has serviced for several years a well-established concentration in business administration. This proposal to award the B.S.B.A. degree is an extension of the somewhat more limited concentration which the College presently provides. Those courses which will comprise the proposed new degree program have been and continue to be offered by the present full and part-time staff.

The program would be available not only to full-time students but also the community at large. Eastern has experienced a substantial increase in the number of older adults who are interested in matriculating towards this degree program on a part-time evening basis.

B. In sum, the proposed degree program represents a formalization of the extensive course work in the business administration area which the College has offered for several years. It will prepare those students who may intend to pursue a graduate level program and additionally serve those individuals who seek an immediate career in business or public institutions. Career positions in banking and financial intermediaries, executive-business and retail training programs, and governmental agencies represent some of the diverse vocational alternatives available to students.

#### Enrollment in previous semesters

Semester	Sp 76	F1 76	Sp 77	F1 77	Sp 78
No. Students	85	155	213	520	600
No. Courses	8	8	10	17	19

### Anticipated enrollment based upon experience of previous semesters.

Undergraduate Majors: First Year 50 - 100 Second Year 75 - 150 Third Year 100 - 200

C. As an integral aspect of this proposed program, the College has and will continue to serve the professional interests and needs of the professional business community. During the academic year, seminars and professional workshops dealing with various subjects of topical interest to the business community have been introduced and will be continued.

In addition, the proposed major will be integrated with established student executive-intern programs that have been and continue to be established by the department staff. Professional student-intern arrangements with banking, manufacturing, and governmental agencies will greatly complement the proposed major. They will strengthen the educational opportunities available to the students and culminate their formal academic preparation with an applied professional work experience.

#### IV. RESOURCE REQUIREMENTS

A. The proposed new program will not require the introduction of any new courses nor will it necessitate the immediate acquisition of additional faculty. With projected enrollment growth, additional faculty will be needed, but it's important to note that the College has and will continue to support the evolving new programs.

In addition, the College Library's resources and recent new subscriptions to professional journals and reference materials are adequate to serve the needs of the proposed program. The College presently has the necessary instructional and supportive resources to offer the proposed B.S.B.A. degree.

The College Library currently maintains subscriptions to, or has on order, approximately twenty-six professionally related journals. While the present level of library holdings is limited, it is sufficient to service the program during its initial development. With a regular program of appropriate additions, the book and periodicals in the J. Eugene Smith Library will meet the needs of the proposed program.

Present classroom facilities are more than adequate to service the program and sufficient facilities exist for the continued introduction of seminars and professional business workshops.

B. At present, there are six full-time professional staff positions to service the proposed degree program. (See Vitae which follow)

Kenneth M. Parzych teaches courses in Principles of Economics, Government and Business, and advanced courses in Managerial and Quantitative Analysis. John Lombard teaches courses in Principles of Economics, Macro-economic Analysis, and Money and Banking.

John Monticello teaches courses in Principles of Economics, Business Law, and Insurance.

Tapan Roy teaches courses in Principles of Economics and Marketing.

Jean Lucas teaches accounting and business finance courses.

Lyle Yorks teaches introductory and advanced courses in management, including, Personnel Administration and Organizational Behavior.

At present, the Department is conducting a position search and anticipates at least one more full-time appointment beginning in September, 1978.

In addition, David Haines teaches a part-time course load in introductory management and personnel administration. Also, John Sharlow teaches courses in Mathematics for Economics and Business and Quantitative Analysis.

During the past several years, the Department has employed ten or more part-time instructors to teach various business courses.

#### V. TIME SCHEDULE

A. Institutional Approval
Academic Planning Committee
Agenda of the Planning Committee, Board of Trustees

### MANAGEMENT SCIENCE MAJOR

General degree requirements will conform to the basic requirements of Eastern Connecticut State College's Four-Year Curricula; a minimum of 123 semester hours required for the degree, and the general distribution requirements as listed below:

General Distribution Requirements Seme	ster Hours
General Education Core	36
Health and Physical Education	3
Business Administration Core Requirements	36
Specialized Management Science Requirements	12
Electives (in Liberal Arts and/or Business Administration)	36

## General Business Administration Core Requirements:

All students enrolled in the B.S.B.A. degree program must complete the following courses:

Course	<u>Title</u>	Sem. Hours
Economics 109-108 B.A. 110-111 B.A. 120 B.A. 130 B.A. 140 B.A. 200-300 Economics 241 C.S. 100 B.A. 343	Principles of Economics Principles of Accounting Principles of Marketing Business Management Finance Eusiness Law Government and Business Computer Concepts Insurance	6 6 3 3 3 6 3 3

In addition to the 36 semester hours which comprise the Business Administration Core Requirements, the student must complete an additional 12 semester hours within the selected Management Science specialized option.

### Personnel and Behavioral Management Option

Course	<u>Title</u>	Sem. Hours
B.A. 230 B.A. 231 B.A. 330 B.A. 400	Personnel Administration Organizational Behavior Industrial Labor Relations Seminar	3 3 3
		.12

### Business Administration Course Offerings:

The following are the various course offerings within functional business areas which the college currently offers. Students may include these courses as part of their elective program with the noted exceptions.

	Course	<u>Title</u>
	Accounting	
*B.A.	110	Principles of Accounting
*Β.Α.	111	Principles of Accounting II
в.А.	210	Intermediate Accounting I
в.А.	211	Intermediate Accounting II
B.A.	310	Cost Accounting
B.A.	311	Auditing
B.A.	312	Federal Taxes

## **Finance**

	Course	<u>Title</u>
*B.A. B.A. *B.A. Econ	240 241 343 346	Finance Corporation Finance Investment Analysis Insurance International Finances Money and Banking
	Marketing	
*B.A. B.A. B.A. B.A. B.A.	220 221 222 322	Principles of Marketing Sales Management Consumer Marketing Marketing Management Industrial Marketing Marketing Research
	Management	
*B.A. B.A. B.A. B.A.	230 231 200 300 330	Business Management   Personnel Administration Organizational Behavior Business Law   Business Law   Industrial Labor Relations
в.А.	フンフ	Production Planning and Control

<sup>\*</sup>Courses required of all students to complete the general business administration core.

Name:	Kenneth	Myro	n	Pa	ırzych	-
- national o	(first)	(14)	ddle)		(last)	<b></b> .
Denartm	ment: Economics and Ma	anagement Sc	iences			
"cparen						
Date of	Birth: June 16, 194	2				
Has ten	ure been awarded?	Yes	date:	1975		<del></del>
If not,	give date when tenure	becomes eff	ective automat	ically:		
				mo	o/day/year	
Service	at ECSC:				· •	
present	rank: Professor		since	: 1977		
previou	s rank: Associate Profe	essor	since	:1974-	1977	· · · · · · · · · · · · · · · · · · ·
previou	s rank: Associate Profe	essor	since	: 1971-	1974(Nichols	College
Prior s	ervice other than ECSC	1 24 2 2				
Title a	nd Institution: Associa	e Prof.(Nic	hols Coll from	1971	to 1974	
Title a	nd Institution: Assista	nt Prof. (SU	NY) from	1969	_to1971	<del></del>
	nd Institution: Assista					· · · · · · · · · · · · · · · · · · ·
Summari necessa	ze other pertinent expery):	erience if i	t seems desira	ble (attaci	n sheets if	
Ė×	ecutive Management Tra	lning Progra	m (General Ele	ctric Co.)	1965	•
	•					
						•
Educati	on:				date	
,			• .		degree	
Degree	Institution	<u>Fi e</u>	<u>1 d</u>		awarded	
В.А.	American Internationa	l College-Ec	onomics		1964	1
M.A.	University of New Ham	oshire- Ec	onomics		1965	-
Ph.D.	University of Connect	icut- Ec	onomics		1970	
						<del></del>
Title o	f Doctoral Dissertation	n: An Analy	sis of Export	rade Unde	the Webb-	<del></del>
	omerene Act.				بيدين ومفيق و <del>وادان ديوره بادان داد داد داد داد داد</del> . 	<del></del> ·
					<del></del>	

2. List courses taught at ECSC, and circle those which are regularly taught.

Principles of Economics Microeconomic Analysis
Government and Business
International Economics

History of Economic Thought

3. List Independent Studies, Practica, Internships, and other teaching duties.

Supervise advanced undergraduate independent study

Supervise Management Internship Program

Have evolved the internship program within the department and involves many diverse business organizations

4. Summarize student advising activities, indicating number of students involved.

Advise students with expressed interest in Economics and Management Sciences

Approximately 85 - 100 students

5.c.List campus organizations for which you have acted as faculty advisor (give dates):

Faculty Advisor: Junior Class

Faculty Advisor: Omicron Delta Epsilon (Honor Society)

Faculty Advisor: Economics and Business Club

6. Indicate participation in departmental or interdepartmental colloquia which are not included in your normal teaching load.

During the Spring (1978) academic semester, I am team-teaching with a member of the history department. The course is: Economics-370 (History of Economic Thought)

7. Describe any unusual contributions to teaching, such as the development of new courses or programs; improvement of methods of instruction and materials for existing courses; etc. (Attach extra pages, if necessary, and number 2.a, 2.b, etc.).

Was hired for the expressed purpose of, and have contributed for the evaluation and implementation of the entire Economics and Management Science degree curriculum.

8. List any graduate teaching activities not included above.

I teach one graduate course:

Economics - 501 (Contemporary Economic Issues and Policy)

Name:	David	G •		ПА	TIMES
	(first)	(Middle)			(last)
Department	t: Education (	Management Scien	nces, ½ t	ime by	arrangement)
Date of Bi	irth: <u>Feb. 27, 1</u>	935			
Has tenure	e been awarded?	yes	date:	1974	
If not, g	ive date when tenure	becomes effective	automatica	11y:	/day/year
				IIIO	/ uay/ year
Service at	ECSC:				
present ra	ank: Assistant F	rofessor	_since:	Sept.,	1972
previous i	rank: Instructor	and an array of the state of th	since:	Sept.,	1970
previous i	rank:	maka nga kanana kalantan na jaka katanahan ka kalantan katanahan ka	since:		
Prior serv	vice other than ECSC	: See ATTACHM	ENT #1		
Title and	Institution:		from		to
Title and	Institution:		from		_to
Title and	Institution:		from	an annument some approximations of	to
Summarize necessary)	other pertinent exp SEE ATTAC		desirable	(attach	sheets if
Education					date degree
Degree	Institution	Field			awarded
Ph. D.	Univ. of Conn.	Educational Ad	lministat:	ion	1975
**	Springfield Col	lege See Attach	ment #2		1962
Ed. M.	Boston Univ.	Health Educ./0	uidance		1957
B.S. Ed.	Boston Univ.	Physical Ed./	Elem. Ed.		1956
	Doctoral Dissertatio				
	Laboratory Expe	التداجا والمتبعين والمتعافظ فالمتنفي والمتنور والمتنور			
Preparat	ion Programs of	Selected State (	Colleges	in Conn	ecticut.

- 1. Main field of teaching interest and competence:
  Educational Studies, Educational Research, Management Sciences
- List courses taught at ECSC, and circle those which are regularly taught.SEE ATTACHMENT #3
- A part of my teaching load for the past eight years has been to assign students in education and other department courses to pre-student teaching laboratory experiences. It has not been uncommon, prior to collective bargaining, for me to be supervising one or more independent study projects.
- 4. Summarize student advising activities, indicating number of students involved.

  My normal advisee list during the past five years has been in excess of fifty elementary education students. I often see many students from other education programs because of my assignment duties.
- 5. List campus organizations for which you have acted as faculty advisor (give dates):

Student Government, Budget and Management Committee (BAM) (1976 to present)

- 6. Indicate participation in departmental or interdepartmental colloquia which are not included in your normal teaching load.
  - CO-Director, Exemplary Project in Career/Vocational Education for Prospective Teachers, a three year program funded by the Vocational Education Div., Conn. Department of Education.
- 7.8 Describe any unusual contributions to teaching, such as the development of new courses or programs; improvement of methods of instruction and materials for existing courses; etc. (Attach extra pages, if necessary, and number 2.a, 2.b, etc.).

SEE ATTACHMENT #4

8. List any graduate teaching activities not included above.

## ATTACHMENT #3

### Couses taught:

ED	205	Community Work Experience I	1970-75
ED	206	Community Work Experience II	1971-74
ED	310	Intro. to Foundations of Educ.	1974
ED	556	Problems in American Education	1975-77 GRAD
ED	569	Seminar in Research	1975-77 GRAD
Exe	emplar	y Project in Career Education	1976-78
CE	200	Curriculum in Career Education	
CE	201	Practicum in Career Education	
CE	202	Internship in Career Education	
BA	130	Business Management I	1977-78
BA	230	Personnel Administration	1978

### ATTACHMENT #4

### Unusual contributions:

As co-director of the ECSC Exemplary Project in Career Education for Prospective Teachers, I have participated in the development and modification of the three courses in the program. This program is more fully described in the proposals and yearly reports and in the document entitled CAREER EDUCATION FOR PROSPECTIVE TEACHERS which was presented at the 58th Annual Meeting of the Association of Teacher Educators in Las Vegas, Nevada. Feb. 1, 1978.

In cooperation with the A-V Center, I have developed in excess Of seventy-five overhead transparancies for use in ED 556, ED 569, CE 200, BA 130 and BA 230. The areas covered are:

problem-solving
cultural interaction
communications
leadership
organizational development
change
motivation
behavioral theory
management theory
career education
stastical procedures
measures of central tendency
problems in perception
planning

In addition to these aids, I have written several case studies for use in the classroom.

Name: Jean S.		Lucas
(first) (Middle)		(last)
Department: Department of Economics and Ma	nagement Scier	ces
Date of Birth: May 2, 1930		
Has tenure been awarded? No	_date:	
If not, give date when tenure becomes effective a	nutomatically:	1/16/85 //day/year
Service at ECSC:		
present rank: Assistant Professor	_since: 9/1/	776
previous rank:	_since:	
previous rank:	since:	
Prior service other than ECSC: Lecturer & Instructor		
Title and Institution: University of Conn.	from 1973	to 1975
Research Assistant Title and Institution: Statistical, UCONN		
Research Assistant Title and Institution: Washington State Uni.		
Summarize other pertinent experience if it seems necessary):		
Five years experience with H Office Manager and teacher of both courses. Taught Taxes at Adult Edu	beginning and	advanced Tax
Education:		date degree
Degree Institution Field		awarded
B.S. University of MassAnimal Scie	nce	6/1952
M.S. Washington State UnivAnimal Scie	nce & Genetics	6/1974
MBA University of ConnAccounting	& Taxes	6/1974
Title of Doctoral Dissertation:		

1. Main field of teaching interest and competence:

Principles of Accounting; Federal Income Taxes; Principles of Finance

2. List courses taught at ECSC, and circle those which are regularly taught.

Principles of Accounting

Federal Income Taxes

Principles of Finance

3. List Independent Studies, Practica, Internships, and other teaching duties.

Developing Internships for accounting students.

I will be assisting in Internships for the Department.

- 4. Summarize student advising activities, indicating number of students involved.
- 5. List campus organizations for which you have acted as faculty advisor (give dates):
- 6. Indicate participation in departmental or interdepartmental colloquia which are not included in your normal teaching load.
- 7.6 Describe any unusual contributions to teaching, such as the development of new courses or programs; improvement of methods of instruction and materials for existing courses; etc. (Attach extra pages, if necessary, and number 2.a, 2.b, etc.).

Developing Internships for accounting students. I will be assisting in Internships for the Department. I will also be conducting seminars for students in Income Tax Preparation.

8. List any graduate teaching activities not included above.

Name:	John	Daniel		donticello
Name:	(first)	(Middle)		(last)
Department	Economics an	d Management Sci	ences	
Date of Bi	rth: September	10, 1942		
Has tenure	been awarded?	No	date:	
If not, giv	ve date when tenur	e becomes effective	automatically:	day/year
Service at				
		rofessor	since: Aug.30,	1977
	ice other than ECS			
Title and		rsity of Conn.	from Sept. 1974	to Aug. 1976
Title and	Institution:		from	to
Title and	Institution:		from	to
Summarize onecessary)		perience if it seem	s desirable (attach	sheets if
				*
Education:				date degree
Degree	Institution	<u>Field</u>		awarded
Ph.D.(ABD	)Univ. of Penns	ylvania-Business	& Applied Econ.	(June 1979?
мва	Wharton Gradua	ite (U of P)-Insu	rance	Dec, 1972
AΒ	University of	Rochester-Geolog	у	June, 1964
Title of Do	octoral Dissertati	on: A Metagame -	Theoretic Appro	ach to
		in Liability Insu	rance.	

1. Main field of teaching interest and competence:

Insurance - all aspects, but especially in the area of Life Insurance

2. List courses taught at ECSC, and circle those which are regularly taught.

Insurance (BA 343), Business Law I (summer school only)
(Principles of Economics I & II (Econ. 108 & 109), Econ. 495

- 3. List Independent Studies, Practica, Internships, and other teaching duties.
  None
- 4. Summarize student advising activities, indicating number of students involved.

Spring, 1978 - advisor for 16 students who are Economics majors or who have indicated Economics as preferred major.

Involved with helping students select courses for Fall, 1978 and designing programs of study for career enhancement.

5. List campus organizations for which you have acted as faculty advisor (give dates):

Economics & Business Club - September, 1977 - May, 1978

6. Indicate participation in departmental or interdepartmental colloquia which are not included in your normal teaching load.

None

7.5 Describe any unusual contributions to teaching, such as the development of new courses or programs; improvement of methods of instruction and materials for existing courses; etc. (Attach extra pages, if necessary, and number 2.a, 2.b, etc.).

Currently developing syllabi for 2 advanced Insurance courses to be taught for the first time at Eastern next year.

8. List any graduate teaching activities not included above.

Name: John		Jose	PH	LOMDE	
(first)		(Midd	1e)	(las	t)
Department: Economics	and Mana	gement	Sciences		:
Nate of Birth: May 5, 1	944		planning days a state of the second of the s		- 4 1
Has tenure been awarded?				September :	
If not, give date when t	cenure becom	es effec	tive automati	cally:mo/day	/year
Service at ECSC: present rank: <u>Assistar</u>	nt Profess	or	since:	August, 1977	7
previous rank: Instruct	or		since:	August, 197	3
previous rank:		· · · · · · · · · · · · · · · · · · ·	since:		
Prior service other than	ECSC:				
Title and Institution:_	8		from	to	
Title and Institution:_	·		from	to_	
Title and Institution:			from	to	
Summarize other pertiner necessary): Chief Econor of Connection	nist, Powe	r Facil	ity Evalua	le (attach she tion Council August, 197	, State
Education:		and Silver		d	ate
Degree Institution		Field		d	egree warded
B.A. University	of Conn.	Econon		June,	
M.A. University	of Conn.	Econon	nics	June,	1970
Ph.D. University	of Conn.	Econon	nics	Novem	ber, 1977
Title of Doctoral Disser	tation: E1	ectric	Utility Ra	te Design:	An
Application of Peak	Load Pric	ing to	a Major El	ectric Utili	ty in
New England.					

Name: TAPAN KUMA	AR ROY TOTAL	
(first) (Midd	le) (last)	
Department: <u>ECONOMICS</u> & MANA	AGEMENT SCIENCES	
Date of Birth: MARCH 8, 1937		
Has tenure been awarded? NO	date:	
If not, give date when tenure becomes effect	tive automatically: Om 30, 283 mo/day/year	
Service at ECSC:		
present rank: ASST. PROF	since: AUGUST30, 1977	
previous rank:	since:	
previous rank:		<
Prior service other than ECSC:		
Title and Institution: VISITING LECTURER, TE	HPLE U from SEPT. 175" to JUNE 77	
Title and Institution: REASEARCH ASST. TEMP		
Title and Institution: GRAD. AST. BALL ST. V		
Summarize other pertinent experience if it s necessary): LECTURER IN ECONOMICS, RECOLLEGE D RESEARCH FELLOW, A.N.S INSTITUTE OF S A PART-TIME LECTURER, PATNA, INDI	SEEMS desirable (attach sheets if SURGAPUR, INDIA. AUG. 60 - AUG. 68 SECIAL STUDIES, PATNA, WOIA. SEPT.58 - JULY 60	
Education:	date	
Degree Institution Field	degree awarded	
M.A. PATNA UNIV. (INDIA) ECO	NOMICS 1958	
M.A. BALL STUNIN MUNCIE, IND. (USA) A	MANAGEMENT 1990	
Ph. D. TEMPLEU., HILADEPHIA ECC	ONOMICS (FINISHING UP DISSERTATION THE)	YE'A I
Title of Doctoral Dissertation: CONCENTR		78 .
POLICY POR ECONOMIC DEVELOPMENT		

Name: John (first)	Francis (Hiddle)	<u>S</u>	harlow (last)
Department: Mathematics Educ	, i		
Date of Birth: August 28, 194			
Has tenure been awarded? Yes		· September	1973
If not, give date when tenure become	errective automa	mo	/day/year
Service at ECSC:			
present rank: Associate Professor	sinc	e: September	, 1973
previous rank: Assistant Professor			
previous rank:	sinc	e:	
Prior service other than ECSC:			
Assistant Prof Title and Institution:of N.Y. Ag. &	essor; State Univ. Tech.College from	9/65	to 9/69
Math Dept. Ch Title and Institution: High School,F	nairman,Parishville		
Title and Institution:		- Committee of the comm	
Summarize other pertinent experience necessary):			
Education:			date degree
Degree <u>Institution</u>	Field		awarded
Ed.D. St. Univ of N.Y., Albany	Mathematics	<del></del>	June 1971
M.S. Clarkson College	Mathematics		June 1967
M.S.Ed. St. Univ. N.Y.College,Potsdam	Mathematics	The second secon	June 1965
B.S. St. Univ. N.Y. College, Potsdam	Mathematics		June 1963
Title of Doctoral Dissertation: "Retr	oactive and Proact	ive Effects	of the Study of
Symbolic Logic on Ninth and Tenth Grac	le Students' Achiev	ement in Sel	ected Mathematica
Topics"			