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#### ABSTRACT

The objectives of this paper are threefold: (1) to present the structure and functioning of a system of "self-paced mastery learning" as evolved by the department over the period May 1972 to March 1974; (2) to discuss perceived "flaws" in traditional college level "learning systems" and receive input from readers regarding the educational relevance of the approach; and (3) to receive specific suggestions regarding further modifications of the system. (Author)



US DEPARTMENT OF HEALTH EDUCATION & NELFARE COTTONAL INTUITE OF EDUCATION OF THE STATE OF THE ST

# SELF-PACED MASTERY LEARNING AS APPLIED TO INTRODUCTORY SOCIOLOGY

Presented To The Spring Meeting

Of The

Community College Social Science Association

March 14, 1974

San Diego, California

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D. Laplante

Social Science Department Lambton College, Sarnia, Ontario Canada



#### OBJECTIVES

Objectives of the presentation/paper are threefold:

- 1. To present the structure and functioning of a system of "self-paced mastery learning" as evolved by our department over the period May 1972 to March 1974.
- 2. To discuss perceived "flaws" in traditional college level "learning systems" and receive input from listeners/readers regarding the educational relevance of our approach.
- To receive <u>specific</u> suggestions regarding further modifications of our system.

#### INSTITUTIONAL SETTING

Lambton College is a small, comprehensive community college operated through funding of the Province of Ontario. It has about 800 students, most of whom are graduates of Grade 12 (the Ontario Secondary School System extends itself to Grade 13). The majority of students are of working class background, ethnically English, with a full range of motivational levels. About two-thirds come from the city and suburbs of Sarnia which has a population of approximately 70,000. The remainder are from the surrounding rural district. Many students suffer from lack of success in their high school background.

Lambton College is similar to comparable institutions in the U.S. with respect to its "open-door" policy. However, it differs from many equivalent American colleges in that, consistent with the other 19 Ontario colleges, it is looked upon as a genuine post-secondary alternative to university education. Consequently most programs within the institution are specifically employment-oriented, with little transfer to 4-year institutions. The usual range of programs are included, e.g. nursing, nursery school teaching, business and technology specialties, etc. The latter is especially active in Chemical Technology since one of the largest concentrations of petro-chemical industries in Canada is in the Sarnia area.

Lambton College was established in 1966 and has gained a reputation as a leader in instructional innovation in the region. It is perhaps most widely known for its annual "International Institute On The Community College" held in June.

Institutional goals have encouraged well-planned experimentation in instructional innovation. If a project appears to have merit it is supported with such "extras" as paid planning time, paraprofessionals, computer back-up, hardware, and printing.

UNIVERSITY OF CALIF. LOS ANGELES

JUN 26 1974

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### "EDUCATIONAL MALPRACTICES"

Our experience has led us to support Don Stewart's use of the phrase "Educational Malpractices" (Educational Malpractices, Slate Services, 1971) to describe many characteristics of the post-secondary educational scene. Those "malpractices" to which we have tried to respond are as follows:

- 1. Standard Learning Pace
  The constraints of plant and personnel have been used as the rationale for forcing all students to digest a specific quantity of knowledge in a set period of time. Psychologists, on the other hand, have been claiming that all individuals do not "learn" at the same rate.
- 2. Content Mastery Defined by "Bell Curve"

  This refers to the concept of learning being measured by a student's relative standing in a class. Sometimes an individual rated as "A" (excellent?) has "learned" 60% of the content in order to achieve this exalted standing. His achievement is measured relative to others who have had the ill luck to learn even less!
- 3. One-Chance Learning
  The assumption that learning which is not completed on the
  "first try" is "non-learning" is basic to traditional education.
  We allow criminals a second and third chance to "learn" but tend
  to deny this to our own students!
- 4. Learning By Same Technique
  Teachers have traditionally chosen passive listening (lecture method) as the means of transmitting knowledge. Consequently they are missing too many students who tend to absorb knowledge better by reading, or by discussing, or by working on an individual project.
- 5. "Teacher-Centered" Learning System
  Education has become a highly institutionalized process wherein most activities revolve around the permanent members of the organization (faculty, staff, administration). Redesigning the environment to put the learner at the "Centre" is a necessary change toward efficient and well-motivated learning.
- 6. Subjective Grading
  The evaluation of what has been learned by an individual in "Academic Courses" has long been subject to the whims of the individual instructor. The criteria are often lacking. A student is left to guess what letter or numerical result will be assigned to his work.



- 7. Grading As A Guessing Game
  In conjunction with the last point, students must play the game
  of "guess what parts (questions) of the course I am going to
  test you on." If the student is successful in doing just this
  he may pass, if he is not successful he may fail.
- 8. Teacher As Opponent
  Often the result of the above structural problems is the separation of instructors and students into opposing camps. Teachers then become persons to overcome rather than to seek help from!

## PRIMARY SYSTEM CHARACTERISTICS

Self-paced mastery learning as applied to our introductory Sociology course is an attempt to attack the 'malpractices' above. The chief characteristics of the approach are:

- I. Self-Paced Learning
  This means that the student can proceed at the speed which he finds most convenient and which fits his "learning style." A student can complete a "semester" course in four weeks or two years without prejudice to his academic success.
- We feel that the "Bell Curve" is not an acceptable means by which to evaluate learning. The standards are absolute in this course! A student cannot complete the course without achieving demonstrated understanding of concepts, facts, or date which are central to the discipline. We, as professionals, must be able to specify these prior to the learning experience and determine when the specific learning has taken place.

## IMPLEMENTATION OF SYSTEM

1. Course Outline and Student Initiation
Students are initiated into the course by means of a comprehensive
(95 pages!) course outline and week-long series of seminars. It
is important to spend this time at the beginning since students are
unfamiliar with most elements of the system.

The course outline includes the following:

COURSE DESCRIPTION

PRINT MATERIALS NECESSARY

REFERENCES

GENERAL GOALS

COURSE ORGANIZATION



BEHAVIOURAL OBJECTIVES

EVALUATION OF BEHAVIOURAL OBJECTIVES

SEMESTER EVALUATION

GRADE CONTRACTING

TUTORIALS

ATTITUDINAL SURVEY (A "Project")

ALTERNATE OBJECTIVES

TEACHING ASSISTANT

COMPUTER FEEDBACK SYSTEM

STUDENT SUMMARIES

SEMINARS (1-13 LISTED)

BEHAVIOURAL OBJECTIVES (UNITS 1-13)

ALTERNATE SEMINAR OBJECTIVES

ATTITUDINAL SURVEY MATERIALS

At this point it is extremely important that students thoroughly understand all the components of their new learning system. To ensure this, we suggest that students be tested on their knowledge of the system. A student should not be allowed to proceed further until he demonstrates that he understands the system.

- 2. General Goals
  We specify the following general goals to our students:
  - Provide the student with a framework with which he will be able to view his society more objectively.
  - 2) Provide a basic familiarity with the discipline of sociology.
  - Acquaint the student with the basic vocabulary of sociology so that he may be able to understand the reasoning of sociologists.
  - 4) Create a milieu in which the student can produce a consistent personal relationship to his social environment.
  - 5) Teach the student to critically evaluate popular literature which purports to be social scientific in nature.
- 3. Course Organization
  Introductory Sociology is comprised of two "one-semester" courses:
  Sociology 100 and Sociology 200. Each course consists of 13 learning units (see Appendix "A" for list of units). Each unit includes one seminar, one tutoral, and an evaluation session.



4. Behavioural Objectives

The course is designed in such a way as to take the guesswork out of learning. Students in other courses often complain that they don't know exactly what to study. This problem is overcome by providing the students with a list of behavioural objectives which spell out exactly what they must know in order to complete a unit.

There are 3 types of behavioural objectives.

1) C-Level Objectives

These require the student to demonstrate his understanding of basic sociological concepts either by describing them in his own words or by applying them to examples drawn from real life. These objectives must be achieved by students who wish to earn a C-grade in the course.

2) B-Level Objectives

These require the student to demonstrate his understanding of basic sociological concepts at a more sophisticated level. The student must formulate his own examples which illustrate various concepts. These objectives (along with C-level objectives) must be achieved by students who wish to earn a B-grade in the course.

3) A-Level Objectives

These require the student to formulate applications of basic sociological concepts to specific life situations. These objectives (along with C-level and B-level objectives) must be achieved by students who wish to earn an A-grade in the course. (See Appendix "B" for a full unit of objectives).

In addition to the above objectives, <u>Seminar Objectives</u> specify the participation requirements that must be met for each seminar.

Alternate Objectives exist for students who prefer another learning style and for those who do not achieve scheduled seminar objectives.

5. Grade Contracting

Students in this course select the grade which they wish to earn by completing a grade contract form. Students who do not complete all the requirements for the grade they have chosen will receive an "I" until they have completed the requirements they have set for themselves. Grade contracts can be changed at any time.

There are three semester grades that can be earned in this course: A, B, C. Below are work requirements for each.

"A" Grade: 1. Meet reading objectives (C-, B-, A- level)

2. Actively participate in 13 seminars (or equivalent alternate objectives for each seminar)

3. Perform and write up I attitudinal survey, or other project.

"B" Grade: 1. Meet reading objectives (C-, B- level)

 Actively participate in 13 seminars (or equivalent alternate objectives for each seminar)

"C" Grade: 1. Meet reading objectives (C-level)

(See Appendix "C" for Grade Contract Form)

- 6. Learning Techniques
  The objectives of the course can be met by a mixture of the following learning techniques:
  - A. Use Of Print Materials. Behavioural Objectives and Alternate Objectives are keyed to specific text materials.
  - B. Individual Tutorials. Part of the Instructor's course load includes scheduled tutorials when students who experience difficulty with print materials can learn on a one-to-one basis.
  - C. Behavioural Objectives Workshop. In addition to the tutorials, an instructor conducts weekly objectives workshops in which he directs small group discussions regarding issues related to Lahavioural Objectives.
  - Seminars. These provide an opportunity for students to discuss the applicability of basic sociological concepts to themselves and their society. Seminar activities include simulations, film discussions, values clarification, and videotaped interaction analyses.

(See Appendix "D" for list of seminar topics)

- E. Involvement Project, Depending upon the grade contract, a student undertakes a research project which requires him to sample human behaviour patterns in his community. He analyzes and reports the results of his observations to the instructor or group.
- 7. Evaluation of Behavioural Objectives
  The student is evaluated solely on the basis of the learning objectives for each unit. Evaluations are in the form of short-answer questions or matching questions which exactly reflect the learning objectives. Here is a simplified example.

#### Learning Objectives:

THE STUDENT MUST BE ABLE TO:

- 1. Define scientific truth, in his own words.
- 2. Given examples of culture traits, indicate whether each is associated with Canada, Britain, or the USA.

Evaluati	on:	
1.	Define scientific truth, in your own words	-
2.	Below are examples of culture traits. Indicate on the space provided whether each is associated with Canada (C), Britain (B), or the USA (U).	
	Buckingham Palace	
	The Maple Leaf	
*	The Baid Eagle	
	The Beaver	

All evaluations follow the same pattern as the examples.

The evaluation reflects the learning objectives directly.

The student is evaluated on each behavioural objective listed for the unit. Therefore, the student knows exactly what is evaluated even before beginning the evaluation.

In order to receive credit for a particular unit:

- C-level objectives must be completed with at least 80% proficiency.
- 2. B- and A- level objectives must be completed with 100% proficiency.

If a student fails to achieve this proficiency standard on the evaluation of a particular unit, he may rewrite the evaluation at a later date. The student is required to rewrite only those objectives in which he failed to demonstrate his proficiency. The student attempts each objective until he has achieved the proficiency level. The "Testing Centre" is available twelve hours a week.

If a student fails to achieve the proficiency standard on the second writing of a unit evaluation, he will be evaluated orally by the instructor on the third try. All subsequent evaluations are in oral form.

(See Appendix "E" for the unit evaluation keyed to the objectives specified in Appendix "B"  $\,$ 



8. Teaching Assistant
A teaching assistant is assigned the task of invigilating
the evaluation sessions and of grading the evaluations. These
two functions represent her sole duties. All questions pertaining
to the course content are directed to the instructors, and not to
the teaching assistant.

All responses to evaluations are provided by the instructors to the assistant.

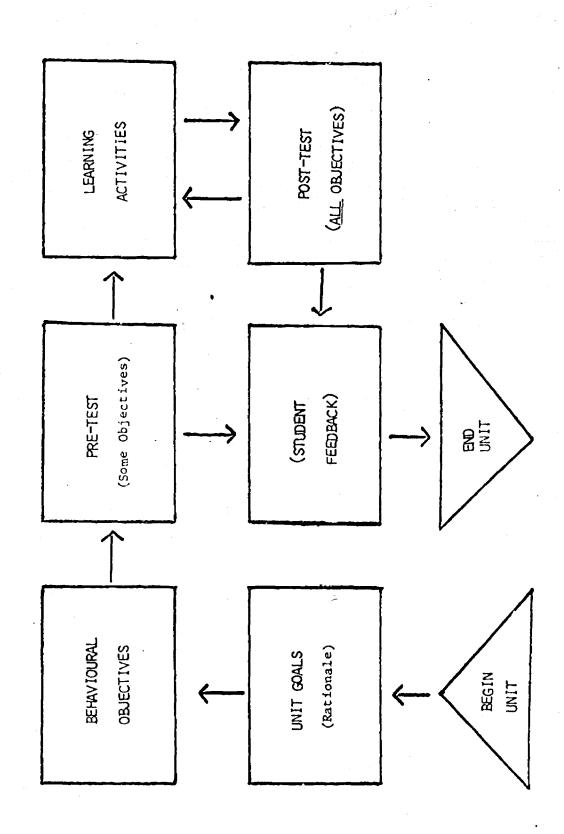
9. Feedback To Students

A weekly computer printout informs the student of his progress to date. This summarizes achievement of objectives in all learning units, seminars, and involvement activities.

(See Appendix "F" for a sample computer printout) deleted, marginal

The following flow chart represents a model of the learning process of a typical unit:





### PRINCIPLE BENEFITS

#### 1. To Students:

A. Free to work at their own pace.

B. Success achieved by means of content mastery.

C. Multiple-opportunity learning.

 Alternate learning techniques adaptable to individual learning styles.

E. Focus of learning returned to student.

F. Objective grading.

G. Specific concepts or facts to be mastered known before beginning learning process.

H. Relationship to teacher non-threatening.

1. Success is self-motivating.

#### 2. To Instructors:

A. More time flexibility to assist students most needing help.

8. Increased ability to shape the learning environment.

C. Increased morale due to perceived role changes - as "helper" rather than opponent.

D. Feeling of greater commitment to the learning process,

E. Student success motivates Instructor.

#### 3. To Administration:

A. Decreased necessity to deal with student-faculty misunderstandings.

B. Greater cost efficiency.

C. Documentation of institutional achievement (in terms of student learning) is easier to demonstrate to "Sponsors."

D. A specific knowledge of course content.

## 4. To Institution:

A. Generally higher efficiency.

B. Higher morale among all members.

C. Flexibility in meeting community needs through modification of specific learning objectives.

D. Greater community and governmental support.

E. A specific knowledge of course content.

#### THE FUTURE

University education has not adequately prepared us for our new roles as "systems managers" and educational innovators. We are painfully aware of the necessity to acquire new skills in order to modify the educational scene. We are sure the approach outlined in this paper will continue to evolve (or be replaced) as we develop greater educational sophistication.



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Some of the "Educational Malpractices" that we have attempted to confront, continue to wander through our professional lives like demons requiring almost continual minor exorcisms. On the whole, however, we would not "rather be in Philadelphia!"



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# APPENDICES



#### APPENDIX A

## Sociology 100 Learning Units:

Unit 1 - Science and the Search for Truth
Unit 2 - Fields and Methods of Sociology
Unit 3 - Structure of Culture
Unit 4 - Evolution of Culture
Unit 5 - Personality and Socialization
Unit 6 - Role and Status
Unit 7 - Social Control
Unit 8 - Social Deviation
Unit 9 - The Penal System
Unit 10 - Social groups
Unit 11 - Social Institutions
Unit 12 - The Family
Unit 13 - Communes

## Sociology 200 Learning Units:

Unit 1 - Formal Organizations
Unit 2 - Social Class
Unit 3 - Workmen in Society
Unit 4 - Social Mobility
Unit 5 - Social Processes
Unit 6 - Social Power
Unit 7 - Race and Ethnic Relations
Unit 8 - Collective Behaviour
Unit 9 - Population
Unit 10 - The Community
Unit 11 - Social and Cultural Change
Unit 12 - Social Movements
Unit 13 - Social Change 11



#### "APPENDIX B"

#### UNIT 1

## Formal Organizations

Behavioural Objectives (C-level)

Horton & Hunt. Sociology. Chapter 11

THE STUDENT MUST BE ABLE TO ACCOMPLISH THE FOLLOWING:

- 1. Given examples of social organizations, indicate whether each refers to a formal organization, informal organization, or social institution.
- Given examples of formal organizations, indicate whether each refers to economic production, political power, societal integration, pattern maintenance, or play.
- 3. Given examples of organizations, indicate whether each is a closely structured organization or a loosely structured organization.
- 4. Given examples of decision-making power, indicate whether each refers to authority or influence.
- 5. Given examples illustrating the characteristics of a bureaucracy, indicate whether each refers to specialization, job tenure, formalistic impersonality or chain of command.
- 6. Given examples illustrating criticisms of the civil service, indicate whether each refers to invidious status, rigidity of performance, division of responsibility or bifurcation of allegiance.
- 7. Given examples of workers, indicate whether each refers to a professional or a byreaucrat, and for each, justify his answer.





## UNIT 1

## Formal Organizations

Behavioural Objectives (8-level)

THE STUDENT MUST BE ABLE TO ACCOMPLISH THE FOLLOWING:

- 1. Note his own example of
  - a) a closely structured organization
  - b) a loosely structured organization
- 2. Note one time in his life when
  - a) a person used authority on him
  - b) a person used influence on him
- 3. Note his own example of
  - a) a professional
  - b) a bureaucrat



## UNIT 1

# Formal Organization

Behavioural Objectives (A-level)

# THE STUDENT MUST BE ABLE TO ACCOMPLISH THE FOLLOWING:

- 1. Discuss each of the following characteristics of a bureaucracy as they apply to Lambton College.
  - (a) specialization
  - (b) job tenure
  - (c) formalistic impersonality
  - (d) chain of command



# PERFORMANCE CONTRACT SOCIAL SCIENCES

COURSE TITLE		SECTION_	
NAME OF INSTRUCTOR			
NAME OF STUDENT			
STUDENT NUMBER			
With full understa	anding of	the requirem	ents for th
grade I've chosen,	, I hereby	select the	following
grade toward which	ı I shall	work:	
	В	c	
	circle one	<b>3)</b>	
Signature of Stude	e n <b>č</b>		
Date of Signature			



# "APPENDIX D"

# Sociology 100 Seminar Topics:

Unit	Topic
<u>.</u>	Orientation
1	"Who Am I" Exercise
2	Experience in inquiry
3	Film: "Future Shock"
4	Value Survey
5	College Socialization Pressures
6	Occupation Ratings
7	Film: "Like it Is"
8	Legal Sanctions
9	Group Interaction Analysis
10	Group Interaction Analysis
11	Film: "Four Religions"
12	Film: "Four Families"
13	Assembly Line Exercise

# Sociology 200 Seminar Topics:

•	Orientation
1	Space Ambassadors Exercise
2	Film: "Life Style"
3	Social Class Exercise
4	The Miracle Workers Exercise
5	Film: "Hutterites"
6	Propaganda Exercise
7	Mass Media Exercise
8	Film: "Death"
9	Attitudes, Values and TV
0	Film: "Where We Live"
1	Social Readjustment Rating Scale
2	Sociology of Ann Landers
3	The Pie of Life

U		soc 200 - 3		C-LEVEL
2 STU	DENT NUMBER 8	UNIT 1-EVALUAT	поп	21
SECTION 9	GRADE CONTRACT	FORMAL ORGANIZAT	rions	B-LEVEL. 30 33
name.				A-LEVEL
				OFFICE USE ONLY
	each refers to a	es of social organization formal organization (F) ocial institution (S).	ons.	indicate whether informal organi-
	religion			
	General Mot	ors		
	education			
	Teachers Fe	deration		
	Match each of the	t-hand column are types se Items with its corre y writing the appropria	spond	ing example in
	Junior Pregr	essiv <b>e</b> Conservatives	a)	economic production
<b>\</b>	Antique Auto	mobile Club of Canada	<b>b)</b>	political power
	Scouts		c)	societal integration
	Chrysler Cor	poration	d)	pattern maintenance
	Canadian Med	Ical Association	8)	play

-19-

1 c1

"APPENDIX E"

a or	closely structured organizations. In ganization (C) or ganization (L).	ndicate v r a loose	whether each is ply structured
	government		
<del></del>	the Baptist Church		
:	the military		
	the Catholic Church		
	Lambton College		
4. Bel			
spa	ow are examples of decision-making por ce provided, wheth <b>er e</b> ach refers to a	uthority	(A) or influence (1).
	_ because Joe is the most popular guy do what he wants to do	y in scho	ol, all his friends
	the King Issues an ordinance forcin	g all pe	ople to pay him
<u></u>	the Prime Minister's wife persuades in Switzerland	him to	take a hollday
-	the policeman orders the bank robbe	r to sur	render
Belo Matc colu	w, in the right hand column, are char h each of these with its corresponding nn by writing the appropriate letter o	acterist	cs of bureaucracy.
	after Joe has been teaching for 2 years with the same school, the principal will not be able to fire him.	<b>a)</b>	그림을 살아 있는데 보는데 그들은 살아보는 아름다면
	everyone in an office is an expert in his own field.	<b>b)</b>	job tenure
	at the college, the President has authority over the Dean, who has authority over the Chairman, who has authority over the Teachers	c)	formalistic impersonality
	a set of rules ensures that everyone at the office must remain at work until 5:00 o'clock	4)	chain of command

	prisons were designed to a) invidious status rehabilitate inmates; but employees of the prison system do nothing but control inmates to keep them in line.
	a person who is having difficulty with his unemploy- ment insurance benefits is constantly being shuffled from one person to another, until he finally finds someone whom he can pin down to a decision
	a social worker tells an unwed c) division of responsibility mother that she is inelligible for mother's allowance
	a clerk blindly follows regulations d) bifurcation of allegiance even when he knows that they are in error
7.	Below are examples of workers. Indicate whether each refers to a professional (P) or to a bureaucrat (B). Justify each answer.
	and the state of t
	business manager
	college teacher
	typist
	a <del>managa</del> ng status (1870) na ang ang ang ang ang ang ang ang ang

# SOCIOLOGY 200

# UNIT 1

# EVALUATION (B-LEVEL)

# Formal Organization

1.	Note you	r Own example of
	<b>a)</b>	a closely structured organization
	<b>b)</b>	a loosely structured organization
2.	Note one	time in your life when
	a)	a person used authority on you
	ь)	a person used influence on you
		마시스 즐겁 가능에 하고 있는 사람 전에 가르고 있는 것은 것을 받는 것을 모르는데 그 것이다. 
3	na dia dia dia dia dia dia dia dia dia di	
3.	note your	own example of
	a)	a professional
	<b>b</b> )	a bureaucrat
		. 사용 발생님, 이 15 등에는 마음을 보고 하는 것이 되었다. 그 전에 함께 되는 것이 되었다. 하는 것이라는 방생님은 사용을 가득하고 있다. 그 전문을 받았다는 사용을 보고 있다. 그 사용을 받았다.



# SOCIOLOGY 200

# UNIT 1

# EVALUATION (A-LEVEL)

# Formal Organization

a)	specialization	
		-
ь)	job tenure	
<b>c)</b>	formalistic impersonality	
		<del>Line</del> Seete Seet
<b>d</b> )	chain of command	
		+

