August 17, 2001

Dear Colleague:

As you know, CETL processes the Course/Instructor Opinion Survey (CIOS) results for the Institute. For 43 academic terms (39 quarters and 4 semesters—excluding summer sessions), we have been collecting data and updating the normative scores that provide a basis for interpreting individual ratings (categorized by class size since according to our experience and the general research, class size is the primary variable involved in significant differences in evaluation scores). Institute-wide normative data (for 1986-2001 and for 2000-2001) and normative data for each of the six colleges (for 1986-2001) are attached. The following explains how these results were obtained from the survey data and provides a key to interpreting the attached reports.

The survey results are divided into four topics for analysis. One item (item #24--"The instructor was an effective teacher") and the three "clusters" are used to characterize responses:
- Cluster 1 (C1): Preparation and Presentation of Course (Items 10, 11 13, 15, and 18)
- Cluster 2 (C2): Interaction with Students (Items 14, 19, 20, 21, 22)
- Cluster 3 (C3): Assessment of Student Performance (Items 12, 16, 17, 23)

For item #24, we generate the frequency distributions of normative data based on the *median* scores for this one question. For each of the clusters, first the *mean* of the four (C3) or five (C1 and C2) median scores for each item within a cluster are calculated; these means are then used to generate a normed curve. Frequency distributions of these means (or medians in the case of item #24) for all classes in that particular class size category are then used to generate "quintiles" (20th, 40th, 60th, 80th percentiles).

The reports entitled "ILLUSTRATION OF STABILITY OF NORM DATA" indicate the continuing stability of the survey data by showing how the cumulative data changes by adding in the most recent term.

The following notation will help you interpret the attached reports:
- "N" is the number of classes in a particular class size sample.
- The columns "Cut 1, Cut 2, Cut 3, and Cut 4" indicate where the lines that separate the quintiles on the accompanying curves are drawn.
- The survey responses range from 1 to 5 (1 – Strongly disagree; 2 – Disagree; 3 – Partially agree and partially disagree; 4 – Agree; 5 – Strongly agree).

I trust that these data are helpful to you. If you have any questions, feel free to contact me at billiee.pendletonparker@oars.gatech.edu or 4-8898.

Sincerely,

Billiee Pendleton-Parker
Assistant Director, CETL
CIOS Coordinator

College of Sciences 1986-2001

Class Size: Less than 16

Data	Item	N	Median	Cut1	Cut 2	Cut 3	Cut 4
42 Terms	24	1387	4.33	3.89	4.19	4.49	4.78
43 Terms	24	1395	4.33	3.89	4.19	4.49	4.78
42 Terms	C1	1387	4.19	3.80	4.06	4.31	4.59
43 Terms	C1	1395	4.19	3.80	4.07	4.31	4.59
42 Terms	C2	1387	4.38	3.97	4.25	4.48	4.69
43 Terms	C2	1395	4.38	3.97	4.25	4.48	4.69
42 Terms	C3	1387	4.12	3.75	4.01	4.21	4.50
43 Terms	C3	1395	4.12	3.75	4.01	4.21	4.50

Class Size: 16-35

Data	Item	N	Median	Cut1	Cut 2	Cut 3	Cut 4
42 Terms	24	2547	4.17	3.67	4.00	4.30	4.63
43 Terms	24	2643	4.16	3.66	3.99	4.29	4.63
42 Terms	C1	2547	4.06	3.61	3.93	4.15	4.42
43 Terms	C1	2643	4.05	3.59	3.92	4.15	4.42
42 Terms	C2	2547	4.19	3.74	4.06	4.30	4.54
43 Terms	C2	2643	4.19	3.73	4.07	4.29	4.53
42 Terms	C3	2547	4.03	3.61	3.92	4.13	4.36
43 Terms	C3	2643	4.02	3.60	3.92	4.12	4.36

Class Size: 36-99

Data	Item	N	Median	Cut1	Cut 2	Cut 3	Cut 4
42 Terms	24	2889	4.00	3.49	3.89	4.14	4.42
43 Terms	24	2986	4.00	3.49	3.88	4.13	4.41
42 Terms	C1	2889	3.92	3.45	3.80	4.02	4.24
43 Terms	C1	2986	3.91	3.44	3.79	4.02	4.24
42 Terms	C2	2889	4.02	3.62	3.91	4.11	4.34
43 Terms	C2	2986	4.02	3.61	3.91	4.10	4.34
42 Terms	C3	2889	3.95	3.54	3.85	4.03	4.21
43 Terms	C3	2986	3.94	3.53	3.84	4.03	4.20

Class Size: Greater than 99

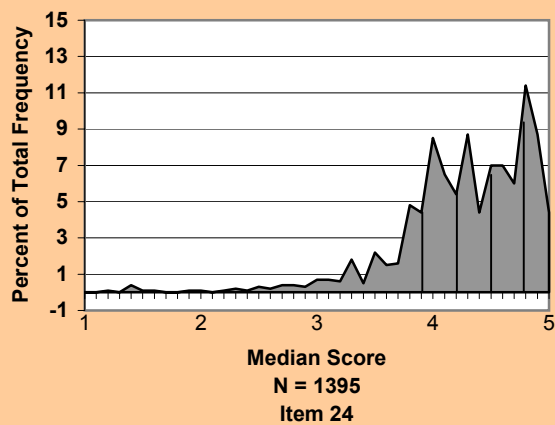| Data	Item	N	Median	Cut1	Cut 2	Cut 3	Cut 4
42 Terms	24	1263	4.05	3.50	3.92	4.16	4.49
43 Terms	24	1291	4.05	3.50	3.92	4.16	4.47
42 Terms	C1	1263	3.95	3.51	3.82	4.06	4.26
43 Terms	C1	1291	3.95	3.51	3.82	4.05	4.25
42 Terms	C2	1263	3.97	3.50	3.86	4.06	4.28
43 Terms	C2	1291	3.97	3.51	3.86	4.06	4.28
42 Terms	C3	1263	3.94	3.54	3.84	4.02	4.21
43 Terms	C3	1291	3.94	3.54	3.84	4.02	4.20

LEGEND

C1 is Preparation & Presentation = Items 10, 11, 13, 15, 18
C2 is Interaction with Students = Items 14, 19, 20, 21, 22
C3 is Assessment of Student Performance = Items 12, 16, 17, 23
Item 24 = The instructor was an effective teacher.

Note: In the "Data" column, "Terms" refers to quarters for every term previous to Fall 1999 and to semesters for every term starting with Fall 1999.
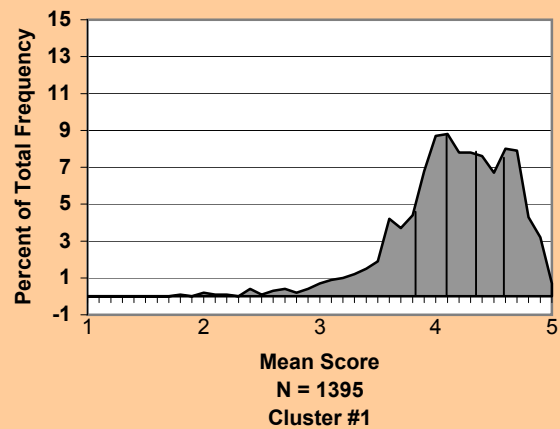
Norm Data for the College of Sciences 1986-2001
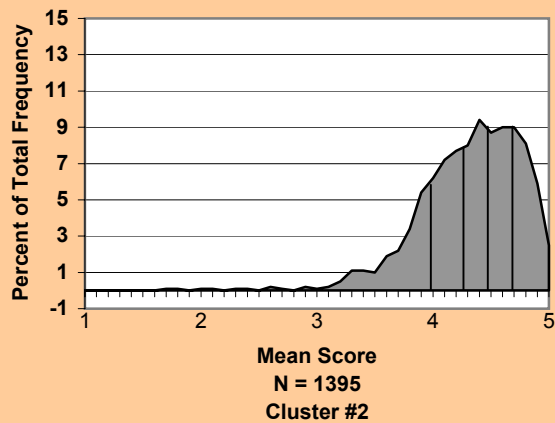
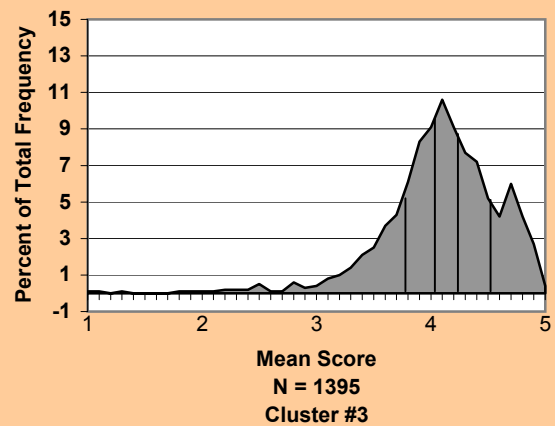## CLASS SIZE: LESS THAN 16

Instructor was an Effective Teacher

Percent of Total Frequency

15
13
11
9
7
5
3
1
-1

1   2   3   4   5

Median Score
N = 1395
Item 24

Preparation and Presentation of Course

Percent of Total Frequency

15
13
11
9
7
5
3
1
-1

1   2   3   4   5

Mean Score
N = 1395
Cluster #1

Interaction With Students

Percent of Total Frequency

15
13
11
9
7
5
3
1
-1

1   2   3   4   5

Mean Score
N = 1395
Cluster #2

Assessment of Student Performance

Percent of Total Frequency

15
13
11
9
7
5
3
1
-1

1   2   3   4   5

Mean Score
N = 1395
Cluster #3

CLASS SIZE: 16 - 35

Instructor was an Effective Teacher
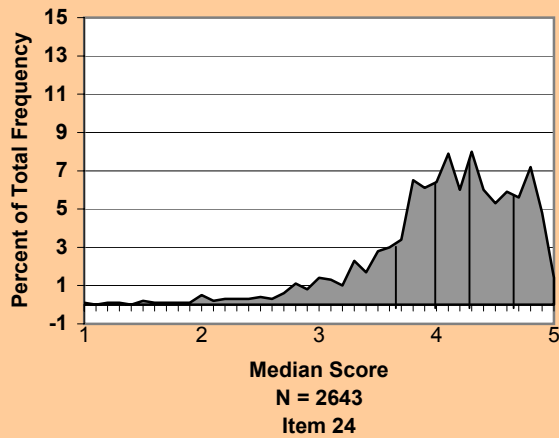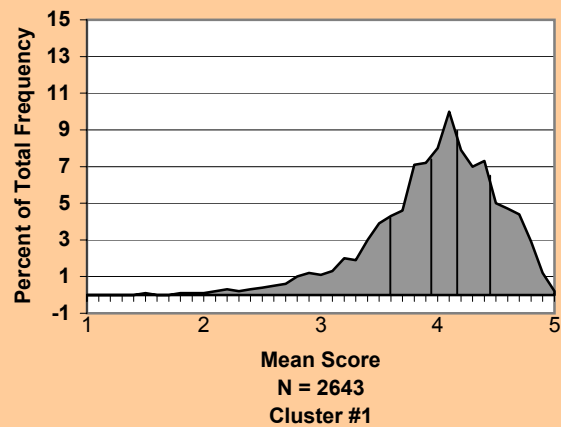
Median Score
N = 2643
Item 24

Preparation and Presentation of Course

Mean Score
N = 2643
Cluster #1

Interaction With Students

Mean Score
N = 2643
Cluster #2

Assessment of Student Performance

Mean Score
N = 2643
Cluster #3
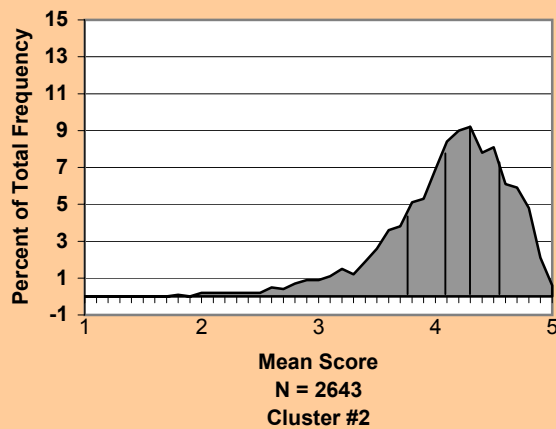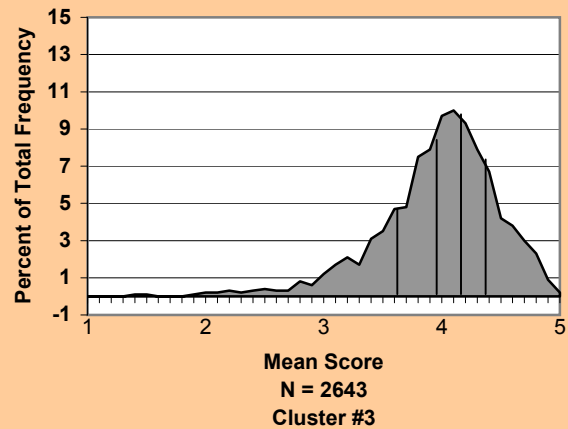
Norm Data for the College of Sciences 1986-2001

CLASS SIZE: 36 - 99

Instructor was an Effective Teacher
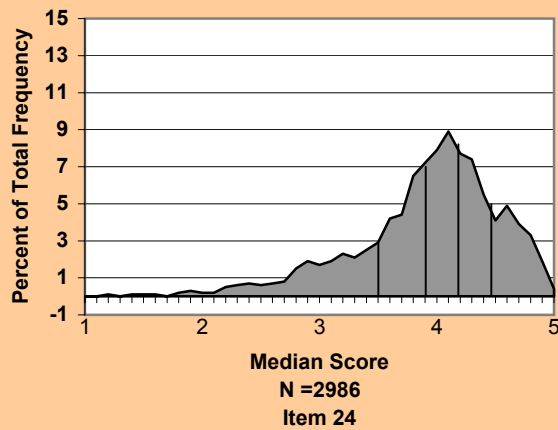
Percent of Total Frequency

Median Score
N =2986
Item 24

Preparation and Presentation of Course

Percent of Total Frequency

Mean Score
N = 2986
Cluster #1

Interaction With Students

Percent of Total Frequency

Mean Score
N = 2986
Cluster #2

Assessment of Student Performance

Percent of Total Frequency

Mean Score
N = 2986
Cluster #3
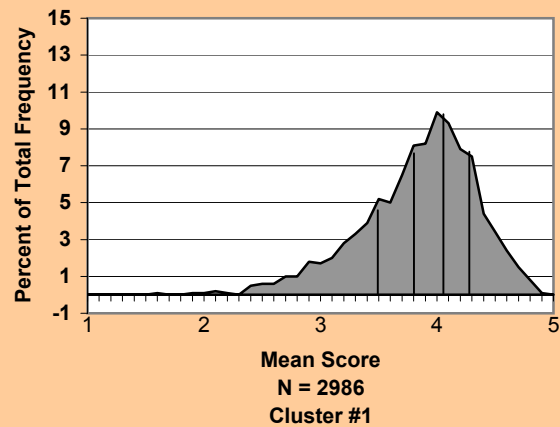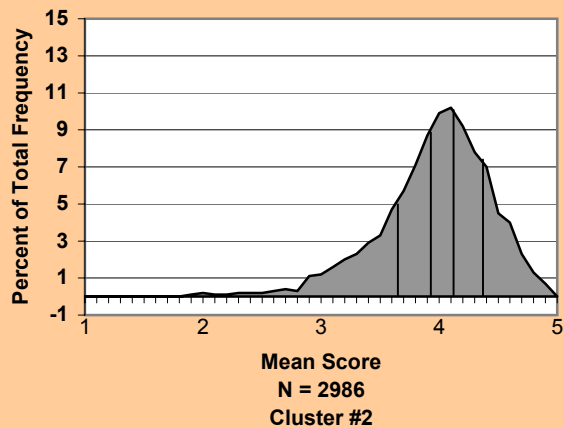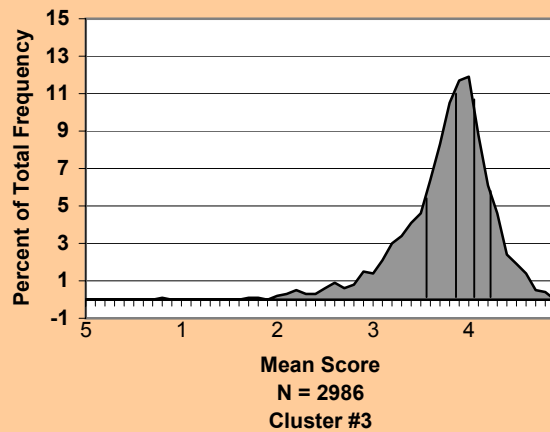
CLASS SIZE: Greater than 99

Instructor was an Effective Teacher

Median Score
N = 1291
Item 24

Preparation and Presentation of Course

Mean Score
N = 1291
Cluster #1

Interaction With Students

Mean Score
N = 1291
Cluster #2

Assessment of Student Performance

Mean Score
N = 1291
Cluster #3