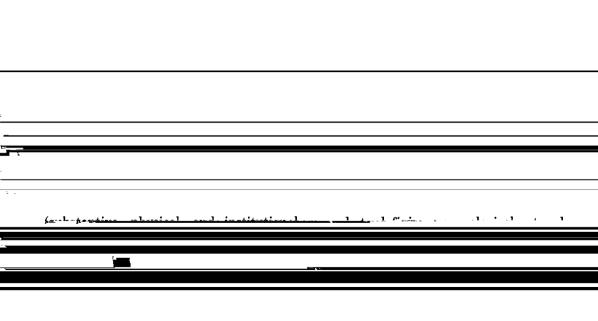
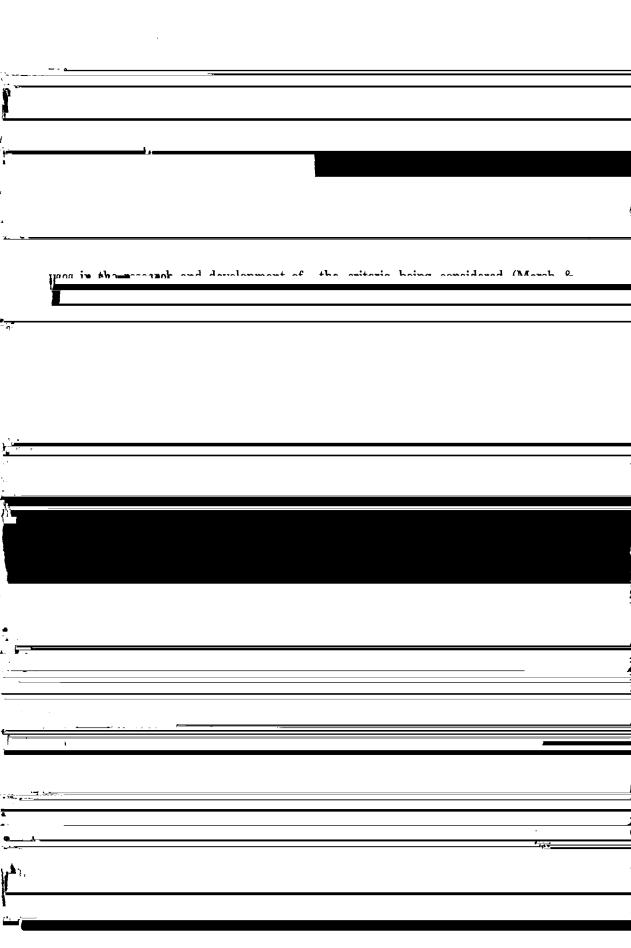
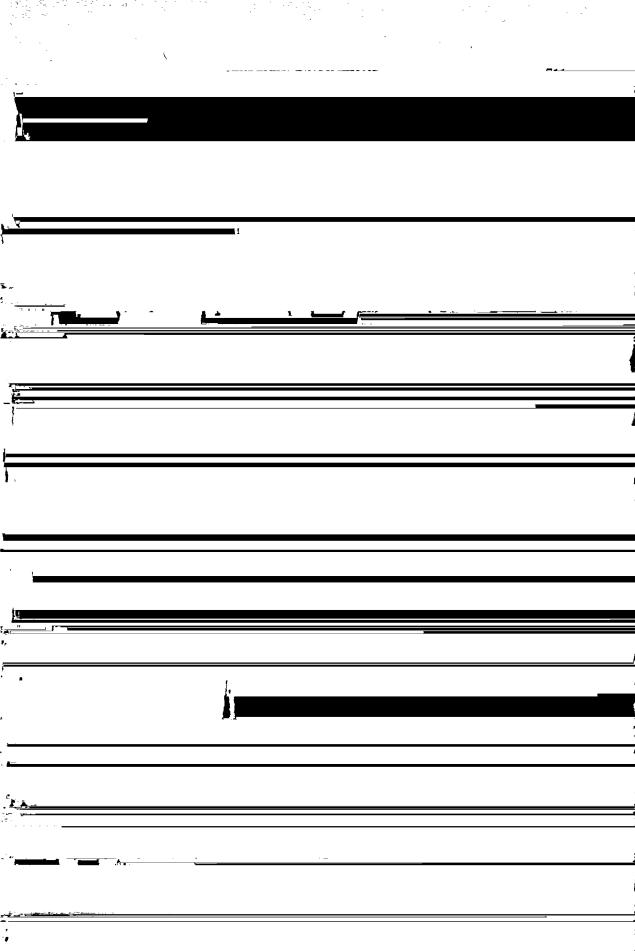
708 HERBERT W. MARSH officehora and atindontali context inichles different commences . This muces come

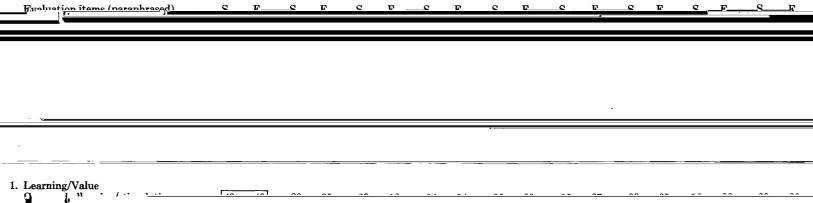


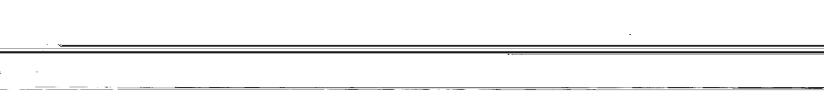
jngs and to explore directions for future re-	evaluation items	Poorly worded or inan-
forms This proceed approximante	. waamista ikama w	III wak severida arakilika
<i>1</i> , <u> </u>		
the construct validation approach described	formation. Stude	nt ratings, like the teach-



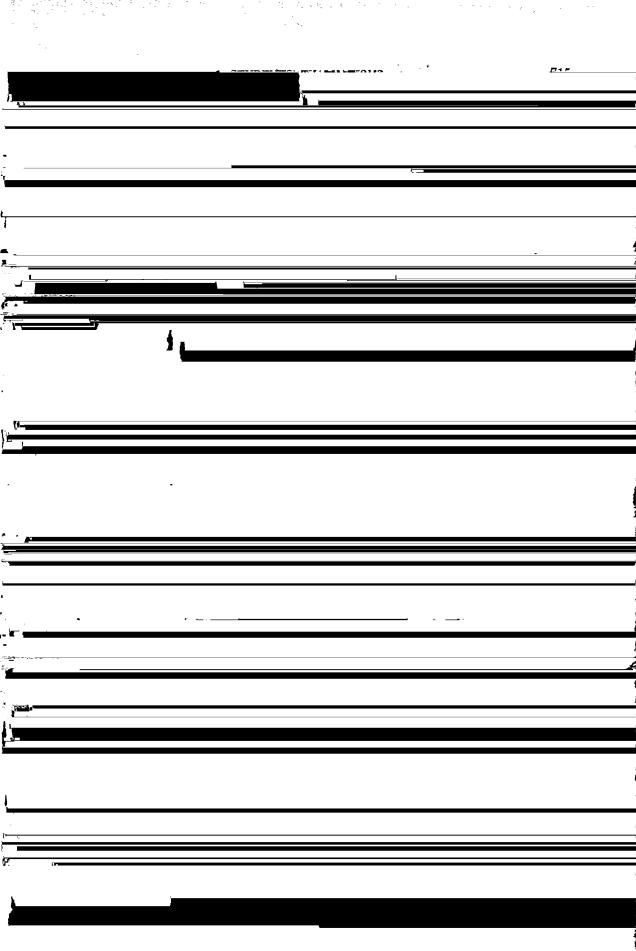


3 Franciation itame (naranhracod)





				OTOBBITED	I TIDOMITONS	
		6 8.	02 04 96 10 85 74	88 86 62 32 73 46 s of student	alizable (e.g., a teacher who was judged to be well organized but lacking enthusiasm in one course was likely to receive a similar pattern of ratings in other classes) These findings	
						4
		A=				
		· 				
						;
,	-	# .A	4	·	<u> </u>	,
7-	_					
		<u>"</u>			,	
						1
	-					
		•				
						,
	æ'	<u> </u>		<u> </u>		
\$ 						



716 large impact on factor analyses of individual each provided clear support for the multi-

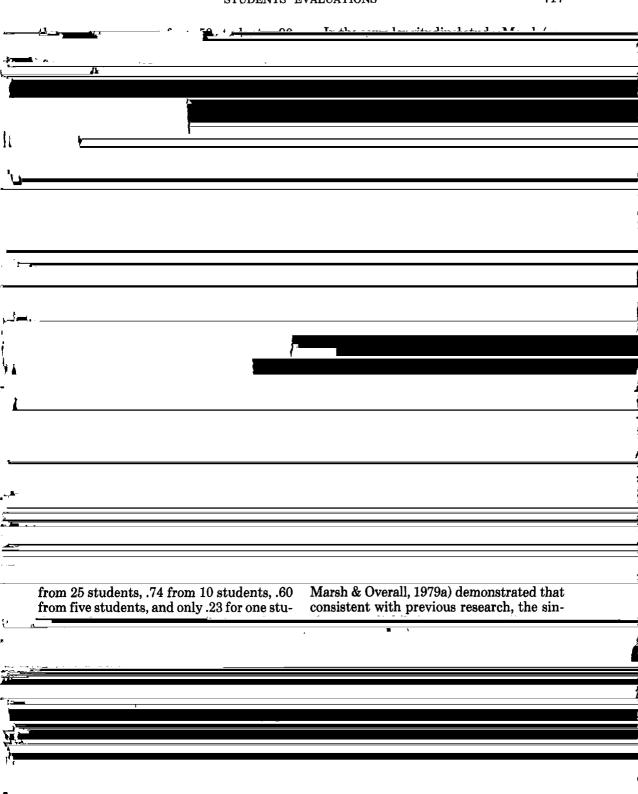


Table 3 Correlations Among Different Sets of Classes for Student Ratings and Background Characteristics

Measure	Same teacher, same course	Same teacher, different course	Different teacher, same course	Different teacher, different courses
* 1				
2				
<u> </u>				
,				
Enthusiasm Organization/Clarity	.734	.613 .540	.011	.028 063
Organization/Clarity Group Interaction	.676 .699	.540 .540	023 .291	063 .224
Organization/Clarity Group Interaction Individual Rapport	.676 .699 .726	.540 .540 .542	023 .291 .180	063 .224 .146
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage	.676 .699 .726 .727	.540 .540 .542 .481	023 .291 .180 .117	063 .224 .146 .067
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments	.676 .699 .726 .727 .633 .681	.540 .540 .542 .481 .512 .428	023 .291 .180 .117 .066 .332	063 .224 .146 .067 004
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty	.676 .699 .726 .727 .633 .681	.540 .540 .542 .481 .512 .428 .400	023 .291 .180 .117 .066 .332 .392	063 .224 .146 .067 004 .112
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty Overall course	.676 .699 .726 .727 .633 .681 .733	.540 .540 .542 .481 .512 .428 .400 .591	023 .291 .180 .117 .066 .332 .392 011	063 .224 .146 .067 004 .112 .215 065
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty Overall course Overall instructor	.676 .699 .726 .727 .633 .681 .733 .712	.540 .540 .542 .481 .512 .428 .400 .591 .607	023 .291 .180 .117 .066 .332 .392 011 051	063 .224 .146 .067 004 .112 .215 065 059
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty Overall course	.676 .699 .726 .727 .633 .681 .733	.540 .540 .542 .481 .512 .428 .400 .591	023 .291 .180 .117 .066 .332 .392 011	063 .224 .146 .067 004 .112 .215 065
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty Overall course Overall instructor Mean coefficient	.676 .699 .726 .727 .633 .681 .733 .712	.540 .540 .542 .481 .512 .428 .400 .591 .607	023 .291 .180 .117 .066 .332 .392 011 051	063 .224 .146 .067 004 .112 .215 065 059
Organization/Clarity Group Interaction Individual Rapport Breadth of Coverage Examinations/Grading Assignments Workload/Difficulty Overall course Overall instructor Mean coefficient	.676 .699 .726 .727 .633 .681 .733 .712	.540 .540 .542 .481 .512 .428 .400 .591 .607	023 .291 .180 .117 .066 .332 .392 011 051	063 .224 .146 .067 004 .112 .215 065 059

Reason for taking course (percent indicating				
general interest)	.770	.448	.671	.383
Class average expected grade	.709	.405	.483	.356
Workload/difficulty	.773	.400	.392	.215
Course enrollment	.846	.312	.593	.058
Percent attendance on day evaluations				
administered	.406	.164	.214	.045
Mean coefficient	.690	.340	.491	.211

other criteria include changes in student behaviors, instructor self-evaluations, the evaluations of peers and/or administrators who actually attend class sessions, the fremency of occurrence of specific behaviors

lidity. The most widely accepted criterion

of effective teaching is student learning, but

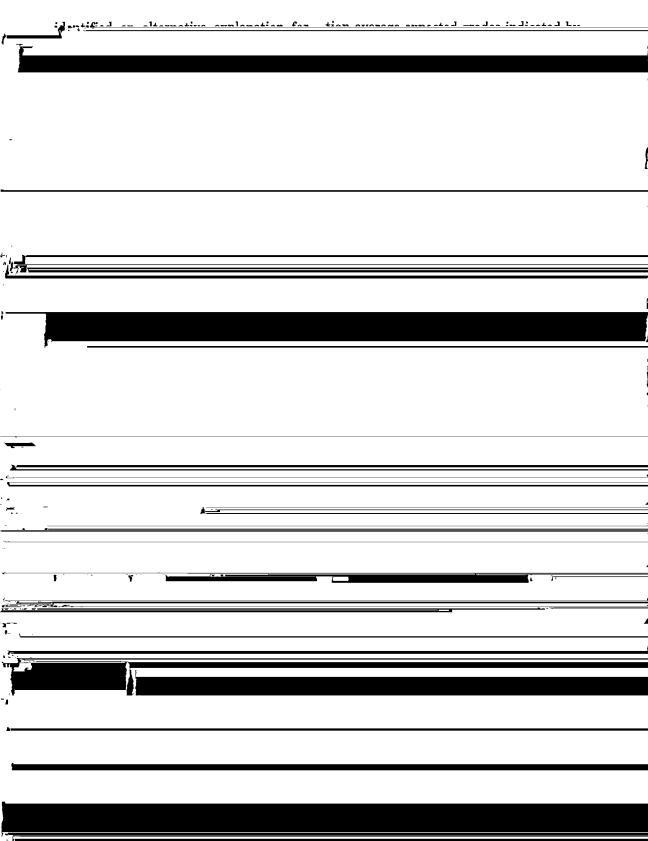
First, the ratings were not of the instructor in charge of the course but of teaching assistants who played a small ancillary role in the actual instruction. Thus, there was no way to separate achievement produced by a teaching assistant from that due to the instructor; a student who put too much religious teaching assistant from that due to the instructor; a student who put too much religious teaching assistant from that due to the instructor; a student who put too much religious teaching assistant from that due to the instructor; a student who put too much religious teaching assistant from the course of the course but of teaching assistants who played a small ancillary role in the actual instruction.

fects of experimental manipulations.

Multicoction Validity Studies

of lectures by the instructor might evaluate the assistant highly and perform poorly on the exam. Doyle (1975) also argued that a

	Unes when the design of mention and a franches a historian to this masses	
		- 1
		- 1
		- 1
		- 1
-		,
Jt.		
	<u>e</u>	
•		Ē
1 ,		
_		
•		
•		
8 -		
8 -	F-1	
8 =		
8 =		
8 =		
8	- C	
8	lidity studies is more adequate numerous it is important to have effective pretest	
S =	idity studies is more adequate numerous it is important to have effective pretest	
8 -	lidity stildies is more adequate numerous it is important to have effective pretest	
8 =	idity studies is more adequate numerous it is important to have effective pretest	
8 *	idita stildies is more adequate numerous it is important to have effective pretest	
8 =	idity studies is more adequate numerous it is important to have effective pretest	
8 *	idity studies is more adequate numerous it is important to have effective pretest	
8 2	idity studies is more adequate numerous it is important to have effective pretest	
8 *	idity studies is more adequate numerous it is important to have effective pretest	
8	idity studies is more adequate numerous it is important to have effective pretest	
8 -	idita stildies is more adequate numerous it is important to have effective pretest	
8 *	idity studies is more adequate numerous it is important to have effective pretest	
S -	idity studies is more adequate numerous it is important to have effective pretest	
§ *		
8	idity studies is more adequate numerous it is important to have effective pretest	
1		
<u>. *</u>		
<u>. *</u>		
<u>. *</u>		
<u>. *</u>		
<u>. *</u>		
<u>. *</u>		



of former students that are unlikely to confaculty self-evaluations in some areas but

Table 4
Multitrait-Multimethod Matrix: Correlations Between Student and Faculty Self-Evaluations in 329 Courses

•		Instructor self-evaluation factor								Student evaluation factor									
Factor	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Instructor self-evaluations	(09)																	-	
 Learning/Value Enthusiasm 	(83) 29	(82)																	
3. Organization	12	01	(74)	(00)															王
4. Group Interaction5. Individual Rapport	$01 \\ -07$	03 -01	-15 07	(90) 02	(82)														HERBERT
6. Breadth	13	12	13	11	-01	(84)													8EF
7. Examinations	-01	08	26	09	15	20	(76)	/=a\											ã
										71									
										71									
			7-							77									
			7-							T									
			ν-							71									
			\ <u></u>							71									
			7							FI	•								
			~							FI									
			~							FI									
			\			F				71									

(1975) compared peer ratings based on classroom visitation and student ratings at a brand new university, thus reducing the probable confounding of the two sources of information. Three different neers evaluations.

STUDENTS' EVALUATIONS

725

less sensitive, reliable, and valid; (2) more threatening and disruptive of faculty morale; and (3) more affected by non-instructional factors such as research productivity" (p. 45) than student ratings.

was a relative lack of agreement among peers

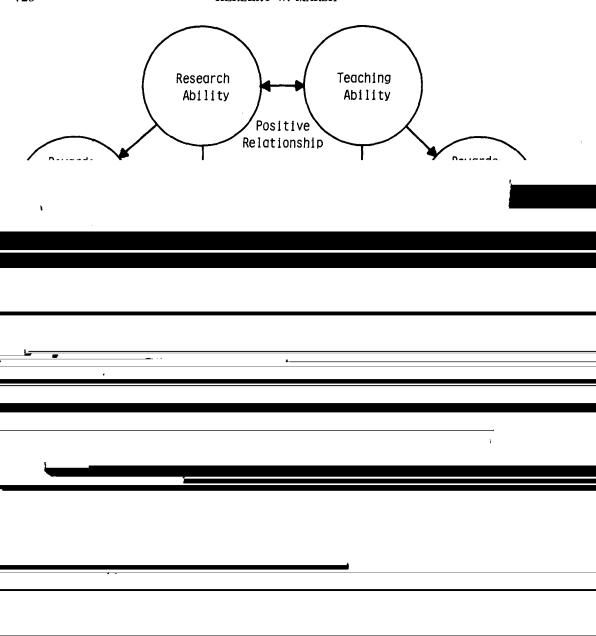
[poin n. m. 182] wibigh brings into quastion

[Poin n. m. 182] wibigh brings into quastion

their value as a criterion of affective teaching

significantly differentiated among the thre	ee (in press), and Rosenshine and Furst (1973)
, , , , , , , , , , , , , , , , , , ,	
— I	
<u>}</u>	
mendontly assurbated with a set of healessurve	A hunture of this offert and its remandition
_	
	\$
No.	
¥:	
	•

	achievement. Both naturalistic observa- tions and experimental manipulations of factors must also be related to external in-	•
	<u>*</u>	
_		
ī		
•		
1:-		
† .		
¦		
,		
ĞΤ		
. L		
. –		
- <u> </u>		
-		-
•	correlated with student ratings and with spect the research conducted on teacher	
	Y P ()	
<u> </u>		
<i>-</i>		
	· · · · · · · · · · · · · · · · · · ·	· .
	+ (AAA) - (AAA	
-		
<u> </u>		
ST.		



	Minis	numerostad has Blankhessen) a	und more ations an	d hanayaa thay awa ala	o molotimolm
	P 45				
		Ł			
	•				
	 				
	145				
	· <u>z-</u>				
	1	1	منائد سالدائد مالد	TO THE LATE OF THE A	
					
	A				
	•				
			to-		
	1 · · · · · · · · · · · · · · · · · · ·				
_					

validity, are so willing to accept other indicators that have not been tested or have been shown to have little validity.

Relation to Background Characteristics:

course (e.g., class size, content area, students' interest in the subject, etc.) and to rate the "ease of teaching this particular course." These ratings of ease-of-teaching (see Table

6) were not significantly correlated with any of the student rating factors and were nearly

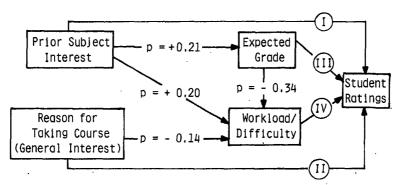


Figure 2. Path analysis model relating prior subject interest, reason for taking course, expected grade, and Workload/Difficulty. (Path coefficients for the student rating factors appear in Table 5.)

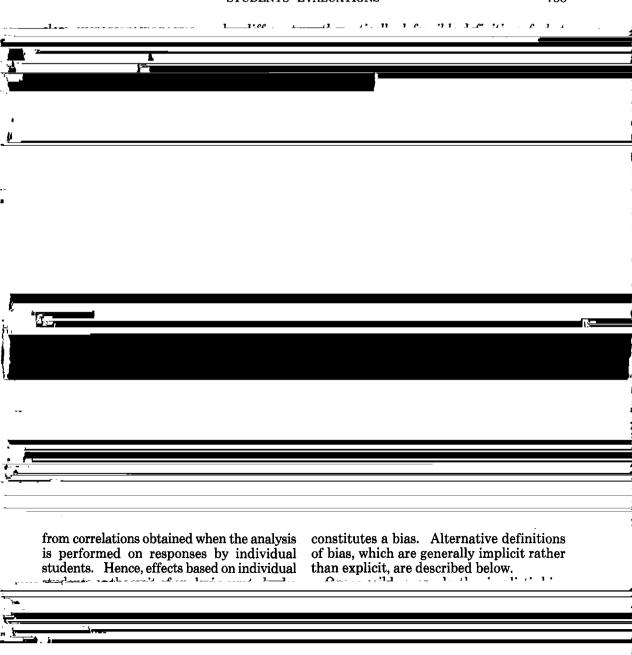
pipeilar backaraund characteristics of hours according toward only A noth analysis (can

Table 5

Dath, Anglesia Madal Delating Prior Subject Interest Degree for Taking Course Function

f			
·			
Grade and Work	nload/Difficulty to Student Ra	ings	
		Factor	
	1_7	10 1- man Wanter 4	1 757 757

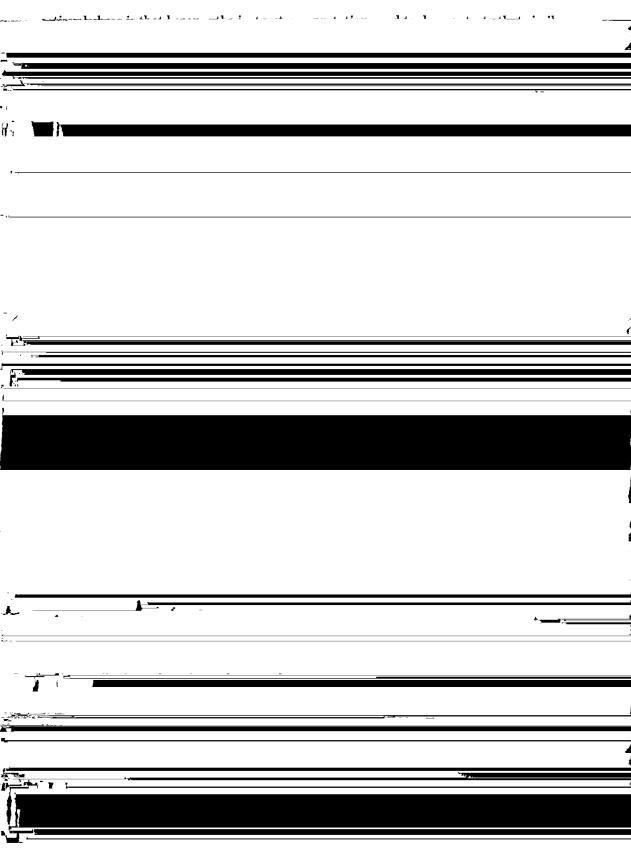
		Interest Only) Course Grade				ade	Difficulty					
			Orig			Orig	Orig					Orig
Student ratings	DC	TC	r	DC	TC	r	DC	TC	r	DC	TC	r
Learning/Value	36	11	11	15	19	15	26	20	20	17	17	19



,,,						
ence. اجمعا	For	example, even	though student	defining bias by statistically controlling for		
	<u> </u>					
· <u></u>			<u>.</u> .			
			6			
correl shoul	lated d not	with student ra be considered a	tings, this effect bias. However,	techniques or by forming normative (cohort) groups that are homogeneous with respect		

735

STUDENTS' EVALUATIONS



of correlations between a specific variable was moderately correlated with Group In-

very large classes can free up enormous amounts of instructional time that can be used to substantially reduce the average class size in the range where the effect of class size the student ratings and instructor selfevaluations. Higher student interest in the subject apparently creates a more favorable learning anxironment and facilitates offer

does appear to be negative. However, I (Marsh, Overall, & Kesler, 1979a) argued that my correlational effect should be interpreted cautiously and speculated that the unexpectedly higher ratings for very large classes could be due to (a) the selection of particularly effective instructors with dem-

tive teaching, and this effect is reflected in student ratings as well as faculty self-evaluations.

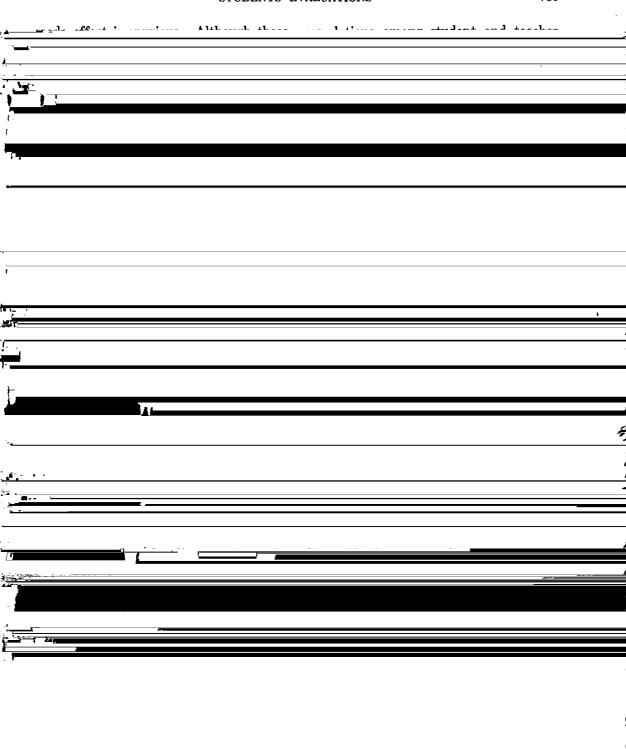
Workload/Difficulty. The Workload/Difficulty effect on students' evaluations was also one of the largest found (Marsh, 1980b.

1983) Paradoxically at least based on the

onstrated success in such settings; (b) stusupposition that Workload/Difficulty is a
depts systematically selecting classes taught
notential bias to student ratings higher

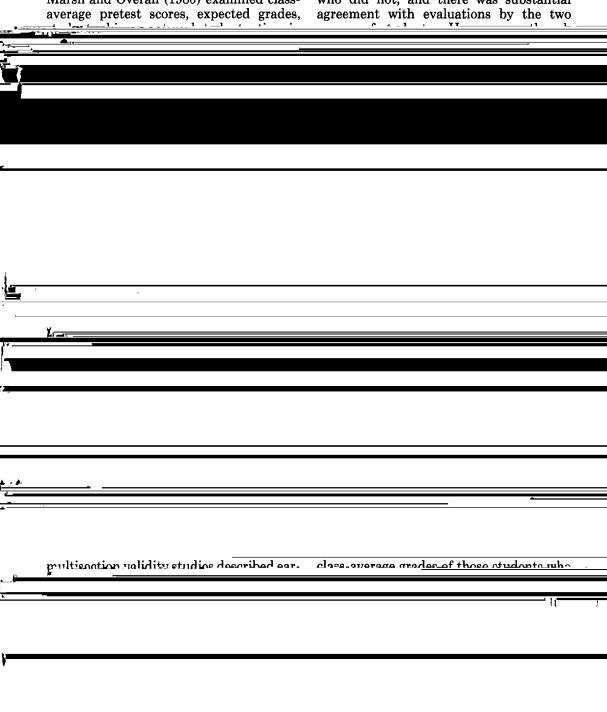
		000
	Table 6	
	Dankar John Carlett With Galder Derivation (B) A Barrier (
-7		
		*
7		
		•
	0.000 To(s) Ti 0.124 Tw106 000 To 0.184 To(Potin) Ti 0.000 To(s) Ti 310 Tc(ET8((actua) Ti0.000RTc(l) Ti-0.503 Tw99.557180.178 LearTr0.000 0.000 n.184 Tc(Ratin) Ti0.000TT0(d)	077i13 Tr10 000 T
	TO TOLD IN THE HIR TO SHOW WITH A BURNEY TO THE TOLD THE TOLD TO THE TANK THE TOLD TO THE TANK THE TOLD THE TOL	2 2 3 1110.000 1
		4
•		
•		ı
-	I	
	•	
r	·	

Student



Marsh, Fleiner, and Thomas (1975) and Marsh and Overall (1980) examined classaverage pretest scores, expected grades,

each class who received grades and those who did not, and there was substantial agreement with evaluations by the two



below) in which grading standards were experimentally manipulated. Groups of student size of such an effect is likely to be dents viewed a videotaped lecture, rated to the standard and the size of such an effect is likely to be dents to see the size of such and see the size of such and see the size of such an effect is likely to be dents to see the size of such and see the size of such an effect is likely to be dents t		
	below) in which grading standards were experimentally manipulated. Groups of students viewed a videotaped lecture, rated	ratings, support for this suggestion is weak and the size of such an effect is likely to be insubstantial in the actual use of student
	}	
	<u></u>	
	TL	
	·	
		7.2 G
, ware given their exemination regults and a great and		
, ware given their exemination regults and a great and		
, ware given their exemination regults and a grant and		
, ware given their exemination regults and a company of the compan		
	, ware vivon their exemination regults and a	

Table 7 Overview of Relations Found Between Students' Evaluations of Teaching Effect Specific Background Characteristics	iveness and

	F	~-		· ,	* ·			T 1	
								1	
									_
=									≣
									=
	· Fax-		h, g						=
									Ē
_									
	<u></u>			■ 1.					_
							_		
									_
- ,									_
									_
_									
_		it io	not always cle	ar if interes	t avieted ha	fore the ete	rt of cou	irga or wee	=
		gene	erated by the i	nstructor.					
	Expected/actual grades	Classe	s expecting (or	r actually re	ceiving) hig	her grades	give son	ewhat	
		high	es expecting (or ner ratings, the	ough this car	be interpr	eted to mea	ın either	that higher	r
			= -						=
	•								_
									_
									_

		,
	and teaching affactiveness was evaluated	in the way they were affected by the experi-
	and teaching effectiveness was evaluated. Despite the fact that the lecture content was	mental manipulations. In the condition
(I.M.F.	
-,		
	_	
• *		
: ,.		
	-ex	
	engeifically decimand to bene little advise	mant libra tha maissanaites alanautana in mhich
<u></u>		
	- -	
1		
	·	
		1
,		
<u>3</u>		
-	·	
\equiv		
	16	
,		
3		
-		
-		
		· ·
. –	. <u>4</u>	

tional value, the ratings were favorable. The students were told before viewing the lecture

Consistent with the Marsh and Ware reanalysis, they also found that in the few studies that analyzed separate rating factors, the rating factors that were most logically related to the expressiveness manipulation were most affected by it. Finally, they

tifaceted ratings in this article, a particularly powerful test of the validity of student ratings would be to show that each rating factor is strongly influenced by manipulations most logically associated with it and less influenced by other manipulations. This is

manipulation did interact with the content manipulation and a host of other variables above, and it offers strong support for the

1	and any appoids spitation can be	anna frama af reference	272 11111711791111 154
i i			
. 7			
Д			
[1]			
1-			
			
. •			
more accur	ately predicted by differentially	university classes the frame	of reference is
\			
<u> </u>			
	, —		
	<u>.</u>		
	<u> </u>	****	
A			
Section 1			
			•
	<u></u>		^··
			**

tape nate	d lectures seems dubious). Unfortu- son- and express- used	-Rose & Menges, 1981). I in two such studies us	SEEQ has been ing multiple sec-
3				
£4	1			
7 June 1				
)/ 				
- ·				
Te.				

real effect due to consultation that does not epond on feedback from student ratings). econd, the criterion of effective teaching affective performance in the studies was limited. North American universities (for reviews see epond on feedback from student ratings). econd, the criterion of effective teaching and to be studies was limited.		SIUDEN4S E	AVDOVÍTONE	121
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom	the effect of consultation wit	thout feedback	athorindiantom of tag	nabina offaatiunnaan in
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom	<u> </u>			
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
real effect due to consultation that does not epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom		•		·
epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom	<u>i.e a placebo effect due to c</u>	onsultation.or	evaluating total fac	<u>ultv performance in</u>
epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom				
epend on feedback from student ratings). Centra, 1979; Leventhal et al., 1981; Seldin, econd, the criterion of effective teaching 1975). Each survey found that classroom	real effect due to consultation	n that does not	North American unive	ersities (for reviews see
econd, the criterion of effective teaching 1975). Each survey found that classroom	lepend on feedback from st	udent ratings).	Centra, 1979; Leventl	nal et al., 1981; Seldin,
	second, the criterion of effe	ective teaching	1975). Each survey	found that classroom

748	HERBERT	W. MARSH
able for	subjects in these studies to assume	marized by a single score representing an
	- (- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
4		
partiall	v_based on students' evaluations.	components or by the separate presentation
These s	studies demonstrate the importance rts of teaching effectiveness but do	of each of the multiple components, but there is no research to indicate which is most
	·-	
	16.	

Ţŗ<u></u>

Overview, Summary, and Implications have a systematic voice in the interpretation of their student ratings.) Consequently,

anstrates that student ratings are clearly cators of affective teaching are proposed

multidimensional, quite reliable, reasonably (e.g., Centra, 1979), few are supported by yalid relatively uncontaminated by many systematic research and none are as clearly

on teaching. In N. L. Gage (Ed.), Handbook of research on teaching (pp. 171-246). Chicago: Rand considerable base of research from which to form oninions about their worth However_

lege faculty. Journal of Higher Education, 46, 89–102. man's "Consistency and variability among college students in rating their teachers and courses." Research in Higher Education, 10, 139-147. Marsh, H. W. (1977). The validity of students' evallecturer expressiveness, and density of lecture content on student ratings. Journal of Educational Psylone, J. R., & Magoon, A. J. (1971). Predictors of

ŧ,

I,

Menges, R. J. (1973). The new reporters: Students rate instruction. In C. R. Pace (Ed.), Evaluating learning and teaching. San Francisco: Jossey-Bass.

Morsh J F Burges G. G & Smith P N (1956)

Proceedings of the 79th annual convention of the American Psychological Association, 7, 523-524. Remmers, H. H. (1963). Teaching methods in research on teaching. In N. L. Gage (Ed.), Handbook on teaching. Chicago: Rand McNally.

Student achievement as a measure of instructional effectiveness—Journal of Educational Psychology of teachers. Science, 177, 1164-1166.

47, 79-88.

Rosenshine, B. (1971). Teaching behaviors and student achievement. London: National Foundation

