## Freshman Narrative for Fall 1997, Spring 1998, Spring 1999, and Spring 2000

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## **Survey Methodology and Caveats**

Truman freshman students living in the residence halls have been surveyed using the College Student Experience Questionnaire by Residential Living and the Residential College Program since Fall 1997. The CSEQ 3<sup>rd</sup> edition was used in early fall 1997 as a baseline pre-test measure during an early fall administration with a random sample of 1,000 resident students (N = 494, 49% response rate; N = 225freshman students, 46.2% of respondents). This edition of the instrument was administered again in spring 1998 (April) to 390 residents who had completed the instrument in the fall and were retained in the residence halls during the spring semester (N = 225, 58% response rate [22.5% from Fall]; N = 92freshman students, 40.9% of respondents 40.9% of Fall freshman). These administrations of the CSEO allow for the examination of developmental differences across the year. This can be done by taking a snapshot approach (freshman students in the fall, freshman students in the spring as a whole) or by tracking individual freshman students who completed the instrument in the fall and spring by ID number. In this analysis, the first approach was utilized since many respondents didn't supply ID numbers. During spring 1999 (April), the CSEO 4<sup>th</sup> edition was administered to all students (approximately 2,543) residing in the residence halls (N = 927, 36.5% response rate; N = 496 freshman students, 54.2% of respondents). In spring 2000 (April), the CSEQ 4<sup>th</sup> edition was administered to a random sample of 1,000 students living in the residence halls (N = 423, 42% response rate; N = 188 freshman students, 44.9% of respondents).

Comparisons between the fall 1997 data (senior high school students) and spring 1998, 1999, and 2000 data should not be made except to look at developmental differences between fall 1997 and spring 1998 for Truman freshman students. Remarkably, the entering fall 1997 freshman students are not significantly different from Spring 1997 freshman students in the comparison groups on many of the scales and indices of the *CSEQ*. Caution should be used in comparing *CSEQ* 3<sup>rd</sup> edition data with *CSEQ* 4<sup>th</sup> edition data. The Activity (Effort) scales were changed substantially between the third and fourth editions (several scales deleted, several added, and questions changed within scales). The Environment and Gains scales remained the same or very similar. Indices such as the Good Practice Index and Lifelong Learning that are comprised of questions from across the entire instrument need to be compared with caution.

Some caution should also be utilized in comparing Truman data on the *CSEQ* 4<sup>th</sup> edition with comparison groups since the sample size for some comparison groups is small, particularly when examining by gender groups. This is the result of the *CSEQ* 4<sup>th</sup> edition only being available since spring 1998 and a limited number of institutions utilizing the instrument each year. Truman students completing the *CSEQ* in 1999 were compared with students from the other institutional groups who also completed the instrument in 1999. Similar comparisons were conducted for 2000 as well. The comparison groups are: Comprehensive Colleges and Universities (CCU), Selective Liberal Arts Colleges (SLA), and General Liberal Arts Colleges (GLA). Institutions are categorized for inclusion in comparison groups using the Carnegie classification system. Truman is included in the CCU category. Truman data was removed from the CCU group before making comparisons with the other groups. Comparisons between Truman and other groups were conducted by first examining statistically significant mean differences (ANOVA and then Scheffe Post-hoc tests between Truman and comparison groups were conducted) and then by calculating the effect size (practical significance) for the mean differences. Moderate (0.5 to 0.8) and large (greater than 0.8) effect size would be of practical significance while small effect size (0.2 to 0.5) would not. Identifying large effect sizes are usually rare in *CSEO* type research.

## Difference between Truman and Comparison Group Freshman

Activity Scales: Truman freshman students were not significantly different from the comparison group freshman students in spring 1998, 1999, and 2000 across all scales with the exception of Writing/ Quantitative Experiences for spring 2000 where a moderately positive effect size was identified for the SLA comparison. Experience in Writing (CCU, SLA, GLA), Experiences with Faculty (SLA, GLA), Clubs and Organizations (SLA), Topics of Conversation (SLA), Information in Conversations (SLA), and Athletic and Recreation Facilities (SLA).

Environment Scales: Truman freshman students were not significantly different from comparison group freshman students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Developing Scholarly and Intellectual Qualities (spring 1999, moderate positive vs. CCU), Emphasis on Critical Analysis (spring 2000, moderate positive versus CCU), Diversity (spring 1999 and 2000, moderate negative versus SLA), Developing Vocational/Occupational Competence (spring 2000, moderate negative versus GLA), and Emphasis on Personal Relevance/Practical Value of Courses (spring 2000, moderate negative versus GLA). Freshman students appear to perceive the Truman environment as emphasizing the development of scholarly/intellectual qualities and critical analysis compared to comprehensive institutions while they perceive less emphasis on diversity issues (versus SLA), the development of occupational competence (versus GLA), and the practical relevance/value of courses (versus GLA). Positive effect sizes were noted between fall 1997 Truman freshman students and 1997 comparison group freshman students on two scales: Developing Scholarly and Intellectual Qualities (large positive versus CCU, moderate positive versus SLA) and Emphasis on Critical Analysis (moderate positive versus CCU). Again, the emphasis on the development of scholarly/ intellectual qualities and critical analysis in the Truman environment is perceived strongly by relatively new freshman students.

Gain Scales: Truman freshman students were not significantly different from comparison group freshman students in Spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1998 and 2000, moderate negative versus GLA), Knowledge About Other Parts of the World/People (spring 1998, moderate negative versus GLA), Awareness of Different Philosophies/Cultures (spring 1998, moderate negative versus SLA), and Developing Good Health Habits (spring 2000, moderate positive versus SLA). Freshman students appear to have made fewer gains in acquiring knowledge and skills applicable to specific jobs or types of work than freshman students at general liberal arts colleges. They also appear in some years to have made fewer gains in terms of their awareness and knowledge of different cultures, philosophies, people, and parts of the world when compared to students at other liberal arts institutions.

*Selected Reading, Writing, and Satisfaction Questions:* Truman freshman students were not significantly different from comparison group freshman students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (moderate negative versus SLA).

*Good Practice and Capacity for Lifelong Learning Indices:* There were no significant differences in spring 1998, 1999, and 2000 on the Good Practice and Capacity for Lifelong Learning Indices.

## Difference between Truman and Comparison Group Freshman by Gender

Activity Scales: Truman freshman female students were not significantly different from the comparison group freshman female students in spring 1998, 1999, and 2000 across all scales with the exception of Library Experiences, Computer/IT Scale, Art/Music/Theater, Campus Facilities, Student Acquaintances, Science/Quantitative Experiences, and Topics of Conversation. Truman spring 2000 freshman women had a moderately positive effect size compared to women at comprehensive universities on the Library Experiences, Computer/IT, and Campus Facilities scales. A moderately positive effect size for Truman freshman female students was also noted in comparisons on the Art/Music/Theater (spring 1998, CCU; spring 2000, GLA) and Science/Quantitative Experiences (spring 2000, SLA) scales. Truman spring 1998 freshman women had a moderately negative effect size compared to freshman women at selective liberal arts institutions on the Student Acquaintances and Topics of Conversation Scales.

Truman freshman male students were not significantly different from the comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the exception of Experiences with Faculty, Art/Music/Theater, Campus Facilities, Clubs and Organizations, and Science/Quantitative Experiences. Moderately positive effect sizes for Truman freshman men were noted in comparisons on the Art/Music/Theater (spring 1999, CCU), Campus Facilities (spring 2000, CCU), Clubs and Organizations (Spring 1999, SLA), and Science/Quantitative Experiences (spring 2000, CCU) scales. Truman spring 1998 freshman male students had moderately negative effect sizes on the Experiences with Faculty scale when compared with freshman male students at selective and general liberal arts institutions.

Environment Scales: Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Developing Scholarly and Intellectual Qualities (spring 1998, 1999, and 2000, moderate positive vs. CCU), Emphasis on Critical Analysis (spring 1999 and 2000, moderate positive versus CCU), Diversity (spring 1999 and 2000, moderate negative versus SLA; spring 1999, moderate negative versus GLA), and Emphasis on Personal Relevance/Practical Value of Courses (spring 1999, moderate negative versus SLA; spring 2000, moderate negative versus GLA). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Emphasis on Developing Vocational/Occupational Competence (spring 2000 versus CCU and GLA) and Personal Relevance/Practical Value of Courses (spring 1998, moderate negative versus CCU and SLA; spring 1999, moderate negative versus SLA; spring 2000 moderate negative versus CCU and GLA).

Gain Scales: Truman freshman female students were not significantly different from comparison group freshman female students in Spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1999 and 2000, moderate negative versus CCU), Specialization. General Education, Knowledge About Other Parts of the World/People, Enjoyment of Art/Music/Theater, Awareness of Different Philosophies/Cultures, Developing Good Health Habits, and Synthesis. Truman spring 1999 and 2000 freshman women had a moderately negative effect size when compared to freshman women at comprehensive institutions on the Vocational Training scale. On the Enjoyment of Art/Music/Theater scale, spring 1998 Truman freshman females had a moderately positive effect size compared to freshman female students at comprehensive institutions. Truman spring 1998 freshman women had a moderately negative effect size when compared to freshman women at selective liberal arts institutions on the Specialization, General Education, Knowledge About Other Parts of the World, Awareness of Different Philosophies/Cultures, and Synthesis scales. Truman spring 2000 female students had a moderately negative effect size compared with female students at selective liberal arts institutions on the Developing Good Health Habits scale. Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 across all scales with the following exceptions: Vocational Training (spring 1998, large negative versus GLA; spring 2000, moderate negative versus CCU), History (spring 1998, moderate negative versus SLA), Understanding Self (spring 1998 and 1999, moderate negative versus SLA), Developing Good Health Habits (spring 1998 moderate negative versus CCU), and Quantitative Thinking (spring 1998, moderate negative versus SLA).

Selected Reading, Writing, and Satisfaction Questions: Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (large negative versus SLA). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 except for the number of textbooks/assigned books read in spring 1998 (moderate negative versus SLA), how well the college is liked in spring 1998 (large negative versus CCU and SLA), and the Satisfaction Index in Spring 1998 (large negative versus CCU and SLA).

Good Practice and Capacity for Lifelong Learning Indices: Truman freshman female students were not significantly different from comparison group freshman female students in spring 1998, 1999, and 2000 except for Faculty-Student Interaction (spring 2000, moderate positive versus CCU) and Peer Cooperation (spring 2000, moderate positive versus CCU). Truman freshman male students were not significantly different from comparison group freshman male students in spring 1998, 1999, and 2000 except for the Capacity for Lifelong Learning Index in spring 1998 (moderate negative versus SLA).

## Truman Freshman Developmental Differences Fall 1997-Spring 1998

*Activity Scales:* Positive differences of practical significance (increased engagement) were observed on five of the 14 *CSEQ* 3<sup>rd</sup> edition Activities scales (Library Experiences, Experience in Writing, Experiences with Faculty, Science/Quantitative Experiences, and Student Union/Center) for Truman freshman students between early Fall 1997 and late Spring 1998.

**Environment Scales:** Freshman students' perception of the Truman environment did not change substantially (level of practical significance) between Fall 1997 and Spring 1998.

*Gain Scales:* Positive differences of practical significance (degree of progress) were also observed on three of the 23 Gain scales (Enjoyment of Art, Music, and Drama; Writing Clearly and Effectively; and Understanding the Nature of Science and Experimentation) for Truman freshman students between early Fall 1997 and late Spring 1998.

Selected Reading, Writing, and Satisfaction Questions: For the Reading and Writing Questions, positive differences of practical significance were observed on all four questions (Number of Textbooks/Assigned Books Read, Number of Non-assigned books read, Number of Exams Written, Number of Term Papers Written) for Truman freshman students between early Fall 1997 and late Spring 1998. For the two Satisfaction questions (How Well College is Liked and Would attend Same Institution Again) and Satisfaction Index, negative differences of practical significance were observed for Truman freshman students between early Fall 1997 and late Spring 1998.

Good Practice and Capacity for Lifelong Learning Indices: Positive differences of practical significance were observed on all three Good Practice Indices (Faculty-Student Interaction, Active Learning, and Peer Cooperation) for Truman freshman students between early Fall 1997 and late Spring 1998. Freshman students did not differ at a level of practical significance on the Lifelong-Learning Index between early Fall 1997 and late Spring 1998.

## Truman Freshman Differences Spring 1999-Spring 2000

No significant mean differences on all scales, indices and selected questions were observed when comparing spring 1999 and spring 2000 freshman students.

## Truman Freshman Differences by Gender for Fall 1997, Spring 1998, Spring 1999, and Spring 2000

Activity Scales: In spring 1998, the means for Truman freshman women differed at a level of practical significance (more engagement) from Truman freshman men on two Activities scales (Art/Music/Theater and Personal Experiences). There were no mean differences of practical significance on any other Activities scales across the four semesters.

**Environment Scales:** There were no mean differences between freshman male and female students of practical significance on any of the Environment scales across the four semesters.

Gain Scales: Truman freshman women differed at a level of practical significance (greater degree of progress) from Truman freshman men on 12 Gain scales (Vocational Training, Spring 1998; Specialization, Spring 1998; General Education, Spring 1998; Career Information, Spring 1998; History, Spring 1998; Writing, Spring 1998; Use of Computers, Spring 1998; Developing Values and Ethics, Spring 1998; Understanding Yourself, Spring 1998, 1999, and 2000; Understanding and Getting Along with Others, Spring 1998; Spring 1999; Quantitative Thinking, Spring 1998; Adapting to Change, Spring 1999). Truman freshman men differed at a level of practical significance (greater degree of progress) from Truman freshman women on only one Gain scale (History, Spring 2000). There appears to be a pattern in which Truman freshman females report making greater gains than their male counterparts in understanding their abilities, interests, and personalities as well as understanding other people and developing the ability to get along with different kinds of people.

Selected Reading, Writing, and Satisfaction Questions: For the Reading and Writing Questions, Truman freshman women differed at a level of practical significance (greater frequency) from Truman freshman men on three of the questions (Number of Textbooks/Assigned Books Read, Spring 1999, 2000; Number of Non-assigned books read, Spring 2000; Number of Term Papers Written; Spring 1999, 2000). Truman freshman males differed at a level of practical significance (greater frequency) from Truman freshman females on one of the questions (Number of Textbooks/Assigned Books Read, Spring 1998). For the Satisfaction Questions and Index, Truman freshman women differed at a level of practical significance (greater satisfaction) from Truman freshman men (How Well College is Liked, Spring 1998; Would attend Same Institution Again, Spring 1998, 2000; and Satisfaction Index, Spring 1998, 2000).

Good Practice and Capacity for Lifelong Learning Indices: Truman freshman women differed at a level of practical significance (greater engagement/capacity) from Truman freshman men on the Active Learning (Spring 1998), Peer Cooperation (Fall 1997, Spring 1998), and Capacity for Lifelong-Learning (Spring 1998) Indices. Truman freshman males differed at a level of practical significance (greater engagement/capacity) from Truman freshman females on the Faculty-Student Interaction Index (Spring 2000).

## Good Practice and Capacity for Lifelong Learning Indices for Freshman by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Third Edition (1997 & 1998) Fourth Edition (1999 & 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Less than Comparison Group **Bold** = Significant Differences, <u>Truman Means</u> differ by 2.0 or more on Faculty Student Interaction, Peer Cooperation, and Lifelong Learning, 4.0 or more on Active Learning per 1997 CSEQ manual

Effect Size = Indicator of "practical significance" of the magnitude of the difference difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

#### **Good Practice Index**

(Three Principles of Good Practice in Undergraduate Education)

1. Faculty-Student Interaction

		Truman	1	Comproho	nsive Colleg	o & Hniv	TDII	-CCU	Selective L	iboral Arte (	Collogos	TDI	-SLA	General Lil	agral Arta C	ollogos	TDII	-GLA
									Selective L									
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	219	21.52	5.26	2462	24.67	6.32	-3.15	-0.50	1744	27.11	6.62	-5.59	-0.85	2482	26.29	6.34	-2.70	-0.43
Male	70	22.07	5.79	833	24.54	6.36	-2.47	-0.39	624	26.75	6.34	-4.68	-0.74	1104	26.16	6.37	-4.09	-0.64
Female	149	21.26	5.00	1627	24.74	6.30	-3.48	-0.55	1120	27.32	6.77	-6.06	-0.89	1374	26.39	6.33	-5.13	-0.81
Diff F-M		-0.81			0.20					0.57					0.23			
Spring 1998	91	25.52	5.32	1206	24.37	6.16	1.14		527	27.38	6.45	-1.86		571	28.00	6.73	-2.48	-0.37
Male	22	24.45	4.31	447	24.72	6.56	-0.27		294	27.28	6.44	-2.82		243	27.80	6.41	-3.34	
Female	69	25.86	5.59	759	24.17	5.91	1.69		231	27.55	6.46	-1.69		327	28.09	6.89	-2.23	
Diff F-M		1.40			-0.55					0.27					0.29			
Spring 1999	483	22.52	4.93	3008	22.02	5.39	0.50		320	22.04	4.75	0.49		250	24.84	6.05	-2.32	-0.38
Male	94	22.80	5.64	1014	22.03	5.45	0.77		121	21.76	4.79	1.04		108	25.36	6.38	-2.56	-0.40
Female	386	22.42	4.74	1972	22.00	5.36	0.42		196	22.21	4.76	0.21		141	24.45	5.79	-2.03	-0.35
Diff F-M		-0.38			-0.03					0.46					-0.91			
Spring 2000	185	22.83	5.18	3291	21.32	5.61	1.51	0.27	28	21.96	4.56	0.87		695	23.09	5.78	-0.26	
Male	48	24.98	5.92	1085	21.43	5.68	3.55	0.62	7	21.14	2.27	3.84		302	23.30	5.75	1.68	
Female	136	22.06	4.70	2167	21.25	5.57	0.81		21	22.24	5.12	-0.18		361	22.95	5.92	-0.89	
Diff F-M		-2.92			-0.18					1.10					-0.35			

2. Active Learning

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	Truman		Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective L	iberal Arts (	Colleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU	-GLA
N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
211	52.55	10.08	2402	56.67	10.73	-4.11	-0.38	1705	59.22	10.55	-6.66	-0.63	2442	57.29	10.64	-4.74	-0.44
64	50.48	10.17	805	54.19	10.70	-3.71	-0.35	604	56.38	10.09	-5.90	-0.58	1082	55.19	10.64	-4.70	-0.44
147	53.46	9.95	1595	57.90	10.52	-4.44	-0.42	1101	60.78	10.48	-7.32	-0.70	1358	58.97	10.34	-5.51	-0.53
	2.97			3.70	'				4.39					3.78			
89	57.12	10.04	1169	55.91	10.63	1.22		508	59.29	10.74	-2.17		556	58.68	11.30	-1.56	
22	53.50	7.79	430	54.17	11.16	-0.67		281	57.96	11.04	-4.46		233	56.80	11.83	-3.30	
67	58.31	10.45	739	56.92	10.18	1.40		225	60.95	10.18	-2.64		322	59.93	10.54	-1.62	
	4.81			2.74					2.99					3.13			
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484	42.10	7.09	2941	40.37	7.49	1.73	0.23	317	41.57	7.23	0.53		243	42.40	8.24	-0.30	
92	40.85	7.51	1001	39.24	7.50	1.61		120	40.08	7.26	0.76		104	42.51	8.24	-1.66	
389	42.40	6.99	1918	40.93	7.41	1.47	0.20	194	42.43	7.11	-0.03		138	42.30	8.30	0.09	
	1.55			1.69					2.34					-0.21			
182	42.59	7.33	3223	40.51	7.92	2.08	0.26	29	40.03	7.66	2.55		679	41.47	7.59	1.12	
48	42.81	8.70	1062	39.57	7.98	3.24		7	38.14	4.56	4.67		298	40.00	7.51	2.82	
133		6.83			7.86	1.55		22	40.64	8.42	1.89			42.59	7.53	-0.07	
				1.41					2.49								
	211 64 147 89 22 67 484 92 389	211 52.55 64 50.48 147 53.46 2.97 89 57.12 22 53.50 67 58.31 4.81 484 42.10 92 40.85 389 42.40 1.55 182 42.59 48 42.81	N Mean SD 211 52.55 10.08 64 50.48 10.17 147 53.46 9.95 2.97  89 57.12 10.04 22 53.50 7.79 67 58.31 10.45 4.81  484 42.10 7.09 92 40.85 7.51 389 42.40 6.99 1.55  182 42.59 7.33 48 42.81 8.70 133 42.53 6.83	N         Mean         SD         N           211         52.55         10.08         2402           64         50.48         10.17         805           147         53.46         9.95         1595           2.97         89         57.12         10.04         1169           22         53.50         7.79         430           67         58.31         10.45         739           484         42.10         7.09         2941           92         40.85         7.51         1001           389         42.40         6.99         1918           1.55           182         42.59         7.33         3223           48         42.81         8.70         1062           133         42.53         6.83         2122	N         Mean         SD         N         Mean           211         52.55         10.08         2402         56.67           64         50.48         10.17         805         54.19           147         53.46         9.95         1595         57.90           2.97         3.70           89         57.12         10.04         1169         55.91           22         53.50         7.79         430         54.17           67         58.31         10.45         739         56.92           4.81         2.74           484         42.10         7.09         2941         40.37           92         40.85         7.51         1001         39.24           389         42.40         6.99         1918         40.93           1.55         1.69           182         42.59         7.33         3223         40.51           48         42.81         8.70         1062         39.57           133         42.53         6.83         2122         40.98	N         Mean         SD         N         Mean         SD           211         52.55         10.08         2402         56.67         10.73           64         50.48         10.17         805         54.19         10.70           147         53.46         9.95         1595         57.90         10.52           2.97         3.70         3.70           89         57.12         10.04         1169         55.91         10.63           22         53.50         7.79         430         54.17         11.16           67         58.31         10.45         739         56.92         10.18           4.81         2.74         2.74           484         42.10         7.09         2941         40.37         7.49           92         40.85         7.51         1001         39.24         7.50           389         42.40         6.99         1918         40.93         7.41           1.55         1.69         169           182         42.59         7.33         3223         40.51         7.92           48         42.81         8.70         1062         39.57	N         Mean         SD         N         Mean         SD         Mean Diff           211         52.55         10.08         2402         56.67         10.73         -4.11           64         50.48         10.17         805         54.19         10.70         -3.71           147         53.46         9.95         1595         57.90         10.52         -4.44           2.97         3.70         3.70         -4.44         10.52         -4.44           2.97         3.70         3.70         -4.44         -4.	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42           2.97         3.70         3.70         -4.44         -0.42           89         57.12         10.04         1169         55.91         10.63         1.22           22         253.50         7.79         430         54.17         11.16         -0.67           67         58.31         10.45         739         56.92         10.18         1.40           484         42.10         7.09         2941         40.37         7.49         1.73         0.23           92         40.85         7.51         1001         39.24         7.50         1.61         389         42.40         6.99         1918         40.93         7.41         1.47         0.20           182         42.59 </td <td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101           89         57.12         10.04         1169         55.91         10.63         1.22         508           22         53.50         7.79         430         54.17         11.16         -0.67         281           67         58.31         10.45         739         56.92         10.18         1.40         225           484         42.10         7.09         2941         40.37         7.49         1.73         0.23         317           92         40.85         7.51         1001         39.24         7.50         1.61         120           389         42.40         6.99         1918         40.93         7.41         1.47</td> <td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78           2.97         3.70         3.70         10.63         1.22         508         59.29           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95           4.81         2.74         2.74         2.74         2.29         2.99           484         42.10         7.09         2941         40.37         7.49         1.73         0.23         317         41.57           92         40.85         7.51</td> <td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         SD           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48           2.97         3.70         3.70         10.63         1.22         508         59.29         10.74           4.39         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18           4.84         42.10         &lt;</td> <td>N         Mean         SD         N         Mean Diff         Effect Size         N         Mean Diff         SD         Mean Diff           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55         -6.66           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09         -5.90           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04         -4.46           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18         -2.64           484         42.10         7.09         2941         40.37         7.</td> <td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         SD         Mean Diff         Effect Size           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55         -6.66         -0.63           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09         -5.90         -0.58           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32         -0.70           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04         -4.46           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18         -2.64</td> <td>N         Mean         SD         N         Mean Diff         Effect Size         N         Mean         SD         Mean Diff         Effect Size         SD         Mean Diff         Effect Size         A           4         50.48         10.17         805         54.17         10.70         -3.71         -0.35         604         56.38         10.09         -5.90         -0.58         1082           2.97         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17         556           22<td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         As         242         57.29         66.66         -0.63         2442         57.29         67.31         -0.35         604         56.38         10.09         -5.90         -0.58         1082         55.19           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32         -0.70         1358         58.97         3.78           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.1</td><td>N         Mean         SD         N         Mean Diff         Effect Size         A           4         9.95         10.04<td>N Mean SD N Mean Diff 211 52.55 10.08 2402 56.67 10.73 -4.11 -0.38 1705 59.22 10.55 -6.66 -0.63 2442 57.29 10.64 -4.74 64 50.48 10.17 805 54.19 10.70 -3.71 -0.35 604 56.38 10.09 -5.90 -0.58 1082 55.19 10.64 -4.74 147 53.46 9.95 1595 57.90 10.52 -4.44 -0.42 1101 60.78 10.48 -7.32 -0.70 1358 58.97 10.34 -5.51 2.97 3.70 10.63 1.22 50.8 59.29 10.74 -2.17 55.6 58.68 11.30 -1.56 22 53.50 7.79 430 54.17 11.16 -0.67 281 57.96 11.04 -4.46 233 56.80 11.83 -3.30 67 58.31 10.45 739 56.92 10.18 1.40 225 60.95 10.18 -2.64 322 59.93 10.54 -1.62 4.81 2.99 3.13 3.13 -4.84 42.10 7.09 2941 40.37 7.49 1.73 0.23 317 41.57 7.23 0.53 243 42.40 8.24 -0.30 92 40.85 7.51 1001 39.24 7.50 1.61 120 40.08 7.26 0.76 10.4 42.51 8.24 -1.66 389 42.40 6.99 1918 40.93 7.41 1.47 0.20 194 42.43 7.11 -0.03 138 42.30 8.30 0.09 1.155 1.55 1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69</td></td></td>	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101           89         57.12         10.04         1169         55.91         10.63         1.22         508           22         53.50         7.79         430         54.17         11.16         -0.67         281           67         58.31         10.45         739         56.92         10.18         1.40         225           484         42.10         7.09         2941         40.37         7.49         1.73         0.23         317           92         40.85         7.51         1001         39.24         7.50         1.61         120           389         42.40         6.99         1918         40.93         7.41         1.47	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78           2.97         3.70         3.70         10.63         1.22         508         59.29           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95           4.81         2.74         2.74         2.74         2.29         2.99           484         42.10         7.09         2941         40.37         7.49         1.73         0.23         317         41.57           92         40.85         7.51	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         SD           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48           2.97         3.70         3.70         10.63         1.22         508         59.29         10.74           4.39         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18           4.84         42.10         <	N         Mean         SD         N         Mean Diff         Effect Size         N         Mean Diff         SD         Mean Diff           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55         -6.66           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09         -5.90           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04         -4.46           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18         -2.64           484         42.10         7.09         2941         40.37         7.	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         SD         Mean Diff         Effect Size           211         52.55         10.08         2402         56.67         10.73         -4.11         -0.38         1705         59.22         10.55         -6.66         -0.63           64         50.48         10.17         805         54.19         10.70         -3.71         -0.35         604         56.38         10.09         -5.90         -0.58           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32         -0.70           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17           22         53.50         7.79         430         54.17         11.16         -0.67         281         57.96         11.04         -4.46           67         58.31         10.45         739         56.92         10.18         1.40         225         60.95         10.18         -2.64	N         Mean         SD         N         Mean Diff         Effect Size         N         Mean         SD         Mean Diff         Effect Size         SD         Mean Diff         Effect Size         A           4         50.48         10.17         805         54.17         10.70         -3.71         -0.35         604         56.38         10.09         -5.90         -0.58         1082           2.97         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.17         556           22 <td>N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         As         242         57.29         66.66         -0.63         2442         57.29         67.31         -0.35         604         56.38         10.09         -5.90         -0.58         1082         55.19           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32         -0.70         1358         58.97         3.78           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.1</td> <td>N         Mean         SD         N         Mean Diff         Effect Size         A           4         9.95         10.04<td>N Mean SD N Mean Diff 211 52.55 10.08 2402 56.67 10.73 -4.11 -0.38 1705 59.22 10.55 -6.66 -0.63 2442 57.29 10.64 -4.74 64 50.48 10.17 805 54.19 10.70 -3.71 -0.35 604 56.38 10.09 -5.90 -0.58 1082 55.19 10.64 -4.74 147 53.46 9.95 1595 57.90 10.52 -4.44 -0.42 1101 60.78 10.48 -7.32 -0.70 1358 58.97 10.34 -5.51 2.97 3.70 10.63 1.22 50.8 59.29 10.74 -2.17 55.6 58.68 11.30 -1.56 22 53.50 7.79 430 54.17 11.16 -0.67 281 57.96 11.04 -4.46 233 56.80 11.83 -3.30 67 58.31 10.45 739 56.92 10.18 1.40 225 60.95 10.18 -2.64 322 59.93 10.54 -1.62 4.81 2.99 3.13 3.13 -4.84 42.10 7.09 2941 40.37 7.49 1.73 0.23 317 41.57 7.23 0.53 243 42.40 8.24 -0.30 92 40.85 7.51 1001 39.24 7.50 1.61 120 40.08 7.26 0.76 10.4 42.51 8.24 -1.66 389 42.40 6.99 1918 40.93 7.41 1.47 0.20 194 42.43 7.11 -0.03 138 42.30 8.30 0.09 1.155 1.55 1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69</td></td>	N         Mean         SD         N         Mean         SD         Mean Diff         Effect Size         N         Mean         As         242         57.29         66.66         -0.63         2442         57.29         67.31         -0.35         604         56.38         10.09         -5.90         -0.58         1082         55.19           147         53.46         9.95         1595         57.90         10.52         -4.44         -0.42         1101         60.78         10.48         -7.32         -0.70         1358         58.97         3.78           89         57.12         10.04         1169         55.91         10.63         1.22         508         59.29         10.74         -2.1	N         Mean         SD         N         Mean Diff         Effect Size         A           4         9.95         10.04 <td>N Mean SD N Mean Diff 211 52.55 10.08 2402 56.67 10.73 -4.11 -0.38 1705 59.22 10.55 -6.66 -0.63 2442 57.29 10.64 -4.74 64 50.48 10.17 805 54.19 10.70 -3.71 -0.35 604 56.38 10.09 -5.90 -0.58 1082 55.19 10.64 -4.74 147 53.46 9.95 1595 57.90 10.52 -4.44 -0.42 1101 60.78 10.48 -7.32 -0.70 1358 58.97 10.34 -5.51 2.97 3.70 10.63 1.22 50.8 59.29 10.74 -2.17 55.6 58.68 11.30 -1.56 22 53.50 7.79 430 54.17 11.16 -0.67 281 57.96 11.04 -4.46 233 56.80 11.83 -3.30 67 58.31 10.45 739 56.92 10.18 1.40 225 60.95 10.18 -2.64 322 59.93 10.54 -1.62 4.81 2.99 3.13 3.13 -4.84 42.10 7.09 2941 40.37 7.49 1.73 0.23 317 41.57 7.23 0.53 243 42.40 8.24 -0.30 92 40.85 7.51 1001 39.24 7.50 1.61 120 40.08 7.26 0.76 10.4 42.51 8.24 -1.66 389 42.40 6.99 1918 40.93 7.41 1.47 0.20 194 42.43 7.11 -0.03 138 42.30 8.30 0.09 1.155 1.55 1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69</td>	N Mean SD N Mean Diff 211 52.55 10.08 2402 56.67 10.73 -4.11 -0.38 1705 59.22 10.55 -6.66 -0.63 2442 57.29 10.64 -4.74 64 50.48 10.17 805 54.19 10.70 -3.71 -0.35 604 56.38 10.09 -5.90 -0.58 1082 55.19 10.64 -4.74 147 53.46 9.95 1595 57.90 10.52 -4.44 -0.42 1101 60.78 10.48 -7.32 -0.70 1358 58.97 10.34 -5.51 2.97 3.70 10.63 1.22 50.8 59.29 10.74 -2.17 55.6 58.68 11.30 -1.56 22 53.50 7.79 430 54.17 11.16 -0.67 281 57.96 11.04 -4.46 233 56.80 11.83 -3.30 67 58.31 10.45 739 56.92 10.18 1.40 225 60.95 10.18 -2.64 322 59.93 10.54 -1.62 4.81 2.99 3.13 3.13 -4.84 42.10 7.09 2941 40.37 7.49 1.73 0.23 317 41.57 7.23 0.53 243 42.40 8.24 -0.30 92 40.85 7.51 1001 39.24 7.50 1.61 120 40.08 7.26 0.76 10.4 42.51 8.24 -1.66 389 42.40 6.99 1918 40.93 7.41 1.47 0.20 194 42.43 7.11 -0.03 138 42.30 8.30 0.09 1.155 1.55 1.69 1.69 1.69 1.69 1.69 1.69 1.69 1.69

			Truman	(	Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective L	iberal Arts C	Colleges	TRU-	-SLA	General Lil	beral Arts C	olleges	TRU	-GLA
	_	N	Mean	SD	N	Mean			Effect Size	N	Mean	SD		Effect Size	N	Mean		Mean Diff	Effect Size
<ol><li>Peer Cooperation/ Cooperation</li></ol>	Fall 1997	216	26.58	6.30	2408	28.28	7.20	-1.70	-0.24	1679	30.44	7.05	-3.86	-0.55	2434	28.59	7.10	-2.01	-0.28
Among Students	Male	70	25.20	6.78	813	26.41	7.09	-1.21	-0.17	600	28.17	6.64	-2.97	-0.45	1077	26.64	6.82	-1.44	
	Female	146	27.24	5.97	1593	29.22	7.06	-1.98	-0.28	1079	31.70	6.95	-4.46	-0.64	1353	30.14	6.91	-2.90	-0.42
	Diff F-M		2.04			2.82					3.53					3.50			
	0 : 4000		00.05		440=		<b>-</b> 40				00.07		4.00		=00	00.00	= 00	4.05	
	Spring 1998	88	29.65	7.11	1187	28.24	7.40	1.41		515	30.67	7.56	-1.02		580	28.60	7.06	1.05	
	Male	21 67	26.19	7.86 6.56	437 750	26.56 29.22	7.55 7.15	-0.37 1.51		288 225	29.18 32.58	7.68 7.01	-2.99 -1.85		248 331	26.32 30.29	6.45 7.03	-0.13 0.44	
	Female Diff F-M	07	30.73 4.54	0.00	750	29.22	7.15	1.51		225	32.58 3.40	7.01	-1.85		331	30.29	7.03	0.44	
	DIII F-IVI		4.34			2.00					3.40					3.90			
	Spring 1999	487	20.65	4.35	3037	19.67	4.55	0.97	0.21	318	19.87	3.78	0.77		249	21.63	4.84	-0.99	-0.20
	Male	95	20.12	4.95	1029	19.26	4.52	0.86		121	19.02	3.52	1.09		107	21.79	4.90	-1.68	
	Female	389	20.78	4.20	1984	19.87	4.54	0.91	0.20	194	20.38	3.88	0.40		141	21.50	4.82	-0.72	
	Diff F-M		0.67			0.61					1.36					-0.29			
	Spring 2000	188	21.01	4.41	3329	19.41	4.58	1.60	0.35	27	19.85	3.20	1.15		696	20.66	4.53	0.35	
	Male	50	21.70	5.42	1097	18.91	4.68	2.79	0.60	6	19.83	3.60	1.87		303	20.44	4.24	1.26	
	Female Diff F-M	137	20.72 -0.98	3.96	2190	19.67 0.76	4.50	1.05		21	19.86 0.02	3.17	0.86		358	20.83 0.40	4.71	-0.12	
	DIII F-IVI		-0.96			0.70					0.02					0.40			
	Г		Truman	(	Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective L	iberal Arts (	Colleges	TRU-	-SLA	General Li	beral Arts C	olleges	TRU	-GLA
		N	Truman Mean	SD	Comprehe N	nsive Colleg Mean		TRU lean Diff	-CCU Effect Size	Selective L N	iberal Arts ( Mean	Colleges SD	TRU- Mean Diff	-SLA Effect Size	General Li	<mark>beral Arts C</mark> Mean		TRU Mean Diff	-GLA Effect Size
Capacity for Lifelong	Fall 1997	218	Mean 25.28	SD 6.15	N 2389	Mean 27.15	SD M 6.01	lean Diff	Effect Size -0.31	N 1743	Mean 28.71	SD 5.68	Mean Diff -3.43	Effect Size -0.60	N 2443	Mean 27.97	SD 5.76	Mean Diff -2.70	Effect Size -0.47
Capacity for Lifelong Learning Index	Male	218 69	Mean 25.28 24.49	SD 6.15 6.48	N 2389 815	Mean 27.15 26.90	SD M 6.01 6.20	1ean Diff -1.87 -2.40	Effect Size -0.31 -0.39	N 1743 620	Mean 28.71 28.18	SD 5.68 5.51	Mean Diff -3.43 -3.68	-0.60 -0.67	N 2443 1084	Mean 27.97 27.38	SD 5.76 6.03	Mean Diff -2.70 -2.88	Effect Size -0.47 -0.48
	Male Female	218	Mean 25.28 24.49 25.64	SD 6.15	N 2389	Mean 27.15 26.90 27.28	SD M 6.01	lean Diff	Effect Size -0.31	N 1743	Mean 28.71 28.18 29.00	SD 5.68	Mean Diff -3.43	Effect Size -0.60	N 2443	Mean 27.97 27.38 28.46	SD 5.76	Mean Diff -2.70	Effect Size -0.47
	Male	218 69	Mean 25.28 24.49	SD 6.15 6.48	N 2389 815	Mean 27.15 26.90	SD M 6.01 6.20	1ean Diff -1.87 -2.40	Effect Size -0.31 -0.39	N 1743 620	Mean 28.71 28.18	SD 5.68 5.51	Mean Diff -3.43 -3.68	-0.60 -0.67	N 2443 1084	Mean 27.97 27.38	SD 5.76 6.03	Mean Diff -2.70 -2.88	Effect Size -0.47 -0.48
	Male Female Diff F-M	218 69 149	Mean 25.28 24.49 25.64 1.14	SD 6.15 6.48 5.98	N 2389 815 1574	Mean 27.15 26.90 27.28 0.38	SD M 6.01 6.20 5.91	1.87 -2.40 -1.64	Effect Size -0.31 -0.39	N 1743 620 1123	Mean 28.71 28.18 29.00 0.83	SD 5.68 5.51 5.76	Mean Diff -3.43 -3.68 -3.37	-0.60 -0.67	N 2443 1084 1356	Mean 27.97 27.38 28.46 1.08	SD 5.76 6.03 5.48	Mean Diff -2.70 -2.88 -2.82	Effect Size -0.47 -0.48
	Male Female	218 69 149	Mean 25.28 24.49 25.64	SD 6.15 6.48 5.98	N 2389 815 1574	Mean 27.15 26.90 27.28	SD M 6.01 6.20	1.87 -2.40 -1.64	Effect Size -0.31 -0.39	N 1743 620 1123	Mean 28.71 28.18 29.00 0.83	SD 5.68 5.51 5.76	Mean Diff -3.43 -3.68	-0.60 -0.67	N 2443 1084 1356	Mean 27.97 27.38 28.46 1.08	SD 5.76 6.03	Mean Diff -2.70 -2.88 -2.82	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998	218 69 149	Mean 25.28 24.49 25.64 1.14 27.09	SD 6.15 6.48 5.98	N 2389 815 1574	Mean 27.15 26.90 27.28 0.38	SD M 6.01 6.20 5.91	1.87 -2.40 -1.64	Effect Size -0.31 -0.39	N 1743 620 1123	Mean 28.71 28.18 29.00 0.83	SD 5.68 5.51 5.76	Mean Diff -3.43 -3.68 -3.37	-0.60 -0.67 -0.58	N 2443 1084 1356	Mean 27.97 27.38 28.46 1.08	SD 5.76 6.03 5.48	Mean Diff -2.70 -2.88 -2.82	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male	218 69 149 91 22	Mean 25.28 24.49 25.64 1.14 27.09 24.77	SD 6.15 6.48 5.98 5.13 5.67	N 2389 815 1574 1187 437	Mean 27.15 26.90 27.28 0.38 27.27 27.04	SD M 6.01 6.20 5.91 5.96 6.22	-1.87 -2.40 -1.64 -0.18 -2.26	Effect Size -0.31 -0.39	N 1743 620 1123 520 290	Mean 28.71 28.18 29.00 0.83 28.90 28.83	SD 5.68 5.51 5.76 6.18 6.14	Mean Diff -3.43 -3.68 -3.37 -1.81 -4.05	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245	Mean 27.97 27.38 28.46 1.08 28.05 27.85	SD 5.76 6.03 5.48 6.05 6.18	Mean Diff -2.70 -2.88 -2.82 -0.96 -3.08	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M	218 69 149 91 22 69	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750	Mean 27.15 26.90 27.28 0.38  27.27 27.04 27.41 0.37	SD M 6.01 6.20 5.91 5.96 6.22 5.81	-0.18 -2.26 -0.42	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15	SD 5.68 5.51 5.76 6.18 6.14 6.21	Mean Diff -3.43 -3.68 -3.37 -1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40	5D 5.76 6.03 5.48 6.05 6.18 5.89	-2.70 -2.88 -2.82 -0.96 -3.08 -0.42	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999	218 69 149 91 22 69	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37	SD M 6.01 6.20 5.91 5.96 6.22 5.81	-1.87 -2.40 -1.64 -0.18 -2.26 0.42	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29	SD 5.68 5.51 5.76 6.18 6.14 6.21	-3.43 -3.68 -3.37 -1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31	5D 5.76 6.03 5.48 6.05 6.18 5.89	-2.70 -2.88 -2.82 -0.96 -3.08 -0.42	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	218 69 149 91 22 69 479 92	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750 2996 1020	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20	SD M 6.01 6.20 5.91 5.96 6.22 5.81 6.52 6.42	-1.87 -2.40 -1.64 -0.18 -2.26 0.42 -0.03 -0.74	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82	5.68 5.51 5.76 6.18 6.14 6.21 6.12 6.15	-1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329 244 104	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07	5.76 6.03 5.48 6.05 6.18 5.89 6.36 6.41	-0.96 -0.42 -0.89 -0.89 -1.61	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female	218 69 149 91 22 69	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05 32.43 31.46 32.64	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20 32.57	SD M 6.01 6.20 5.91 5.96 6.22 5.81	-1.87 -2.40 -1.64 -0.18 -2.26 0.42	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82 32.93	SD 5.68 5.51 5.76 6.18 6.14 6.21	-3.43 -3.68 -3.37 -1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07 33.42	5D 5.76 6.03 5.48 6.05 6.18 5.89	-2.70 -2.88 -2.82 -0.96 -3.08 -0.42	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	218 69 149 91 22 69 479 92	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750 2996 1020	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20	SD M 6.01 6.20 5.91 5.96 6.22 5.81 6.52 6.42	-1.87 -2.40 -1.64 -0.18 -2.26 0.42 -0.03 -0.74	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82	5.68 5.51 5.76 6.18 6.14 6.21 6.12 6.15	-1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329 244 104	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07	5.76 6.03 5.48 6.05 6.18 5.89 6.36 6.41	-0.96 -0.42 -0.89 -0.89 -1.61	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female	218 69 149 91 22 69 479 92	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05 32.43 31.46 32.64	SD 6.15 6.48 5.98 5.13 5.67 4.75	N 2389 815 1574 1187 437 750 2996 1020	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20 32.57	SD M 6.01 6.20 5.91 5.96 6.22 5.81 6.52 6.42	-1.87 -2.40 -1.64 -0.18 -2.26 0.42 -0.03 -0.74	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82 32.93	5.68 5.51 5.76 6.18 6.14 6.21 6.12 6.15	-1.81 -4.05 -1.15	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329 244 104	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07 33.42	5.76 6.03 5.48 6.05 6.18 5.89 6.36 6.41	-0.96 -0.42 -0.89 -0.89 -1.61	Effect Size -0.47 -0.48
	Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M	218 69 149 91 22 69 479 92 384	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05 32.43 31.46 32.64 1.18	5D 6.15 6.48 5.98 5.13 5.67 4.75 6.52 6.32 6.56	N 2389 815 1574 1187 437 750 2996 1020 1952	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20 32.57 0.37	SD M 6.01 6.20 5.91 5.96 6.22 5.81 6.52 6.42 6.57	-1.87 -2.40 -1.64 -0.18 -2.26 0.42 -0.03 -0.74 0.07	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228 320 124 193	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82 32.93 -0.89	SD 5.68 5.51 5.76 6.18 6.14 6.21 6.12 6.15 6.14	-1.81 -4.05 -1.15 -0.86 -2.37 -0.29	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329 244 104 139	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07 33.42 0.35	SD 5.76 6.03 5.48 6.05 6.18 5.89 6.36 6.41 6.30	-0.96 -3.08 -0.42 -0.89 -1.61 -0.78	Effect Size -0.47 -0.48
	Male Female Diff F-M  Spring 1998 Male Female Diff F-M  Spring 1999 Male Female Diff F-M  Spring 2000	218 69 149 91 22 69 479 92 384	Mean 25.28 24.49 25.64 1.14 27.09 24.77 27.83 3.05 32.43 31.46 32.64 1.18 32.49	SD 6.15 6.48 5.98 5.13 5.67 4.75 6.52 6.32 6.56	N 2389 815 1574 1187 437 750 2996 1020 1952	Mean 27.15 26.90 27.28 0.38 27.27 27.04 27.41 0.37 32.46 32.20 32.57 0.37 31.84	SD M 6.01 6.20 5.91 5.96 6.22 5.81 6.52 6.42 6.57	-1.87 -2.40 -1.64 -0.18 -2.26 0.42 -0.03 -0.74 0.07	Effect Size -0.31 -0.39	N 1743 620 1123 520 290 228 320 124 193	Mean 28.71 28.18 29.00 0.83 28.90 28.83 28.98 0.15 33.29 33.82 32.93 -0.89 31.00	SD 5.68 5.51 5.76 6.18 6.14 6.21 6.12 6.15 6.14	-1.81 -4.05 -1.15 -0.86 -2.37 -1.89	-0.60 -0.67 -0.58	N 2443 1084 1356 575 245 329 244 104 139	Mean 27.97 27.38 28.46 1.08 28.05 27.85 28.25 0.40 33.31 33.07 33.42 0.35 33.38	SD 5.76 6.03 5.48 6.05 6.18 5.89 6.36 6.41 6.30	-0.96 -0.89 -0.89 -0.89 -0.89	Effect Size -0.47 -0.48

## Good Practice and Capacity for Lifelong Learning Indices for Freshman by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

Third Edition (1997 & 1998) Fourth Edition (1999 & 2000)

Diff 2000-99

0.06

Bold = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Greater than Comparison Group Bold Italic = Significant Differences (Scheffe Post Hoc at .05 level); Truman Mean Less than Comparison Group Bold = Significant Differences, <u>Truman Means</u> differ by 2.0 or more on Faculty Student Interaction, Peer Cooperation, and Lifelong Learning, 4.0 or more on Active Learning per 1997 CSEQ manual

-0.61

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

0.07

	Cooperation, a	and Lifelor	ng Learnir	ng, 4.0 or	more on	Active Learr	ing per 199	97 CSEQ ma	ınual				,	old [Truman				J 2/	
Good Practice Index											L	.arge = Gre	eater than 0.8	(bold [Trum	an positive]	or <b>bold itali</b>	c [Truman	negative])	
(Three Principles of Good Practice in	The state of the s		Truman		Comprehe	ensive Colle	ge & Univ	TRU	-CCU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Li	beral Arts C	olleges	TRU-	GLA
Undergraduate Education)	•	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Faculty-Student Interaction	Fall 1997	219	21.52	5.26	2462	24.67	6.32	-3.15	-0.50	1744	27.11	6.62	-5.59	-0.85	2482	26.29	6.34	-2.70	-0.43
	Spring 1998	91	25.52	5.32	1206	24.37	6.16	1.14		527	27.38	6.45	-1.86		571	28.00	6.73	-2.48	-0.37
	Diff 98-97		4.00			-0.30					0.27					1.71			
	Spring 1999	483	22.52	4.93	3008	22.02	5.39	0.50		320	22.04	4.75	0.49		250	24.84	6.05	-2.32	-0.38
	Spring 2000	185	22.83	5.18	3291	21.32	5.61	1.51	0.27	28	21.96	4.56	0.87		695	23.09	5.78	-0.26	
	Diff 2000-99		0.31			-0.70					-0.07					-1.75			
		,	Truman			ensive Colle			-CCU		iberal Arts		TRU-			beral Arts C		TRU-	
		N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size
Active Learning	Fall 1997	211	52.55	10.08	2402	56.67	10.73	-4.11	-0.38	1705	59.22	10.55	-6.66	-0.63	2442	57.29	10.64	-4.74	-0.44
	Spring 1998	89	57.12	10.04	1169	55.91	10.63	1.22		508	59.29	10.74	-2.17		556	58.68	11.30	-1.56	
	Diff 98-97		4.57			-0.76					0.07					1.39			
	Spring 1999	484	42.10	7.09	2941	40.37	7.49	1.73	0.23	317	41.57	7.23	0.53		243	42.40	8.24	-0.30	
	Spring 2000	182	42.59	7.33	3223	40.51	7.92	2.08	0.26	29	40.03	7.66	2.55		679	41.47	7.59	1.12	
	Diff 2000-99		0.49			0.14					-1.54					-0.93			
			Truman		Comprehe	ensive Colle	ge & Univ	TRU	-CCU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Li	beral Arts C	olleges	TRU-	GLA
	•	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
3. Peer Cooperation/ Cooperation	Fall 1997	216	26.58	6.30	2408	28.28	7.20	-1.70	-0.24	1679	30.44	7.05	-3.86	-0.55	2434	28.59	7.10	-2.01	-0.28
Among Students	Spring 1998	88	29.65	7.11	1187	28.24	7.40	1.41		515	30.67	7.56	-1.02		580	28.60	7.06	1.05	
	Diff 98-97		3.07			-0.04					0.23					0.01			
	Spring 1999	487	20.65	4.35	3037	19.67	4.55	0.97	0.21	318	19.87	3.78	0.77		249	21.63	4.84	-0.99	-0.20
	Spring 2000	188	21.01	4.41	3329	19.41	4.58	1.60	0.35	27	19.85	3.20	1.15		696	20.66	4.53	0.35	
	Diff 2000-99		0.36			-0.27					-0.02					-0.98			
			Truman		Comprehe	ensive Colle	ge & Univ	TRU	-CCU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Li	beral Arts C	olleges	TRU-	GLA
	-	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size
Capacity for Lifelong-learning	Fall 1997	218	25.28	6.15	2389	27.15	6.01	-1.87	-0.31	1743	28.71	5.68	-3.43	-0.60	2443	27.97	5.76	-2.70	-0.47
Index	Spring 1998	91	27.09	5.13	1187	27.27	5.96	-0.18		520	28.90	6.18	-1.81		575	28.05	6.05	-0.96	
	Diff 98-97		1.81			0.12					0.19					0.08			
	Spring 1999	479	32.43	6.52	2996	32.46	6.52	-0.03		320	33.29	6.12	-0.86		244	33.31	6.36	-0.89	
	Spring 2000	183	32.49	6.24	3237	31.84	6.70	0.64		29	31.00	6.93	1.49		685	33.38	6.76	-0.89	

-2.29

## Freshman Activity Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

#### Scale: Very Often = 4, Often = 3, Ocassionally = 2, Never = 1

Third Edition (1997 & 1998), 10 Questions per Scale (Sum of Response Values X 10)

Fourth Edition (1999, 2000), Varying Number of Questions per Scale (Sum of Response Values/Number of Questions)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group Bold Italic = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (1997 & 1998 <u>Truman Means</u> differ by 2.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (bold [Truman positive] or bold italic [Truman negative])
Large = Greater than 0.8 (bold [Truman positive] or bold italic [Truman negative])

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Library Experiences			Truman			ensive Colle			-CCU		iberal Arts		TRU	-		oeral Arts Co		TRU-	
	E !! 400=	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	17.17	4.27	2555	18.08	5.00	-0.91		1809	19.61	4.78	-2.44	-0.51	2564	19.21	4.80	-2.04	-0.43
	Male	71	16.68	4.11	875	18.10	5.32	-1.42		647	19.03	4.75 4.77	-2.35	-0.49	1146	18.98	4.95	-2.30	-0.46
	Female	154	17.40	4.33	1677	18.08	4.81	-0.68		1162	19.93	4.77	-2.53	-0.53	1413	19.39	4.66	-1.99	-0.43
	Diff F-M		0.72			-0.02					0.90					0.41			
	Spring 1998	92	19.38	4.84	1240	17.71	4.72		0.35	544	20.25	5.02	-0.87		596	19.71	5.04	-0.33	
	Male	22	18.32	3.76	456	17.95	5.05			302	19.70	5.13	-1.38		255	20.00	5.63	-1.68	
	Female	70	19.71	5.11	784	17.57	4.51	2.14	0.47	240	20.95	4.81	-1.24		340	19.45	4.47	0.26	
	Diff F-M		1.39			-0.38					1.25					-0.55			
	Spring 1999	491	2.76	0.98	3035	2.44	1.08	0.32	0.30	319	2.70	1.04	0.06		254	2.71	1.12	0.05	
	Male	98	2.71	1.05	1039	2.42	1.09	0.29		121	2.50	0.99	0.22		111	2.88	1.14	-0.17	
	Female	390	2.77	0.96	1973	2.44	1.08	0.33	0.31	195	2.83	1.06	-0.06		142	2.58	1.09	0.19	
	Diff F-M		0.06			0.02					0.33					-0.30			
	Spring 2000	186	2.81	1.01	3344	2.33	1.12	0.48	0.43	28	2.32	0.98	0.49		696	2.48	1.10	0.33	0.30
	Male	50	2.58	1.05	1113	2.32	1.17	0.26		6	2.00	0.89	0.58		304	2.36	1.12	0.22	
	Female	135	2.91	0.97	2190	2.34	1.08	0.57	0.53	22	2.41	1.01	0.50		360	2.55	1.08	0.36	0.34
	Diff F-M		0.33			0.01					0.41					0.19			
Computer and IT Scale			Truman			ensive Colle			-CCU	Selective I			TRU			oeral Arts Co		TRU-	
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1999	491	3.24	0.91	3063	3.13	1.03	0.10		323	3.22	0.86	0.02		250	3.38	1.03	-0.14	
	Male	97	3.32	1.09	1049	3.19	1.09	0.13		124	3.19	0.86	0.13		108	3.55	1.07	-0.23	
	Female	391	3.21	0.86	1991	3.10	1.00	0.11		196	3.24	0.86	-0.03		141	3.26	0.99	-0.05	
	Diff F-M		-0.11			-0.09					0.05					-0.29			
	Spring 2000	186	3.47	1.01	3339	3.18	1.11	0.29	0.27	29	3.14	1.06	0.34		700	3.33	1.10	0.14	
	Male	49	3.90	1.10	1117	3.30	1.19	0.60	0.51	8	2.75	0.71	1.15		304	3.47	1.07	0.43	
	Female	136	3.32	0.93	2179	3.11	1.05	0.20		21	3.29	1.15	0.03		364	3.22	1.12	0.10	
	Diff F-M		-0.58			-0.18					0.54					-0.25			

Course Learning			Truman		Comprehe	nsive Colleg	e & Univ	TRU-C	:CU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Lil	beral Arts Co	olleges	TRU-0	ALA
(Different Scale Used, high	to low)	N	Mean	SD	N	Mean	SD		ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
•	Fall 1997	225	25.80	5.13	2555	26.76	5.72	-0.96		1805	27.67	5.57	-1.87	-0.34	2558	26.61	5.52	-0.81	
	Male	71	24.59	5.36	876	25.5	5.44	-0.91		645	26.26	5.54	-1.67		1142	25.43	5.4	-0.84	
	Female	154	26.36	4.95	1676	27.43	5.72	-1.07		1160	28.45	5.43	-2.09	-0.38	1411	27.58	5.41	-1.22	
	Diff F-M		1.77			1.93					2.19					2.15			
	Spring 1998	92	26.47	4.97	1241	26.60	5.56	-0.13		541	28.52	5.45	-2.05	-0.38	596	26.81	5.66	-0.34	
	Male	22	25.36	4.67	455	25.47	5.92	-0.13		300	27.83	5.60	-2.47	-0.44	255	25.67	5.49	-0.34	
	Female	70	26.81	5.05	786	27.26	5.23	-0.45		239	29.40	5.15	-2.59	0	340	27.62	5.61	-0.81	
	Diff F-M		1.45			1.79					1.57					1.95			
	Spring 1999	485	4.08	0.92	3018	3.84	0.99	0.24	0.24	319	4.08	0.92	0.00		248	4.15	1.10	-0.07	
	Male	92	3.86	0.93	1032	3.69	0.98	0.17		122.00	3.89	0.95	-0.03		107	4.02	1.09	-0.16	
	Female	390	4.14	0.90	1963	3.91	0.98	0.22	0.23	194.00	4.20	0.89	-0.06		140	4.24	1.10	-0.11	
	Diff F-M		0.28			0.22					0.31					0.22			
	Spring 2000	183	4.19	0.95	3282	3.81	1.01	0.37	0.37	28	4.04	0.92	0.15		688	4.00	0.95	0.18	
	Male	48	4.19	1.08	1087	3.69	1.01	0.41	0.37	7	4.04	0.92	0.15		302	3.82	0.95	0.18	
	Female	134	4.21	0.91	2156	3.87	1.01	0.34	0.34	21	4.05	1.07	0.16		352	4.17	0.98	0.04	
	Diff F-M		0.10			0.18					0.05					0.35			
Experience in Writing			Truman		Comprehe	nsive Colleg	e & Univ	TRU-C	CU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Lil	beral Arts Co	olleges	TRU-0	GLA
	_	N	Mean	SD	N	Mean	SD	Mean Diff E	ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	224	22.28	5.93	2538	25.43	6.27	-3.15	-0.50	1796	26.62	6.10	-4.34	-0.71	2546	25.63	6.05	-3.35	-0.55
	Male	71	21.41	5.65	865	23.83	6.13	-2.42	-0.39	643	25.25	6.12	-3.84	-0.63	1138	24.63	6.30	-3.22	-0.51
	Female	153	22.69	6.03	1670	26.25	6.18	-3.56	-0.58	1153	27.39	5.96	-4.70	-0.79	1403	26.45	5.70	-3.76	-0.66
	Diff F-M		1.28			2.42					2.14					1.82			
	Spring 1998	92	24.98	5.85	1237	24.89	6.08	0.09		537	25.12	5.73	-0.14		592	26.90	6.17	-1.92	-0.31
	Male	22	24.32	4.50	453	23.72	6.32	0.60		298	24.82	5.92	-0.50		254	25.50	5.95	-1.18	
	Female	70	25.19	6.22	784	25.56	5.83	-0.37		237	25.50	5.48	-0.31		337	27.91	6.11	-2.72	-0.45
	Diff F-M		0.87			1.84					0.68					2.41			
	0	400	0.77	0.00	0070	0.07	4.05	0.44		000	0.00	0.00	0.0545		055	0.70	4.00	0.04	
	Spring 1999 Male	488 97	3.77 3.57	0.98 0.93	3076 1052	3.67 3.39	1.05 1.05	0.11 0.18		322 123	3.83 3.61	0.96 0.90	-0.0515 -0.04		255 110	3.79 3.66	1.08 1.11	-0.01 -0.10	
	Female	388	3.83	0.93	2000	3.81	1.03	0.16		196	3.96	0.98	-0.04		144	3.88	1.06	-0.10	
	Diff F-M	300	0.26	0.30	2000	0.42	1.02	0.02		130	0.35	0.30	-0.13		144	0.22	1.00	-0.03	
	Spring 2000	188	3.68	1.03	3352	3.76	1.07	-0.08		30	3.67	0.76	0.0142		702	3.85	1.01	-0.17	
	Male	50	3.64	1.16	1111	3.52	1.07	0.12		8	3.50	0.93	0.14		305	3.61	1.02	0.03	
	Female	137	3.69	0.98	2200	3.89	1.05	-0.21		22	3.73	0.70	-0.04		362	4.03	0.96	-0.34	-0.36
Francisco with Fourth	Diff F-M		0.05		Camanaha	0.37	a 0 1 hairr	TRU-C	CLI	Calaativa I	0.23	Callagae	TDU	CL A	General Lil	0.42	allanaa	TRU-0	21.4
Experiences with Faculty	L	N	Truman Mean	SD	N	nsive Colleg Mean	e & Univ SD		ffect Size	N	iberal Arts Mean	SD	TRU- Mean Diff	Effect Size	N	beral Arts Co Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	17.09	4.06	2558	19.15	5.13	-2.06	-0.40	1808	21.05	5.13	-3.96	-0.77	2564	20.48	5.14	-3.39	-0.66
	Male	71	17.34	4.34	877	19.09	5.22	-1.75	0.10	647	20.8	4.98	-3.46	-0.69	1146	20.32	5.21	-2.98	-0.57
	Female	154	16.98	3.93	16.78	19.19	5.07	-2.21	-0.44	11.61	21.19	5.21	-4.21	-0.81	1413	20.61	5.08	-3.63	-0.71
	Diff F-M		-0.36			0.10					0.39	_				0.29			
												_					_		
	Spring 1998	92	19.65	4.05	1242	18.87	4.86	0.78		543	21.55	5.00	-1.90	-0.38	596	21.51	5.34	-1.86	-0.35
	Male	22	18.59	3.07	456	19.13	5.13	-0.54		302	21.37	4.99	-2.78	-0.56	255	21.38	5.09	-2.79	-0.55
	Female Diff F-M	70	19.99 1.40	4.28	786	18.72 -0.41	4.69	1.27		239	21.79 0.42	5.02	-1.80		340	21.55 0.17	5.45	-1.56	
	DIII I -IVI		1.40			-0.41					0.42					0.17			
	Spring 1999	488	2.57	1.12	3035	2.48	1.21	0.09		321	2.45	1.11	0.12		254	3.02	1.24	-0.45	-0.36
	Male	96	2.68	1.21	1030	2.52	1.20	0.15		122	2.47	1.14	0.21		109	3.08	1.23	-0.41	
	Female	389	2.53	1.09	1983	2.46	1.22	0.08		196	2.44	1.10	0.09		144	2.97	1.26	-0.44	-0.35
	Diff F-M		-0.15			-0.07					-0.02					-0.11			
	0			4	0015					~~	0.00		2.25		=	6 = 6			2.42
	Spring 2000	184	2.64	1.18	3315	2.39	1.20	0.25	0.45	29	2.69	1.17	-0.05		701	2.76	1.23	-0.13	-0.10
	Male Female	47 136	2.98 2.51	1.31 1.12	1097 2177	2.44 2.36	1.19 1.20	<b>0.54</b> 0.15	0.45	8 21	2.63 2.71	0.74 1.31	0.35 -0.20		302 364	2.73 2.80	1.23 1.24	0.25 -0.29	
	Diff F-M	130	-0.46	1.12	2111	-0.07	1.20	0.13		۷۱	0.09	1.51	-0.20		304	0.08	1.24	-0.29	
	DIII 1 -1VI		5.70			5.01					0.00					5.00			

Art, Music, & Theater			Truman		Compreh	ensive Collec	ge & Univ	TRU	-CCU	Selective I	Liberal Arts	Colleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU-	GLA
		N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	18.75	5.02	2531	18.56	6.74	0.19		1797	21.66	6.80	-2.91	-0.43	2545	19.32	6.69	-0.57	
	Male	71	17.89	4.62	870	18.46	7.09	-0.57		642	20.52	7.20	-2.63	-0.37	1134	18.17	6.55	-0.28	
	Female	154	19.15	5.15	1658	18.62	6.56	0.53		1155	22.29	6.48	-3.14	-0.48	1406	20.25	6.67	-1.10	
	Diff F-M		1.26			0.16					1.77					2.08			
	Carina 1000	00	04.40	F 00	4007	40.00	0.04	2.02	0.47	541	22.72	C 07	4.00		40.54	6.70	F 04	44.42	
	Spring 1998 Male	92 22	21.13 19.45	5.02 5.58	1237 454	18.30 18.38	6.01 6.56	<b>2.83</b> 1.07	0.47	300	22.73 21.32	6.87 6.93	-1.60 -1.87		19.51 253	6.70 18.67	5.94 7.16	14.43 0.78	
	Female	70	21.66	4.75	783	18.26	5.67	3.40	0.60	239	24.50	6.40	-1.87 -2.84	-0.44	340	20.07	6.15	1.59	
	Diff F-M	70	2.21	4.75	700	-0.12	5.07	3.40	0.00	255	3.18	0.40	-2.04	-0.44	340	1.40	0.15	1.55	
		•				****													
	Spring 1999	492	2.66	1.20	3025	2.20	1.21	0.45	0.37	320	2.49	1.34	0.17		251	2.46	1.32	0.20	
	Male	96	2.66	1.32	1030	2.04	1.18	0.62	0.52	122	2.07	1.33	0.58		109	2.38	1.35	0.28	
	Female	393	2.66	1.17	1974	2.29	1.22	0.37	0.30	195	2.76	1.28	-0.10		141	2.53	1.30	0.13	
	Diff F-M		0.00			0.25					0.69					0.16			
	Spring 2000	186	2.73	1.26	3319	2.34	1.30	0.38	0.29	29	2.41	1.27	0.31		697	2.25	1.29	0.47	0.37
	Male	48	2.63	1.45	1091	2.18	1.27	0.44	0.20	8	2.38	1.06	0.25		302	1.97	1.21	0.65	0.54
	Female	137	2.77	1.20	2186	2.43	1.31	0.34	0.26	21	2.43	1.36	0.34		361	2.47	1.33	0.29	5.5.1
	Diff F-M		0.14			0.24					0.05					0.50			
Campus Facilities			Truman			ensive Collec			-CCU		Liberal Arts		TRU			beral Arts C		TRU-	
Scale		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998																		
	Spring 1999	491	3.10	1.07	3030	2.64	1.17	0.46	0.39	319	3.04	1.14	0.06		248	3.06	1.24	0.04	
	Male	99	3.10	1.15	1028	2.73	1.17	0.37	0.32	122	2.99	1.02	0.11		109	3.44	1.07	-0.34	
	Female	389	3.10	1.06	1978	2.59	1.17	0.51	0.44	194	3.06	1.21	0.04		138	2.76	1.29	0.34	0.26
	Diff F-M		0.00			-0.14					0.06					-0.68			
	0 : 0000												0.50		=0.4				
	Spring 2000	185 50	3.26 3.48	1.05 1.20	3338 1109	2.59 2.67	1.22 1.23	0.67 0.81	0.55 0.65	29 8	2.76 3.13	1.02	0.50 0.36		701 306	2.78 2.95	1.27 1.23	0.48 0.53	0.38 0.43
	Male Female	134	3.48	0.99	2186	2.56	1.23	0.61	0.65	21	2.62	1.36 0.86	0.55		360	2.95	1.23	0.53	0.43
	Diff F-M	104	-0.31	0.55	2100	-0.12	1.21	0.01	0.51	21	-0.51	0.00	0.55		300	-0.39	1.20	0.01	0.40
Clubs & Organizations			Truman		Compreh		ge & Univ	TRU	-CCU	Selective I	Liberal Arts	Colleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU-	GLA
· ·		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	18.50	5.09	2548	16.99	6.72	1.51	0.22	1804	20.65	6.76	-2.15	-0.32	2553	17.85	6.27	0.65	
	Male	71	17.69	5.84	874	16.35	6.61	1.34		645	18.97	6.43	-1.28		1138	16.79	5.92	0.90	
	Female	154	18.88	4.67	1671	17.34	6.74	1.54		1159	21.59	6.76	-2.71	-0.40	1410	18.71	6.39	0.17	
	Diff F-M		1.19			0.99					2.62					1.92			
	Spring 1998	92	20.21	6.17	1239	17.53	6.91	2.68	0.39	540	21.34	6.72	-1.13		595	17.81	6.06	2.40	0.40
	Male	22	18.55	6.24	453	17.54	7.32	1.01	0.00	300	20.48	6.64	-1.93		254	16.88	5.87	1.67	0.10
	Female	70	20.73	6.11	786	17.52	6.66	3.21	0.48	238	22.45	6.68	-1.72		340	18.53	6.11	2.20	
	Diff F-M		2.18			-0.02					1.97					1.65			
	0 : 4000																		
	Spring 1999	491	1.68	0.86	3061	1.47	0.78	0.21	0.26	320	1.31	0.61	0.37	0.61	253	1.80	0.98	-0.12	
	Male Female	95 393	1.77 1.66	1.00 0.83	1043 1994	1.46	0.77 0.79	0.31 0.18	0.40 0.23	123 194	1.21	0.50	0.56 0.29	<b>1.11</b> 0.44	110 142	1.84 1.77	0.99 0.97	-0.07 -0.11	
	Diff F-M	393	-0.11	0.63	1994	1.47 0.01	0.79	0.10	0.23	194	1.37 0.15	0.67	0.29	0.44	142	-0.07	0.97	-0.11	
	DIII 17-1VI		-0.11			0.01					0.13					-0.07			
	Spring 2000	188	1.73	0.84	3356	1.39	0.75	0.34	0.45	29	1.45	0.69	0.28		701	1.53	0.79	0.20	0.25
	Male	50	1.82	0.94	1114	1.41	0.76	0.41		7	1.71	0.76	0.11		304	1.53	0.77	0.29	
	Female	137	1.69	0.81	2199	1.38	0.74	0.31	0.42	22	1.36	0.66	0.33		362	1.55	0.81	0.15	
	Diff F-M		-0.13			-0.03					-0.35					0.02			

Personal Experiences	Ī		Truman		Comprehe	ensive Colleg	e & Univ	TRU-C	;CU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Lil	peral Arts C	olleges	TRU-	GLA
•	•	N	Mean	SD	N	Mean	SD N	Mean Diff E		N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	20.58	5.43	2534	22.17	6.31	-1.59	-0.25	1797	23.37	6.04	-2.79	-0.46	2550	22.18	6.24	-1.60	-0.26
	Male	71	19.35	5.63	864	20.35	6.04	-1.00	0.04	642	21.55	5.82	-2.20	-0.38	1137	20.55	6.04	-1.20	0.00
	Female Diff F-M	154	21.14 1.79	5.26	1668	23.10	6.24	-1.96	-0.31	1155	24.39	5.92	-3.25	-0.55	1408	23.49 2.94	6.07	-2.35	-0.39
	DIπ F-IVI		1.79			2.75					2.84					2.94			
	Spring 1998	92	22.05	5.89	1235	22.46	6.37	-0.41		536	22.77	6.38	-0.72		594	23.04	6.64	-0.99	
	Male	22	18.77	5.9	453	20.66	6.12	-1.89		298.00	21.58	6.55	-2.81		254	20.80	6.11	-2.03	
	Female	70	23.09	5.53	782	23.51	6.28	-0.42		236.00	24.25	5.86	-1.16		339	24.66	6.49	-1.57	
	Diff F-M		4.32			2.85					2.67					3.86			
		_																	
	Spring 1999	489	3.48	1.26	3048	3.35	1.30	0.13		321	3.31	1.27	0.18		253	3.54	1.30	-0.05	
	Male	97	2.91	1.27	1034	2.85	1.25	0.06		122	2.88	1.24	0.03		108	3.27	1.31	-0.36	
	Female	389	3.62	1.21	1990	3.61	1.25	0.01		196	3.56	1.21	0.06		144	3.74	1.27	-0.12	
	Diff F-M		0.71			0.76					0.68					0.47			
	C 2000	407	2.52	1.26	3354	3.40	4.05	0.12		30	3.10	1.13	0.42		700	3.41	1.35	0.11	
	Spring 2000 Male	187 49	3.52 3.33	1.43	335 <del>4</del> 1107	2.90	1.35 1.28	0.12		8	2.88	1.13	0.42		706 306	3.41	1.35	0.11	
	Female	137	3.60	1.20	2204	3.66	1.32	-0.06		22	3.18	1.14	0.42		365	3.71	1.27	-0.11	
	Diff F-M	137	0.27	1.20	2204	0.76	1.52	-0.00		22	0.31	1.14	0.42		303	0.68	1.21	-0.11	
Student Acquaintances	J	•	Truman		Comprehe	ensive Colleg	e & Univ	TRU-C	CU	Selective L	iberal Arts	Colleges	TRU-	SLA	General Lil		olleges	TRU-	GLA
	,	N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	24.44	6.48	2545	25.25	7.09	-0.81		1801	27.44	6.46	-3.00	-0.46	2550	26.08	6.69	-1.64	-0.25
	Male	71	24.82	7.22	869	24.85	7.06	-0.03		644	26.87	6.57	-2.05		1139	25.41	6.78	-0.59	
	Female	154	24.27	6.12	1673	25.46	7.09	-1.19		1157	27.75	6.38	-3.48	-0.55	1406	26.61	6.56	-2.34	-0.36
	Diff F-M		-0.55			0.61					0.88					1.20			
	0	00	05.00	0.00	4000	04.00	0.00	0.00		540	00.47	0.74	0.54	0.00	500	00.70	7.00	4.00	
	Spring 1998	92	25.63	6.30	1239	24.83	6.99	0.80		540	28.17	6.74	-2.54	-0.38	596	26.72	7.06	-1.09	
	Male Female	22 70	24.91 25.86	7.46 5.94	454 785	24.34 25.11	7.05 6.94	0.57 0.75		300 238	27.36 29.23	6.65 6.74	-2.45 <b>-3.37</b>	-0.50	255 340	26.00 27.23	6.94 7.09	-1.09 -1.37	
	Diff F-M	70	0.95	5.94	765	0.77	0.94	0.75		230	1.87	0.74	-3.37	-0.50	340	1.23	7.09	-1.37	
	DIII I -IVI		0.55			0.77					1.07					1.23			
	Spring 1999	488	3.63	1.27	3036	3.35	1.35	0.28	0.21	321	3.33	1.21	0.30	0.25	252	3.78	1.31	-0.15	
	Male	96	3.58	1.34	1038	3.17	1.33	0.41	0.31	124	3.27	1.23	0.31		108	3.71	1.30	-0.13	
	Female	389	3.63	1.24	1976	3.44	1.35	0.19		194	3.36	1.20	0.27		143	3.83	1.32	-0.20	
	Diff F-M		0.04			0.27					0.09					0.11			
							_												
	Spring 2000	186	3.66	1.23	3331	3.33	1.42	0.33	0.23	29	3.97	1.30	-0.30		699	3.63	1.36	0.03	
	Male	50	3.80	1.14	1105	3.16	1.40	0.64	0.46	8	3.75	0.89	0.05		301	3.44	1.31	0.36	
	Female	135	3.62	1.25	2186	3.41	1.42	0.21		21	4.05	1.43	-0.43		364	3.78	1.38	-0.16	
Science/Quantitative Expe	Diff F-M		-0.18 Truman		Comprehe	0.25	e & Univ	TRU-C	·CII	Salactiva I	0.30 iberal Arts	Colleges	TRU-	SI A	General Lil	0.34	olleges	TRU-	GLA
Science/Quantitative Expe	chences	N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	17.28	6.04	2540	17.58	6.95	-0.30		1787	18.31	7.38	-1.03	2001 0120	2540	17.12	6.95	0.16	2001 0120
	Male	71	17.07	6.01	872	17.84	6.85	-0.77		641	18.66	7.54	-1.59		1132.00	17.33	7.14	-0.26	
	Female	154	17.38	6.07	1665	17.45	6.99	-0.07		1146	18.12	7.28	-0.74		1403.00	16.95	6.79	0.43	
	Diff F-M		0.31			-0.39					-0.54					-0.38			
	Spring 1998	91	19.97	5.71	1233	18.17	7.14	1.80		536	19.10	7.15	0.87		595	18.30	7.48	1.67	
	Male	22	20.27	5.96	450	18.08	7.27	2.19		298	19.60	7.01	0.67		255.00	18.66	7.48	1.61	
	Female	69	19.87	5.67	783	18.22	7.07	1.65		236	18.42	7.16	1.45		339.00	18.06	7.48	1.81	
	Diff F-M		-0.40			0.14					-1.18					-0.60			
	Spring 1999	490	3.08	1.32	3038	2.62	1.41	0.46	0.33	322	2.46	1.4231	0.61	0.43	253	2.71	1.50	0.36	0.24
	Male	99	3.23	1.45	1041	2.69	1.42	0.54	0.38	124	2.53	1.4231	0.70	0.43	110	3.14	1.53	0.10	0.24
	Female	388	3.02	1.43	1975	2.58	1.42	0.44	0.32	195	2.42	1.41	0.60	0.43	142	2.37	1.40	0.65	0.46
	Diff F-M	000	-0.21	1.20	1070	-0.11	1.40	0.44	0.02	100	-0.11		0.00	0.40	1-12	-0.76	1.40	0.00	0.40
																5			
	Spring 2000	186	3.05	1.37	3315	2.42	1.34	0.63	0.47	30	2.07	1.44	0.98	0.68	697	2.59	1.39	0.46	0.33
	Male	49	3.33	1.38	1099	2.60	1.39	0.73	0.52	8	2.25	1.39	1.08		303	2.70	1.37	0.63	0.46
	Female	136	2.95	1.37	2173	2.34	1.32	0.61	0.46	22	2.00	1.48	0.95	0.64	361	2.43	1.38	0.52	0.38
	Diff F-M		-0.38			-0.26					-0.25					-0.27			

Topics of Conversation	Г		Truman		Comprehe	ensive Colle	ge & Univ	TRU-	-CCU	Selective I	Liberal Arts	Colleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU-	GLA
·	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	19.29	5.18	2529	20.48	5.92	-1.19	-0.20	1787	22.03	5.50	-2.74	-0.50	2532	20.42	5.72	-1.13	-0.20
	Male	71	19.28	5.68	865 1661	21.01	5.93	-1.73 -0.92		637	22.19 21.95	5.69	-2.91	0.40	1122 1405	20.29	5.98	-1.01	-0.22
	Female Diff F-M	154	19.29 0.01	4.96	1001	20.21 -0.80	5.89	-0.92		1150	-0.24	5.40	-2.66	-0.49	1405	20.52 0.23	5.50	-1.23	-0.22
	DIII I -IVI		0.01			-0.00					-0.24					0.23			
	Spring 1998	91	20.75	5.43	1229	20.34	5.63	0.41		535	23.83	5.72	-3.08	-0.54	593	20.62	5.60	0.13	
	Male	22	21.00	6.38	448	21.07	6.05	-0.07		295	23.45	6.01	-2.45		252	20.73	5.72	0.27	
	Female	69	20.67	5.14	781	19.92	5.33	0.75		238	24.27	5.32	-3.60	-0.68	340	20.49	5.43	0.18	
	Diff F-M		-0.33			-1.15					0.82					-0.24			
	Spring 1999	491	3.01	1.15	3035	2.81	1.16	0.20	0.17	319	2.97	1.07	-1.81		247	2.88	1.22	0.13	
	Male	97	3.01	1.12	1035	2.87	1.18	0.14	0.11	121	3.02	1.06	-0.01		107	3.15	1.23	-0.14	
	Female	391	3.01	1.16	1976	2.77	1.15	0.23	0.20	195	2.94	1.08	0.07		139	2.69	1.16	0.31	
	Diff F-M		-0.01			-0.09					-0.08					-0.46			
	Spring 2000 Male	187 50	2.97 3.10	1.12 1.25	3309 1092	2.86 2.98	1.21 1.23	0.12 0.12		29 7	2.86 3.29	1.22 1.11	0.11 -0.19		682 293	3.00 2.98	1.24	-0.02 0.12	
	Female	136	2.94	1.25	2177	2.90	1.19	0.12		22	2.73	1.11	0.19		356	3.01	1.23 1.26	-0.07	
	Diff F-M	130	-0.16	1.00	2177	-0.20	1.13	0.13		22	-0.56	1.24	0.21		330	0.03	1.20	-0.07	
Information in			Truman		Comprehe	ensive Colle	ge & Univ	TRU-	·CCU	Selective I	Liberal Arts	Colleges	TRU-	-SLA	General Li	beral Arts C	olleges	TRU-	GLA
Conversations	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	12.36	3.08	2534	13.55	3.64	-1.19	-0.33	1793	14.18	3.41	-1.82	-0.53	2539	13.48	3.60	-1.12	-0.31
	Male	71	12.15	3.02	866	13.64	3.7	-1.49	-0.40	639	14.05	3.39	-1.90	-0.56	1132	13.32	3.76	-1.17	0.00
	Female Diff F-M	154	12.45 0.30	3.11	1665	13.5 -0.14	3.6	-1.05	-0.29	1154	14.26 0.21	3.43	-1.81	-0.53	1402	13.60 0.28	3.46	-1.15	-0.33
	DIII I -IVI		0.50			-0.14					0.21					0.20			
	Spring 1998	91	13.38	3.68	1232	13.32	3.54	0.06		539	14.87	3.57	-1.49	-0.42	596	13.65	3.63	-0.27	
	Male	22	13.05	3.51	448	13.46	3.75	-0.41		299	14.81	3.85	-1.76		255	13.70	3.69	-0.65	
	Female	69	13.49	3.74	784	13.24	3.41	0.25		238	14.96	3.2	-1.47	-0.46	340	13.58	3.56	-0.09	
	Diff F-M		0.44			-0.22					0.15					-0.12			
	Spring 1999	489	2.96	0.87	3003	2.95	0.94	0.01		317	3.06	0.91	-0.10		249	3.07	1.00	-0.12	
	Male	97	2.92	0.99	1008	2.91	0.96	0.01		119	3.03	0.87	-0.12		106	3.11	1.11	-0.20	
	Female	389	2.96	0.84	1972	2.97	0.93	0.00		195	3.07	0.94	-0.10		142	3.04	0.92	-0.08	
	Diff F-M		0.05			0.06					0.03					-0.07			
	Spring 2000	182	3.05	0.94	3286	2.96	0.99	0.09		28	2.96	0.88	0.09		679	3.09	1.00	-0.04	
	Male	48	3.21	1.15	1077	2.94	0.98	0.26		8	2.75	0.46	0.46		291	3.08	0.98	0.13	
	Female	133	3.00	0.84	2167	2.96	0.99	0.04		20	3.05	1.00	-0.05		354	3.10	1.02	-0.10	
	Diff F-M		-0.21			0.02					0.30					0.02			
Student Union/Center			Truman			ensive Colle		TRU		Selective I		Colleges	TRU-			beral Arts C	olleges	TRU-	
	Fall 1997	N 224	Mean 19.03	SD 4.74	N 2545	Mean 20.41	SD 6.50	Mean Diff	Effect Size -0.21	N 1774	Mean 20.13	SD 6.62	Mean Diff -1.10	Effect Size	N 2527	Mean 20.99	SD 6.34	Mean Diff	Effect Size -0.31
	Fall 1997 Male	71	18.90	4.74	2545 872	20.41	6.74	-1.38 -1.10	-0.21	637	20.13 19.44	6.60	-1.10		1118	20.99	6.58	-1.58	-0.31
	Female	153	19.08	4.67	1670	20.65	6.35	-1.57	-0.25	1137	20.51	6.60	-1.43		1404	21.39	6.12	-2.31	-0.38
	Diff F-M		0.18			0.65					1.07					0.91			
	Spring 1998	92	21.16	4.64	1237	20.61	6.58	0.55		540	22.65	6.09	-1.49		594	20.40	6.24	0.76	
	Male	22 70	19.91 21.56	4.35 4.69	455 782	20.27 20.81	6.60 6.57	-0.36 0.75		299 239	22.19 23.23	6.32 5.79	-2.28		253 340	20.10 20.66	6.00 6.40	-0.19 0.90	
	Female Diff F-M	70	1.65	4.09	782	0.54	0.57	0.75		239	23.23 1.04	5.79	-1.67		340	0.56	0.40	0.90	
	Dill 1 -101		1.00			0.54					1.04					0.50			
	Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	

### Activity

Athletic and Recreation			Truman		Comprehe	ensive Colle	ge & Univ	TRU	J-CCU	Selective L	iberal Arts	Colleges	TRU-	-SLA	General Lil	peral Arts Co	olleges	TRU-	-GLA
Facilities	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	18.09	5.92	2541	18.58	7.74	-0.49		1803	22.28	8.14	-4.19	-0.51	2555	22.26	8.76	-4.17	-0.48
	Male	71	19.41	6.36	871	20.45	8.42	-1.04		645	24.87	8.90	-5.46	-0.61	1140	24.93	8.76	-5.52	-0.63
	Female	154	17.48	5.62	1668	17.61	7.17	-0.13		1158	20.83	7.30	-3.35	-0.46	1410	20.10	8.13	-2.62	-0.32
	Diff F-M		-1.93			-2.84					-4.04					-4.83			
	Spring 1998	92	19.32	5.71	1239	20.01	7.64	-0.69		540	21.31	7.69	-1.99		595	21.96	8.25	-2.64	-0.32
	Male	22	19.64	6.31	455	21.68	8.10	-2.04		299	22.51	7.73	-2.87		254	24.24	8.02	-4.60	
	Female	70	19.21	5.56	784	19.04	7.18	0.17		239	19.76	7.33	-0.55		340	20.21	7.96	-1.00	
	Diff F-M		-0.43			-2.64					-2.75					-4.03			
	Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Campus Residence			Truman		Comprehe	ensive Colle	ge & Univ	TRU	J-CCU	Selective L	iberal Arts	Colleges	TRU-	-SLA	General Lil	peral Arts Co	olleges	TRU-	-GLA
Campus Residence		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Campus Residence	Fall 1997	N 225	Mean 23.32	SD 5.90	N 1875	Mean 24.40	SD 7.52	Mean Diff -1.08	Effect Size	N 1750	Mean 26.49	SD 6.42	Mean Diff -3.17	Effect Size -0.49	N 2354	Mean 25.14	SD 7.15	Mean Diff -1.82	
Campus Residence	Male	N 225 71	Mean 23.32 22.15	SD 5.90 5.98	N 1875 650	Mean 24.40 22.92	SD 7.52 7.27	Mean Diff -1.08 -0.77	Effect Size	N 1750 630	Mean 26.49 25.22	SD 6.42 6.08	Mean Diff -3.17 -3.07	Effect Size -0.49 <b>-0.50</b>	N 2354 1075	Mean 25.14 24.05	SD 7.15 6.90	Mean Diff -1.82 -1.90	Effect Size -0.25
Campus Residence	Male Female	N 225	Mean 23.32 22.15 23.85	SD 5.90	N 1875	Mean 24.40 22.92 25.21	SD 7.52	Mean Diff -1.08	Effect Size	N 1750	Mean 26.49 25.22 27.20	SD 6.42	Mean Diff -3.17	Effect Size -0.49	N 2354	Mean 25.14 24.05 26.06	SD 7.15	Mean Diff -1.82	Effect Size
Campus Residence	Male	N 225 71	Mean 23.32 22.15	SD 5.90 5.98	N 1875 650	Mean 24.40 22.92	SD 7.52 7.27	Mean Diff -1.08 -0.77	Effect Size	N 1750 630	Mean 26.49 25.22	SD 6.42 6.08	Mean Diff -3.17 -3.07	Effect Size -0.49 <b>-0.50</b>	N 2354 1075	Mean 25.14 24.05	SD 7.15 6.90	Mean Diff -1.82 -1.90	Effect Size -0.25
Campus Residence	Male Female	N 225 71	Mean 23.32 22.15 23.85	SD 5.90 5.98	N 1875 650	Mean 24.40 22.92 25.21	SD 7.52 7.27	Mean Diff -1.08 -0.77	Effect Size	N 1750 630	Mean 26.49 25.22 27.20	SD 6.42 6.08	Mean Diff -3.17 -3.07	Effect Size -0.49 <b>-0.50</b>	N 2354 1075	Mean 25.14 24.05 26.06	SD 7.15 6.90	Mean Diff -1.82 -1.90	Effect Size -0.25
Campus Residence	Male Female Diff F-M	N 225 71 154	Mean 23.32 22.15 23.85 1.70	SD 5.90 5.98 5.80	N 1875 650 1224	Mean 24.40 22.92 25.21 2.29	SD 7.52 7.27 7.52	Mean Diff -1.08 -0.77 -1.36	Effect Size	N 1750 630 1120	Mean 26.49 25.22 27.20 1.98	SD 6.42 6.08 6.50	Mean Diff -3.17 -3.07 -3.35	Effect Size -0.49 <b>-0.50</b>	N 2354 1075 1274	Mean 25.14 24.05 26.06 2.01	SD 7.15 6.90 7.22	Mean Diff -1.82 -1.90 -2.21	Effect Size -0.25
Campus Residence	Male Female Diff F-M Spring 1998	N 225 71 154	Mean 23.32 22.15 23.85 1.70	SD 5.90 5.98 5.80	N 1875 650 1224	Mean 24.40 22.92 25.21 2.29	SD 7.52 7.27 7.52 7.89	Mean Diff -1.08 -0.77 -1.36	Effect Size	N 1750 630 1120	Mean 26.49 25.22 27.20 1.98	SD 6.42 6.08 6.50	Mean Diff -3.17 -3.07 -3.35	Effect Size -0.49 <b>-0.50</b>	N 2354 1075 1274	Mean 25.14 24.05 26.06 2.01 25.42	SD 7.15 6.90 7.22	Mean Diff -1.82 -1.90 -2.21	Effect Size -0.25
Campus Residence	Male Female Diff F-M Spring 1998 Male	N 225 71 154 91 22	Mean 23.32 22.15 23.85 1.70 24.34 21.23	SD 5.90 5.98 5.80 5.78 5.72	N 1875 650 1224 980 360	Mean 24.40 22.92 25.21 2.29 24.24 22.69	SD 7.52 7.27 7.52 7.89 8.01	Mean Diff -1.08 -0.77 -1.36 0.10 -1.46	Effect Size	N 1750 630 1120 538 300	Mean 26.49 25.22 27.20 1.98 25.54 24.81	SD 6.42 6.08 6.50 6.13 6.28	Mean Diff -3.17 -3.07 -3.35 -1.20 -3.58	Effect Size -0.49 <b>-0.50</b>	N 2354 1075 1274 548 238	Mean 25.14 24.05 26.06 2.01 25.42 23.89	7.15 6.90 7.22 7.12 6.54	-1.82 -1.90 -2.21 -1.08 -2.66	Effect Size -0.25
Campus Residence	Male Female Diff F-M Spring 1998 Male Female	N 225 71 154 91 22	Mean 23.32 22.15 23.85 1.70 24.34 21.23 25.33	SD 5.90 5.98 5.80 5.78 5.72	N 1875 650 1224 980 360	Mean 24.40 22.92 25.21 2.29 24.24 22.69 25.14	SD 7.52 7.27 7.52 7.89 8.01	Mean Diff -1.08 -0.77 -1.36 0.10 -1.46	Effect Size	N 1750 630 1120 538 300	Mean 26.49 25.22 27.20 1.98 25.54 24.81 26.49	SD 6.42 6.08 6.50 6.13 6.28	Mean Diff -3.17 -3.07 -3.35 -1.20 -3.58	Effect Size -0.49 <b>-0.50</b>	N 2354 1075 1274 548 238	Mean 25.14 24.05 26.06 2.01 25.42 23.89 26.54	7.15 6.90 7.22 7.12 6.54	-1.82 -1.90 -2.21 -1.08 -2.66	Effect Size -0.25

## Freshman Environment Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

### Scale: Strong Emphasis = 7 to Weak Emphasis = 1

Third Edition (1997 & 1998) Fourth Edition (1999, 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group

**Bold** = Significant Differences (Truman Means differ by 1.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Emphasis on Developing Academic,	Truman			Comprehen	sive College	& Univ	TRU	-CCU	Selective Li	iberal Arts (	Colleges	TRI	I-SLA	General Li	beral Arts Co	olleges	TRU-	GLA
Scholarly, and Intellectual Qualities	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.40	0.74	2538	5.41	1.20	0.99	0.83	1798	5.97	1.02	0.43	0.42	2544	5.50	1.18	0.90	0.76
Male	71	6.21	0.74	869	5.29	1.21	0.92	0.76	640	5.82	1.02	0.39		1135	5.33	1.22	0.88	0.72
Female	154	6.49	0.73	1667	5.48	1.19	1.01	0.85	1158	6.05	1.02	0.44	0.43	1404	5.64	1.14	0.85	0.75
Diff F-M		0.28			0.19					0.23					0.31			
Spring 1998	92	6.02	0.95	1230	5.48	1.16	0.54	0.47	538	6.03	1.05	-0.01		595	5.47	1.23	0.55	0.45
Male	22	5.64	1.14	451	5.31	1.21	0.33		298	5.92	1.14	-0.28		255	5.24	1.18	0.40	
Female	70	6.14	0.86	779	5.58	1.12	0.56	0.50	238	6.17	0.91	-0.03		339	5.66	1.22	0.48	0.39
Diff F-M		0.50			0.27					0.25					0.42			
Spring 1999	493	6.06	0.99	3068	5.39	1.16	0.67	0.58	323	6.07	0.89	-0.01		256	5.65	1.22	0.41	0.34
Male	97	5.70	1.27	1041	5.36	1.16	0.34		124	5.96	0.88	-0.26		111	5.65	1.23	0.05	
Female	393	6.14	0.88	2003	5.41	1.15	0.73	0.63	196	6.13	0.89	0.01		144	5.65	1.21	0.49	0.40
Diff F-M		0.44			0.05					0.17					0.00			
0.40000	407	0.40	0.00	0004	5.04	4.40	0.70	0.00	00	- 07	4.00	0.45		700		4.40	0.55	0.40
Spring 2000	187	6.12 5.80	0.90 0.99	3364 1117	5.34 5.30	1.18	0.78 0.50	<b>0.66</b> 0.41	30 8	5.67 5.75	1.32 1.04	0.45		706 308	5.57 5.44	1.19 1.19	0.55	0.46
Male Female	50 136	6.25	0.99	2204	5.36	1.21 1.16	0.50	0.41	22	5.75 5.64	1.04	0.05 0.61		364	5.44	1.19	0.36 <b>0.57</b>	0.48
Pemale Diff F-M	130	0.45	0.84	2204	0.06	1.10	0.89	0.77	22	-0.11	1.43	0.01		304	0.24	1.18	0.57	0.48
Dili i -ivi		0.73								-0.11								
Emphasis on Developing Aesthetic	Truman			Comprehen	sive College	& Hniv	TRII	-CCII	Selective Li	iheral Arts (	`olleges	TRI	I-SI ∆	General Li	heral Arts Co	olleges	TRU	GLA
1	Truman N	Mean			sive College Mean			-CCU Effect Size	Selective Li				I-SLA		beral Arts Co		TRU- Mean Diff	
Emphasis on Developing Aesthetic, Expressive, and Creative Qualities Fall 1997	N	Mean 5.30	SD	N	Mean	SD	TRU Mean Diff 0.42	Effect Size	N	Mean	SD	Mean Diff	I-SLA	N	Mean	SD	Mean Diff	Effect Size
Expressive, and Creative Qualities		Mean 5.30 5.35					Mean Diff						I-SLA					
Expressive, and Creative Qualities Fall 1997	N 224	5.30	SD 1.06	N 2539	Mean 4.88	SD 1.28	Mean Diff 0.42	Effect Size 0.33	N 1794	Mean 5.24	SD 1.23	Mean Diff 0.06	I-SLA	N 2542	Mean 5.02	SD 1.30	Mean Diff 0.28	Effect Size
Expressive, and Creative Qualities Fall 1997 Male	N 224 71	5.30 5.35	SD 1.06 1.04	N 2539 871	Mean 4.88 4.89	SD 1.28 1.32	Mean Diff 0.42 0.46	Effect Size 0.33 0.35	N 1794 637	Mean 5.24 5.18	SD 1.23 1.15	Mean Diff 0.06 0.17	I-SLA	N 2542 1133	Mean 5.02 4.93	SD 1.30 1.29	Mean Diff 0.28 0.42	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female	N 224 71	5.30 5.35 5.28	SD 1.06 1.04	N 2539 871 1666	Mean 4.88 4.89 4.88	SD 1.28 1.32	Mean Diff 0.42 0.46 0.40	Effect Size 0.33 0.35	N 1794 637	Mean 5.24 5.18 5.28	SD 1.23 1.15	Mean Diff 0.06 0.17	I-SLA	N 2542 1133	Mean 5.02 4.93 5.10	SD 1.30 1.29 1.30	Mean Diff 0.28 0.42 0.18	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998	N 224 71 153	5.30 5.35 5.28 -0.07	SD 1.06 1.04 1.07	N 2539 871 1666	Mean 4.88 4.89 4.88 -0.01	SD 1.28 1.32 1.26	Mean Diff 0.42 0.46 0.40	Effect Size 0.33 0.35	N 1794 637 1157	Mean 5.24 5.18 5.28 0.10	SD 1.23 1.15 1.27	Mean Diff 0.06 0.17 0.00	I-SLA	N 2542 1133 1404	Mean 5.02 4.93 5.10 0.17	SD 1.30 1.29 1.30	Mean Diff 0.28 0.42 0.18	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male	N 224 71 153	5.30 5.35 5.28 -0.07 5.00 4.45	SD 1.06 1.04 1.07	N 2539 871 1666 1230 451	Mean 4.88 4.89 4.88 -0.01 4.87 4.80	SD 1.28 1.32 1.26 1.22 1.29	Mean Diff 0.42 0.46 0.40 0.13 -0.35	Effect Size 0.33 0.35	N 1794 637 1157 537 297	Mean 5.24 5.18 5.28 0.10 5.20 5.00	SD 1.23 1.15 1.27 1.36 1.49	Mean Diff 0.06 0.17 0.00 -0.20 -0.55	I-SLA	N 2542 1133 1404 595 255	Mean 5.02 4.93 5.10 0.17 4.88 4.76	SD 1.30 1.29 1.30 1.27 1.26	0.28 0.42 0.18 0.12 -0.31	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female	N 224 71 153	5.30 5.35 5.28 -0.07 5.00 4.45 5.17	SD 1.06 1.04 1.07	N 2539 871 1666	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90	SD 1.28 1.32 1.26	Mean Diff 0.42 0.46 0.40	Effect Size 0.33 0.35	N 1794 637 1157	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46	SD 1.23 1.15 1.27	Mean Diff 0.06 0.17 0.00	I-SLA	N 2542 1133 1404	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98	SD 1.30 1.29 1.30	Mean Diff 0.28 0.42 0.18	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male	N 224 71 153	5.30 5.35 5.28 -0.07 5.00 4.45	SD 1.06 1.04 1.07	N 2539 871 1666 1230 451	Mean 4.88 4.89 4.88 -0.01 4.87 4.80	SD 1.28 1.32 1.26 1.22 1.29	Mean Diff 0.42 0.46 0.40 0.13 -0.35	Effect Size 0.33 0.35	N 1794 637 1157 537 297	Mean 5.24 5.18 5.28 0.10 5.20 5.00	SD 1.23 1.15 1.27 1.36 1.49	Mean Diff 0.06 0.17 0.00 -0.20 -0.55	I-SLA	N 2542 1133 1404 595 255	Mean 5.02 4.93 5.10 0.17 4.88 4.76	SD 1.30 1.29 1.30 1.27 1.26	0.28 0.42 0.18 0.12 -0.31	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M	N 224 71 153 92 22 70	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72	1.06 1.04 1.07 1.20 1.50 1.04	N 2539 871 1666 1230 451 779	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10	1.28 1.32 1.26 1.22 1.29 1.19	0.42 0.46 0.40 0.13 -0.35 0.27	Effect Size 0.33 0.35 0.32	N 1794 637 1157 537 297 238	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46	SD 1.23 1.15 1.27 1.36 1.49 1.13	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29		N 2542 1133 1404 595 255 339	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22	1.30 1.29 1.30 1.27 1.27 1.26 1.25	Mean Diff  0.28  0.42  0.18  0.12  -0.31  0.19	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Spring 1999	N 224 71 153 92 22 70	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09	1.06 1.04 1.07 1.20 1.50 1.04	N 2539 871 1666 1230 451 779	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10	SD 1.28 1.32 1.26 1.22 1.29 1.19	0.42 0.46 0.40 0.13 -0.35 0.27	Effect Size 0.33 0.35	N 1794 637 1157 537 297 238	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46	1.23 1.15 1.27 1.36 1.49 1.13	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29	-0.39	N 2542 1133 1404 595 255 339	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27	1.30 1.29 1.30 1.27 1.26 1.25	0.28 0.42 0.18 0.12 -0.31 0.19	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	N 224 71 153 92 22 70 493 97	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97	1.06 1.04 1.07 1.20 1.50 1.04	N 2539 871 1666 1230 451 779 3061 1035	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84	1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31	0.42 0.46 0.40 0.13 -0.35 0.27 0.23	Effect Size 0.33 0.35 0.32	N 1794 637 1157 537 297 238	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46 5.54 5.52	1.23 1.15 1.27 1.36 1.49 1.13	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15	1.30 1.29 1.30 1.27 1.26 1.25	0.28 0.42 0.18 0.12 -0.31 0.19	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female	N 224 71 153 92 22 70	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97 5.10	1.06 1.04 1.07 1.20 1.50 1.04	N 2539 871 1666 1230 451 779	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10	SD 1.28 1.32 1.26 1.22 1.29 1.19	0.42 0.46 0.40 0.13 -0.35 0.27	Effect Size 0.33 0.35 0.32	N 1794 637 1157 537 297 238	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46 5.54 5.52 5.55	1.23 1.15 1.27 1.36 1.49 1.13	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29	-0.39	N 2542 1133 1404 595 255 339	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15 5.36	1.30 1.29 1.30 1.27 1.26 1.25	0.28 0.42 0.18 0.12 -0.31 0.19	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	N 224 71 153 92 22 70 493 97	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97	1.06 1.04 1.07 1.20 1.50 1.04	N 2539 871 1666 1230 451 779 3061 1035	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84	1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31	0.42 0.46 0.40 0.13 -0.35 0.27 0.23	Effect Size 0.33 0.35 0.32	N 1794 637 1157 537 297 238	Mean 5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46 5.54 5.52	1.23 1.15 1.27 1.36 1.49 1.13	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15	1.30 1.29 1.30 1.27 1.26 1.25	0.28 0.42 0.18 0.12 -0.31 0.19	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M	N 224 71 153 92 22 70 493 97 393	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97 5.10 0.13	1.06 1.04 1.07 1.20 1.50 1.04 1.19 1.29 1.17	N 2539 871 1666 1230 451 779 3061 1035 2002	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84 4.87	SD 1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31 1.30	0.42 0.46 0.40 0.13 -0.35 0.27 0.23 0.13 0.23	Effect Size 0.33 0.35 0.32  0.18	N 1794 637 1157 537 297 238 323 124 196	5.24 5.18 5.28 0.10 5.20 5.00 5.46 0.46 5.54 5.52 5.55 0.03	1.23 1.15 1.27 1.36 1.49 1.13 1.15 1.22 1.12	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29 -0.45 -0.55 -0.45	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111 144	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15 5.36 0.21	1.30 1.29 1.30 1.27 1.26 1.25 1.25	0.28 0.42 0.18 0.12 -0.31 0.19 -0.18 -0.18	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000	N 224 71 153 92 22 70 493 97 393	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97 5.10 0.13	1.06 1.04 1.07 1.20 1.50 1.04 1.19 1.29 1.17	N 2539 871 1666 1230 451 779 3061 1035 2002	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84 4.87	SD 1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31 1.30	0.42 0.46 0.40 0.13 -0.35 0.27 0.23 0.13 0.23	Effect Size 0.33 0.35 0.32	N 1794 637 1157 537 297 238 323 124 196	Mean 5.24 5.18 5.28 0.10 5.20 5.46 0.46 5.54 5.52 5.55 0.03 5.00	1.23 1.15 1.27 1.36 1.49 1.13 1.15 1.22 1.12	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29 -0.45 -0.45	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111 144 704	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15 5.36 0.21 4.95	1.30 1.29 1.30 1.27 1.26 1.25 1.25 1.34 1.17	0.28 0.42 0.18 0.12 -0.31 0.19 -0.18 -0.26	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000 Male	N 224 71 153 92 22 70 493 97 393 186 50	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97 5.10 0.13 5.15 4.90	1.06 1.06 1.07 1.20 1.50 1.04 1.19 1.29 1.17	N 2539 871 1666 1230 451 779 3061 1035 2002	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84 4.87	1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31 1.30	0.42 0.46 0.40 0.13 -0.35 0.27 0.23 0.13 0.23	Effect Size	N 1794 637 1157 537 297 238 323 124 196	Mean 5.24 5.18 0.10 5.20 5.00 5.46 0.46 5.54 5.55 0.03 5.00 5.00 5.00 5.00	1.23 1.15 1.27 1.36 1.49 1.13 1.15 1.22 1.12	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29 -0.45 -0.55 -0.45	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111 1444 704 306	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15 5.36 0.21 4.95 4.85	1.30 1.29 1.30 1.27 1.26 1.25 1.34 1.17	0.28 0.42 0.18 0.12 -0.31 0.19 -0.18 -0.18 -0.20 0.20 0.05	Effect Size
Expressive, and Creative Qualities Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000	N 224 71 153 92 22 70 493 97 393	5.30 5.35 5.28 -0.07 5.00 4.45 5.17 0.72 5.09 4.97 5.10 0.13	1.06 1.04 1.07 1.20 1.50 1.04 1.19 1.29 1.17	N 2539 871 1666 1230 451 779 3061 1035 2002	Mean 4.88 4.89 4.88 -0.01 4.87 4.80 4.90 0.10 4.86 4.84 4.87	SD 1.28 1.32 1.26 1.22 1.29 1.19 1.30 1.31 1.30	0.42 0.46 0.40 0.13 -0.35 0.27 0.23 0.13 0.23	Effect Size 0.33 0.35 0.32  0.18	N 1794 637 1157 537 297 238 323 124 196	Mean 5.24 5.18 5.28 0.10 5.20 5.46 0.46 5.54 5.52 5.55 0.03 5.00	1.23 1.15 1.27 1.36 1.49 1.13 1.15 1.22 1.12	Mean Diff 0.06 0.17 0.00 -0.20 -0.55 -0.29 -0.45 -0.45	-0.39 -0.45	N 2542 1133 1404 595 255 339 256 111 144 704	Mean 5.02 4.93 5.10 0.17 4.88 4.76 4.98 0.22 5.27 5.15 5.36 0.21 4.95	1.30 1.29 1.30 1.27 1.26 1.25 1.25 1.34 1.17	0.28 0.42 0.18 0.12 -0.31 0.19 -0.18 -0.26	Effect Size

#### Environment

Emphasis on Being Critical.		Truman			Comprehe	nsive College	e & Univ	TRU	-CCU	Selective L	iberal Arts C	Colleges	TRU	J-SLA	General Li	beral Arts C	olleges	TRU-	GLA
Evaluative, and Analytical		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	5.69	0.94	2532	5.05	1.22	0.64	0.52	1795	5.60	1.10	0.09		2545	5.13	1.25	0.56	0.45
	Male	71	5.70	0.98	867	5.06	1.22	0.64	0.52	638	5.52	1.13	0.18		1135	5.06	1.23	0.64	0.52
	Female	154	5.69	0.92	1663	5.04	1.22	0.65	0.53	1157	5.64	1.09	0.05		1405	5.18	1.25	0.51	0.41
	Diff F-M	104	-0.01	0.02	1000	-0.02	1.22	0.00	0.00	1107	0.12	1.00	0.00		1400	0.12	1.20	0.01	0.41
	Dill I IVI		0.01			0.02					0.12					0.12			
	Spring 1998	92	5.52	1.10	1228	5.07	1.16	0.45	0.39	538	5.64	1.20	-0.12		595	5.10	1.23	0.42	0.34
	Male	22	5.32	1.21	450	5.02	1.23	0.30		298	5.52	1.25	-0.20		255	4.94	1.24	0.38	
	Female	70	5.59	1.07	778	5.10	1.12	0.49	0.44	238	5.81	1.11	-0.22		339	5.23	1.20	0.36	
	Diff F-M	70	0.27	1.07	110	0.08	1.12	0.43	0.44	230	0.29	1.11	-0.22		333	0.29	1.20	0.50	
	DIII I -IVI		0.21			0.00					0.23					0.23			
	Spring 1999	493	5.62	1.11	3065	5.05	1.21	0.57	0.47	323	5.65	1.06	-0.03		257	5.33	1.33	0.29	0.22
	Male	97	5.24	1.35	1039	5.04	1.25	0.20	****	124	5.65	1.10	-0.41		112	5.45	1.24	-0.21	
	Female	393	5.71	1.02	2002	5.05	1.19	0.66	0.55	196	5.65	1.05	0.06		144	5.23	1.39	0.48	0.35
	Diff F-M	333	0.47	1.02	2002	0.01	1.10	0.00	0.55	130	0.00	1.00	0.00		177	-0.22	1.00	0.40	0.55
	DIII I'-IVI		0.47			0.01					0.00					-0.22			
	Spring 2000	185	5.64	1.06	3357	5.01	1.20	0.63	0.53	30	5.30	1.37	0.34		703	5.14	1.22	0.50	0.41
	Male	50	5.42	1.14	1115	5.05	1.23	0.37		8	5.25	1.04	0.17		306	5.01	1.22	0.41	****
	Female	134	5.73	1.02	2199	4.99	1.19	0.74	0.62	22	5.32	1.49	0.41		363	5.26	1.23	0.47	0.38
	Diff F-M	104	0.31	1.02	2100	-0.06	1.10	0.74	0.02		0.02	1.40	0.41		000	0.25	1.20	0.47	0.00
Environmental Emphasis:	D 1 141	Truman	0.01		Comprehe	nsive College	e & ∐niv	TRII	-CCU	Selective I	iberal Arts C	'ollenes	TRI	J-SLA	General Li	beral Arts C	olleges	TRU-	GLΔ
Diversity		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Diversity	Fall 1997	*	*	*	*	*	*	*	Lilect Size	*	*	*	*	Lifect Oize	*	*	*	*	Lifect Oize
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Opining 1990																		
	Spring 1999	493	4.63	1.42	3064	4.90	1.45	-0.27	-0.19	323	5.33	1.33	-0.70	-0.53	255	5.32	1.49	-0.69	-0.46
	Male	97	4.57	1.50	1040	4.79	1.46	-0.22	-0.13	124	5.19	1.40	-0.62	-0.44	111	5.23	1.65	-0.66	-0.40
	Female	393	4.64	1.40	2001	4.75	1.40	-0.22	-0.22	196	5.42	1.40	-0.02	-0.60	143	5.41	1.35	-0.77	-0.57
	Diff F-M	393	0.07	1.40	2001	0.16	1.44	-0.37	-0.22	190	0.23	1.29	-0.76	-0.00	143	0.18	1.33	-0.77	-0.57
	DIII F-IVI		0.07			0.16					0.23					0.16			
	Spring 2000	186	4.66	1.47	3363	4.99	1.40	-0.33	-0.24	30	5.73	1.76	-1.07	-0.61	702	4.98	1.47	-0.32	
	Male	50	4.66	1.47	1118	4.99	1.40	-0.43	-0.24	8	5.73	2.31	-0.81	-0.01	306	4.96	1.47	-0.32	
		135		1.50	2203	5.06		-0.43		22	5.25			0.77	362		1.44		-0.34
	Female	135	4.73	1.50	2203	0.19	1.38	-0.33		22		1.54	-1.18	-0.77	302	5.22	1.45	-0.49	-0.34
B 1	Diff F-M	T	0.29		O l		. 0 11.1	TDU	-CCU	O de de de	0.66	V-11	TDI	J-SLA	0	0.49		TDU	01.4
Environmental Emphasis:		Truman	Mass	SD		nsive College	SD SD				iberal Arts C	SD	Mean Diff			beral Arts Co Mean	olleges SD	TRU- Mean Diff	
Information Literacy Skills	E-II 4007	N	Mean	SD.	N	Mean	อบ	Mean Diff	Effect Size	N	Mean	อบ	wean Dill	Effect Size	N	wean	จบ	wean Dili	Effect Size
	Fall 1997	*																	
	Spring 1998	•	-	-		-	-	_		-	-	-	-		-	-	-	-	
	Spring 1999	492	5.11	1.34	3061	5.31	1.28	-0.20	-0.16	323	5.32	1.21	-0.21		255	5.29	1.27	-0.18	
																			0.04
	Male	97	5.00	1.49	1036	5.32	1.30	-0.32	-0.25	124	5.19	1.20	-0.19		111	5.28	1.33	-0.28	-0.21
	Female	392	5.13	1.31	2001	5.31	1.27	-0.18		196	5.42	1.21	-0.29		143	5.29	1.24	-0.16	
	Diff F-M		0.13			-0.01					0.23					0.01			
	0	400	F 4 1	4.46	0050	F.00	4.0=	0.10			4.0=	4.00			700		4.00	0.55	0.00
	Spring 2000	186	5.11	1.19	3358	5.30	1.27	-0.19		30	4.97	1.30	0.14		702	5.47	1.26	-0.36	-0.29
	Male	50	4.60	1.36	1116	5.34	1.27	-0.74		8	5.00	0.93	-0.40		306	5.44	1.27	-0.84	
	Female	135	5.30	1.07	2199	5.29	1.26	0.01		22	4.95	1.43	0.35		362	5.51	1.25	-0.21	
	Diff F-M		0.70			-0.05					-0.05					0.07			

<u> </u>																		
1 1 5	Truman				nsive Colleg			I-CCU	Selective L				J-SLA		beral Arts C		TRU-	GLA
and Occupational Competence	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	
Fall 1997	225	4.92	1.25	2540	4.79	1.32	0.13		1797	4.71	1.40	0.21		2543	4.86	1.34	0.06	
Male	71	5.01	1.25	869	4.77	1.35	0.24		639	4.68	1.39	0.33		1132	4.84	1.34	0.17	
Female	154	4.88	1.25	1669	4.79	1.30	0.09		1158	4.73	1.41	0.15		1406	4.89	1.34	-0.01	
Diff F-M		-0.13			0.02					0.05					0.05			
Spring 1998	92	4.41	1.40	1227	4.82	1.27	-0.41		535	4.13	1.58	0.28		593	4.82	1.38	-0.41	
Male	22	3.95	1.62	451	4.74	1.27	-0.79		297	4.37	1.55	-0.42		254	4.72	1.36	-0.77	
Female	70	4.56	1.30	776	4.86	1.26	-0.30		236	3.83	1.56	0.73	0.47	338	4.90	1.38	-0.34	
Diff F-M		0.61			0.12					-0.54					0.18			
Spring 1999	492	4.48	1.46	3066	4.84	1.37	-0.36	-0.26	323	4.95	1.35	-0.47	-0.35	256	4.93	1.47	-0.45	-0.31
Male	97	4.32	1.54	1041	4.85	1.37	-0.53	-0.39	124	4.81	1.42	-0.49		111	4.93	1.52	-0.61	-0.40
Female	392	4.51	1.44	2001	4.83	1.37	-0.32	-0.23	196	5.04	1.31	-0.53	-0.40	144	4.93	1.45	-0.42	-0.29
Diff F-M		0.19			-0.02					0.23					0.00			
Spring 2000	186	4.30	1.42	3359	4.83	1.36	-0.53	-0.39	20	4.60	1.54	-0.30		701	4.99	1.38	-0.69	0.50
Spring 2000 Male	50	3.96	1.62	1117	4.85	1.40	-0.53	-0.64	30 8	4.88	1.25	-0.30		305	4.99	1.38	-1.03	-0.50 -0.75
Female	135	4.43	1.32	2199	4.84	1.40	-0.41	-0.31	22	4.50	1.65	-0.92		362	5.02	1.37	-0.59	-0.43
Diff F-M	133	0.47	1.32	2199	-0.01	1.54	-0.41	-0.51	22	-0.38	1.00	-0.07		302	0.03	1.57	-0.59	-0.43
	Truman	0.47		Comprohor	sive College	a & Hniv	TRI	I-CCU	Selective I	iberal Arts (	Colleges	TRI	J-SLA	General Li	beral Arts C	olleaes	TRU-	GLA
•		Mean																
and Practical Value of Courses	N	Mean 5.04	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N 2545	Mean	SD	Mean Diff	Effect Size
and Practical Value of Courses		Mean 5.04 5.03												N				
and Practical Value of Courses Fall 1997	N 225	5.04	SD 1.20	N 2539	Mean 4.90	SD 1.36	Mean Diff 0.14		N 1793	Mean 4.99	SD 1.30	Mean Diff 0.05		N 2545	Mean 5.11	SD 1.28	Mean Diff -0.07	
and Practical Value of Courses Fall 1997 Male	N 225 71	5.04 5.03	SD 1.20 1.22	N 2539 868	Mean 4.90 4.83	SD 1.36 1.41	Mean Diff 0.14 0.20		N 1793 639	Mean 4.99 4.95	SD 1.30 1.30	Mean Diff 0.05 0.08		N 2545 1134	Mean 5.11 4.99	SD 1.28 1.30	Mean Diff -0.07 0.04	
and Practical Value of Courses Fall 1997 Male Female Diff F-M	N 225 71 154	5.04 5.03 5.05 0.02	SD 1.20 1.22 1.20	N 2539 868 1669	Mean 4.90 4.83 4.94 0.11	SD 1.36 1.41 1.33	Mean Diff 0.14 0.20 0.11	Effect Size	N 1793 639 1154	Mean 4.99 4.95 5.02 0.07	SD 1.30 1.30 1.30	Mean Diff 0.05 0.08 0.03		N 2545 1134 1406	Mean 5.11 4.99 5.21 0.22	SD 1.28 1.30 1.27	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998	N 225 71 154	5.04 5.03 5.05 0.02 4.52	SD 1.20 1.22 1.20	N 2539 868 1669	Mean 4.90 4.83 4.94 0.11	SD 1.36 1.41 1.33	Mean Diff 0.14 0.20 0.11	Effect Size	N 1793 639 1154	Mean 4.99 4.95 5.02 0.07	SD 1.30 1.30 1.30	Mean Diff 0.05 0.08 0.03	Effect Size	N 2545 1134 1406	Mean 5.11 4.99 5.21 0.22	SD 1.28 1.30 1.27	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male	N 225 71 154	5.04 5.03 5.05 0.02 4.52 3.95	SD 1.20 1.22 1.20 1.36 1.46	N 2539 868 1669 1230 451	Mean 4.90 4.83 4.94 0.11 4.96 4.90	SD 1.36 1.41 1.33 1.28 1.30	Mean Diff 0.14 0.20 0.11 -0.44 -0.95	Effect Size	N 1793 639 1154 537 298	Mean 4.99 4.95 5.02 0.07 4.86 4.83	SD 1.30 1.30 1.30 1.42 1.42	Mean Diff 0.05 0.08 0.03 -0.34		N 2545 1134 1406 594 255	Mean 5.11 4.99 5.21 0.22 4.94 4.74	SD 1.28 1.30 1.27 1.40 1.40	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female	N 225 71 154	5.04 5.03 5.05 0.02 4.52 3.95 4.70	SD 1.20 1.22 1.20	N 2539 868 1669	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99	SD 1.36 1.41 1.33	Mean Diff 0.14 0.20 0.11	Effect Size	N 1793 639 1154	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89	SD 1.30 1.30 1.30	Mean Diff 0.05 0.08 0.03	Effect Size	N 2545 1134 1406	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09	SD 1.28 1.30 1.27	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male	N 225 71 154	5.04 5.03 5.05 0.02 4.52 3.95	SD 1.20 1.22 1.20 1.36 1.46	N 2539 868 1669 1230 451	Mean 4.90 4.83 4.94 0.11 4.96 4.90	SD 1.36 1.41 1.33 1.28 1.30	Mean Diff 0.14 0.20 0.11 -0.44 -0.95	Effect Size	N 1793 639 1154 537 298	Mean 4.99 4.95 5.02 0.07 4.86 4.83	SD 1.30 1.30 1.30 1.42 1.42	Mean Diff 0.05 0.08 0.03 -0.34	Effect Size	N 2545 1134 1406 594 255	Mean 5.11 4.99 5.21 0.22 4.94 4.74	SD 1.28 1.30 1.27 1.40 1.40	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female	N 225 71 154	5.04 5.03 5.05 0.02 4.52 3.95 4.70	SD 1.20 1.22 1.20 1.36 1.46	N 2539 868 1669 1230 451	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99	SD 1.36 1.41 1.33 1.28 1.30	Mean Diff 0.14 0.20 0.11 -0.44 -0.95	Effect Size	N 1793 639 1154 537 298	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89	SD 1.30 1.30 1.30 1.42 1.42	Mean Diff 0.05 0.08 0.03 -0.34	Effect Size	N 2545 1134 1406 594 255	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09	SD 1.28 1.30 1.27 1.40 1.40	Mean Diff -0.07 0.04 -0.16	
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M	N 225 71 154 92 22 70	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75	1.20 1.22 1.20 1.20 1.36 1.46 1.29	N 2539 868 1669 1230 451 779	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09	SD 1.36 1.41 1.33 1.28 1.30 1.27	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29	-0.34 -0.73	N 1793 639 1154 537 298 237	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06	SD 1.30 1.30 1.30 1.42 1.43 1.41	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19	Effect Size	N 2545 1134 1406 594 255 339	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35	SD 1.28 1.30 1.27 1.40 1.40 1.39	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39	Effect Size
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999	N 225 71 154 92 22 70	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75	1.20 1.22 1.20 1.36 1.46 1.29	N 2539 868 1669 1230 451 779	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09 4.86	SD 1.36 1.41 1.33 1.28 1.30 1.27	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29	-0.34 -0.73	N 1793 639 1154 537 298 237	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06	SD 1.30 1.30 1.30 1.42 1.43 1.41	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19	-0.62	N 2545 1134 1406 594 255 339	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12	SD 1.28 1.30 1.27 1.40 1.40 1.39	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62	Effect Size
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	N 225 71 154 92 22 70 493 97	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54	1.20 1.22 1.20 1.36 1.46 1.29	N 2539 868 1669 1230 451 779 3063 1038	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09 4.86 4.87	1.36 1.41 1.33 1.28 1.30 1.27	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29	-0.34 -0.73	N 1793 639 1154 537 298 237	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19	SD 1.30 1.30 1.30 1.42 1.43 1.41	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16	1.28 1.30 1.27 1.40 1.40 1.39	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62	Effect Size
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Diff F-M Spring 1999 Male Female Diff F-M	N 225 71 154 92 22 70 493 97 393	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54 4.62 0.08	1.20 1.22 1.20 1.36 1.46 1.29 1.41 1.39 1.41	N 2539 868 1669 1230 451 779 3063 1038 2001	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09 4.86 4.87 4.84 -0.03	SD 1.36 1.41 1.33 1.28 1.30 1.27 1.37 1.37	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29 -0.25 -0.33 -0.22	-0.34 -0.73 -0.18 -0.24 -0.16	N 1793 639 1154 537 298 237 323 124 196	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19 5.30 0.11	SD 1.30 1.30 1.30 1.42 1.43 1.41 1.30 1.25 1.32	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19 -0.64 -0.65 -0.68	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110 143	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16 5.07 -0.09	SD 1.28 1.30 1.27 1.40 1.40 1.39 1.41 1.46 1.38	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62 -0.45	-0.36 -0.33
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000	N 225 71 154 92 22 70 493 97 393	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54 4.62 0.08	1.20 1.22 1.20 1.36 1.46 1.29 1.41 1.39 1.41	N 2539 868 1669 1230 451 779 3063 1038 2001	Mean 4.90 4.83 4.94 0.111 4.96 4.90 0.09 4.86 4.87 4.84 -0.03	SD 1.36 1.41 1.33 1.28 1.30 1.27 1.37 1.37 1.37	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29 -0.25 -0.33 -0.22	-0.34 -0.73 -0.18 -0.24 -0.16	N 1793 639 1154 537 298 237 323 124 196	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19 5.30 0.11 5.03	SD 1.30 1.30 1.30 1.42 1.43 1.41 1.30 1.25 1.32	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19 -0.64 -0.65 -0.68	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110 143	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16 5.07 -0.09 5.06	1.28 1.30 1.27 1.40 1.40 1.40 1.39 1.41 1.46 1.38	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62 -0.45	-0.36 -0.33
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000 Male	N 225 71 154 92 22 70 493 97 393	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54 4.62 0.08	1.20 1.20 1.20 1.20 1.36 1.46 1.29 1.41 1.39 1.41	N 2539 868 1669 1230 451 779 3063 1038 2001	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09 4.86 4.87 4.84 -0.03	SD 1.36 1.41 1.33 1.28 1.30 1.27 1.37 1.37 1.37	Mean Diff 0.14 0.20 0.11  -0.44 -0.95 -0.29  -0.25 -0.33 -0.22	-0.34 -0.73 -0.18 -0.24 -0.16	N 1793 639 1154 537 298 237 323 124 196	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19 5.30 0.11	SD 1.30 1.30 1.30 1.42 1.43 1.41 1.30 1.25 1.32	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19 -0.65 -0.69	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110 143	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16 5.07 -0.09 5.06 4.95	1.28 1.30 1.27 1.40 1.40 1.39 1.41 1.46 1.38	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62 -0.45	-0.36 -0.33
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000 Male Female Female Female	N 225 71 154 92 22 70 493 97 393	5.04 5.03 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54 4.62 0.08 4.34 4.08 4.44	1.20 1.22 1.20 1.36 1.46 1.29 1.41 1.39 1.41	N 2539 868 1669 1230 451 779 3063 1038 2001	Mean 4.90 4.83 4.94 0.11 4.96 4.90 4.99 0.09 4.86 4.87 4.84 -0.03	SD 1.36 1.41 1.33 1.28 1.30 1.27 1.37 1.37 1.37	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29 -0.25 -0.33 -0.22	-0.34 -0.73 -0.18 -0.24 -0.16	N 1793 639 1154 537 298 237 323 124 196	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19 5.30 0.11 5.03 5.00 5.05	SD 1.30 1.30 1.30 1.42 1.43 1.41 1.30 1.25 1.32	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19 -0.64 -0.65 -0.68	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110 143	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16 5.07 -0.09 5.06 4.95 5.16	1.28 1.30 1.27 1.40 1.40 1.40 1.39 1.41 1.46 1.38	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62 -0.45	-0.36 -0.33
and Practical Value of Courses Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000 Male	N 225 71 154 92 22 70 493 97 393 186 50 135	5.04 5.03 5.05 5.05 0.02 4.52 3.95 4.70 0.75 4.61 4.54 4.62 0.08 4.34 4.03 4.48	1.20 1.20 1.22 1.20 1.36 1.46 1.29 1.41 1.39 1.41 1.43 1.61 1.36	N 2539 868 1669 1230 451 779 3063 1038 2001 3361 1116 2202	Mean 4.90 4.83 4.94 0.11 4.96 4.90 0.09 4.86 4.87 4.84 -0.03 4.87 4.85 4.89 0.04	SD 1.36 1.41 1.33 1.28 1.30 1.27 1.37 1.37 1.37 1.40 1.43 1.38	Mean Diff 0.14 0.20 0.11 -0.44 -0.95 -0.29 -0.25 -0.33 -0.22 -0.53 -0.77 -0.45	-0.34 -0.73 -0.18 -0.24 -0.16 -0.38 -0.54 -0.33	N 1793 639 1154 537 298 237 323 124 196	Mean 4.99 4.95 5.02 0.07 4.86 4.83 4.89 0.06 5.25 5.19 5.30 0.11	SD 1.30 1.30 1.30 1.42 1.43 1.41 1.30 1.25 1.32	Mean Diff 0.05 0.08 0.03 -0.34 -0.88 -0.19 -0.65 -0.69	-0.62 -0.49 -0.52	N 2545 1134 1406 594 255 339 254 110 143	Mean 5.11 4.99 5.21 0.22 4.94 4.74 5.09 0.35 5.12 5.16 5.07 -0.09 5.06 4.95	1.28 1.30 1.27 1.40 1.40 1.39 1.41 1.46 1.38	Mean Diff -0.07 0.04 -0.16 -0.42 -0.79 -0.39 -0.51 -0.62 -0.45	-0.36 -0.33

Relationships with other students	Truman			Compreher	sive College	e & Univ	TRU	-CCU	Selective Li	iberal Arts C	olleges	TRU	J-SLA	General Li	beral Arts C	olleges	TRU-	-GLA
•	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.83	1.05	2539	5.37	1.44	0.46	0.32	1798	5.66	1.31	0.17		2549	5.65	1.30	0.18	
Male	71	5.68	1.13	867	5.22	1.44	0.46		642	5.57	1.29	0.11		1137	5.48	1.35	0.20	
Female	154	5.90	1.01	1669	5.44	1.43	0.46	0.32	1156	5.71	1.32	0.19		1407	5.79	1.25	0.11	
Diff F-M		0.22			0.22					0.14					0.31			
Spring 1998	92	5.65	1.36	1232	5.51	1.36	0.14		537	5.67	1.30	-0.02		592	5.54	1.35	0.11	
Male	22	4.91	1.72	452	5.37	1.40	-0.46		300	5.54	1.33	-0.63		253	5.46	1.36	-0.55	
Female	70	5.89	1.15	780	5.60	1.32	0.29		235	5.84	1.24	0.05		338	5.60	1.33	0.29	
Diff F-M		0.98			0.23					0.30					0.14			
Spring 1999	492	5.85	1.14	3068	5.73	1.27	0.12		323	5.90	1.13	-0.05		257	5.89	1.25	-0.04	
Male	96	5.75	1.20	1040	5.62	1.33	0.13		124	5.85	1.22	-0.10		112	5.80	1.17	-0.05	
Female	393	5.87	1.12	2004	5.79	1.23	0.08		196	5.92	1.07	-0.05		144	5.95	1.30	-0.08	
Diff F-M		0.12	=		0.17					0.07					0.15			
Spring 2000	187	5.87	1.21	3367	5.62	1.32	0.25		29	5.59	1.27	0.28		703	5.89	1.19	-0.02	
Male	50	5.86	1.05	1114	5.55	1.34	0.31		8	5.00	1.41	0.86		306	5.84	1.19	0.02	
Female	136	5.87	1.28	2210	5.67	1.31	0.20		21	5.81	1.17	0.06		363	5.92	1.21	-0.05	
Diff F-M		0.01			0.12					0.81					0.08			

Scale: Helpful, Considerate, Flexible = 7 to Rigid, Impersonal, Bound by Regulations = 1

Relationships with administrative	Truman			Compreher	sive Colleg	e & Univ	TRU	-CCU	Selective Li	beral Arts C	olleges	TRU	J-SLA	General Lil	beral Arts Co	olleges	TRU-	GLA
personnel and offices	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.05	1.27	2538	4.57	1.59	0.48	0.30	1795	4.63	1.50	0.42	0.28	2544	4.80	1.48	0.25	
Male	71	5.00	1.26	866	4.55	1.58	0.45		640	4.44	1.54	0.56	0.36	1136	4.60	1.56	0.40	
Female	154	5.07	1.27	1669	4.58	1.60	0.49	0.31	1155	4.74	1.47	0.33		1403	4.96	1.40	0.11	
Diff F-M		0.07			0.03					0.30					0.36			
Spring 1998	92	4.62	1.55	1231	4.76	1.50	-0.14		534	4.68	1.58	-0.06		592	4.90	1.52	-0.28	
Male	22	4.00	1.9	452	4.73	1.53	-0.73		298	4.62	1.65	-0.62		253	4.66	1.56	-0.66	
Female	70	4.81	1.38	779	4.78	1.48	0.03		234	4.75	1.47	0.06		338	5.09	1.45	-0.28	
Diff F-M		0.81			0.05					0.13					0.43			
Spring 1999	493	4.97	1.34	3068	4.86	1.42	0.11		323	5.18	1.31	-0.21		256	5.34	1.45	-0.37	-0.26
Male	97	4.80	1.29	1040	4.88	1.41	-0.08		124	5.19	1.25	-0.39		111	5.19	1.47	-0.39	
Female	393	5.01	1.36	2004	4.85	1.42	0.16		196	5.19	1.32	-0.18		144	5.44	1.42	-0.43	-0.30
Diff F-M		0.21			-0.03					0.00					0.25	_		
Spring 2000	187	5.01	1.52	3365	4.81	1.47	0.20		30	4.70	1.49	0.31		703	5.21	1.38	-0.20	
Male	50	4.92	1.58	1114	4.79	1.48	0.13		8	4.63	1.30	0.29		306	5.02	1.39	-0.10	
Female	136	5.03	1.50	2208	4.81	1.47	0.22		22	4.73	1.58	0.30		363	5.34	1.37	-0.31	
Diff F-M		0.11			0.02					0.10					0.32			

## Scale: Approachable, Helpful, Understanding, Encouraging = 7 to Remote, Discouraging, Unsympathetic = 1

Relationships with faculty members	Truman			Compreher	sive College	& Univ	TRU	-CCU	Selective Li	iberal Arts C	colleges	TRU	J-SLA	General Li	beral Arts Co	olleges	TRU-	GLA
•	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.57	1.11	2539	5.09	1.45	0.48	0.33	1797	5.56	1.20	0.01		2543	5.43	1.27	0.14	
Male	71	5.41	1.13	867	4.97	1.45	0.44		641	5.43	1.23	-0.02		1134	5.22	1.37	0.19	
Female	154	5.65	1.10	1669	5.14	1.44	0.51	0.35	1156	5.62	1.17	0.03		1404	5.60	1.15	0.05	
Diff F-M		0.24			0.17					0.19					0.38			
Spring 1998	92	5.47	1.10	1232	5.21	1.36	0.26		538	5.63	1.18	-0.16		591	5.43	1.36	0.04	
Male	22	4.95	1.50	452	5.15	1.42	-0.20		300	5.55	1.23	-0.60		252	5.29	1.44	-0.34	
Female	70	5.63	0.90	780	5.24	1.32	0.39		236	5.73	1.10	-0.10		338	5.54	1.26	0.09	
Diff F-M		0.68			0.09					0.18					0.25			
Spring 1999	493	5.40	1.17	3069	5.12	1.38	0.28	0.20	323	5.62	1.15	-0.22		256	5.59	1.37	-0.19	
Male	97	5.35	1.15	1041	5.11	1.37	0.24	0.20	124	5.56	1.15	-0.21		111	5.29	1.49	0.06	
Female	393	5.42	1.18	2004	5.12	1.38	0.30	0.22	196	5.65	1.16	-0.23		144	5.82	1.22	-0.40	-0.33
Diff F-M	333	0.07	1.10	2004	0.01	1.50	0.50	0.22	130	0.09	1.10	-0.23		177	0.53	1.22	-0.40	-0.55
DIII I -IWI		0.07			0.01					0.09					0.55			
Spring 2000	187	5.39	1.22	3365	5.06	1.38	0.33	0.24	30	5.43	1.28	-0.04		704	5.45	1.30	-0.06	
Male	50	5.42	1.30	1116	5.07	1.35	0.35		8	5.50	1.20	-0.08		306	5.32	1.34	0.10	
Female	136	5.38	1.20	2206	5.05	1.39	0.33		22	5.41	1.33	-0.03		364	5.59	1.25	-0.21	
Diff F-M		-0.04			-0.02					-0.09					0.27			

# Freshman Estimate of Gains Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

#### Scale: Very Much = 4, Quite a Bit = 3, Some = 2, Very Little = 1

Third Edition (1997 & 1998) Fourth Edition (1999, 2000) Bold = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group Bold Italic = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group

**Bold** = Significant Differences (<u>Truman Means</u> differ by 0.3 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Vocational training, acquiring knowledge & skills			Truman		Compreher	nsive College	& Univ	TRU-	CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU-	-GLA
applicable to a specific job or type of work	_	N	Mean	SD	N	Mean			Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	1.70	0.79	2520	2.10	0.86	-0.40	-0.47	1791	2.06	0.82	-0.36	-0.44	2531	2.25	0.86	-0.55	-0.64
	Male Female	71 154	1.79 1.66	0.86 0.75	861 1657	2.16 2.06	0.84 0.87	-0.37 -0.40	-0.44 -0.46	641 1150	2.13 2.02	0.79 0.84	-0.34 -0.36	-0.43 -0.43	1129 1397	2.23 2.26	0.86 0.86	-0.44 -0.60	-0.51 -0.70
	Diff F-M	154	-0.13	0.75	1007	-0.10	0.87	-0.40	-0.46	1150	-0.11	0.84	-0.30	-0.43	1397	0.03	0.86	-0.60	-0.70
	DIII I -IVI		-0.13			-0.10					-0.11					0.03			
	Spring 1998	92	1.83	0.69	1230	2.09	0.81	-0.26	-0.32	536	1.91	0.80	-0.08		592	2.26	0.84	-0.43	-0.51
	Male	22	1.50	0.6	449	2.16	0.83	-0.66	-0.80	299	2.00	0.80	-0.50		253	2.31	0.84	-0.81	-0.96
	Female	70	1.93	0.69	781	2.04	0.80	-0.11		235	1.80	0.78	0.13		338	2.23	0.84	-0.30	-0.36
	Diff F-M		0.43			-0.12					-0.20					-0.08			
	Spring 1999	495	2.18	0.85	3083	2.43	0.86	-0.25	-0.29	323	2.42	0.76	-0.24	-0.32	253	2.58	0.86	-0.40	-0.47
	Male	98	2.30	0.90	1053	2.50	0.85	-0.20		124	2.56	0.77	-0.26		110	2.54	0.86	-0.24	
	Female	394	2.15	0.84	2006	2.38	0.87	-0.23	-0.26	196	2.34	0.75	-0.19		142	2.61	0.86	-0.46	-0.53
	Diff F-M		-0.15			-0.12					-0.22					0.07			
	Spring 2000	187	2.07	0.84	3357	2.38	0.85	-0.31	-0.36	30	2.40	0.86	-0.33		705	2.58	0.87	-0.51	-0.59
	Male	50	2.16	0.77	1113	2.45	0.84	-0.29		8	2.50	0.53	-0.34		305	2.62	0.81	-0.46	-0.57
	Female	136	2.03	0.86	2200	2.34	0.85	-0.31	-0.36	22	2.36	0.95	-0.33		365	2.55	0.92	-0.52	-0.57
	Diff F-M_		-0.13			-0.11					-0.14					-0.07			
Acquiring background & specialization for further	DIπ F-IM		Truman			nsive College		TRU-CCU		Selective L	iberal Arts C			-SLA		iberal Arts C		TRU	
Acquiring background & specialization for further education in professional, scientific, or scholarly field		N	Truman Mean	SD	N	nsive College Mean	SD	Mean Diff	Effect Size	N	iberal Arts C Mean	SD	Mean Diff	Effect Size	N	iberal Arts C Mean	SD	Mean Diff	Effect Size
	Fall 1997	N 225	Truman Mean 2.10	0.83	N 2513	Mean 2.29	SD 0.85	Mean Diff -0.19		N 1789	iberal Arts C Mean 2.47	SD 0.85	Mean Diff -0.37	Effect Size -0.44	N 2533	iberal Arts C Mean 2.40	SD 0.82	Mean Diff -0.30	
	Fall 1997 Male	N 225 71	Truman Mean 2.10 2.13	0.83 0.83	N 2513 857	Mean 2.29 2.28	SD 0.85 0.83	Mean Diff -0.19 -0.15	Effect Size -0.22	N 1789 640	Mean 2.47 2.45	SD 0.85 0.81	Mean Diff -0.37 -0.32	Effect Size -0.44 -0.40	N 2533 1130	Mean 2.40 2.35	SD 0.82 0.80	Mean Diff -0.30 -0.22	Effect Size -0.37
	Fall 1997 Male Female	N 225	Truman Mean 2.10 2.13 2.08	0.83	N 2513	Mean 2.29 2.28 2.29	SD 0.85	Mean Diff -0.19	Effect Size	N 1789	Mean 2.47 2.45 2.48	SD 0.85	Mean Diff -0.37	Effect Size -0.44	N 2533	Mean 2.40 2.35 2.44	SD 0.82	Mean Diff -0.30	Effect Size
	Fall 1997 Male	N 225 71	Truman Mean 2.10 2.13	0.83 0.83	N 2513 857	Mean 2.29 2.28	SD 0.85 0.83	Mean Diff -0.19 -0.15	Effect Size -0.22	N 1789 640	Mean 2.47 2.45	SD 0.85 0.81	Mean Diff -0.37 -0.32	Effect Size -0.44 -0.40	N 2533 1130	Mean 2.40 2.35	SD 0.82 0.80	Mean Diff -0.30 -0.22	Effect Size -0.37
	Fall 1997 Male Female	N 225 71 154	Truman Mean 2.10 2.13 2.08 -0.05	0.83 0.83 0.84	N 2513 857 1653	Mean 2.29 2.28 2.29 0.01 2.33	SD 0.85 0.83 0.86	Mean Diff -0.19 -0.15 -0.21	Effect Size -0.22	N 1789 640 1149	Mean 2.47 2.45 2.48 0.03 2.60	SD 0.85 0.81 0.88	Mean Diff -0.37 -0.32 -0.40	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398	iberal Arts C Mean 2.40 2.35 2.44 0.09	SD 0.82 0.80 0.83	Mean Diff -0.30 -0.22 -0.36	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male	N 225 71 154 92 22	Truman  Mean 2.10 2.13 2.08 -0.05  2.29 2.05	0.83 0.83 0.84 0.82 0.72	N 2513 857 1653 1230 449	Mean 2.29 2.28 2.29 0.01 2.33 2.34	SD 0.85 0.83 0.86 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29	Effect Size -0.22	N 1789 640 1149 536 299	Mean 2.47 2.45 2.48 0.03 2.60 2.58	SD 0.85 0.81 0.88 0.88	-0.31 -0.53	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.35 2.35	SD 0.82 0.80 0.83 0.83	-0.06 -0.33	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female	N 225 71 154	Truman  Mean 2.10 2.13 2.08 -0.05  2.29 2.05 2.37	0.83 0.83 0.84	N 2513 857 1653	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32	SD 0.85 0.83 0.86	Mean Diff -0.19 -0.15 -0.21	Effect Size -0.22	N 1789 640 1149	Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63	SD 0.85 0.81 0.88	Mean Diff -0.37 -0.32 -0.40	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.35 2.38 2.33	SD 0.82 0.80 0.83	Mean Diff -0.30 -0.22 -0.36	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male	N 225 71 154 92 22	Truman  Mean 2.10 2.13 2.08 -0.05  2.29 2.05	0.83 0.83 0.84 0.82 0.72	N 2513 857 1653 1230 449	Mean 2.29 2.28 2.29 0.01 2.33 2.34	SD 0.85 0.83 0.86 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29	Effect Size -0.22	N 1789 640 1149 536 299	Mean 2.47 2.45 2.48 0.03 2.60 2.58	SD 0.85 0.81 0.88 0.88	-0.31 -0.53	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.35 2.35	SD 0.82 0.80 0.83 0.83	-0.06 -0.33	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female	N 225 71 154 92 22	Truman  Mean 2.10 2.13 2.08 -0.05  2.29 2.05 2.37 0.32	0.83 0.83 0.84 0.82 0.72 0.84	N 2513 857 1653 1230 449 781	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47	SD 0.85 0.83 0.86 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29	Effect Size -0.22	N 1789 640 1149 536 299	iberal Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05	0.85 0.81 0.88 0.88 0.88 0.89	-0.31 -0.53	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338	Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56	0.82 0.80 0.83 0.83 0.84 0.82	-0.30 -0.22 -0.36 -0.06 -0.33 0.04	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	N 225 71 154 92 22 70 494 98	Truman  Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49	0.83 0.84 0.82 0.72 0.84 0.83 0.74	N 2513 857 1653 1230 449 781 3080 1052	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50	0.85 0.83 0.86 0.82 0.82 0.82 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05 -0.01 -0.01	Effect Size -0.22	N 1789 640 1149 536 299 235	iberal Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60	0.85 0.81 0.88 0.88 0.88 0.89	-0.37 -0.32 -0.40 -0.31 -0.53 -0.26	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55	0.82 0.80 0.83 0.83 0.84 0.82	-0.30 -0.22 -0.36 -0.06 -0.33 -0.04	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female	N 225 71 154 92 22 70	Truman Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49 2.45	0.83 0.83 0.84 0.82 0.72 0.84	N 2513 857 1653 1230 449 781	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50 2.45	0.85 0.83 0.86 0.82 0.82 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05	Effect Size -0.22	N 1789 640 1149 536 299 235	iberal Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60 2.34	0.85 0.81 0.88 0.88 0.88 0.89	Mean Diff -0.37 -0.32 -0.40 -0.31 -0.53 -0.26	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55 2.56	0.82 0.80 0.83 0.83 0.84 0.82	-0.30 -0.22 -0.36 -0.06 -0.33 0.04	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male	N 225 71 154 92 22 70 494 98	Truman  Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49	0.83 0.84 0.82 0.72 0.84 0.83 0.74	N 2513 857 1653 1230 449 781 3080 1052	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50	0.85 0.83 0.86 0.82 0.82 0.82 0.82	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05 -0.01 -0.01	Effect Size -0.22	N 1789 640 1149 536 299 235	iberal Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60	0.85 0.81 0.88 0.88 0.88 0.89	-0.37 -0.32 -0.40 -0.31 -0.53 -0.26	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55	0.82 0.80 0.83 0.83 0.84 0.82	-0.30 -0.22 -0.36 -0.06 -0.33 -0.04	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female	N 225 71 154 92 22 70 494 98	Truman Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49 2.45 -0.04 2.38	0.83 0.84 0.82 0.72 0.84 0.83 0.74 0.85	N 2513 857 1653 1230 449 781 3080 1052 2004 3353	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50 2.45 -0.05 2.38	0.85 0.83 0.86 0.82 0.82 0.82 0.82 0.83 0.80 0.85	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05 -0.01 -0.01 0.00	Effect Size -0.22	N 1789 640 1149 536 299 235	beral Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60 2.34 -0.26	SD 0.85 0.81 0.88 0.88 0.89 0.76 0.73 0.76	Mean Diff -0.37 -0.32 -0.40  -0.31 -0.53 -0.26  0.02 -0.11 0.11	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338 253 110 142 705	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55 2.56 0.01	SD 0.82 0.80 0.83 0.83 0.84 0.82 0.84 0.85 0.82 0.84	Mean Diff -0.30 -0.22 -0.36 -0.06 -0.33 0.04 -0.10 -0.10 -0.06 -0.11	Effect Size -0.37
	Fall 1997 Male Female Diff F-M  Spring 1998 Male Female Diff F-M  Spring 1999 Male Female Diff F-M	N 225 71 154 92 22 70 494 98 393 187 50	Truman Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49 2.45 -0.04 2.38 2.44	0.83 0.83 0.84 0.82 0.72 0.84 0.83 0.74 0.85	N 2513 857 1653 1230 449 781 3080 1052 2004 3353 1109	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50 2.45 -0.05 2.38 2.43	0.85 0.83 0.86 0.82 0.82 0.82 0.82 0.83 0.85	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05 -0.01 -0.01 0.00 0.00	Effect Size -0.22	N 1789 640 1149 536 299 235 323 124 196	beral Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60 2.34 -0.26 2.67 2.63	0.85 0.81 0.88 0.88 0.89 0.76 0.73 0.76	Mean Diff -0.37 -0.32 -0.40  -0.31 -0.53 -0.26  0.02 -0.11 0.11  -0.29 -0.19	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338 253 110 142 705 305	Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55 2.56 0.01 2.50 2.53	SD 0.82 0.80 0.83 0.83 0.84 0.82 0.84 0.85 0.82	Mean Diff -0.30 -0.22 -0.36 -0.06 -0.33 0.04 -0.10 -0.06 -0.11 -0.12 -0.19	Effect Size -0.37
	Fall 1997 Male Female Diff F-M Spring 1998 Male Female Diff F-M Spring 1999 Male Female Diff F-M Spring 2000	N 225 71 154 92 22 70 494 98 393	Truman Mean 2.10 2.13 2.08 -0.05 2.29 2.05 2.37 0.32 2.46 2.49 2.45 -0.04 2.38	0.83 0.84 0.82 0.72 0.84 0.83 0.74 0.85	N 2513 857 1653 1230 449 781 3080 1052 2004 3353	Mean 2.29 2.28 2.29 0.01 2.33 2.34 2.32 -0.02 2.47 2.50 2.45 -0.05 2.38	0.85 0.83 0.86 0.82 0.82 0.82 0.82 0.83 0.80 0.85	Mean Diff -0.19 -0.15 -0.21 -0.04 -0.29 0.05 -0.01 -0.01 0.00	Effect Size -0.22	N 1789 640 1149 536 299 235 323 124 196	beral Arts C Mean 2.47 2.45 2.48 0.03 2.60 2.58 2.63 0.05 2.44 2.60 2.34 -0.26	SD 0.85 0.81 0.88 0.88 0.89 0.76 0.73 0.76	Mean Diff -0.37 -0.32 -0.40  -0.31 -0.53 -0.26  0.02 -0.11 0.11	Effect Size -0.44 -0.40 -0.45	N 2533 1130 1398 592 253 338 253 110 142 705	iberal Arts C Mean 2.40 2.35 2.44 0.09 2.35 2.38 2.33 -0.05 2.56 2.55 2.56 0.01	SD 0.82 0.80 0.83 0.83 0.84 0.82 0.84 0.85 0.82 0.84	Mean Diff -0.30 -0.22 -0.36 -0.06 -0.33 0.04 -0.10 -0.10 -0.06 -0.11	Effect Size -0.37

Gaining a broad general education about different	Г		Truman		Comprehen	sive College	& Univ	TRU-CO	CU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU-	GLA
fields of knowledge		N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	225 71	2.62 2.48	0.88 0.83	2516 858	2.55 2.52	0.80 0.80	0.07 -0.04		1786 639	2.89 2.79	0.79 0.78	-0.27 -0.31	-0.34 -0.40	2530 1129	2.66 2.58	0.81 0.80	-0.04 -0.10	
	Female	154	2.48	0.63	1655	2.52	0.80	0.11		1147	2.79	0.78	-0.37	-0.40	1396	2.36	0.80	-0.10	
	Diff F-M		0.20			0.05		****			0.16					0.14			
	Spring 1998 Male	92 22	2.72 2.45	0.72 0.67	1231 449	2.65 2.61	0.81 0.81	0.07 -0.16		537 300	2.99 2.97	0.78 0.78	-0.27 -0.52	-0.35 <b>-0.67</b>	591 252	2.63 2.58	0.80 0.79	0.09 -0.13	
	Female	70	2.80	0.71	782	2.68	0.81	0.12		235	3.02	0.78	-0.22	-0.07	338	2.67	0.80	0.13	
	Diff F-M		0.35			0.07					0.05					0.09			
	Carina 1000	405	2.00	0.70	2072	0.74	0.70	0.45	0.40	323	2.02	0.74	0.00		253	0.77	0.70	0.12	
	Spring 1999 Male	495 98	2.89 2.86	0.79 0.81	3072 1047	2.74 2.68	0.78 0.78	<b>0.15</b> 0.18	0.19	323 124	2.92 3.01	0.74 0.70	-0.03 -0.15		253 110	2.77 2.74	0.78 0.79	0.12	
	Female	394	2.91	0.78	2001	2.76	0.78	0.15	0.19	196	2.86	0.77	0.05		142	2.80	0.78	0.11	
	Diff F-M		0.05			0.08					-0.15					0.06			
	Spring 2000	186	2.91	0.71	3345	2.70	0.79	0.21	0.27	30	2.70	0.84	0.21		703	2.71	0.81	0.20	0.25
	Male	50	2.76	0.72	1109	2.69	0.76	0.07	0.21	8	3.13	0.64	-0.37		303	2.67	0.82	0.09	0.23
	Female	135	2.96	0.71	2192	2.70	0.80	0.26	0.33	22	2.55	0.86	0.41		365	2.74	0.81	0.22	
	Diff F-M		0.20		0	0.01	0.11-2	TRU-CO	211	0-1	-0.58 iberal Arts C		TDU		0	0.07		TRU-	21.4
Gaining a range of information that may be relevant to a career	L	N	Truman Mean	SD	Comprehen N	sive College Mean			ffect Size	Selective L N	Mean	solleges SD	Mean Diff	-SLA Effect Size	General L N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.33	0.83	2520	2.55	0.83	-0.22	-0.27	1786	2.68	0.80	-0.35	-0.44	2525	2.67	0.82	-0.34	-0.41
	Male	71	2.25	0.73	858	2.51	0.82	-0.26		638	2.62	0.80	-0.37	-0.46	1129	2.58	0.83	-0.33	-0.40
	Female Diff F-M	154	2.36 0.11	0.87	1659	2.57 0.06	0.83	-0.21	-0.25	1148	2.71 0.09	0.81	-0.35	-0.43	1391	2.74 0.16	0.80	-0.38	-0.48
	DIII I -IWI		0.11			0.00					0.03					0.10			
	Spring 1998	92	2.50	0.72	1227	2.56	0.79	-0.06		537	2.61	0.83	-0.11		592	2.68	0.87	-0.18	
	Male Female	22 70	2.23 2.59	0.43 0.77	448 779	2.55 2.56	0.81 0.78	-0.32 0.03		300 235	2.60 2.64	0.81 0.84	-0.37 -0.05		253 338	2.64 2.72	0.87 0.86	-0.41 -0.13	
	Diff F-M	70	0.36	0.77	119	0.01	0.76	0.03		233	0.04	0.04	-0.05		330	0.08	0.00	-0.13	
																	_		
	Spring 1999	494	2.51	0.85	3067	2.70	0.82	-0.19	-0.23	323	2.75	0.77	-0.24	-0.31	251	2.86	0.76	-0.35	-0.46
	Male Female	98 393	2.56 2.50	0.86 0.85	1048 1997	2.69 2.70	0.81 0.83	-0.13 <b>-0.20</b>	-0.24	124 196	2.81 2.70	0.73 0.80	-0.25 -0.20		109 141	2.89 2.83	0.79 0.75	-0.33 <b>-0.33</b>	-0.44
	Diff F-M	333	-0.06	0.00	1337	0.01	0.03	-0.20	-0.24	130	-0.11	0.00	-0.20		171	-0.06	0.73	-0.55	-0.44
																	_		
	Spring 2000 Male	186 50	2.49 2.44	0.88 0.79	3344 1109	2.59 2.62	0.85 0.86	-0.10 -0.18		30 8.00	2.73 2.88	0.94 0.83	-0.24 -0.44		702 304	2.81 2.76	0.83 0.80	<b>-0.32</b> -0.32	-0.39
	Female	135	2.50	0.79	2193	2.58	0.85	-0.18		22.00	2.68	0.83	-0.44		363	2.76	0.86	-0.32 - <b>0.35</b>	-0.41
	Diff F-M		0.06			-0.04					-0.20					0.09	_		
Developing an understanding and enjoyment of art,	L		Truman	0.0	Comprehen	sive College	& Univ	TRU-CO		Selective L				I-SLA	General L	iberal Arts C		TRU-	
music, and drama	Fall 1997	N 225	Mean 2.03	SD 0.95	N 2515	Mean 1.98	SD N 0.98	/lean Diff Et 0.05	ffect Size	N 1782	Mean 2.33	SD 1.01	Mean Diff -0.30	Effect Size -0.30	N 2523	Mean 2.03	SD 1.01	Mean Diff 0.00	Effect Size
	Male	71	1.90	0.8	857	1.95	0.93	-0.05		637	2.17	0.97	-0.27	0.00	1126	1.93	0.98	-0.03	
	Female	154	2.08	1.01	1656	2.00	1.00	0.08		1145	2.41	1.03	-0.33	-0.32	1392	2.12	1.03	-0.04	
	Diff F-M		0.18			0.05					0.24					0.19			
	Spring 1998	92	2.36	0.92	1227	1.97	0.94	0.39	0.41	537	2.28	0.97	0.08		591	2.07	0.98	0.29	
	Male	22	2.14	0.94	447	2.06	0.98	0.08		300	2.11	0.95	0.03		252	2.02	0.94	0.12	
	Female Diff F-M	70	2.43 0.29	0.91	780	1.92 -0.14	0.91	0.51	0.56	235	2.50 0.39	0.96	-0.07		338	2.12 0.10	1.00	0.31	
	DIII F-IVI		0.29			-0.14					0.39					0.10			
	Spring 1999	493	2.38	0.97	3071	2.12	0.97	0.26	0.27	323	2.33	1.00	0.05		253	2.27	0.97	0.11	
	Male	98	2.30	0.97	1049	2.04	0.94	0.26	0.05	124	2.19	0.98	0.11		110	2.28	0.93	0.02	
	Female Diff F-M	393	2.41 0.11	0.97	1998	2.16 0.12	0.99	0.25	0.25	196	2.44 0.25	1.00	-0.03		142	2.26 -0.02	1.00	0.15	
																	_		
	Spring 2000	186	2.46	0.91	3350	2.20	0.99	0.26	0.26	30	1.97	0.89	0.49		703	2.12	1.05	0.34	0.32
	Male Female	50 135	2.26 2.53	0.88 0.92	1110 2196	2.13 2.23	0.97 0.99	0.13 <b>0.30</b>	0.30	8 22	2.00 1.95	0.93 0.90	0.26 0.58		305 363	1.98 2.22	1.02 1.07	0.28 <b>0.31</b>	0.29
	Diff F-M	100	0.27	0.02	2100	0.10	0.00	0.00	5.50	22	-0.05	5.50	0.50		505	0.24	1.07	0.01	0.20

Production of the Control of the Con	ı		Tu. 194 - 1		On many series	anius Calla	0 11-1	TDU	2011	Calantina	ih anal Anto O	Nella e e e	TE	LCLA	Constraint	ib and Arts O	alla a c	TD:	CLA
Broadening your acquaintance and enjoyment of literature	<u>l</u>	N	Truman Mean	SD	Compreher N	nsive College Mean	SD SD	TRU-0	Effect Size	Selective L	iberal Arts C Mean	SD SD	Mean Diff	I-SLA Effect Size	General L N	iberal Arts C Mean	olleges SD	TRU- Mean Diff	GLA Effect Size
interature	Fall 1997	222	1.99	0.88	2510	2.02	0.87	-0.03	Lifect Size	1783	2.35	0.89	-0.36	-0.40	2526	2.09	0.89	-0.10	Lilect Size
	Male	69	1.93	0.83	856	2.00	0.85	-0.07		637	2.20	0.85	-0.27	0.10	1128	1.97	0.86	-0.04	
	Female	153	2.02	0.90	1651	2.02	0.88	0.00		1146	2.43	0.90	-0.41	-0.46	1393	2.18	0.91	-0.16	
	Diff F-M		0.09			0.02					0.23					0.21			
	Ci 1000	00	0.44	0.00	4007	2.07	0.00	0.04		507	0.40	0.00	0.20	0.24	500	0.40	0.00	0.00	
	Spring 1998 Male	92 22	2.11 2.00	0.86 0.76	1227 449	2.07 2.10	0.88	0.04 -0.10		537 300	2.40 2.30	0.93 0.89	<b>-0.29</b> -0.30	-0.31	590 253	2.13 2.05	0.86 0.85	-0.02 -0.05	
	Female	70	2.14	0.89	778	2.05	0.88	0.09		235	2.53	0.03	-0.39	-0.40	336	2.19	0.87	-0.05	
	Diff F-M		0.14			-0.05					0.23					0.14			
							_												
	Spring 1999	495	2.26	0.91	3068	2.14	0.89	0.12	0.13	323	2.33	0.86	-0.07		253	2.32	0.92	-0.06	
	Male	98 394	2.29 2.26	0.87 0.92	1044 2000	2.06 2.17	0.86 0.89	0.23 0.09		124 196	2.27 2.37	0.91 0.83	0.02 -0.11		110 142	2.33 2.32	0.88 0.95	-0.04 -0.06	
	Female Diff F-M	394	-0.03	0.92	2000	0.11	0.09	0.09		190	0.10	0.63	-0.11		142	-0.01	0.95	-0.06	
	Dill'I W		0.00			0.11					0.10					0.01			
	Spring 2000	187	2.19	0.91	3348	2.16	0.88	0.03		30	2.23	1.04	-0.04		704	2.15	0.93	0.04	
	Male	50	2.20	0.88	1108	2.14	0.87	0.06		8	2.63	0.92	-0.43		305	2.00	0.90	0.20	
	Female	136	2.19	0.92	2196	2.17	0.89	0.02		22	2.09	1.06	0.10		364	2.24	0.94	-0.05	
Seeing the importance of history for understanding	Diff F-M		-0.01 Truman		Compreher	0.03	V I Inju	TRU-0	CCLL	Coloctivo	-0.54 iberal Arts C	Collogoo	TDI	I-SLA	Conorol I	0.24 iberal Arts C	ollogoo	TRU-	CLA
the present and the past	ı	N	Mean	SD	N	Mean	SD SD		Effect Size	N	Mean	SD SD	Mean Diff	Effect Size	General L N	Mean	SD	Mean Diff	Effect Size
the present and the past	Fall 1997	225	2.01	0.91	2514	2.30	0.91	-0.29	-0.32	1780	2.43	0.89	-0.42	-0.47	2526	2.35	0.91	-0.34	-0.37
	Male	71	1.93	0.88	857	2.35	0.88	-0.42	-0.48	636	2.43	0.87	-0.50	-0.57	1127	2.35	0.88	-0.42	-0.48
	Female	154	2.05	0.93	1654	2.28	0.92	-0.23	-0.25	1144	2.42	0.90	-0.37	-0.41	1394	2.35	0.94	-0.30	-0.32
	Diff F-M		0.12			-0.07					-0.01					0.00			
	Spring 1998	90	2.22	0.86	1228	2.33	0.90	-0.11		536	2.57	0.95	-0.35	-0.37	591	2.37	0.88	-0.15	
	Male	21	1.95	0.86	449	2.48	0.88	-0.53		299.00	2.59	0.93	-0.64	-0.69	253	2.36	0.85	-0.41	
	Female	69	2.30	0.85	779	2.25	0.91	0.05		235.00	2.56	0.98	-0.26		337	2.39	0.90	-0.09	
	Diff F-M		0.35			-0.23					-0.03					0.03			
	Spring 1999	494	2.15	0.92	3076	2.24	0.91	-0.09		323	2.26	0.81	-0.11		253	2.27	0.98	-0.12	
	Male	98	2.32	0.98	1050	2.30	0.91	0.02		124	2.38	0.80	-0.06		110	2.30	0.94	0.02	
	Female	393	2.11	0.90	2002	2.20	0.91	-0.09		196	2.18	0.79	-0.07		142	2.25	1.00	-0.14	
	Diff F-M		-0.21			-0.10					-0.20					-0.05			
	Spring 2000	187	2.18	0.93	3349	2.27	0.91	-0.09		30	2.53	1.04	-0.35		703	2.29	0.94	-0.11	
	Male	50	2.42	1.03	1108	2.38	0.89	0.04		8	2.50	0.93	-0.08		305	2.27	0.90	0.15	
	Female	136	2.09	0.88	2197	2.22	0.91	-0.13		22	2.55	1.10	-0.46		364	2.31	0.98	-0.22	
	Diff F-M		-0.33			-0.16					0.05					0.04			
Gaining knowledge about other parts of the world	ļ		Truman	0.0	Compreher		& Univ	TRU-0			iberal Arts C			J-SLA	General L		onogoo	TRU-	
and other people	Fall 1997	N 224	Mean 1.94	SD 0.97	N 2511	Mean 2.10	SD 0.95	Mean Diff -0.16	Effect Size	N 1780	Mean 2.25	SD 0.94	Mean Diff -0.31	Effect Size -0.33	N 2523	Mean 2.05	SD 0.93	Mean Diff -0.11	Effect Size
	Male	71	2.10	0.99	856	2.16	0.93	-0.16		635	2.25	0.94	-0.37	-0.33	1124	2.03	0.95	0.02	
	Female	153	1.86	0.96	1652	2.07	0.96	-0.21		1145	2.26	0.95	-0.40	-0.42	1394	2.03	0.92	-0.17	
	Diff F-M		-0.24			-0.09					0.01					-0.05			
	Ci 1000	01	4.00	0.04	4007	4.07	0.00	0.00		F20	0.54	0.00	0.55	0.57	500	0.44	0.00	0.45	
	Spring 1998 Male	91 22	1.99 1.95	0.81 0.95	1227 448	1.97 2.12	0.90 0.93	0.02 -0.17		536 299	2.54 2.38	0.96 0.94	<b>-0.55</b> -0.43	-0.57	590 252	2.14 2.19	0.89 0.84	-0.15 -0.24	
	Female	69	2.00	0.33	779	1.89	0.87	0.11		235	2.74	0.94	-0.74	-0.79	337	2.09	0.93	-0.24	
	Diff F-M		0.05	0		-0.23	0.01	0		200	0.36	0.01	· · ·	0.70	001	-0.10	0.00	0.00	
	0 : 4000														0=0				
	Spring 1999	493	2.06	0.95	3071	2.11	0.91	-0.05		323	2.06	0.84	0.00		252	2.27	0.96	-0.21	
	Male Female	98 392	2.26 2.02	0.97 0.94	1047 2000	2.18 2.08	0.89 0.91	0.08 -0.06		124 196	2.06 2.05	0.81 0.85	0.20 -0.03		109 142	2.34 2.23	0.90 1.00	-0.08 -0.21	
	Diff F-M	352	-0.24	0.34	2000	-0.10	0.81	-0.00		190	-0.01	0.03	-0.03		142	-0.11	1.00	-0.21	
	2 W		J.= .			30					5.5.					2			
	Spring 2000	187	2.15	0.92	3344	2.11	0.92	0.04		29	2.34	0.94	-0.19		703	2.12	0.93	0.03	
	Male	50	2.22	0.95	1109	2.21	0.90	0.01		7	2.43	1.13	-0.21		304	2.14	0.92	0.08	
	Female Diff F-M	136	2.13 -0.09	0.91	2191	2.06 -0.15	0.93	0.07		22	2.32 -0.11	0.89	-0.19		364	2.08 -0.06	0.92	0.05	
	חווו ב-אוו		-0.09			-0.10					-0.11					-0.00			

Writing clearly and effectively	Ī		Truman		Compreher	sive College	e & Univ	TRU-C	CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	_iberal Arts C	olleges	TRU-	GLA
	•	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.30	0.86	2515	2.63	0.82	-0.33	-0.40	1785	2.75	0.84	-0.45	-0.54	2528	2.66	0.83	-0.36	-0.43
	Male	71	2.24	0.85	856	2.54	0.81	-0.30	-0.37	639	2.65	0.79	-0.41	-0.52	1129	2.53	0.81	-0.29	-0.36
	Female	154	2.33	0.87	1657	2.67	0.82	-0.34	-0.41	1146	2.80	0.86	-0.47	-0.55	1394	2.77	0.83	-0.44	-0.53
	Diff F-M		0.09			0.13					0.15					0.24			
	Spring 1998	92	2.66	0.80	1229	2.57	0.83	0.09		536	2.72	0.89	-0.06		591	2.68	0.83	-0.02	
	Male	22	2.41	0.73	449	2.53	0.83	-0.12		300	2.77	0.88	-0.36		252	2.60	0.84	-0.19	
	Female	70	2.74	0.81	780	2.59	0.84	0.15		234	2.67	0.90	0.07		338	2.75	0.82	-0.01	
	Diff F-M		0.33			0.06					-0.10					0.15			
	0 : 4000											0.70							
	Spring 1999	494 98	2.71	0.85	3063	2.75	0.83	-0.04		322	2.91	0.72	-0.20	-0.28	251	2.81	0.80	-0.10	
	Male	393	2.60 2.74	0.85 0.84	1045 1994	2.70 2.77	0.83 0.84	-0.10 -0.03		124 195	2.95 2.88	0.74 0.71	<b>-0.35</b> -0.14	-0.47	109 141	2.66 2.91	0.89 0.70	-0.06 -0.17	
	Female Diff F-M	393	0.14	0.04	1994	0.07	0.04	-0.03		195	-0.07	0.71	-0.14		141	0.25	0.70	-0.17	
	DIII I -IVI		0.14			0.07					-0.07					0.23			
	Spring 2000	187	2.71	0.85	3342	2.78	0.82	-0.07		30	2.80	0.81	-0.09		702	2.91	0.81	-0.20	-0.25
	Male	50	2.60	0.88	1104	2.74	0.81	-0.14		8	2.38	0.52	0.22		304	2.87	0.77	-0.27	
	Female	136	2.74	0.83	2194	2.80	0.82	-0.06		22	2.95	0.84	-0.21		364	2.95	0.85	-0.21	
	Diff F-M		0.14			0.06	0.11.1		2011	0 1 11 1	0.57			0.4		0.08			0.1
Speaking effectively	l	N	Truman	SD.	Compreher N		e & Univ	TRU-C	Effect Size	N Selective L	iberal Arts C	SD SD		-SLA Effect Size	General L N	Liberal Arts C	SD SD	TRU- Mean Diff	
	Fall 1997	iN *	Mean *	SD *	iN *	Mean *	SD *	wean Dill	Ellect Size	IN *	Mean *	ж ЭD	Mean Diff	Ellect Size	IN *	Mean *	ж эр	wean Dill	Effect Size
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Opining 1000																		
	Spring 1999	493	2.66	0.84	3067	2.59	0.83	0.07		323	2.74	0.76	-0.08		252	2.73	0.84	-0.07	
	Male	98	2.63	0.84	1046	2.58	0.82	0.05		124	2.76	0.75	-0.13		110	2.60	0.86	0.03	
	Female	392	2.67	0.84	1997	2.59	0.84	0.08		196	2.72	0.75	-0.05		141	2.82	0.82	-0.15	
	Diff F-M		0.04			0.01					-0.04					0.22			
	Spring 2000	187	2.55	0.87	3349	2.58	0.85	-0.03		30	2.63	0.81	-0.08		700	2.76	0.86	-0.21	-0.24
	Male	50	2.44	0.91	1110	2.55	0.83	-0.11		8.00	2.63	0.52	-0.19		302	2.67	0.84	-0.23	
	Female	136	2.58	0.87	2195	2.59	0.87	-0.01		22.00	2.64	0.90	-0.06		363	2.83	0.89	-0.25	-0.28
	Diff F-M		0.14			0.04					0.01					0.16			
Acquiring familiarity with the use of computers			Truman			sive College		TRU-C			iberal Arts C			-SLA	General L			TRU-	
	F-II 4007	N	Mean	SD	N	Mean			Effect Size	N 4700	Mean	SD	Mean Diff	Effect Size	N 0547	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225 71	2.53 2.44	0.82 0.82	2492	2.53 2.51	0.95	0.00		1780	2.71 2.62	0.87	<b>-0.18</b> -0.18	-0.21	2517	2.63 2.59	0.91	-0.10	
	Male Female	154	2.44	0.82	849 1642	2.54	0.93 0.95	-0.07 0.03		639 1141	2.02	0.86 0.87	-0.16		1122 1390	2.59	0.92 0.90	-0.15 -0.08	
	Diff F-M	154	0.13	0.02	1042	0.03	0.55	0.03		1171	0.14	0.07	-0.13		1550	0.06	0.30	-0.00	
	5		0.10			0.00					0					0.00			
	Spring 1998	92	2.59	0.89	1218	2.58	0.91	0.01		533	2.61	0.94	-0.02		588	2.71	0.90	-0.12	
	Male	22	2.36	1.00	444	2.49	0.90	-0.13		297	2.60	0.91	-0.24		253	2.66	0.90	-0.30	
	Female	70	2.66	0.85	774	2.63	0.90	0.03		234	2.62	0.99	0.04		334	2.76	0.89	-0.10	
	Diff F-M		0.30			0.14					0.02					0.10			
	Spring 1999	493	2.83	0.89	3068	2.94	0.89	-0.11		322	2.91	0.86	-0.08		252	2.92	0.86	-0.09	
	Male	97	2.79	0.80	1048	2.93	0.88	-0.14		124	2.85	0.87	-0.06		109	2.83	0.92	-0.04	
	Female	393	2.84	0.90	1996	2.94	0.89	-0.10		195	2.94	0.87	-0.10		142	2.98	0.81	-0.14	
	Diff F-M		0.05			0.01					0.09					0.15			
	Spring 2000	187	2.81	0.89	3347	2.82	0.91	-0.01		30	2.53	0.78	0.28		703	3.05	0.87	-0.24	-0.28
	Male	50	2.64	0.88	1107	2.86	0.91	-0.22		8	2.63	0.74	0.01		305	3.06	0.85	-0.42	-0.49
	Female	136	2.88	0.89	2196	2.80	0.91	0.08		22	2.50	0.80	0.38		363	3.04	0.90	-0.16	
	Diff F-M		0.24			-0.06					-0.13					-0.02			

Becoming aware of different philosophies, cultures,	ſ		Truman		Compreher	nsive College	e & Univ	TRU-CO	CU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	Colleges	TRU-	GLA
and ways of life	•	N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD		Effect Size
	Fall 1997	221	2.33	0.90	2488	2.39	0.90	-0.06		1770	2.65	0.86	-0.32	-0.37	2503	2.46	0.91	-0.13	
	Male Female	69 152	2.28 2.36	0.86 0.92	843 1643	2.37 2.40	0.87 0.91	-0.09 -0.04		629 1141	2.56 2.70	0.84 0.87	-0.28 <b>-0.34</b>	-0.39	1112 1386	2.37 2.54	0.89 0.91	-0.09 -0.18	
	Diff F-M	132	0.08	0.92	1043	0.03	0.91	-0.04		1141	0.14	0.67	-0.34	-0.39	1300	0.17	0.91	-0.16	
	5		0.00			0.00					0					0			
	Spring 1998	91	2.35	0.81	1215	2.47	0.87	-0.12		537	2.85	0.87	-0.50	-0.57	584	2.43	0.87	-0.08	
	Male	21	2.14	0.79	447	2.49	0.86	-0.35		300	2.69	0.86	-0.55	-0.64	251	2.36	0.84	-0.22	
	Female Diff F-M	70	2.41 0.27	0.81	768	2.45 -0.04	0.88	-0.04		235	3.04 0.35	0.84	-0.63	-0.75	332	2.48 0.12	0.89	-0.07	
	DIII I -IVI		0.27			-0.04					0.55					0.12			
	Spring 1999	494	2.49	0.92	3076	2.51	0.87	-0.02		323	2.61	0.84	-0.12		253	2.60	0.88	-0.11	
	Male	97	2.46	0.97	1049	2.51	0.85	-0.05		124	2.60	0.87	-0.14		110	2.51	0.84	-0.05	
	Female	394	2.50	0.90	2003	2.51	0.88	-0.01		196	2.59	0.81	-0.09		142	2.69	0.90	-0.19	
	Diff F-M		0.04			0.00					-0.01					0.18			
	Spring 2000	187	2.47	0.85	3348	2.47	0.87	0.00		30	2.97	0.93	-0.50	-0.54	702	2.51	0.94	-0.04	
	Male	50	2.46	0.84	1108	2.47	0.85	-0.01		8	3.25	0.89	-0.79		305	2.46	0.92	0.00	
	Female	136	2.47	0.86	2196	2.48	0.88	-0.01		22	2.86	0.94	-0.39		362	2.54	0.95	-0.07	
Developing your own values and ethical standards	Diff F-M		0.01 Truman		Compreher	0.01	e & Univ	TRU-CO	ווי	Selective L	-0.39 iberal Arts C	olleges	TDII	-SLA	General L	0.08	Collogoe	TRU-	21.4
Developing your own values and ennear standards	ı	N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.35	0.82	2508	2.55	0.92	-0.20	-0.22	1787	2.72	0.85	-0.37	-0.44	2527	2.63	0.89	-0.28	-0.31
	Male	71	2.25	0.82	854	2.42	0.91	-0.17		640	2.59	0.84	-0.34	-0.40	1127	2.49	0.89	-0.24	
	Female	154	2.40	0.81	1651	2.62	0.91	-0.22	-0.24	1147	2.79	0.85	-0.39	-0.46	1395	2.75	0.87	-0.35	-0.40
	Diff F-M		0.15			0.20					0.20					0.26			
	Spring 1998	92	2.50	0.85	1227	2.55	0.88	-0.05		536	2.79	0.93	-0.29	-0.31	591	2.59	0.89	-0.09	
	Male	22	2.14	0.89	448	2.49	0.89	-0.35		299	2.65	0.94	-0.51		252	2.49	0.86	-0.35	
	Female	70	2.61	0.80	779	2.58	0.87	0.03		235	2.97	0.88	-0.36	-0.41	338	2.66	0.90	-0.05	
	Diff F-M		0.47			0.09					0.32					0.17			
	Spring 1999	494	2.74	0.92	3071	2.74	0.90	0.00		323	2.85	0.84	-0.11		253	2.78	0.86	-0.04	
	Male	98	2.55	0.94	1047	2.65	0.90	-0.10		124	2.79	0.86	-0.24		110	2.61	0.88	-0.06	
	Female	393	2.79	0.90	2000	2.78	0.90	0.01		196	2.87	0.83	-0.08		142	2.91	0.82	-0.12	
	Diff F-M		0.24			0.13					0.08					0.30			
	Spring 2000	187	2.86	0.92	3343	2.69	0.90	0.17		30	2.83	0.99	0.03		700	2.80	0.93	0.06	
	Male	50	2.74	0.83	1106	2.60	0.89	0.14		8	2.88	0.99	-0.14		303	2.70	0.92	0.04	
	Female Diff F-M	136	2.90	0.95	2193	2.73	0.90	0.17		22	2.82	1.01	0.08		362	2.88	0.95	0.02	
Understanding yourselfyour abilities, interests,	DIII F-IVI		0.16 Truman		Compreher	0.13	e & Univ	TRU-CO	CU	Selective I	-0.06 iberal Arts C	olleges	TRU	-SLA	General L	0.18 iberal Arts C	Colleges	TRU-	A LE
and personality		N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.56	0.87	2510	2.77	0.89	-0.21	-0.24	1784	2.87	0.88	-0.31	-0.35	2525	2.85	0.87	-0.29	-0.33
	Male	71	2.39	0.85	854	2.59	0.89	-0.20	0.05	640	2.71	0.85	-0.32	-0.38	1125	2.68	0.89	-0.29	0.40
	Female Diff F-M	154	2.64 0.25	0.87	1653	2.86 0.27	0.88	-0.22	-0.25	1144	2.96 0.25	0.88	-0.32	-0.36	1395	2.99 0.31	0.83	-0.35	-0.42
	Dill'I W		0.20			0.21					0.20					0.01			
	Spring 1998	92	2.70	0.91	1227	2.75	0.86	-0.05		537	2.94	0.87	-0.24		592	2.77	0.91	-0.07	
	Male	22	2.18	0.85	448 779	2.63	0.84	-0.45		300	2.80	0.90	-0.62	-0.69	253 338	2.62	0.91	-0.44	
	Female Diff F-M	70	2.86 0.68	0.87	779	2.82 0.19	0.86	0.04		235	3.11 0.31	0.81	-0.25		336	2.89 0.27	0.89	-0.03	
	DIII I -IVI	•	0.00			0.13					0.51					0.27			
	Spring 1999	495	2.92	0.82	3069	3.00	0.84	-0.08		323	3.04	0.73	-0.12		250	3.04	0.79	-0.12	
	Male	98	2.67	0.89	1047	2.91	0.83	-0.24		124	3.02	0.69	-0.35	-0.51	108	2.84	0.82	-0.17	
	Female Diff F-M	394	2.98 0.31	0.79	1998	3.04 0.13	0.84	-0.06		196	3.06 0.04	0.76	-0.08		141	3.18 0.34	0.74	-0.20	
	וווע -וווע		0.01			5.15					3.04					0.54			
	Spring 2000	187	2.97	0.82	3345	2.96	0.83	0.01		30	2.83	0.79	0.14		702	3.09	0.84	-0.12	
	Male	50	2.74	0.78	1110	2.85	0.82	-0.11		8	3.00	0.53	-0.26		305	3.04	0.85	-0.30	
	Female Diff F-M	136	3.05 0.31	0.83	2191	3.01 0.16	0.83	0.04		22	2.77 -0.23	0.87	0.28		362	3.13 0.09	0.84	-0.08	
	- IVI		7.01			5.10					0.20					0.03			

Understanding other page 1s and the skilling of			Truman		Comproher	neivo Colloga	2 I Iniu	TRU-C	·CII	Solootiva !	iboral Arta C	olloges	TDU	-SLA	Conoral	ihoral Arto C	olloges	TRU	CLA
Understanding other people and the ability to get along with different kinds of people	L	N	Mean	SD	<u>Somprener</u> N	nsive College Mean			ffect Size	N Selective L	iberal Arts C Mean	SD	Mean Diff	-SLA Effect Size	N General L	iberal Arts C Mean	SD	Mean Diff	Effect Size
along wan universal amoust of people	Fall 1997	225	2.64	0.80	2511	2.80	0.85	-0.16	-0.19	1779	2.91	0.78	-0.27	-0.35	2524	2.86	0.81	-0.22	-0.27
	Male	71	2.45	0.81	852	2.63	0.85	-0.18		637	2.73	0.74	-0.28	-0.38	1125	2.70	0.82	-0.25	
	Female	154	2.72	0.79	1656	2.88	0.84	-0.16		1142	3.00	0.79	-0.28	-0.35	1394	3.00	0.78	-0.28	-0.36
	Diff F-M		0.27			0.25					0.27					0.30			
	Spring 1998	92	2.75	0.79	1229	2.76	0.82	-0.01		536	2.88	0.84	-0.13		589	2.83	0.84	-0.08	
	Male	22	2.27	0.77	450	2.61	0.82	-0.34		299	2.77	0.86	-0.50		251.00	2.69	0.82	-0.42	
	Female Diff F-M	70	2.90 0.63	0.75	779	2.84 0.23	0.81	0.06		235	3.03 0.26	0.80	-0.13		337.00	2.93 0.24	0.83	-0.03	
	DIII F-IVI	•	0.63			0.23					0.20					0.24			
	Spring 1999	495	2.92	0.84	3066	3.04	0.82	-0.12	-0.15	323	3.06	0.80	-0.14		250	3.13	0.82	-0.21	-0.26
	Male	98	2.63	0.92	1046	2.89	0.86	-0.26	0.46	124	3.02	0.81	-0.39		108.00	2.94	0.81	-0.31	0.24
	Female Diff F-M	394	2.99 0.36	0.80	1996	3.12 0.23	0.79	-0.13	-0.16	196	3.08 0.06	0.80	-0.09		141.00	3.26 0.32	0.80	-0.27	-0.34
	Dill'i Wi	-	0.00			0.20					0.00					0.02			
	Spring 2000	187	3.01	0.81	3343	2.96	0.83	0.05		30	2.93	0.83	0.08		701	3.16	0.81	-0.15	
	Male Female	50 136	2.82 3.07	0.77 0.81	1108 2191	2.79 3.05	0.85 0.80	0.03 0.02		8 22	2.88 2.95	0.83 0.84	-0.06 0.12		304.00 362.00	3.12 3.19	0.81 0.82	-0.30 -0.12	
	Diff F-M	130	0.25	0.61	2191	0.26	0.60	0.02		22	0.07	0.04	0.12		302.00	0.07	0.02	-0.12	
Ability to function as a team member		•	Truman		Compreher		& Univ	TRU-C		Selective L	iberal Arts C	olleges	TRU		General L	iberal Arts C	olleges	TRU	
		N	Mean	SD	N	Mean			Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	225 71	2.38 2.37	0.89 0.97	2514 856	2.55 2.49	0.88 0.85	<b>-0.17</b> -0.12	-0.19	1784 639	2.64 2.60	0.84 0.82	<b>-0.26</b> -0.23	-0.31	2525 1125	2.69 2.65	0.89 0.88	<b>-0.31</b> -0.28	-0.35
	Female	154	2.38	0.86	1656	2.58	0.90	-0.12		1145	2.67	0.85	-0.29	-0.34	1395	2.72	0.89	-0.24	-0.38
	Diff F-M		0.01			0.09					0.07	_				0.07	_		
	Spring 1998	92	2.51	0.81	1229	2.56	0.87	-0.05		535	2.47	0.88	0.04		590	2.72	0.87	-0.21	
	Male	22	2.36	0.95	450	2.50	0.85	-0.14		298	2.44	0.88	-0.08		252	2.67	0.83	-0.31	
	Female	70	2.56	0.75	779	2.59	0.87	-0.03		235	2.50	0.87	0.06		337	2.76	0.89	-0.20	
	Diff F-M		0.20			0.09					0.06					0.09			
	Spring 1999	495	2.67	0.88	3063	2.75	0.91	-0.08		322	2.86	0.84	-0.19	-0.23	249	2.92	0.83	-0.25	-0.30
	Male	98	2.52	0.89	1045	2.70	0.89	-0.18	-0.20	124	2.85	0.80	-0.33	-0.41	107	2.84	0.83	-0.32	
	Female Diff F-M	394	2.70 0.18	0.87	1994	2.77 0.07	0.92	-0.07		195	2.87 0.02	0.88	-0.17		141	2.98 0.14	0.84	-0.28	-0.33
	DIII I -IVI		0.10			0.07					0.02					0.14			
	Spring 2000	187	2.65	0.92	3337	2.71	0.91	-0.06		29	2.79	0.77	-0.14		702	3.01	0.89	-0.36	-0.40
	Male Female	50 136	2.74 2.61	0.85 0.94	1107 2186	2.63 2.76	0.89 0.91	0.11 -0.15		8 21	2.75 2.81	0.71 0.81	-0.01 -0.20		305 362	3.00 3.01	0.88 0.92	-0.26 <b>-0.40</b>	-0.43
	Diff F-M	130	-0.13	0.94	2100	0.13	0.91	-0.15		21	0.06	0.61	-0.20		302	0.01	0.92	-0.40	-0.43
Developing good health habits and physical			Truman		Compreher	sive College	& Univ	TRU-C	CU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU	-GLA
fitness		N	Mean	SD	N	Mean			ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	222 70	2.15 1.97	0.97 0.96	2464 833	2.29 2.25	0.98 0.97	-0.14 -0.28		1760 632	2.34 2.34	0.95 0.93	-0.19 <b>-0.37</b>	-0.40	2485 1112	2.42 2.45	0.94 0.93	-0.27 -0.48	-0.29 <b>-0.52</b>
	Female	152	2.24	0.96	1630	2.23	0.98	-0.28		1128	2.33	0.96	-0.09	-0.40	1369	2.40	0.93	-0.46	-0.32
	Diff F-M		0.27			0.06					-0.01					-0.05			
	Spring 1998	90	2.26	0.95	530	2.14	0.99	0.12		575	2.46	0.92	-0.20		2404	2.31	0.94	-0.05	
	Male	21	1.67	0.80	440	2.33	0.93	-0.66	-0.71	297	2.17	0.99	-0.50		248	2.44	0.90	-0.77	-0.86
	Female	69	2.43	0.93	769	2.32	0.91	0.11		231	2.10	1.00	0.33		326	2.48	0.93	-0.05	
	Diff F-M		0.76			-0.01					-0.07					0.04			
	Spring 1999	495	2.53	0.98	3066	2.56	1.00	-0.03		323	2.69	0.94	-0.16		250	2.69	1.00	-0.16	
	Male	98	2.47	0.95	1045	2.54	1.00	-0.07		124	2.76	0.91	-0.29		108	2.78	0.95	-0.31	
	Female Diff F-M	394	2.55 0.08	0.98	1997	2.57 0.03	0.99	-0.02		196	2.64 -0.12	0.96	-0.09		141	2.62 -0.16	1.03	-0.07	
	ווים -וויום					0.00													
	Spring 2000	187	2.67	0.96	3338	2.60	0.99	0.07		30	2.03	0.96	0.64	0.67	702	2.69	1.00	-0.02	
	Male Female	50 136	2.64 2.68	1.01 0.96	1107 2188	2.57 2.62	0.99	0.07 0.06		8 22	2.25 1.95	1.04 0.95	0.39 <b>0.73</b>	0.77	304 363	2.71 2.65	1.02 1.00	-0.07 0.03	
	Diff F-M	130	0.04	0.50	2100	0.05	0.55	0.00		22	-0.30	0.93	0.73	0.77	303	-0.06	1.00	0.03	

#### Estimate of Gains

Understanding the nature of science and	Г		Truman		Comprehen	sive College	e & Univ	TRU-C	CU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU	-GLA
experimentation	_	N	Mean	SD	N	Mean	SD	Mean Diff E	ffect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	1.84	0.91	2510	1.94	0.92	-0.10		1783	2.01	0.95	-0.17		2524	1.94	0.91	-0.10	
	Male	71	1.68	0.75	856	2.04	0.90	-0.36	-0.40	638	2.08	0.94	-0.40	-0.43	1126	1.98	0.90	-0.30	
	Female	154	1.92	0.96	1653	1.89	0.93	0.03		1145	1.96	0.95	-0.04		1393	1.90	0.93	0.02	
	Diff F-M		0.24			-0.15					-0.12					-0.08			
	Spring 1998	92	2.17	0.82	1229	2.02	0.90	0.15		536	2.05	0.97	0.12		591	2.04	0.94	0.13	
	Male	22	2.09	0.92	450	2.10	0.88	-0.01		299	2.11	0.93	-0.02		253	2.11	0.93	-0.02	
	Female Diff F-M	70	2.20 0.11	0.79	779	1.98 -0.12	0.91	0.22		235	1.97 -0.14	1.01	0.23		337	1.98 -0.13	0.94	0.22	
	Spring 1999 Male	495 98	2.35 2.37	0.95 0.92	3062 1045	2.17 2.27	0.94 0.92	<b>0.18</b> 0.10	0.19	323 124	2.14 2.35	0.91 0.95	<b>0.21</b> 0.02	0.23	251 109	2.33 2.59	1.01 0.95	0.02 -0.22	
	Female	394	2.34	0.92	1993	2.12	0.92	0.10	0.23	196	2.02	0.93	0.02	0.37	141	2.59	1.01	0.22	
	Diff F-M	004	-0.03	0.00	1000	-0.15	0.04	V.22	0.20	100	-0.33	0.07	0.02	0.07	141	-0.48	1.01	0.20	
	Spring 2000	187	2.26	0.98	3339	2.13	0.93	0.13		30	1.93	0.94	0.33		703	2.20	0.95	0.06	
	Male	50	2.26	0.85	1106	2.27	0.90	-0.01		8	2.25	0.71	0.01		305	2.24	0.90	0.02	
	Female	136	2.26	1.03	2189	2.06	0.93	0.20		22	1.82	1.01	0.44		363	2.14	0.99	0.12	
	Diff F-M_		0.00			-0.21					-0.43					-0.10			
Understanding new scientific and technical			Truman		Compreher		e & Univ	TRU-C			iberal Arts C			-SLA	General L				-GLA
developments	F-II 4007	N	Mean	SD	N	Mean	SD		ffect Size	N 4700	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	224 71	1.60 1.70	0.83 0.83	2515 857	1.85 2.09	0.88 0.86	-0.25 -0.39	-0.28 -0.45	1783 638	1.87 2.07	0.90 0.86	-0.27 -0.37	-0.30 -0.43	2523 1125	1.87 2.12	0.89 0.9	-0.27 -0.42	-0.30 -0.47
	Female	154	1.70	0.83	1655	1.87	0.89	-0.28	-0.43	1142	1.91	0.89	-0.37	-0.43	1393	1.92	0.92	-0.42	-0.47
	Diff F-M	134	-0.11	0.70	1000	-0.22	0.03	-0.20		1172	-0.16	0.03	-0.32	-0.50	1333	-0.20	0.32	-0.55	
	Spring 1998	92	1.86	0.70	1231	1.93	0.88	-0.07		536	1.96	0.96	-0.10		591	1.96	0.93	-0.10	
	Male	22	1.68	0.57	450	2.14	0.87	-0.46		298	2.18	0.90	-0.10		253	2.15	0.89	-0.10	
	Female	70	1.89	0.65	778	1.88	0.84	0.01		235	1.97	0.93	-0.08		337	2.01	0.90	-0.12	
	Diff F-M		0.21			-0.26					-0.21					-0.14			
	Spring 1999	495	2.23	0.93	3059	2.19	0.93	0.04		323	2.13	0.93	0.10		250	2.28	0.98	-0.05	
	Male	98	2.45	0.91	1044	2.34	0.91	0.11		124	2.40	0.95	0.05		109	2.56	0.88	-0.11	
	Female	394	2.17	0.93	1991	2.11	0.93	0.06		196	1.97	0.88	0.20		140	2.05	0.99	0.12	
	Diff F-M		-0.28			-0.23					-0.43					-0.51			
	Spring 2000	187	2.14	0.95	3332	2.14	0.93	0.00		30	1.80	0.89	0.34		701	2.28	0.96	-0.14	
	Male	50	2.28	0.86	1104	2.35	0.91	-0.07		8	2.25	0.71	0.03		304	2.40	0.93	-0.12	
	Female	136	2.09	0.98	2185	2.03	0.92	0.06		22	1.64	0.90	0.45		362	2.16	0.98	-0.07	
Becoming aware if the consequences of applications	Diff F-M		-0.19 Truman		Compreher	-0.32	e & Univ	TRU-C	CII	Selective L	-0.61 iberal Arts C	ollogoo	TDII	-SLA	General L	-0.24 iberal Arts C	olleges	TDII	-GLA
in science and technology		N	Mean	SD	N	Mean	SD		ffect Size	N	Mean	SD	Mean Diff	-SLA Effect Size	N	Mean	SD	Mean Diff	Effect Size
in science and technology	Fall 1997	225	1.63	0.79	2513	1.95	0.88	-0.32	-0.36	1780	1.97	0.88	-0.34	-0.39	2523	2.01	0.91	-0.38	-0.42
	Male	71	1.62	0.83	859	2.01	0.88	-0.39	-0.44	638	1.99	0.89	-0.37	-0.42	1124	1.98	0.89	-0.36	-0.40
	Female	153	1.59	0.82	1655	1.77	0.86	-0.18	-0.21	1145	1.80	0.90	-0.21	-0.23	1394	1.78	0.88	-0.19	-0.22
	Diff F-M		-0.03			-0.24	_				-0.19					-0.20	_		
	Spring 1998	92	1.84	0.63	1228	1.97	0.86	-0.13		535	2.09	0.92	-0.25		591	2.07	0.90	-0.23	
	Male	22	1.82	0.80	450	2.06	0.86	-0.24		299	2.04	0.92	-0.22		253	2.11	0.94	-0.29	
	Female	70	1.87	0.68	781	1.85	0.88	0.02		235	1.84	0.99	0.03		337	1.85	0.91	0.02	
	Diff F-M		0.05			-0.21					-0.20					-0.26			
	Spring 1999	493	2.14	0.91	3064	2.22	0.92	-0.08		322	2.18	0.88	-0.04		251	2.37	0.96	-0.23	
	Male	98	2.33	0.85	1044	2.36	0.90	-0.03		124	2.31	0.85	0.02		109	2.54	0.84	-0.21	
	Female	392	2.09	0.91	1996	2.15	0.93	-0.06		195	2.09	0.89	0.00		141	2.23	1.02	-0.14	
	Diff F-M		-0.24			-0.21					-0.22					-0.31			
	Spring 2000	187	2.18	0.94	3334	2.18	0.94	0.00		29	2.00	0.93	0.18		702	2.38	0.95	-0.20	
	Male	50	2.32	1.00	1103	2.37	0.92	-0.05		8	2.00	0.76	0.32		304	2.50	0.92	-0.18	
	Female Diff F-M	136	2.12 -0.20	0.91	2188	2.08 -0.29	0.93	0.04		21	2.00 0.00	1.00	0.12		363	2.25 -0.25	0.96	-0.13	
	וווט -וווט		-0.20			-0.29					0.00					-0.23			

#### Estimate of Gains

Ability to think analytically and logically			Truman		Compreher	sive College	e & Univ	TRU-0	CCU	Selective L	iberal Arts C	olleges	TRU	J-SLA	General L	iberal Arts C	olleges	TRU-	GLA
	<u></u>	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	225 71	2.30 2.18	0.83 0.83	2512 856	2.49 2.51	0.82 0.82	-0.19 -0.33	-0.23 -0.40	1785 637	2.67 2.67	0.80 0.81	-0.37 -0.49	-0.46 <b>-0.60</b>	2522 1125	2.58 2.56	0.81 0.83	-0.28 -0.38	-0.35 -0.46
	Female	154	2.36	0.82	1654	2.47	0.83	-0.11	-0.40	1148	2.67	0.80	-0.31	-0.39	1393	2.59	0.80	-0.23	-0.29
	Diff F-M		0.18			-0.04					0.00					0.03			
	Spring 1998	92	2.49	0.72	1227	2.45	0.80	0.04		535	2.72	0.85	-0.23		590	2.55	0.85	-0.06	
	Male Female	22 70	2.36 2.53	0.66 0.74	450 777	2.54 2.40	0.80 0.79	-0.18 0.13		298 235	2.71 2.72	0.82 0.88	-0.35 -0.19		252 337	2.54 2.57	0.86 0.84	-0.18 -0.04	
	Diff F-M	70	0.17	0.74	111	-0.14	0.79	0.13		233	0.01	0.00	-0.19		331	0.03	0.04	-0.04	
	Spring 1999	491	2.71	0.85	3051	2.68	0.84	0.03		323	2.81	0.74	-0.10		250	2.76	0.84	-0.05	
	Male	97	2.65	0.87	1038	2.74	0.82	-0.09		124	2.95	0.71	-0.30		109	2.72	0.83	-0.07	
	Female Diff F-M	391	2.73 0.08	0.85	1989	2.65 -0.09	0.85	0.08		196	2.72 -0.23	0.75	0.01		140	2.79 0.07	0.85	-0.06	
	Spring 2000	186	2.76	0.84	3321	2.63	0.86	0.13		30	2.60	0.81	0.16		696	2.75	0.83	0.01	
	Male	49 136	2.76 2.76	0.92 0.81	1101 2177	2.70 2.60	0.84 0.87	0.06 0.16		8 22	2.88 2.50	0.64 0.86	-0.12 0.26		302 359	2.83 2.67	0.80 0.87	-0.07 0.09	
	Female Diff F-M	130	0.00	0.61	2177	-0.10	0.67	0.10		22	-0.38	0.00	0.20		339	-0.16	0.07	0.09	
Quantitative thinkingUnderstanding probabilities,			Truman		Compreher	sive College	e & Univ	TRU-0		Selective L	iberal Arts C			J-SLA	General L	iberal Arts C		TRU-	
proportions, etc.	F-II 4007	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Male	219 69	2.04 2.03	0.91 0.94	2453 839	2.18 2.26	0.85 0.85	-0.14 -0.23		1771 632	2.19 2.29	0.88 0.85	-0.15 -0.26		2485 1111	2.21 2.24	0.87 0.87	-0.17 -0.21	
	Female	150	2.04	0.90	1611	2.14	0.85	-0.10		1139	2.13	0.89	-0.09		1370	2.18	0.86	-0.14	
	Diff F-M		0.01			-0.12					-0.16					-0.06			
	Spring 1998	92	2.08	0.73	1211	2.23	0.85	-0.15		529	2.26	0.96	-0.18		585	2.26	0.90	-0.18	
	Male	22	1.77	0.75	443	2.32	0.85	-0.55	-0.65	296	2.38	0.93	-0.61	-0.66	251	2.36	0.89	-0.59	-0.66
	Female Diff F-M	70	2.17 0.40	0.70	768	2.19 -0.13	0.85	-0.02		231	2.11 -0.27	0.98	0.06		333	2.19 -0.17	0.89	-0.02	
	Spring 1999	489	2.28	0.91	3063	2.32	0.91	-0.04		323	2.26	0.92	0.02		248	2.39	0.98	-0.11	
	Male Female	94 392	2.36 2.26	0.80 0.93	1043 1996	2.39 2.28	0.88 0.92	-0.03 -0.02		124 196	2.48 2.13	0.96 0.88	-0.12 0.13		106 141	2.58 2.24	0.95 0.97	-0.22 0.02	
	Diff F-M	392	-0.10	0.53	1990	-0.11	0.92	-0.02		190	-0.35	0.00	0.13		141	-0.34	0.91	0.02	
	Spring 2000	187	2.35	0.90	3333	2.31	0.93	0.04		30	2.10	0.96	0.25		699	2.44	0.93	-0.09	
	Male	50	2.42	0.86	1102	2.43	0.9	-0.01		8	2.25	0.71	0.17		303	2.54	0.92	-0.12	
	Female Diff F-M	136	2.32 -0.10	0.92	2187	2.24 -0.19	0.94	0.08		22	2.05 -0.20	1.05	0.27		361	2.32 -0.22	0.94	0.00	
Ability to put ideas together, to see relationships,			Truman		Compreher		e & Univ	TRU-0	CCU	Selective L	iberal Arts C	olleges	TRU	J-SLA	General L	iberal Arts C	olleges	TRU-	GLA
similarities, and differences between ideas	- "	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean		Mean Diff	Effect Size
	Fall 1997 Male	224 71	2.29 2.17	0.78 0.86	2511 855	2.56 2.51	0.83 0.84	-0.27 -0.34	-0.33 -0.40	1779 634	2.74 2.65	0.80 0.79	-0.45 -0.48	-0.56 -0.61	2526 1127	2.62 2.53	0.82 0.83	-0.33 -0.36	-0.40 -0.43
	Female	153	2.34	0.74	1654	2.58	0.82	-0.24	-0.29	1145	2.80	0.79	-0.46	-0.58	1394	2.69	0.80	-0.35	-0.44
	Diff F-M		0.17			0.07					0.15					0.16			
	Spring 1998	91	2.45	0.79	1230	2.54	0.80	-0.09		536	2.83	0.81	-0.38	-0.47	590	2.55	0.80	-0.10	
	Male Female	22 69	2.32 2.49	0.84 0.78	450 780	2.50 2.56	0.83 0.78	-0.18 -0.07		299 235	2.76 2.92	0.80 0.81	-0.44 <b>-0.43</b>	-0.53	252 337	2.56 2.56	0.81 0.78	-0.24 -0.07	
	Diff F-M	00	0.17	0.70	700	0.06	0.70	0.07		200	0.16	0.01	0.40	-0.00	007	0.00	0.70	0.01	
	Spring 1999	493 98	2.72	0.84	3058	2.71	0.81	0.01		323	2.83	0.75	-0.11		250	2.82	0.83	-0.10	
	Male Female	98 392	2.68 2.73	0.81 0.85	1044 1990	2.67 2.73	0.78 0.83	0.01 0.00		124 196	2.81 2.83	0.73 0.77	-0.13 -0.10		108 141	2.81 2.82	0.85 0.81	-0.13 -0.09	
	Diff F-M	552	0.05	0.00		0.06	3.30	0.00		.50	0.02	J 1	3.10			0.01	0.01	0.50	
	Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
	Male Female	50 135	2.58 2.73	0.86 0.85	1102 2187	2.66 2.71	0.83 0.84	-0.08 0.02		8 22	2.63 2.59	0.52 1.05	-0.05 0.14		303 363	2.75 2.78	0.83 0.85	-0.17 -0.05	
	Diff F-M	100	0.15	0.00	2107	0.05	0.04	0.02		22	-0.04	1.00	0.14		505	0.03	0.00	-0.03	

### Estimate of Gains

Ability to learn on your own, pursue ideas, and find			Truman		Comprehe	nsive College	e & Univ	TRU-	CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU-	GLA
information you need		N	Mean	SD	N	Mean			Effect Size	N	Mean	SD	Mean Diff		N	Mean	SD	Mean Diff	
·	Fall 1997	225	2.55	0.77	2512	2.72	0.84	-0.17	-0.20	1778	2.84	0.81	-0.29	-0.36	2524	2.76	0.82	-0.21	-0.26
	Male	71	2.39	0.82	858	2.60	0.83	-0.21		635	2.69	0.80	-0.30	-0.38	1125	2.63	0.84	-0.24	
	Female	154	2.62	0.73	1652	2.78	0.84	-0.16		1143	2.92	0.81	-0.30	-0.37	1394	2.87	0.78	-0.25	-0.32
	Diff F-M		0.23			0.18					0.23					0.24			
	Spring 1998	91	2.78	0.81	1230	2.67	0.81	0.11		535	2.83	0.86	-0.05		591	2.72	0.83	0.06	
	Male	22	2.59	0.96	450	2.59	0.81	0.00		299	2.80	0.87	-0.21		253	2.60	0.88	-0.01	
	Female	69	2.84	0.76	780	2.72	0.80	0.12		234	2.87	0.85	-0.03		337	2.81	0.77	0.03	
	Diff F-M		0.25			0.13					0.07					0.21			
	Spring 1999	494	2.89	0.83	3064	2.90	0.82	-0.01		323	3.01	0.73	-0.12		250	2.92	0.86	-0.03	
	Male	97	2.70	0.83	1045	2.84	0.82	-0.01		124	2.90	0.75	-0.12		108	2.81	0.87	-0.03	
	Female	394	2.93	0.82	1995	2.93	0.83	0.00		196	3.07	0.70	-0.14		141	2.99	0.85	-0.06	
	Diff F-M	004	0.23	0.02	1000	0.09	0.00	0.00		100	0.17	0.71	0.14		141	0.18	0.00	0.00	
	Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
	Male	50	2.86	0.95	1104	2.76	0.84	0.10		8	3.13	0.35	-0.27		305	2.85	0.84	0.01	
	Female	135	3.07	0.75	2184	2.89	0.85	0.18		22	2.77	1.07	0.30		362	2.93	0.84	0.14	
	Diff F-M		0.21			0.13					-0.36					0.08			
Gain: Adapting to Change	L		Truman			nsive College		TRU-			iberal Arts C		TRU			₋iberal Arts C	Ü	TRU-	
		N *	Mean	SD *	N *	Mean	SD *	Mean Diff	Effect Size	N *	Mean	SD *	Mean Diff	Effect Size	N *	Mean	SD *	Mean Diff	Effect Size
	Fall 1997	*		*		*		*		*			*		*	*	*	*	
	Spring 1998	•	•	-	•	•	•	•		*	•	•	·		•	•	•	*	
	Spring 1999	495	2.92	0.89	3062	2.97	0.86	-0.05		323	3.13	0.78	-0.21	-0.27	250	3.00	0.86	-0.08	
	Male	98	2.61	0.92	1043	2.85	0.84	-0.24		124	3.04	0.76	-0.43	-0.57	108	2.86	0.86	-0.25	
	Female	394	3.01	0.86	1995	3.04	0.86	-0.03		196	3.18	0.80	-0.17		141	3.09	0.85	-0.08	
	Diff F-M		0.40			0.19					0.14					0.23			
	Spring 2000	186	3.00	0.82	3332	2.84	0.85	0.16		30	2.87	0.94	0.13		701	2.89	0.84	0.11	
	Male	50	2.80	0.93	1105	2.81	0.88	-0.01		8	2.50	0.76	0.30		305	2.95	0.84	-0.15	
	Female	136	2.99	0.87	2186	2.91	0.88	0.08		22	2.86	0.77	0.13		361	3.03	0.90	-0.04	
	Diff F-M		0.19			0.10					0.36					0.08			

# Freshman Reading and Writing Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

#### Scale: None = 1, Fewer than 5 = 2, Between 5 and 10 = 3, Between 10 and 20 = 4, More than 20 = 5

Third Edition (1997 & 1998) Fourth Edition (1999, 2000) Bold = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group Bold Italic = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group Bold = Significant Differences (<u>Truman Means</u> differ by 0.2 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Number of textbooks/	Г		Truman		Compreher	sive College	& Univ	TRU	I-CCU	Selective I	Liberal Arts C	Colleges	TRU	J-SLA	General L	iberal Arts C	olleges	TRU	J-GLA
assigned books read	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	223	2.73	0.77	2500	3.07	0.94	-0.34	-0.36	1777	3.57	0.90	-0.84	-0.93	2497	3.24	1.03	-0.51	-0.50
	Male	69	2.64	0.87	848	2.86	0.88	-0.22		630	3.34	0.93	-0.70	-0.75	1110	3.07	1.03	-0.43	-0.42
	Female	154	2.77	0.72	1649	3.18	0.94	-0.41	-0.44	1147	3.70	0.85	-0.93	-1.09	1383	3.37	1.02	-0.60	-0.59
	Diff F-M		0.13			0.32					0.36					0.30			•
	Spring 1998	92	3.26	0.96	1219	3.05	0.93	0.21		535	3.78	0.94	-0.52	-0.55	584	3.02	0.91	0.24	
	Male	22	3.45	0.86	442	2.85	0.96	0.60	0.63	297	3.58	0.98	-0.13		247	2.95	0.94	0.50	
	Female	70	3.20	0.99	777	3.16	0.89	0.04		236	4.02	0.83	-0.82	-0.99	336	3.07	0.89	0.13	
	Diff F-M		-0.25			0.31					0.44					0.12			
	Spring 1999	494	3.17	0.83	3072	3.12	0.95	0.05		322	3.24	0.81	-0.07		254	3.04	0.95	0.13	
	Male	99	2.95	0.90	1046	2.96	0.94	-0.01		124	3.09	0.82	-0.14		109	3.1	0.99	-0.15	
	Female	392	3.23	0.80	2002	3.20	0.95	0.03		195	3.32	0.80	-0.09		144	2.99	0.92	0.24	
	Diff F-M		0.28			0.24					0.23					-0.11			
	Spring 2000	186	3.26	0.81	3376	2.88	0.87	0.38	0.44	30	3.57	0.82	-0.31		697	2.95	0.87	0.31	0.36
	Male	50	3.02	0.87	1119	2.72	0.87	0.30		8	3.00	0.76	0.02		306	2.87	0.87	0.15	
	Female	135	3.36	0.78	2213	2.96	0.86	0.40	0.47	22	3.77	0.75	-0.41		359	3.01	0.88	0.35	0.40
	Diff F-M		0.34			0.24					0.77					0.14			
Number of course pack	tets		Truman		Compreher	sive College		TRU	I-CCU	Selective I	∟iberal Arts C		TRU	J-SLA	General L	iberal Arts C	olleges	TRU	J-GLA
read		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1999	491	2.58	1.05	3036	2.55	0.96	0.03		315	2.68	0.91	-0.10		247	2.75	1.05	-0.17	
	Male	97	2.67	1.13	1035	2.59	0.98	0.08		121	2.82	0.98	-0.15		103	2.86	1.09		
	Female	391	2.57	1.03	1977	2.53	0.95	0.04		191	2.60	0.86	-0.03		143	2.68	1.01	-0.11	
	Diff F-M		-0.10			-0.06					-0.22					-0.18			
	Spring 2000	184	2.76	1.06	3310	2.43	0.94	0.33	0.35	29	2.79	1.08	-0.03		684	2.51	1.04		0.24
	Male	49	2.65	0.97	1097	2.4	0.89	0.25		8	2.88	0.83	-0.23		302	2.45	0.98		
	Female	134	2.80	1.10	2170	2.45	0.96	0.35		21	2.76	1.18	0.04		351	2.53	1.08	0.27	0.25
	Diff F-M		0.15			0.05					-0.12					0.08			

Number of non-assigned		Truman		Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU	-GLA
books read	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997 Male	224 71	1.85 1.90	0.85 0.90	2467 835	2.14 2.12	0.98 0.99	<b>-0.29</b> -0.22	-0.30	1779 632	2.18 2.13	0.94 0.93	<b>-0.33</b> -0.23	-0.35	2469 1089	2.15 2.06	0.98 0.96	<b>-0.30</b> -0.16	-0.31
Female	153	1.83	0.90	1629	2.12	0.99	-0.22 - <b>0.31</b>	-0.32	1147	2.13	0.93	-0.23	-0.40	1375	2.00	0.90	-0.16 - <b>0.38</b>	-0.38
Diff F-M		-0.07			0.02					0.08					0.15			
Carina 4000	00	2.00	0.00	4045	2.00	0.05	0.04		500	0.04	4.04	0.00		570	0.40	0.00	0.00	
Spring 1998 Male	92 22	2.09 2.23	0.86 0.75	1215 441	2.08 2.08	0.95 1.00	0.01 0.15		529 296	2.31 2.28	1.01 1.07	-0.22 -0.05		573 242	2.12 2.08	0.98 0.97	-0.03 0.15	
Female	70	2.04	0.89	774	2.07	0.92	-0.03		231	2.34	0.91	-0.30		331	2.14	0.99	-0.10	
Diff F-M		-0.19			-0.01					0.06					0.06			
Spring 1999	492	2.27	0.99	3038	1.87	0.91	0.40	0.44	314	1.95	0.88	0.32	0.36	248	1.98	1.07	0.29	0.27
Male	98	2.29	1.07	1033	1.83	0.94	0.46	0.49	120	1.86	0.93	0.43	0.46	104	2.05	1.09	0.24	
Female	391	2.27	0.97	1981	1.89	0.89	0.38	0.43	191	2.01	0.85	0.26	0.31	143	1.94	1.06	0.33	0.31
Diff F-M		-0.02			0.06					0.15					-0.11			
Spring 2000	184	2.20	1.06	3306	1.96	0.95	0.24	0.25	30	1.87	0.73	0.33		687	1.96	1.00	0.24	0.24
Male Female	49 134	2.02 2.26	1.03 1.08	1097 2165	1.89 1.99	0.94 0.96	0.13 <b>0.27</b>	0.28	8 22	1.88 1.86	0.35 0.83	0.14 0.40		302 354	1.76 2.14	0.88 1.06	0.26 0.12	
Diff F-M	134	0.24	1.00	2105	0.10	0.90	0.27	0.26	22	-0.02	0.63	0.40		334	0.38	1.00	0.12	
Number of essays exams	_	Truman			nsive Colleg	e & Univ		-CCU		iberal Arts (			-SLA		iberal Arts C			l-GLA
written Fall 1997	N	Mean 2.17	SD 0.70	N 2404	Mean	SD 1.03	Mean Diff -0.68	Effect Size -0.66	N 4705	Mean 3.10	SD 1.02	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Hall 1997 Male	223 70	2.17	0.70	2494 847	2.85 2.82	1.03	-0.62	-0.60 -0.62	1785 636	3.10	1.02	-0.93 -0.94	-0.91 -0.92	2502 1111	3.03 2.99	1.06 1.06	-0.86 -0.79	-0.81 -0.75
Female	153	2.16	0.72	1644	2.86	1.05	-0.70	-0.67	1149	3.07	1.03	-0.91	-0.88	1387	3.05	1.06	-0.89	-0.84
Diff F-M		-0.04			0.04					-0.07					0.06			
Spring 1998	92	3.20	1.00	1220	2.95	0.99	0.25		529	3.08	1.01	0.12		583	3.21	1.00	-0.01	
Male	22	3.27	0.88	444	2.94	0.96	0.33		293	3.24	1.03	0.03		247	3.23	0.94	0.04	
Female Diff F-M	70	3.17	1.04	776	2.95	1.00	0.22		234	2.85	0.95	0.32		335	3.19	1.05	-0.02	
DIII F-IVI		-0.10			0.01					-0.39					-0.04			
Spring 1999	491	3.16	1.00	3044	3.03	1.10	0.13		316	3.03	1.05	0.13		248	3.13	1.17	0.03	
Male Female	95 393	3.13 3.18	1.08 0.97	1025 1995	3.12 2.98	1.11 1.10	0.01 <b>0.20</b>	0.18	122 191	3.07 3.00	0.98 1.08	0.06 0.18		106 141	3.33 2.96	1.11 1.18	-0.20 0.22	
Diff F-M	393	0.05	0.97	1995	-0.14	1.10	0.20	0.16	191	-0.07	1.00	0.10		141	-0.37	1.10	0.22	
-																		
Spring 2000 Male	185 49	3.12 3.06	0.97 0.90	3333 1094	2.99 3.07	1.09 1.09	0.13 -0.01		30 8	3.37 2.88	1.00 0.99	-0.25 0.18		692 299	3.32 3.36	1.10 1.02	-0.20 -0.30	
Female	135	3.14	1.00	2195	2.95	1.09	0.19		22	3.55	0.96	-0.41		361	3.27	1.17	-0.13	
Diff F-M		0.08			-0.12		TD::	0011		0.67					-0.09		TD:	
Number of term papers written	N	Truman Mean	SD	N	nsive Colleg Mean	SD	Mean Diff	-CCU Effect Size	N Selective I	iberal Arts ( Mean	SD	Mean Diff	-SLA Effect Size	N General L	iberal Arts C Mean	SD SD	Mean Diff	-GLA Effect Size
Fall 1997	219	2.32	0.83	2486	3.03	1.02	-0.71	-0.70	1778	3.42	0.95	-1.10	-1.16	2491	3.12	1.04	-0.80	-0.77
Male	69	2.23	0.88	844	2.94	1.00	-0.71	-0.71	632	3.33	0.96	-1.10	-1.15	1097	3.06	1.04	-0.83	-0.80
Female Diff F-M	150	2.37 0.14	0.81	1640	3.07 0.13	1.02	-0.70	-0.69	1146	3.48 0.15	0.94	-1.11	-1.18	1389	3.18 0.12	1.03	-0.81	-0.79
Bill I -IW		0.14			0.13					0.13					0.12			
Spring 1998	92	3.25	0.94	1217	3.03	0.96	0.22		526	3.40	0.98	-0.15		584	3.05	0.97	0.20	
Male Female	22 70	3.14 3.29	0.89 0.97	443 774	2.93 3.09	1.01 0.93	0.21 0.20		293 231	3.36 3.45	1.03 0.91	-0.22 -0.16		246 337	3.04 3.04	0.98 0.96	0.10 0.25	
Diff F-M		0.15	0.01		0.16	0.00	0.20		20.	0.09	0.01	0.10			0.00	0.00	0.20	
Carina 4000	400	2.40	0.00	3000	2.40	4.00	0.24	0.00	242	2.20	0.00	0.00		242	2.24	4.00	0.46	
Spring 1999 Male	490 95	3.40 3.25	0.99 1.05	3000 1006	3.16 3.17	1.03 1.04	<b>0.24</b> 0.08	0.23	312 119	3.38 3.26	0.92 0.93	0.02 -0.01		243 104	3.24 3.30	1.09 1.13	0.16 -0.05	
Female	392	3.45	0.97	1971	3.15	1.03	0.30	0.29	190	3.47	0.89	-0.02		138	3.20	1.06	0.25	
Diff F-M		0.20			-0.02					0.21					-0.10			
Spring 2000	183	3.31	0.99	3259	3.12	1.00	0.19		30	3.43	0.94	-0.12		682	3.32	1.11	-0.01	
Male	49	3.02	1.02	1069	3.05	1.01	-0.03		8	3.50	0.93	-0.48		295	3.35	1.11	-0.33	
Female Diff F-M	133	3.41 0.39	0.95	2146	3.16 0.11	0.99	0.25	0.25	22	3.41 -0.09	0.96	0.00		356	3.29 -0.06	1.12	0.12	
DIII F-IVI	_	0.35			0.11					-0.09					-0.00			

# College Student Experience Questionnaire Freshman Satisfaction Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000), Gender, and Institutional Type

Third Edition (1997 & 1998) Fourth Edition (1999, 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (<u>Truman Means</u> differ by 0.2 or more per 1997 CSEQ manual)

#### Scale: I am enthusiastic about it = 4, I like it = 3, I am more or less neutral about it = 2, I don't like it = 1

How well college is liked		Truman		Compreher	nsive Colleg	e & Univ	TRU	I-CCU	Selective I	iberal Arts C	Colleges	TRU	I-SLA	General L	iberal Arts C	olleges	TRI	J-GLA
_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.25	0.72	2544	3.04	0.80	0.21	0.26	1797	3.24	0.81	0.01		2544	3.11	0.80	0.14	
Male	71	3.20	0.77	872	2.98	0.81	0.22		641	3.18	0.79	0.02		1136	2.97	0.82		
Female	154	3.27	0.70	1669	3.07	0.80	0.20	0.25	1156	3.28	0.81	-0.01		1403	3.22	0.76		
Diff F-M		0.07			0.09					0.10					0.25			
0	00	0.00	0.00	4007	0.40	0.70	0.40		500	0.04	0.70	0.00	0.05	505	0.00	0.04	0.04	
Spring 1998	92	3.03	0.90	1237	3.16	0.78	-0.13		538	3.31	0.79	-0.28		595	2.99	0.81	0.04	
Male	22	2.45	0.91	453	3.11	0.80		-0.83	301	3.22	0.78	-0.77	-0.99	254	2.81	0.80		
Female	70_	3.21	0.81	784	3.19	0.77	0.02		235	3.43	0.78	-0.22		340	3.12	0.79		
Diff F-M		0.76			80.0					0.21					0.31			
Spring 1999	494	3.14	0.80	3076	3.05	0.79	0.09		322	3.03	0.73	0.11		255	3.09	0.75	0.05	
Male	98	3.11	0.90	1045	2.98	0.82	0.13		124	2.98	0.71	0.13		111	2.95	0.72		
Female	393	3.14	0.78	2007	3.09	0.77	0.05		195	3.06	0.75	0.08		143	3.19	0.76		
Diff F-M		0.03			0.11					0.08					0.24			
Spring 2000	186	3.12	0.85	3376	2.96	0.78	0.16	0.21	30	3.10	0.88	0.02		707	3.00	0.80	0.12	
Male	50	3.12	0.87	1118	2.96	0.80	0.16		8	2.88	0.99	0.24		308	2.93	0.82		
Female	135	3.14	0.83	2214	2.96	0.77	0.18		22	3.18	0.85	-0.04		365	3.08	0.77		
Diff F-M		0.02			0.00					0.30					0.15			

#### Scale: Yes, definitely = 4, Probably yes = 3, Probably no = 2, No, definitely = 1

Would attend same institution		Truman		Compreher	nsive College	e & Univ	TRU	I-CCU	Selective L	iberal Arts C	Colleges	TRU	I-SLA	General Li	iberal Arts C	olleges	TRU	J-GLA
again	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.32	0.74	2542	3.04	0.91	0.28	0.31	1792	3.15	0.87	0.17		2535	3.05	0.93	0.27	0.29
Male	71	3.28	0.78	870	2.98	0.90	0.30		637	3.12	0.89	0.16		1126	2.84	0.96	0.44	0.46
Female	154	3.34	0.73	1669	3.06	0.91	0.28	0.31	1155	3.17	0.85	0.17		1404	3.22	0.86	0.12	
Diff F-M		0.06			0.08					0.05					0.38			
Spring 1998	91	3.05	0.87	1236	3.19	0.84	-0.14		537	3.19	0.88	-0.14		595	2.74	0.96	0.31	0.32
Male	21	2.71	0.85	453	3.13	0.84	-0.42		300	3.09	0.93	-0.38		254	2.61	0.93		
Female	70_	3.16	0.86	783	3.23	0.83	-0.07		235	3.31	0.80	-0.15		340	2.85	0.97		
Diff F-M		0.45			0.10					0.22					0.24			
Spring 1999	493	3.11	0.85	3073	3.03	0.89	0.08		321	3.05	0.81	0.06		253	3.03	0.95	0.08	
Male	98	3.09	0.89	1046	2.95	0.91	0.14		124	2.97	0.77	0.12		110	2.83	1.02	0.26	
Female	392	3.11	0.85	2003	3.06	0.87	0.05		194	3.10	0.83	0.01		142	3.18	0.87	-0.07	
Diff F-M		0.02			0.11					0.13					0.35			
Spring 2000	186	3.08	0.87	3374	3.05	0.85	0.03		29	2.93	0.84	0.15		702	2.93	0.93	0.15	
Male	50	2.92	0.88	1116	3.05	0.85	-0.13		7	3.00	1.00	-0.08		305	2.81	0.92	0.11	
Female	135	3.15	0.86	2215	3.06	0.85	0.09		22	2.91	0.81	0.24		363	3.06	0.93	0.09	
Diff F-M		0.23			0.01					-0.09					0.25			

## Satisfaction Index = How well college is liked (value) + Would attend same institution again (value)

Overall opinion of college		Truman		Compreher	nsive College	e & Univ	TRU	J-CCU	Selective L	iberal Arts C	Colleges	TRU	-SLA	General L	iberal Arts C	olleges	TRU	J-GLA
Satisfaction Index	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.57	1.30	2550	6.06	1.51	0.51	0.34	1800	6.38	1.52	0.19		2549	6.13	1.55	0.44	0.28
Male	71	6.48	1.36		5.94	1.49	0.54	0.36	642	6.26	1.53	0.22		1137	5.77	1.61	0.71	0.44
Female	154	6.61	1.28	1673	6.12	1.52	0.49	0.32	1158	6.44	1.51	0.17		1407	6.42	1.45	0.19	
Diff F-M		0.13			0.18					0.18					0.65			
Spring 1998	92	6.05	1.69	1239	6.34	1.41	-0.29		540	6.48	1.52	-0.43		596	5.73	1.55	0.32	
Male	22	5.05	1.62	454	6.23	1.42	-1.18	-0.83	301	6.30	1.54	-0.45 -1.25	-0.81	255	5.73	1.53	-0.36	
Female	70	6.37	1.60	785	6.41	1.39	-0.04	-0.03	237	6.69	1.48	-0.32	-0.07	340	5.97	1.53	0.40	
Diff F-M	70	1.32	1.00	703	0.18	1.00	-0.04		257	0.39	1.40	-0.52		340	0.56	1.55	0.40	
Spring 1999	493	6.25	1.47	3067	6.08	1.48	0.17		321	6.08	1.37	0.17		253	6.11	1.53	0.14	
Male	98	6.20	1.61	1043	5.93	1.52	0.27		124	5.95	1.31	0.25		110	5.76	1.57	0.44	
Female	392	6.26	1.44	2000	6.15	1.44	0.11		194	6.17	1.41	0.09		142	6.37	1.46	-0.11	
Diff F-M		0.06			0.22					0.22					0.61			
Spring 2000	186	6.20	1.55	3364	6.01	1.42	0.19		29	6.03	1.64	0.17		702	5.93	1.53	0.27	
Male	50	6.04	1.55	1112	6.01	1.42	0.03		7	5.86	1.95	0.18		305	5.74	1.55	0.30	
Female	135	6.29	1.53	2209	6.01	1.42	0.28		22	6.09	1.57	0.20		363	6.14	1.50	0.15	
Diff F-M		0.25			0.00					0.23					0.40			

# College Student Experience Questionnaire Freshman Activity Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

#### Scale: Very Often = 4, Often = 3, Ocassionally = 2, Never = 1

Third Edition (1997 & 1998), 10 Questions per Scale (Sum of Response Values X 10)
Fourth Edition (1999 & 2000), Varying Number of Questions per Scale (Sum of Response Values/Number of Questions)

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (1997 & 1998 <u>Truman Means</u> differ by 2.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Library Experiences			Truman		Compreher	nsive College	& Univ	TRU-	·CCU	Selective I	Liberal Arts C	Colleges	TRU	J-SLA	General Li	iberal Arts Co	olleges	TRU-	GLA
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	17.17	4.27	2555	18.08	5.00	-0.91		1809	19.61	4.78	-2.44	-0.51	2564	19.21	4.80	-2.04	-0.43
	Spring 1998	92	19.38	4.84	1240	17.71	4.72	1.67	0.35	544	20.25	5.02	-0.87		596	19.71	5.04	-0.33	
	Diff 98-97		2.21			-0.37					0.64					14.91			
		•																	
	Spring 1999	491	2.76	0.9769	3035	2.44	1.08	0.32	0.30	319	2.7022	1.0411	0.0575		254	2.7126	1.1176	0.0471	
	Spring 2000	186	2.81	1.0092	3344	2.33	1.12	0.48	0.43	28	2.3214	0.9833	0.4904		696	2.4799	1.0966	0.3319	
	Diff 2000-99		0.05			-0.11					-0.3808					-0.2327			
Computer and IT Scale			Truman		Compreher	nsive College	& Univ	TRU-	·CCU	Selective I	iberal Arts C	Colleges	TRU	J-SLA	General Li	iberal Arts Co	olleges	TRU-	GLA
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1999	491	3.24	0.91	3063	3.13	1.03	0.10		323	3.22	0.86	0.02		250	3.38	1.03	-0.14	
	Spring 2000	186	3.47	1.01	3339	3.18	1.11	0.29	0.27	29	3.14	1.06	0.34		700	3.33	1.10	0.14	
	Diff 2000-99		0.24			0.05					-0.08					-0.05			
Course Learning			Truman		Compreher	nsive College	& Univ	TRU-	·CCU	Selective I	Liberal Arts C	Colleges	TRU	J-SLA	General Li		olleges	TRU-	GLA
(Different Scale Used, hig	h to low)	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
,	Fall 1997	225	25.80	5.13	2555	26.76	5.72	-0.96		1805	27.67	5.57	-1.87	-0.34	2558	26.61	5.52	-0.81	
	Spring 1998	92	26.47	4.97	1241	26.60	5.56	-0.13		541	28.52	5.45	-2.05	-0.38	596	26.81	5.66	-0.34	
	Diff 98-97		0.67			-0.16					0.85					0.20			
	Spring 1999	485	4.08	0.92	3018	3.84	0.99	0.24	0.24	319	4.08	0.92	0.00		248	4.15	1.10	-0.07	
	Spring 2000	183	4.19	0.95	3282	3.81	1.01	0.37	0.37	28	4.04	0.92	0.15		688	4.00	0.95	0.18	
	Diff 2000-99		0.11			-0.03		5.51			-0.04					-0.15			
Experience in Writing			Truman		Compreher	sive College	& Univ	TRU-	·CCU	Selective I	Liberal Arts C	Colleges	TRU	J-SLA	General Li	iberal Arts Co	olleges	TRU-	GLA
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	224	22.28	5.93	2538	25.43	6.27	-3.15	-0.50	1796	26.62	6.10	-4.34	-0.71	2546	25.63	6.05	-3.35	-0.55
	Spring 1998	92	24.98	5.85	1237	24.89	6.08	0.09		537	25.12	5.73	-0.14		592	26.90	6.17	-1.92	-0.31
	Diff 98-97		2.70			-0.54					-1.50					1.27	•		
		•																	
	Spring 1999	488	3.77	0.98	3076	3.67	1.05	0.11		322	3.83	0.96	-0.05		255	3.79	1.08	-0.01	
	Spring 2000	188	3.68	1.03	3352	3.76	1.07	-0.08		30	3.67	0.76	0.01		702	3.85	1.01	-0.17	
	Diff 2000-99		-0.09			0.10					-0.16					0.07			

Experiences with Faculty	ſ		Truman		Comprehen	nsive College	e & Univ	TRU-	-CCU	Selective I	_iberal Arts (	Colleges	TRL	J-SLA	General Li	beral Arts Co	olleges	TRU-0	GLA
,		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998 Diff 98-97	225 92	17.09 19.65 <b>2.56</b>	4.06 4.05	2558 1242	19.15 18.87 -0.28	5.13 4.86	<b>-2.06</b> 0.78	-0.40	1808 543	21.05 21.55 0.50	5.13 5.00	-3.96 -1.90	<b>-0.77</b> -0.38	2564 596	20.48 21.51 1.03	5.14 5.34	-3.39 -1.86	<b>-0.66</b> -0.35
	Spring 1999 Spring 2000 Diff 2000-99	488 184	2.57 2.64 0.07	1.12 1.18	3035 3315	2.48 2.39 -0.09	1.21 1.20	0.09 0.25		321 29	2.45 2.69 0.24	1.11 1.17	0.12 -0.05		254 701	3.02 2.76 -0.26	1.24 1.23	-0.45 -0.13	-0.36 -0.10
Art, Music, & Theater		• • • • • • • • • • • • • • • • • • • •	Truman	0.0	Comprehen	sive College	e & Univ	TRU-			_iberal Arts (	o o o g o o		J-SLA	General Li	beral Arts Co	olleges	TRU-0	
	Fall 1997 Spring 1998 Diff 98-97	N 225 92	Mean 18.75 21.13 2.38	SD 5.02 5.02	N 2531 1237	Mean 18.56 18.30 -0.26	SD 6.74 6.01	Mean Diff 0.19 <b>2.83</b>	Effect Size 0.47	N 1797 541	Mean 21.66 22.73 1.07	SD 6.80 6.87	Mean Diff -2.91 -1.60	Effect Size -0.43	N 2545 19.51	Mean 19.32 6.70 -12.62	SD 6.69 594.00	Mean Diff -0.57 14.43	Effect Size
	Spring 1999 Spring 2000 Diff 2000-99	492 186	2.66 2.73 0.07	1.20 1.26	3025 3319	2.20 2.34 0.14	1.21 1.30	0.45 0.38	0.37 0.29	320 29	2.49 2.41 -0.07	1.34 1.27	0.17 0.31		251 697	2.46 2.25 -0.21	1.32 1.29	0.20 <b>0.47</b>	0.37
Campus Facilities	L		Truman	0.0	Comprehen		e & Univ	TRU-			iberal Arts			J-SLA	General Li		olleges	TRU-0	
Scale	Fall 1997 Spring 1998 Diff 98-97	N * *	Mean * * *	SD * *	N * *	Mean * * *	SD * *	Mean Diff  *  *  *	Effect Size	N * *	Mean * * *	SD * *	Mean Diff  *  *  *	Effect Size	N * *	Mean * * *	SD * *	Mean Diff  *  *  *	Effect Size
	Spring 1999	491	3.10	1.07	3030	2.64	1.17	0.46	0.39	319	3.04	1.14	0.06		248	3.06	1.24	0.04	
	Spring 2000 Diff 2000-99	185	3.26 0.16	1.05	3338	2.59 -0.05	1.22	0.67	0.55	29	2.76 -0.28	1.02	0.50		701	2.78 -0.28	1.27	0.48	0.38
Clubs & Organizations	Į.		Truman	0.0	Compreher	sive College	e & Univ	TRU-				Colleges		J-SLA	General Li		olleges	TRU-0	
	Fall 1997 Spring 1998 Diff 98-97	N 225 92	Mean 18.50 20.21 1.71	SD 5.09 6.17	N 2548 1239	Mean 16.99 17.53 0.54	SD 6.72 6.91	Mean Diff 1.51 2.68	Effect Size 0.22 0.39	N 1804 540	Mean 20.65 21.34 0.69	SD 6.76 6.72	Mean Diff -2.15 -1.13	Effect Size -0.32	N 2553 595	Mean 17.85 17.81 -0.04	SD 6.27 6.06	Mean Diff 0.65 <b>2.40</b>	Effect Size 0.40
Personal Experiences	Spring 1999 Spring 2000 Diff 2000-99	491 188	1.68 1.73 0.05 Truman	0.86 0.84	3061 3356 Compreher	1.47 1.39 -0.08	0.78 0.75	0.21 0.34 TRU-	0.26 0.45	320 29	1.31 1.45 0.14 Liberal Arts	0.61 0.69	<b>0.37</b> 0.28	<b>0.61</b> J-SLA	253 701 General Li	1.80 1.53 -0.27 beral Arts Co	0.98 0.79	-0.12 <b>0.20</b> TRU-	0.25
r croonar Experiences		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998 Diff 98-97	225 92	20.58 22.05 1.47	5.43 5.89	2534 1235	22.17 22.46 0.29	6.31 6.37	<b>-1.59</b> -0.41	-0.25	1797 536	23.37 22.77 -0.60	6.04 6.38	<b>-2.79</b> -0.72	-0.46	2550 594	22.18 23.04 0.86	6.24 6.64	<b>-1.60</b> -0.99	-0.26
	Spring 1999 Spring 2000 Diff 2000-99	489 187	3.48 3.52 0.04	1.26 1.26	3048 3354	3.35 3.40 0.05	1.30 1.35	0.13 0.12		321 30	3.31 3.10 -0.21	1.27 1.13	0.18 0.42		253 706	3.54 3.41 -0.13	1.30 1.35	-0.05 0.11	
Student Acquaintances	L	N	Truman	SD	Compreher N		e & Univ	TRU-		Selective L N	iberal Arts	Colleges SD	TRU Mean Diff	J-SLA	General Li N		olleges SD	TRU-(	
	Fall 1997 Spring 1998 Diff 98-97	225 92	Mean 24.44 25.63 1.19	6.48 6.30	2545 1239	Mean 25.25 24.83 -0.42	SD 7.09 6.99	Mean Diff -0.81 0.80	Effect Size	1801 540	Mean 27.44 28.17 0.73	6.46 6.74	-3.00 -2.54	Effect Size -0.46 -0.38	2550 596	Mean 26.08 26.72 0.64	6.69 7.06	Mean Diff -1.64 -1.09	Effect Size -0.25
	Spring 1999 Spring 2000 Diff 2000-99	488 186	3.63 3.66 0.03	1.27 1.23	3036 3331	3.35 3.33 -0.02	1.35 1.42	0.28 0.33	0.21 0.23	321 29	3.33 3.97 0.64	1.21 1.30	<b>0.30</b> -0.30	0.25	252 699	3.78 3.63 -0.14	1.31 1.36	-0.15 0.03	

Science/Quantitative Exp	eriences		Truman		Compreher	sive College	e & Univ	TRU-	CCU	Selective L	iberal Arts (	Colleges	TRU	J-SLA	General Li	beral Arts C	olleges	TRU-	GLA
·	Fall 1997 Spring 1998 Diff 98-97	N 225 91	Mean 17.28 19.97 <b>2.69</b>	SD 6.04 5.71	N 2540 1233	Mean 17.58 18.17 0.59	SD 6.95 7.14	Mean Diff -0.30 1.80	Effect Size	N 1787 536	Mean 18.31 19.10 0.79	SD 7.38 7.15	Mean Diff -1.03 0.87	Effect Size	N 2540 595	Mean 17.12 18.30 1.18	SD 6.95 7.48	Mean Diff 0.16 1.67	Effect Size
Tarias of Conversation	Spring 1999 Spring 2000 Diff 2000-99	490 186	3.08 3.05 -0.03	1.32 1.37	3038 3315	2.62 2.42 -0.19	1.41	0.46 0.63 TRU-	0.33 0.47	322 30	2.46 2.07 -0.40	1.42 1.44	0.61 0.98	0.43 <b>0.68</b> J-SLA	253 697	2.71 2.59 -0.12	1.50 1.39	0.36 0.46 TRU-	0.24 0.33
Topics of Conversation		N	Truman Mean	SD	N	nsive College Mean	SD SD	Mean Diff	Effect Size	N Selective I	Liberal Arts ( Mean	SD	Mean Diff	Effect Size	General Li N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998 Diff 98-97	225 91	19.29 20.75 1.46	5.18 5.43	2529 1229	20.48 20.34 -0.14	5.92 5.63	<b>-1.19</b> 0.41	-0.20	1787 535	22.03 23.83 1.80	5.50 5.72	-2.74 -3.08	<b>-0.50</b> -0.54	2532 593	20.42 20.62 0.20	5.72 5.60	<b>-1.13</b> 0.13	-0.20
	Spring 1999 Spring 2000 Diff 2000-99	491 187	3.01 2.97 -0.04	1.15 1.12	3035 3309	2.81 2.86 0.05	1.16 1.21	<b>0.20</b> 0.12	0.17	319 29	2.97 2.86 -0.11	1.07 1.22	-1.81 0.11		247 682	2.88 3.00 0.11	1.22 1.24	0.13 -0.02	
Information in			Truman			sive College		TRU-			iberal Arts (			J-SLA	General Li		olleges	TRU-	
Conversations	Fall 1997 Spring 1998 Diff 98-97	N 225 91	Mean 12.36 13.38 1.02	SD 3.08 3.68	N 2534 1232	Mean 13.55 13.32 -0.23	SD 3.64 3.54	Mean Diff -1.19 0.06	Effect Size -0.33	N 1793 539	Mean 14.18 14.87 0.69	SD 3.41 3.57	Mean Diff -1.82 -1.49	<b>-0.53</b> -0.42	N 2539 596	Mean 13.48 13.65 0.17	SD 3.60 3.63	Mean Diff -1.12 -0.27	Effect Size -0.31
	Spring 1999 Spring 2000 Diff 2000-99	489 182	2.96 3.05 0.09	0.87 0.94	3003 3286	2.95 2.96 0.01	0.94 0.99	0.01 0.09		317 28	3.06 2.96 -0.09	0.91 0.88	-0.10 0.09		249 679	3.07 3.09 0.02	1.00 1.00	-0.12 -0.04	
Student Union/Center			Truman	SD	Compreher		e & Univ	TRU-			iberal Arts (			J-SLA	General Li		olleges	TRU-	
	Fall 1997 Spring 1998 Diff 98-97	N 224 92	Mean 19.03 21.16 2.13	4.74 4.64	N 2545 1237	Mean 20.41 20.61 0.20	SD 6.50 6.58	Mean Diff -1.38 0.55	Effect Size -0.21	N 1774 540	Mean 20.13 22.65 2.52	SD 6.62 6.09	Mean Diff -1.10 -1.49	Effect Size	N 2527 594	Mean 20.99 20.40 -0.59	SD 6.34 6.24	Mean Diff -1.96 0.76	Effect Size -0.31
	Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 2000	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Athletic and Decreation	Diff 2000-99	*	*	*	*	*	*	*	COLL	*	*	*	* TDI	LCLA	*	*	*	*	OL A
Athletic and Recreation Facilities		N	Truman Mean	SD	Compreher N	nsive College Mean	SD SD	TRU- Mean Diff	Effect Size	Selective L N	Liberal Arts ( Mean	Colleges SD	Mean Diff	J-SLA Effect Size	General Li N	beral Arts Co Mean	SD	TRU- Mean Diff	Effect Size
	Fall 1997 Spring 1998 Diff 98-97	225 92	18.09 19.32 1.23	5.92 5.71	2541 1239	18.58 20.01 1.43	7.74 7.64	-0.49 -0.69	2.1001 0.120	1803 540	22.28 21.31 -0.97	8.14 7.69	<b>-4.19</b> -1.99	-0.51	2555 595	22.26 21.96 -0.30	8.76 8.25	-4.17 -2.64	-0.48 -0.32
	Spring 1999	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
		*		4		*	*	*		*	*	*	*		*	*	*	*	
	Spring 2000		*	*			*				*		*		*	*	*	*	
Campus Residence	Diff 2000-99	*	* Truman	:	Compreher	*	* e & Univ	* TRU-	CCU	* Selective I	* iberal Arts (	-	* TRI	J-SLA	* General Li	* beral Arts Co	* olleges	* TRU-	GLA
Campus Residence		* N	Truman Mean	sD	* Compreher	* nsive College Mean	* e & Univ SD	* TRU- Mean Diff	CCU Effect Size	* Selective L	* Liberal Arts ( Mean	-	* TRU	J-SLA Effect Size	* General Li N	* beral Arts Co	* Olleges SD	* TRU- Mean Diff	GLA Effect Size
Campus Residence				SD 5.90 5.78	2.5							Colleges					olleges		
Campus Residence	Diff 2000-99 Fall 1997 Spring 1998	N 225	Mean 23.32 24.34	5.90	N 1875	Mean 24.40 24.24	SD 7.52	Mean Diff -1.08		N 1750	Mean 26.49 25.54	SD 6.42	Mean Diff -3.17	Effect Size	N 2354	Mean 25.14 25.42	SD 7.15	Mean Diff -1.82	Effect Size

# College Student Experience Questionnaire Freshman Environment Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

### Scale: Strong Emphasis = 7 to Weak Emphasis = 1

Third Edition (1997 & 1998) Fourth Edition (1999 & 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group

Bold Italic = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group

**Bold =** Significant Differences (<u>Truman Means</u> differ by 1.0 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Emphasis on Developing Academic,		Truman		Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective	Liberal Arts	Colleges	TRU-	-SLA	General L	iberal Arts C	olleges	TRU-	-GLA
Scholarly, and Intellectual Qualities	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997		6.40	0.74	2538	5.41	1.20	0.99	0.83	1798	5.97	1.02	0.43	0.42	2544	5.50	1.18	0.90	0.76
Spring 1998			0.95	1230	5.48	1.16	0.54	0.47	538	6.03	1.05	-0.01		595	5.47	1.23	0.55	0.45
Diff 98-97	,	-0.38			0.07					0.06					-0.03			
Spring 1999			0.99	3068	5.39	1.16	0.67	0.58	323	6.07	0.89	-0.01		256	5.65	1.22	0.41	0.34
Spring 2000		6.12	0.90	3364	5.34	1.18	0.78	0.66	30	5.67	1.32	0.45		706	5.57	1.19	0.55	0.46
Diff 2000-99		0.06			-0.05	0.11.1	TDU	0011	0 1 "	-0.40	0 "		0.4		-0.08		<b></b>	01.4
Emphasis on Developing Aesthetic,		Truman			nsive Colleg			-CCU		Liberal Arts	U	TRU	_		iberal Arts C	Ü	TRU	
Expressive, and Creative Qualities	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD		Effect Size
Fall 199		5.30	1.06	2539	4.88	1.28	0.42	0.33	1794	5.24	1.23	0.06		2542	5.02	1.30	0.28	0.22
Spring 1998			1.20	1230	4.87	1.22	0.13		537	5.20	1.36	-0.20		595	4.88	1.27	0.12	
Diff 98-97	•	-0.30			-0.01					-0.04					-0.14			
Spring 1999	493	5.09	1.19	3061	4.86	1.30	0.23	0.18	323	5.54	1.15	-0.45	-0.39	256	5.27	1.25	-0.18	
Spring 1999 Spring 2000		5.09	1.19	3366	4.86	1.26	0.23	0.18	30	5.00	1.15	0.15	-0.39	704	4.95	1.23	0.20	
Diff 2000-9		0.06	1.24	3300	0.00	1.20	0.29	0.23	30	-0.54	1.55	0.15		704	5.27	1.57	0.20	
Diii 2000 5	,	0.00																
Emphasis on Reing Critical		Truman		Comprehe	nsive Colleg	e & I Iniv	TRII	CCII	Selective	iheral Arts	Colleges	TRI I.	SLA	General I	_	olleges	TRU	GI A
Emphasis on Being Critical,	N	Truman			nsive Colleg			-CCU Effect Size		Liberal Arts	5	TRU-	_		iberal Arts C	J	TRU-	
Evaluative, and Analytical	N 225	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	-SLA Effect Size	N	iberal Arts C Mean	SD	Mean Diff	Effect Size
Evaluative, and Analytical Fall 199	225	Mean 5.69	SD 0.94	N 2532	Mean 5.05	SD 1.22	Mean Diff 0.64	Effect Size 0.52	N 1795	Mean 5.60	SD 1.10	Mean Diff 0.09	_	N 2545	iberal Arts C Mean 5.13	SD 1.25	Mean Diff 0.56	Effect Size 0.45
Evaluative, and Analytical Fall 1993 Spring 1998	7 225 3 92	Mean 5.69 5.52	SD	N	Mean 5.05 5.07	SD	Mean Diff	Effect Size	N	Mean 5.60 5.64	SD	Mean Diff	_	N	Mean 5.13 5.10	SD	Mean Diff	Effect Size
Evaluative, and Analytical Fall 199	7 225 3 92	Mean 5.69	SD 0.94	N 2532	Mean 5.05	SD 1.22	Mean Diff 0.64	Effect Size 0.52	N 1795	Mean 5.60	SD 1.10	Mean Diff 0.09	_	N 2545	iberal Arts C Mean 5.13	SD 1.25	Mean Diff 0.56	Effect Size 0.45
Evaluative, and Analytical Fall 1993 Spring 1998	225 3 92	Mean 5.69 5.52	SD 0.94	N 2532	Mean 5.05 5.07	SD 1.22	Mean Diff 0.64	Effect Size 0.52	N 1795	Mean 5.60 5.64	SD 1.10	Mean Diff 0.09	_	N 2545	Mean 5.13 5.10	SD 1.25	Mean Diff 0.56	Effect Size 0.45
Evaluative, and Analytical Fall 199 Spring 1998 Diff 98-9	225 3 92 7 493	Mean 5.69 5.52 -0.17 5.62	SD 0.94 1.10	N 2532 1228	Mean 5.05 5.07 0.02	SD 1.22 1.16	Mean Diff 0.64 0.45	Effect Size <b>0.52</b> 0.39	N 1795 538	Mean 5.60 5.64 0.04	SD 1.10 1.20	Mean Diff 0.09 -0.12	_	N 2545 595	iberal Arts C Mean 5.13 5.10 -0.03	SD 1.25 1.23	Mean Diff 0.56 0.42	Effect Size 0.45 0.34
Evaluative, and Analytical Fall 1993 Spring 1994 Diff 98-93 Spring 1998	225 3 92 7 493 0 185	Mean 5.69 5.52 -0.17 5.62	SD 0.94 1.10	N 2532 1228	Mean 5.05 5.07 0.02 5.05	SD 1.22 1.16	Mean Diff 0.64 0.45	Effect Size 0.52 0.39	N 1795 538	Mean 5.60 5.64 0.04 5.65	SD 1.10 1.20	Mean Diff 0.09 -0.12	_	N 2545 595 257	Mean 5.13 5.10 -0.03	SD 1.25 1.23	Mean Diff 0.56 0.42	Effect Size 0.45 0.34
Evaluative, and Analytical Fall 1993 Spring 1994 Diff 98-93 Spring 1998 Spring 2006	225 3 92 7 493 0 185	Mean 5.69 5.52 -0.17 5.62 5.64	SD 0.94 1.10 1.11 1.06	N 2532 1228 3065 3357	Mean 5.05 5.07 0.02 5.05 5.01	SD 1.22 1.16 1.21 1.20	Mean Diff 0.64 0.45 0.57 0.63	Effect Size 0.52 0.39	N 1795 538 323 30	Mean 5.60 5.64 0.04 5.65 5.30	SD 1.10 1.20 1.06 1.37	Mean Diff 0.09 -0.12	Effect Size	N 2545 595 257 703	Mean 5.13 5.10 -0.03 5.33 5.14	SD 1.25 1.23 1.33 1.22	Mean Diff 0.56 0.42 0.29 0.50	Effect Size 0.45 0.34
Evaluative, and Analytical Fall 1997 Spring 1998 Diff 98-97 Spring 1998 Spring 2000 Diff 2000-98	225 3 92 7 493 0 185	Mean 5.69 5.52 -0.17 5.62 5.64 0.02	SD 0.94 1.10 1.11 1.06	N 2532 1228 3065 3357	Mean 5.05 5.07 0.02 5.05 5.01 -0.04	SD 1.22 1.16 1.21 1.20	Mean Diff 0.64 0.45 0.57 0.63	0.52 0.39 0.47 0.53	N 1795 538 323 30	Mean 5.60 5.64 0.04 5.65 5.30 -0.35	SD 1.10 1.20 1.06 1.37	Mean Diff 0.09 -0.12 -0.03 0.34	Effect Size	N 2545 595 257 703	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19	SD 1.25 1.23 1.33 1.22	Mean Diff 0.56 0.42 0.29 0.50	0.45 0.34 0.22 0.41
Evaluative, and Analytical Fall 1997 Spring 1994 Diff 98-97 Spring 2000 Spring 2000 Diff 2000-98 Environmental Emphasis:	225 3 92 7 493 1 185 N	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman	SD 0.94 1.10 1.11 1.06	N 2532 1228 3065 3357	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 nsive Colleg	SD 1.22 1.16 1.21 1.20	Mean Diff 0.64 0.45 0.57 0.63	0.52 0.39 0.47 0.53	N 1795 538 323 30 Selective	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Liberal Arts	SD 1.10 1.20 1.06 1.37	Mean Diff 0.09 -0.12 -0.03 0.34 TRU- Mean Diff	Effect Size	N 2545 595 257 703 General L	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19	SD 1.25 1.23 1.33 1.22	Mean Diff 0.56 0.42 0.29 0.50	0.45 0.34 0.22 0.41
Evaluative, and Analytical Fall 1993 Spring 1994 Diff 98-93 Spring 2000 Diff 2000-99 Environmental Emphasis: Diversity Fall 1993 Spring 1994	225 3 92 7 493 1 185 N *	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman	SD 0.94 1.10 1.11 1.06	N 2532 1228 3065 3357 Comprehe	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 nsive Colleg	SD 1.22 1.16 1.21 1.20 e & Univ	Mean Diff 0.64 0.45 0.57 0.63	0.52 0.39 0.47 0.53	N 1795 538 323 30 Selective	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Liberal Arts	1.10 1.20 1.06 1.37 Colleges	Mean Diff 0.09 -0.12 -0.03 0.34 TRU-	Effect Size	N 2545 595 257 703 General L	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19 iberal Arts C	SD 1.25 1.23 1.33 1.22 olleges	0.56 0.42 0.29 0.50 TRU	0.45 0.34 0.22 0.41
Evaluative, and Analytical Fall 1993 Spring 1994 Diff 98-93 Spring 2000 Diff 2000-93 Environmental Emphasis: Diversity Fall 1993	225 3 92 7 493 1 185 N *	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman	SD 0.94 1.10 1.11 1.06	N 2532 1228 3065 3357 Comprehe N	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 nsive Colleg	SD 1.22 1.16 1.21 1.20 e & Univ	Mean Diff 0.64 0.45 0.57 0.63	0.52 0.39 0.47 0.53	N 1795 538 323 30 Selective	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Liberal Arts	1.10 1.20 1.06 1.37 Colleges	Mean Diff 0.09 -0.12 -0.03 0.34 TRU- Mean Diff	Effect Size	N 2545 595 257 703 General L	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19 (beral Arts Comment of the co	SD 1.25 1.23 1.33 1.22 olleges	0.56 0.42 0.29 0.50 TRU	0.45 0.34 0.22 0.41
Evaluative, and Analytical Fall 1997 Spring 1998 Diff 98-93 Spring 2000 Diff 2000-98 Environmental Emphasis: Diversity Fall 1997 Spring 1998 Diff 98-93	225 3 92 9 493 185 N * *	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman Mean * *	0.94 1.10 1.11 1.06	N 2532 1228 3065 3357 Comprehe N *	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 msive Colleg Mean * *	SD 1.22 1.16 1.21 1.20 e & Univ SD *	0.64 0.45 0.57 0.63 TRU Mean Diff	Effect Size	N 1795 538 323 30 Selective N *	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Mean *	1.10 1.20 1.06 1.37 Colleges SD *	Mean Diff 0.09 -0.12 -0.03 0.34 TRU- Mean Diff *	Effect Size  SLA  Effect Size	N 2545 595 257 703 General L N *	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19	SD 1.25 1.23 1.23 1.33 1.22 olleges SD *	0.56 0.42 0.29 0.50 TRU Mean Diff	0.45 0.34 0.22 0.41 -GLA Effect Size
Evaluative, and Analytical Fall 1997 Spring 1998 Diff 98-93 Spring 2000 Diff 2000-98 Environmental Emphasis: Diversity Fall 1997 Spring 1998 Diff 98-93 Spring 1998	225 92 7 92 9 493 185 9 N N 7 * * * * * * * * * * * * * * * * *	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman Mean * 4.63	0.94 1.10 1.11 1.06 SD *	N 2532 1228 3065 3357 Comprehe N * * * 3064	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 nsive Colleg Mean * 4.90	SD 1.22 1.16 1.21 1.20 e & Univ SD * * * * 1.45	0.64 0.45 0.57 0.63 TRU Mean Diff * *	Effect Size	N 1795 538 323 30 Selective N * *	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Liberal Arts Mean * * * 5.33	1.10 1.20 1.06 1.37 Colleges SD * *	Mean Diff 0.09 -0.12 -0.03 0.34 TRU- Mean Diff * *	Effect Size  SLA  Effect Size	N 2545 595 257 703 General L N * *	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19 iberal Arts C Mean * * * 5.32	SD 1.25 1.23 1.33 1.22 olleges SD * * * 1.49	0.56 0.42 0.29 0.50 TRU Mean Diff * *	0.45 0.34 0.22 0.41
Evaluative, and Analytical Fall 1997 Spring 1998 Diff 98-93 Spring 2000 Diff 2000-98 Environmental Emphasis: Diversity Fall 1997 Spring 1998 Diff 98-93	225 3 92 9 493 1 185 9 * 1 * 1 493 1 186	Mean 5.69 5.52 -0.17 5.62 5.64 0.02 Truman Mean * 4.63	0.94 1.10 1.11 1.06	N 2532 1228 3065 3357 Comprehe N *	Mean 5.05 5.07 0.02 5.05 5.01 -0.04 msive Colleg Mean * *	SD 1.22 1.16 1.21 1.20 e & Univ SD *	0.64 0.45 0.57 0.63 TRU Mean Diff	Effect Size	N 1795 538 323 30 Selective N *	Mean 5.60 5.64 0.04 5.65 5.30 -0.35 Mean *	1.10 1.20 1.06 1.37 Colleges SD *	Mean Diff 0.09 -0.12 -0.03 0.34 TRU- Mean Diff *	Effect Size  SLA  Effect Size	N 2545 595 257 703 General L N *	Mean 5.13 5.10 -0.03 5.33 5.14 -0.19	SD 1.25 1.23 1.23 1.33 1.22 olleges SD *	0.56 0.42 0.29 0.50 TRU Mean Diff	0.45 0.34 0.22 0.41 -GLA Effect Size

### Environment

Environmental Emphasis:		Truman		Comprehe	nsive Colleg	e & Univ	TRU	-CCU	Selective	Liberal Arts	Colleges	TRU	I-SLA	General L	iberal Arts C	Colleges	TRU	-GLA
Information Literacy Skills	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
Spring 1999	492	5.11	1.34	3061	5.31	1.28	-0.20		323	5.32	1.21	-0.21		255	5.29	1.27	-0.18	
Spring 2000	186	5.11	1.19	3358	5.30	1.27	-0.19		30	4.97	1.30	0.14		702	5.47	1.26	-0.36	-0.29
Diff 2000-99		0.00		_	-0.01					-0.35					0.18			
Emphasis on Developing Vocational		Truman		Comprehe	nsive Colleg			-CCU		Liberal Arts	<u> </u>		I-SLA	General L	iberal Arts C			-GLA
and Occupational Competence	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	
Fall 1997	225	4.92	1.25	2540	4.79	1.32	0.13		1797	4.71	1.40	0.21		2543	4.86	1.34	0.06	
Spring 1998	92		1.4	1227	4.82	1.27	-0.41		535	4.13	1.58	0.28		593	4.82	1.38	-0.41	
Diff 98-97		-0.51			0.03					-0.58					-0.04			
0.14000	400	4.40	4.40	0000	4.04	4.07	0.00	0.00	000	4.05	4.05	0.47	0.05	050	4.00	4 47	0.45	0.04
Spring 1999	492		1.46	3066	4.84	1.37	-0.36		323	4.95	1.35	-0.47	-0.35		4.93	1.47		-0.31
Spring 2000	186	4.30	1.42	3359	4.83	1.36	-0.53	-0.39	30	4.60	1.54	-0.30		701	4.99	1.38	-0.69	-0.50
Diff 2000-99		-0.18			-0.01					-0.35					0.06			<u> </u>
Emphasis on Personal Relevance		Truman			nsive Colleg			-CCU		Liberal Arts			I-SLA		iberal Arts C	U		-GLA
and Practical Value of Courses	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size	N	Mean	SD		Effect Size
Fall 1997	225	5.04	1.20	2539	4.90	1.36	0.14		1793	4.99	1.30	0.05		2545	5.11	1.28	-0.07	
Spring 1998	92		1.36	1230	4.96	1.28	-0.44	-0.34	537	4.86	1.42	-0.34		594	4.94	1.40	-0.42	
Diff 98-97		-0.52			0.06					-0.13					-0.17			
Caring 1000	402	4.64	1 11	2062	4.06	1 27	0.25	0.40	202	F 0F	1 20	0.64	0.40	054	E 10	1 11	0.54	0.26
Spring 1999	493 186	4.61	1.41	3063	4.86	1.37 1.40	-0.25		323	5.25	1.30	-0.64	-0.49	254 702	5.12	1.41	-0.51	-0.36
Spring 2000	186		1.43	3361	4.87	1.40	-0.53	-0.38	30	5.03	1.45	-0.69		702	5.06	1.39	-0.72	-0.52
Diff 2000-99		-0.27			0.01					-0.22					-0.06			

# Scale: Friendly, Supportive, Sense of belonging = 7 to Competitive, Uninvolved, Sense of alienation = 1

Relationships with other students		Truman		Comprehe	ensive Colle	ge & Univ	TRU	-CCU	Selective	Liberal Arts	Colleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU	-GLA
	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.83	1.05	2539	5.37	1.44	0.46	0.32	1798	5.66	1.31	0.17		2549	5.65	1.30	0.18	
Spring 1998	92	5.65	1.36	1232	5.51	1.36	0.14		537	5.67	1.30	-0.02		592	5.54	1.35	0.11	
Diff 98-97		-0.18			0.14					0.01					-0.11			
Spring 1999	492	5.85	1.14	3068	5.73	1.27	0.12		323	5.90	1.13	-0.05		257	5.89	1.25	-0.04	
Spring 2000	187	5.87	1.21	3367	5.62	1.32	0.25		29	5.59	1.27	0.28		703	5.89	1.19	-0.02	
Diff 2000-99		0.02			-0.11					-0.31					0.00			

## Scale: Helpful, Considerate, Flexible = 7 to Rigid, Impersonal, Bound by Regulations = 1

Relationships with administrative		Truman		Comprehe	nsive Colleg	ge & Univ	TRU	-CCU	Selective	Liberal Arts	Colleges	TRU	-SLA	General L	iberal Arts C	Colleges	TRU	-GLA
personnel and offices	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.05	1.27	2538	4.57	1.59	0.48	0.30	1795	4.63	1.50	0.42	0.28	2544	4.80	1.48	0.25	
Spring 1998	92	4.62	1.55	1231	4.76	1.50	-0.14		534	4.68	1.58	-0.06		592	4.90	1.52	-0.28	
Diff 98-97		-0.95			-0.33					-0.88					-0.53			
Spring 1999	493	4.97	1.34	3068	4.86	1.42	0.11		323	5.18	1.31	-0.21		256	5.34	1.45	-0.37	-0.26
Spring 2000	187	5.01	1.52	3365	4.81	1.47	0.20		30	4.70	1.49	0.31		703	5.21	1.38	-0.20	
Diff 2000-99		0.04			-0.05					-0.48					-0.13			

## Scale: Approachable, Helpful, Understanding, Encouraging = 7 to Remote, Discouraging, Unsympathetic = 1

Relationships with faculty members		Truman		Comprehe	ensive Colleç	ge & Univ	TRU	-CCU	Selective	Liberal Arts	Colleges	TRU	-SLA	General Li	beral Arts C	Colleges	TRU	-GLA
·	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	5.57	1.11	2539	5.09	1.45	0.48	0.33	1797	5.56	1.20	0.01		2543	5.43	1.27	0.14	
Spring 1998	92	5.47	1.10	1232	5.21	1.36	0.26		538	5.63	1.18	-0.16		591	5.43	1.36	0.04	
Diff 98-97		-0.10			0.12					0.07					0.00			
Spring 1999	493	5.40	1.17	3069	5.12	1.38	0.28	0.20	323	5.62	1.15	-0.22		256	5.59	1.37	-0.19	
Spring 2000	187	5.39	1.22	3365	5.06	1.38	0.33	0.24	30	5.43	1.28	-0.04		704	5.45	1.30	-0.06	
Diff 2000-99		-0.01			-0.06					-0.19					-0.14			

TRU-CCU

#### **College Student Experience Questionnaire**

#### Freshman Estimate of Gains Scale Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

#### Scale: Very Much = 4, Quite a Bit = 3, Some = 2, Very Little = 1

Third Edition (97-98) Fourth Edition (99-00)

Vocational training, acquiring knowledge & skills

**Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (<u>Truman Means</u> differ by 0.3 or more per 1997 CSEQ manual)

Truman

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

TRU-GLA

Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

TRU-SLA

applicable to a specific job or type of work Mean Mean Mean Diff Mean Mean Diff Mean Mean Diff Effect Size Fall 1997 225 1.70 0.79 2520 2.10 0.86 -0.471791 2.06 0.82 -0.36 -0.44 2531 2.25 0.86 1230 0.81 -0.32 536 592 2.26 0.84 -0.43 Spring 1998 92 1.83 0.69 2.09 -0 2 1.91 0.80 -0.08 -0.51 Diff 98-97 0.13 -0.01 -0.15 0.01 Spring 1999 495 2.18 0.85 3083 2.43 0.86 -0.25 -0.29323 2.42 0.76 -0.24 -0.32253 2.58 0.86 -0.47 Spring 2000 3357 2.38 0.85 705 2.58 0.87 187 2 07 0.84 -0.31 -0.3630 2.40 0.86 -0.33 -0.51 -0.59 Diff 2000-99 -0.11 -0.05 -0.02 0.00 Truman TRU-CCU TRU-SLA TRU-GLA Acquiring background & specialization for further al Arts education in professional, scientific, or scholarly field Mean Diff Mean SD Mean SD Mean Diff Effect Size Mean SD Effect Size Mean SD Mean Diff Effect Size Fall 1997 225 2.10 0.83 2513 2.29 0.85 2.47 0.85 2533 0.82 -0.19 1789 -0.37-0.44 2.40 -0.30 -0.37Spring 1998 92 2.29 0.82 1230 2.33 0.82 -0.04 536 2.60 0.88 -0.31 -0.35 592 2.35 0.83 -0.06 Diff 98-97 0.19 0.04 0.13 -0.05 Spring 1999 494 2.46 0.83 3080 2.47 0.83 -0.01 323 2.44 0.76 0.02 253 2.56 0.84 -0.10 Spring 2000 187 2.38 0.84 3353 2.38 0.83 0.00 30 2.67 0.84 -0.29 705 2.50 0.84 -0.12 Diff 2000-99 -0.08 -0.09 0.23 -0.06 TRU-CCU TRU-SLA TRU-GLA Gaining a broad general education about different Truman I Arts Effect Size fields of knowledge Mean Diff Mean Diff Mean SD Ν Mean SD Mean SD Mean SD Mean Diff Fall 1997 225 2.62 0.88 2516 2.55 0.80 0.07 1786 2.89 0.79 -0.34 2530 2.66 0.81 -0.04 -0.27 Spring 1998 92 2.72 0.72 1231 2.65 0.81 0.07 537 2.99 0.78 -0.27 -0.35 591 2.63 0.80 0.09 Diff 98-97 0.10 0.44 -0.26 -0.03 Spring 1999 495 2.89 0.79 3072 2.74 0.78 0.15 0.19 323 2.92 0.74 -0.03 253 2.77 0.78 0.12 Spring 2000 186 2.91 0.71 3345 2.70 0.79 0.21 0.27 30 2.70 0.84 0.21 703 2.71 0.81 0.20 0.25 Diff 2000-99 0.02 -0.04 -0.22 -0.06 Gaining a range of information that may be relevant ruman TRU-CCU I Arts TRU-SLA TRU-GLA to a career Mean SD Ν Mean SD Mean Diff Effect Size Mean SD Mean Diff Effect Size Mean SD Mean Diff Effect Size Fall 1997 0.83 2.68 0.80 2525 2.67 0.82 225 2.33 0.83 2520 2.55 -0.22 -0.271786 -0.35-0.44-0.34 -0.41Spring 1998 92 2.50 0.72 1227 2.56 0.79 -0.06 537 2.61 0.83 -0.11 592 2.68 0.87 -0.18 Diff 98-97 0.17 0.01 -0.07 0.01 494 0.85 3067 2.70 0.82 -0.19 -0.23 323 2.75 0.77 -0.24 -0.31 251 2.86 0.76 -0.46 Spring 1999 2.51 -0.35 Spring 2000 186 2.49 0.88 3344 2.59 0.85 -0.10 30 2.73 0.94 -0.24 702 2.81 0.83 -0.32 -0.39 Diff 2000-99 -0.02 -0.11 -0.02 -0.05 Developing an understanding and enjoyment of art, ruman TRU-GLA music, and drama Mean SD Mean SD Mean Diff Effect Size Mean SD Mean Diff Effect Size Mean SD Mean Diff Effect Size Fall 1997 225 2.03 0.95 2515 1.98 0.98 0.05 1782 2.33 1.01 -0.30 -0.30 2523 2.03 1.01 0.00 Spring 1998 1227 0.94 591 92 2.36 0.92 1.97 0.39 0.41 537 2.28 0.97 0.08 2.07 0.98 0.29 Diff 98-97 -0.01 -0.05 0.04 Spring 1999 493 2.38 0.97 3071 2.12 0.97 0.26 0.27 323 2.33 1.00 0.05 253 2.27 0.97 0.11 Spring 2000 186 2.46 0.91 3350 2.20 0.99 0.26 0.26 30 1.97 0.89 0.49 703 2.12 1.05 0.34 0.32 Diff 2000-99 0.08 0.08 -0.36 -0.15

Broadening your acquaintance and enjoyment of			Truman		Compreher	nsive College	e & Univ	TRU	·CCU	Selective L	iberal Arts C	olleges	TRU	I-SLA	General Li	beral Arts C	olleges	TRU-	GLA
literature	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998	222 92	1.99 2.11	0.88 0.86	2510 1227	2.02 2.07	0.87 0.88	-0.03 0.04		1783 537	2.35 2.40	0.89 0.93	-0.36 -0.29	-0.40 -0.31	2526 590	2.09 2.13	0.89 0.86	-0.10 -0.02	
	Diff 98-97	92	0.12	0.00	1227	0.05	0.00	0.04		537	0.05	0.93	-0.29	-0.31	590	0.04	0.00	-0.02	
	5 00 01					0.00					0.00								
	Spring 1999	495	2.26	0.91	3068	2.14	0.89	0.12	0.13	323	2.33	0.86	-0.07		253	2.32	0.92	-0.06	
	Spring 2000 Diff 2000-99	187	2.19 -0.07	0.91	3348	2.16 0.02	0.88	0.03		30	2.23 -0.10	1.04	-0.04		704	2.15 -0.17	0.93	0.04	
Seeing the importance of history for understanding	DIII 2000-99		Truman		Compreher		e & Univ	TRU	·CCU	Selective L	beral Arts C	olleges	TRU	I-SLA	General Li	-0.17 beral Arts C	olleges	TRU-	GLA
the present and the past	-	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.01	0.91	2514	2.30	0.91	-0.29	-0.32	1780	2.43	0.89	-0.42	-0.47	2526	2.35	0.91	-0.34	-0.37
	Spring 1998	90	2.22	0.86	1228	2.33	0.9	-0.11		536	2.57	0.95	-0.35	-0.37	591	2.37	0.88	-0.15	
	Diff 98-97		0.21			0.03					0.14					0.02			
	Spring 1999	494	2.15	0.92	3076	2.24	0.91	-0.09		323	2.26	0.81	-0.11		253	2.27	0.98	-0.12	
	Spring 2000	187	2.18	0.93	3349	2.27	0.91	-0.09		30	2.53	1.04	-0.35		703	2.29	0.94	-0.11	
	Diff 2000-99		0.03		0	0.03	0 11-5.	TDU	0011	O a la ationa la	0.27		TDI	I-SLA	General Li	0.02		TDU	01.4
Gaining knowledge about other parts of the world and other people	L	N	Truman Mean	SD	Compreher	nsive College Mean	SD	Mean Diff	CCU Effect Size	Selective Li	Mean	olleges SD	Mean Diff	Effect Size	N N	beral Arts C Mean	SD	TRU- Mean Diff	Effect Size
and other people	Fall 1997	224	1.94	0.97	2511	2.10	0.95	-0.16	LIICGI OIZC	1780	2.25	0.94	-0.31	-0.33	2523	2.05	0.93	-0.11	Lifect Oize
	Spring 1998	91	1.99	0.81	1227	1.97	0.90	0.02		536	2.54	0.96	-0.55	-0.57	590	2.14	0.89	-0.15	
	Diff 98-97		0.05			-0.13					0.29					0.09			
	Spring 1999	493	2.06	0.95	3071	2.11	0.91	-0.05		323	2.06	0.84	0.00		252	2.27	0.96	-0.21	
	Spring 2000	187	2.15	0.92	3344	2.11	0.92	0.04		29	2.34	0.94	-0.19		703	2.12	0.93	0.03	
	Diff 2000-99		0.09			0.00					0.28					-0.15			
	-											_							
Writing clearly and effectively		N	Truman	OD		nsive College			CCU		iberal Arts C			I-SLA		beral Arts C	olleges	TRU-	
Writing clearly and effectively	Fall 1997	N 225	Truman Mean	SD 0.86	N	nsive College Mean	SD	Mean Diff	Effect Size	N	iberal Arts Co Mean	SD	Mean Diff	Effect Size	N	beral Arts C Mean	olleges SD	Mean Diff	Effect Size
Writing clearly and effectively	Fall 1997 Spring 1998	N 225 92	Truman	SD 0.86 0.80		nsive College					iberal Arts C					beral Arts C	olleges SD 0.83		
Writing clearly and effectively		225	Truman Mean 2.30	0.86	N 2515	nsive College Mean 2.63	SD 0.82	Mean Diff -0.33	Effect Size	N 1785	Mean 2.75	SD 0.84	Mean Diff -0.45	Effect Size	N 2528	beral Arts C Mean 2.66	0.83	Mean Diff -0.36	Effect Size
Writing clearly and effectively	Spring 1998 Diff 98-97	225 92	Truman Mean 2.30 2.66 0.36	0.86 0.80	N 2515 1229	Mean 2.63 2.57 -0.06	SD 0.82 0.83	Mean Diff -0.33 0.09	Effect Size	N 1785 536	Mean 2.75 2.72 -0.03	SD 0.84 0.89	Mean Diff -0.45 -0.06	Effect Size -0.54	N 2528 591	beral Arts C Mean 2.66 2.68 0.02	0.83 0.83	Mean Diff -0.36 -0.02	Effect Size
Writing clearly and effectively	Spring 1998 Diff 98-97 Spring 1999	225 92 494	Truman Mean 2.30 2.66 0.36	0.86 0.80	N 2515 1229 3063	Mean 2.63 2.57 -0.06	SD 0.82 0.83	Mean Diff -0.33 0.09	Effect Size	N 1785 536	Mean 2.75 2.72 -0.03	SD 0.84 0.89	Mean Diff -0.45 -0.06	Effect Size	N 2528 591 251	beral Arts C Mean 2.66 2.68 0.02 2.81	0.83 0.83 0.80	Mean Diff -0.36 -0.02	Effect Size -0.43
Writing clearly and effectively	Spring 1998 Diff 98-97	225 92	Truman Mean 2.30 2.66 0.36	0.86 0.80	N 2515 1229	Mean 2.63 2.57 -0.06	SD 0.82 0.83	Mean Diff -0.33 0.09	Effect Size	N 1785 536	Mean 2.75 2.72 -0.03	SD 0.84 0.89	Mean Diff -0.45 -0.06	Effect Size -0.54	N 2528 591	beral Arts C Mean 2.66 2.68 0.02	0.83 0.83	Mean Diff -0.36 -0.02	Effect Size
Writing clearly and effectively  Speaking effectively	Spring 1998 Diff 98-97 Spring 1999 Spring 2000	225 92 494	Truman  Mean 2.30 2.66 0.36  2.71 2.71 0.00  Truman	0.86 0.80 0.85 0.85	N 2515 1229 3063	Mean	SD 0.82 0.83 0.83 0.82	Mean Diff -0.33 0.09 -0.04 -0.07	Effect Size -0.40	N 1785 536	Mean 2.75 2.72 -0.03 2.91 2.80 -0.11	SD 0.84 0.89 0.72 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09	-0.28	N 2528 591 251 702 General Li	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C	0.83 0.83 0.80 0.81	Mean Diff -0.36 -0.02 -0.10 -0.20	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	225 92 494	Truman  Mean 2.30 2.66 0.36  2.71 2.71 0.00	0.86 0.80	N 2515 1229 3063 3342	Mean 2.63 2.57 -0.06 2.75 2.78 0.03	SD 0.82 0.83 0.83 0.82	Mean Diff -0.33 0.09 -0.04 -0.07	Effect Size -0.40	N 1785 536 322 30	Mean 2.75 2.72 -0.03 2.91 2.80 -0.11	SD 0.84 0.89 0.72 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09	-0.28	N 2528 591 251 702	Mean 2.66 2.68 0.02 2.81 2.91 0.10	0.83 0.83 0.80 0.81	Mean Diff -0.36 -0.02 -0.10 -0.20	Effect Size -0.43
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	225 92 494 187	Truman  Mean 2.30 2.66 0.36  2.71 2.71 0.00  Truman	0.86 0.80 0.85 0.85	N 2515 1229 3063 3342 Compreher	Mean	SD 0.82 0.83 0.83 0.82	Mean Diff -0.33 0.09 -0.04 -0.07	Effect Size -0.40	N 1785 536 322 30 Selective L	Mean 2.75 2.72 -0.03 2.91 2.80 -0.11	SD 0.84 0.89 0.72 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09	-0.28	N 2528 591 251 702 General Li	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C	0.83 0.83 0.80 0.81	Mean Diff -0.36 -0.02 -0.10 -0.20	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	225 92 494 187	Truman  Mean 2.30 2.66 0.36  2.71 2.71 0.00  Truman	0.86 0.80 0.85 0.85	N 2515 1229 3063 3342 Compreher	Mean	SD 0.82 0.83 0.83 0.82	Mean Diff -0.33 0.09 -0.04 -0.07	Effect Size -0.40	N 1785 536 322 30 Selective L	Mean 2.75 2.72 -0.03 2.91 2.80 -0.11	SD 0.84 0.89 0.72 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09	-0.28	N 2528 591 251 702 General Li	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C	0.83 0.83 0.80 0.81	Mean Diff -0.36 -0.02 -0.10 -0.20	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97	225 92 494 187 N *	Truman  Mean 2.30 2.66 0.36  2.71 2.71 0.00  Truman  Mean * *	0.86 0.80 0.85 0.85	N 2515 1229 3063 3342 Compreher N * * *	Mean 2.63 2.57 -0.06 2.75 2.78 0.03 asive College Mean * * *	SD 0.82 0.83 0.82 SD ** *	Mean Diff -0.33 0.09 -0.04 -0.07 TRU Mean Diff *	Effect Size -0.40	N 1785 536 322 30 Selective L N *	Mean   2.75   2.72   -0.03   2.91   2.80   -0.11	0.84 0.89 0.72 0.81 0lleges SD *	Mean Diff -0.45 -0.06 -0.20 -0.09 TRU Mean Diff *	-0.28	N 2528 591 251 702 General Li N *	Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * *	0.83 0.83 0.80 0.81 olleges SD *	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * *	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97 Spring 1999	225 92 494 187 N * *	Truman Mean 2.30 2.66 0.36  2.71 2.71 0.00 Truman Mean * * 2.66	0.86 0.80 0.85 0.85 SD * *	N 2515 1229 3063 3342 Compreher N * * * * 3067	Mean	SD 0.82 0.83 0.82 0.82 SD **  * * * 0.83	-0.09 -0.04 -0.07 TRU Mean Diff * * * 0.07	Effect Size -0.40	N 1785 536 322 30 Selective L N *	Mean	0.84 0.89 0.72 0.81 0lleges SD *	-0.45 -0.06 -0.20 -0.09 TRU Mean Diff * *	-0.28	N 2528 591 251 702 General Li N * * * 252	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * * 2.73	0.83 0.83 0.80 0.81 olleges SD * *	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000	225 92 494 187 N *	Truman Mean 2.30 2.66 0.36 2.71 2.71 0.00 Truman * * * 2.66 2.55	0.86 0.80 0.85 0.85	N 2515 1229 3063 3342 Compreher N * * *	Mean 2.63 2.57 -0.06 2.75 2.78 0.03 asive College Mean * * *	SD 0.82 0.83 0.82 SD ** *	Mean Diff -0.33 0.09 -0.04 -0.07 TRU Mean Diff *	Effect Size -0.40	N 1785 536 322 30 Selective L N *	Mean	0.84 0.89 0.72 0.81 0lleges SD *	Mean Diff -0.45 -0.06 -0.20 -0.09 TRU Mean Diff *	-0.28	N 2528 591 251 702 General Li N *	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * * 2.73 2.76	0.83 0.83 0.80 0.81 olleges SD *	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * *	Effect Size -0.43 -0.25
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97 Spring 1999	225 92 494 187 N * *	Truman Mean 2.30 2.66 0.36  2.71 2.71 0.00 Truman Mean * * 2.66	0.86 0.80 0.85 0.85 SD * *	N 2515 1229 3063 3342 Compreher N * * * * 3067	Mean 2.63 2.57 -0.06 2.75 2.78 0.03 nsive College Mean * * 2.59 2.58 -0.01	SD 0.82 0.83 0.82 0.82 SD **  * * * 0.83	Mean Diff -0.33 0.09 -0.04 -0.07 TRU Mean Diff * * * 0.07 -0.03	Effect Size -0.40	N 1785 536 322 30 Selective L N *	beral Arts C Mean 2.75 2.72 -0.03 2.91 2.80 -0.11 beral Arts C Mean * * 2.74 2.63 -0.11	0.84 0.89 0.72 0.81 0lleges SD *	-0.45 -0.06 -0.20 -0.09 TRU Mean Diff * * -0.08 -0.08	-0.28	N 2528 591 251 702 General Li N * * * * 252 700	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * * 2.73	0.83 0.83 0.80 0.81 olleges SD * *	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07	Effect Size -0.43 -0.25 GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99	225 92 494 187 N * * * 493 187	Truman Mean 2.30 2.66 0.36  2.71 2.71 0.00  Truman Mean * * 2.66 2.55 -0.11 Truman Mean	0.86 0.80 0.85 0.85 SD * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N * 3067 3349 Compreher N	Mean	SD 0.82 0.83 0.82 0.82 0.83 0.82 0.83 0.85 0.83 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	-0.09 -0.04 -0.07 -0.08 Mean Diff * * * 0.07 -0.03 TRU Mean Diff	Effect Size -0.40 -0.40 	N 1785 536 322 30 Selective L 323 30 Selective L N	Mean   2.75   2.72   -0.03   2.91   2.80   -0.11	0.84 0.89 0.72 0.81 00lleges SD * * 0.76 0.81	-0.45 -0.06 -0.20 -0.09 -0.09 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08	-0.28 -SLA Effect Size -SLA Effect Size	N 2528 591 251 702 General Li **  * * 252 700 General Li N	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * * 2.73 2.76 0.03 beral Arts C Mean	0.83 0.83 0.80 0.81 olleges SD * * * 0.84 0.86	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07 -0.21  TRU- Mean Diff	Effect Size -0.43 -0.25 GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997	225 92 494 187 N * * 493 187	Truman Mean 2.30 2.66 0.36 2.71 2.71 0.00 Truman Mean * * 2.66 2.55 -0.11 Truman Mean Mean 2.53	0.86 0.80 0.85 0.85 SD * * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N	Mean	SD 0.82 0.83 0.82 0.82 0.82 0.82 0.82 0.83 0.82 0.85 0.85 0.85 0.95	-0.09 -0.04 -0.07 -0.08 -0.09 -0.04 -0.07 -0.03 -0.07 -0.03	Effect Size -0.40  CCCU Effect Size	N 1785 536 322 30 Selective L N * 323 30 Selective L N 1780	Mean	0.84 0.89 0.72 0.81 0lleges * * 0.76 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09 TRU Mean Diff * * -0.08 -0.08 TRU Mean Diff -0.18	-0.54 -0.28 -SLA Effect Size	N 2528 591 251 702 General Li N 252 700 General Li N 2517	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 Deral Arts C Mean  * * 2.73 2.76 0.03 Deral Arts C Mean 2.63	0.83 0.83 0.80 0.81 olleges * * * 0.84 0.86 olleges SD 0.84	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07 -0.21  TRU- Mean Diff -0.10	effect Size -0.43 -0.25  GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998	225 92 494 187 N * * * 493 187	Truman  Mean 2.30 2.66 0.35 2.71 0.00  Truman  Mean * * 2.66 2.55 -0.11  Truman  Mean 2.53 2.59	0.86 0.80 0.85 0.85 SD * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N * 3067 3349 Compreher N	Mean	SD 0.82 0.83 0.82 0.82 0.83 0.82 0.83 0.85 0.83 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85	-0.09 -0.04 -0.07 -0.08 Mean Diff * * * 0.07 -0.03 TRU Mean Diff	Effect Size -0.40  CCCU Effect Size	N 1785 536 322 30 Selective L 323 30 Selective L N	Mean	0.84 0.89 0.72 0.81 00lleges SD * * 0.76 0.81	-0.45 -0.06 -0.20 -0.09 -0.09 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08	-0.28 -SLA Effect Size -SLA Effect Size	N 2528 591 251 702 General Li **  * * 252 700 General Li N	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean  * * 2.73 2.76 0.03 beral Arts C Mean 2.63 2.71	0.83 0.83 0.80 0.81 olleges SD * * * 0.84 0.86	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07 -0.21  TRU- Mean Diff	effect Size -0.43 -0.25  GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997	225 92 494 187 N * * 493 187	Truman Mean 2.30 2.66 0.36 2.71 2.71 0.00 Truman Mean * * 2.66 2.55 -0.11 Truman Mean Mean 2.53	0.86 0.80 0.85 0.85 SD * * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N	Mean	SD 0.82 0.83 0.82 0.82 0.82 0.82 0.82 0.83 0.82 0.85 0.85 0.85 0.95	-0.09 -0.04 -0.07 -0.08 -0.09 -0.04 -0.07 -0.03 -0.07 -0.03	Effect Size -0.40  CCCU Effect Size	N 1785 536 322 30 Selective L N * 323 30 Selective L N 1780	Mean	0.84 0.89 0.72 0.81 0lleges 5D 0.76 0.81	Mean Diff -0.45 -0.06 -0.20 -0.09 TRU Mean Diff * * -0.08 -0.08 TRU Mean Diff -0.18	-0.28 -SLA Effect Size -SLA Effect Size	N 2528 591 251 702 General Li N 252 700 General Li N 2517	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 Deral Arts C Mean  * * 2.73 2.76 0.03 Deral Arts C Mean 2.63	0.83 0.83 0.80 0.81 olleges * * * 0.84 0.86 olleges SD 0.84	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07 -0.21  TRU- Mean Diff -0.10	effect Size -0.43 -0.25  GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1998 Diff 98-97  Spring 1999	225 92 494 187 N * * 493 187 N 225 92	Truman Mean 2.30 2.66 0.36 2.71 2.71 0.00 Truman Mean * * 2.66 2.55 -0.11 Truman Mean 2.53 2.59 0.06	0.86 0.80 0.85 0.85 SD * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N * * * 3067 3349 Compreher N 2492 1218 3068	Mean	SD 0.82 0.83 0.82 0.82 0.83 0.82 0.83 0.82 0.83 0.85 0.85 0.85 0.95 0.91 0.89	Mean Diff -0.33 0.09 -0.04 -0.07 TRU Mean Diff * * * 0.07 -0.03 TRU Mean Diff 0.00 0.01	Effect Size -0.40  CCCU Effect Size	N 1785 536 322 30 Selective L N * * * 323 30 Selective L N 1780 533 322	beral Arts C Mean 2.75 2.72 -0.03 2.91 2.80 -0.11 beral Arts C Mean * * 2.74 2.63 -0.11 beral Arts C Mean 2.71 2.61 -0.10 2.91	0.84 0.89 0.72 0.81 0lleges 5D * * * 0.76 0.81 0lleges SD 0.87 0.94	Mean Diff -0.45 -0.06 -0.20 -0.09 TRU Mean Diff * * * -0.08 -0.08 TRU Mean Diff -0.18 -0.02	-0.28 -SLA Effect Size -SLA Effect Size	N 2528 591 251 702 General Li N	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean * * 2.73 2.76 0.03 beral Arts C Mean 2.63 2.71 0.08	0.83 0.80 0.81 olleges SD * * 0.84 0.86 olleges SD 0.91 0.90	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * -0.07 -0.21  TRU- Mean Diff -0.10 -0.12	-0.43 -0.25 GLA Effect Size
Speaking effectively	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97	225 92 494 187 N * * 493 187 N 225 92	Truman Mean 2.30 2.66 0.36 2.71 2.71 0.00 Truman Mean * * 2.66 2.55 -0.11 Truman Mean 2.53 2.59 0.06	0.86 0.80 0.85 0.85 SD * * * * 0.84 0.87	N 2515 1229 3063 3342 Compreher N * * * * * * * * * * * * * * * * * *	Mean	SD 0.82 0.83 0.82 0.83 0.82 0.83 0.85 0.85 0.95 0.91	Mean Diff -0.33 0.09 -0.04 -0.07 TRU Mean Diff * * * 0.07 -0.03 TRU Mean Diff 0.00 0.01	Effect Size -0.40  CCCU Effect Size	N 1785 536 322 30 Selective L N	Mean	0.84 0.89 0.72 0.81 00lleges SD * * * 0.76 0.81 00lleges SD 0.87 0.94	-0.45 -0.06 -0.20 -0.09 -0.09 -0.08 -0.08 -0.08 -0.08 -0.08 -0.08	-0.28 -SLA Effect Size -SLA Effect Size	N 2528 591 251 702 General Li * * * * 252 700 General Li N 2517 588	beral Arts C Mean 2.66 2.68 0.02 2.81 2.91 0.10 beral Arts C Mean  * * 2.73 2.76 0.03 beral Arts C Mean 2.63 2.71 0.08	0.83 0.83 0.80 0.81 olleges SD * * * * 0.84 0.86 olleges SD 0.91	Mean Diff -0.36 -0.02 -0.10 -0.20  TRU- Mean Diff * * TRU0.07 -0.21  TRU- Mean Diff -0.10 -0.12	effect Size -0.43 -0.25  GLA Effect Size

Becoming aware of different philosophies, cultures,	Г		Truman		Compreher	nsive College	e & Univ	TRU	-CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU-	GLA
and ways of life	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998	221 91	2.33 2.35	0.90 0.81	2488 1215	2.39 2.47	0.90 0.87	-0.06 -0.12		1770 537	2.65 2.85	0.86 0.87	-0.32 -0.50	-0.37 <b>-0.57</b>	2503 584	2.46 2.43	0.91 0.87	-0.13 -0.08	
	Diff 98-97	91	0.02	0.61	1215	0.08	0.67	-0.12		537	0.20	0.67	-0.50	-0.57	304	-0.03	0.67	-0.06	
	2 00 0.		0.02			0.00					0.20					0.00			
	Spring 1999	494	2.49	0.92	3076	2.51	0.87	-0.02		323	2.61	0.84	-0.12		253	2.60	0.88	-0.11	
	Spring 2000	187	2.47	0.85	3348	2.47	0.87	0.00		30	2.97	0.93	-0.50	-0.54	702	2.51	0.94	-0.04	
Developing your own values and ethical standards	Diff 2000-99		-0.02 Truman		Compreher	-0.04	e & Univ	TDI	-CCU	Selective L	0.36	olleges	TRU	-SI A	General Li	-0.09	olleges	TRU-	GLΔ
Developing your own values and ethical standards	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	225	2.35	0.82	2508	2.55	0.92	-0.20	-0.22	1787	2.72	0.85	-0.37	-0.44	2527	2.63	0.89	-0.28	-0.31
	Spring 1998	92	2.50	0.85	1227	2.55	0.88	-0.05		536	2.79	0.93	-0.29	-0.31	591	2.59	0.89	-0.09	
	Diff 98-97		0.15			0.00					0.07					-0.04			
	Spring 1999	494	2.74	0.92	3071	2.74	0.90	0.00		323	2.85	0.84	-0.11		253	2.78	0.86	-0.04	
	Spring 2000	187	2.86	0.92	3343	2.69	0.90	0.17		30	2.83	0.99	0.03		700	2.80	0.93	0.06	
	Diff 2000-99		0.12			-0.05					-0.02					0.02			
Understanding yourselfyour abilities, interests,			Truman		Compreher		e & Univ		-CCU		iberal Arts C	5 5 5	TRU			beral Arts C	olleges	TRU-0	
and personality	Fall 1997	N 225	Mean 2.56	SD 0.87	N 2510	Mean 2.77	SD 0.89	Mean Diff -0.21	Effect Size -0.24	N 1784	Mean 2.87	SD 0.88	Mean Diff -0.31	Effect Size -0.35	N 2525	Mean 2.85	SD 0.87	Mean Diff	Effect Size
	Spring 1998	92	2.70	0.87	1227	2.77	0.86	-0.21	-0.24	537	2.94	0.87	-0.24	-0.35	592	2.63	0.87	-0.07	
	Diff 98-97	02	0.14	0.01	1227	-0.02	0.00	0.00		001	0.07	0.07	0.2		002	-0.08	0.01	0.07	
	Spring 1999	495	2.92	0.82	3069	3.00	0.84	-0.08		323	3.04	0.73	-0.12		250	3.04	0.79	-0.12	
	Spring 2000 Diff 2000-99	187	2.97 0.05	0.82	3345	2.96 -0.04	0.83	0.01		30	2.83 -0.21	0.79	0.14		702	3.09 0.05	0.84	-0.12	
Understanding other people and the ability to get	Diii 2000-33											_							
			Truman		Compreher	nsive College	e & Univ	TRU	-CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General Li	beral Arts C	olleges	TRU-0	GLA
along with different kinds of people		N	Truman Mean	SD	Compreher N	nsive College Mean	SD	TRU Mean Diff	-CCU Effect Size	Selective L N	beral Arts Co Mean	olleges SD	TRU Mean Diff	-SLA Effect Size	General Li N	beral Arts C Mean	olleges SD	TRU-0	GLA Effect Size
	Fall 1997	225	Mean 2.64	0.80	N 2511	Mean 2.80	SD 0.85	Mean Diff -0.16		1779	Mean 2.91	0.78	Mean Diff -0.27	-	2524	Mean 2.86	0.81	Mean Diff -0.22	
	Spring 1998		Mean 2.64 2.75		N	Mean 2.80 2.76	SD	Mean Diff	Effect Size		Mean 2.91 2.88		Mean Diff	Effect Size		Mean 2.86 2.83		Mean Diff	Effect Size
		225	Mean 2.64	0.80	N 2511	Mean 2.80	SD 0.85	Mean Diff -0.16	Effect Size	1779	Mean 2.91	0.78	Mean Diff -0.27	Effect Size	2524	Mean 2.86	0.81	Mean Diff -0.22	Effect Size
	Spring 1998	225	Mean 2.64 2.75	0.80	N 2511	Mean 2.80 2.76	SD 0.85	Mean Diff -0.16	Effect Size	1779	Mean 2.91 2.88	0.78	Mean Diff -0.27	Effect Size	2524	Mean 2.86 2.83	0.81	Mean Diff -0.22	Effect Size
	Spring 1998 Diff 98-97	225 92	Mean 2.64 2.75 0.11	0.80 0.79	N 2511 1229	Mean 2.80 2.76 -0.04	SD 0.85 0.82	Mean Diff -0.16 -0.01	Effect Size -0.19	1779 536	Mean 2.91 2.88 -0.03	0.78 0.84	Mean Diff -0.27 -0.13	Effect Size	2524 589	Mean 2.86 2.83 -0.03	0.81 0.84	Mean Diff -0.22 -0.08	Effect Size -0.27
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999	225 92 495	Mean 2.64 2.75 0.11 2.92 3.01 0.09	0.80 0.79 0.84	N 2511 1229 3066 3343	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08	SD 0.85 0.82 0.82 0.83	Mean Diff -0.16 -0.01 -0.12 0.05	Effect Size -0.19 -0.15	1779 536 323 30	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13	0.78 0.84 0.80	Mean Diff -0.27 -0.13 -0.14 0.08	Effect Size -0.35	2524 589 250	Mean 2.86 2.83 -0.03 3.13 3.16 0.03	0.81 0.84 0.82	-0.21 -0.15	Effect Size -0.27 -0.26
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000	225 92 495 187	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman	0.80 0.79 0.84 0.81	N 2511 1229 3066 3343	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 sive College	SD 0.85 0.82 0.82 0.83	Mean Diff -0.16 -0.01 -0.01 -0.12 0.05	Effect Size -0.19 -0.15	1779 536 323 30 Selective L	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13	0.78 0.84 0.80 0.83	Mean Diff -0.27 -0.13 -0.14 0.08	Effect Size -0.35	2524 589 250 701 General Li	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C	0.81 0.84 0.82 0.81	Mean Diff -0.22 -0.08 -0.21 -0.15	Effect Size -0.27 -0.26
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	225 92 495 187	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean	0.80 0.79 0.84 0.81	N 2511 1229 3066 3343 Compreher N	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 nsive College Mean	SD 0.85 0.82 0.82 0.83	-0.16 -0.01 -0.01 -0.12 0.05 TRU Mean Diff	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts Comment	0.78 0.84 0.80 0.83	Mean Diff -0.27 -0.13 -0.14 0.08 TRU Mean Diff	Effect Size -0.35  -SLA Effect Size	2524 589 250 701 General Li	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C	0.81 0.84 0.82 0.81 olleges	-0.22 -0.08 -0.21 -0.15 TRU-0 Mean Diff	Effect Size -0.27 -0.26 GLA Effect Size
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999 Spring 2000	225 92 495 187	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman	0.80 0.79 0.84 0.81	N 2511 1229 3066 3343	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 sive College	SD 0.85 0.82 0.82 0.83	Mean Diff -0.16 -0.01 -0.01 -0.12 0.05	Effect Size -0.19 -0.15	1779 536 323 30 Selective L	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13	0.78 0.84 0.80 0.83	Mean Diff -0.27 -0.13 -0.14 0.08	Effect Size -0.35	2524 589 250 701 General Li	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C	0.81 0.84 0.82 0.81	Mean Diff -0.22 -0.08 -0.21 -0.15	Effect Size -0.27 -0.26
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	225 92 495 187 N 225	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.38	0.80 0.79 0.84 0.81 SD 0.89	N 2511 1229 3066 3343 Compreher N 2514	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 sive College Mean 2.55	SD 0.85 0.82 0.82 0.83 e & Univ SD 0.88	Mean Diff -0.16 -0.01 -0.12 0.05 TRU Mean Diff -0.17	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L N 1784	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64	0.78 0.84 0.80 0.83 olleges SD 0.84	Mean Diff -0.27 -0.13 -0.14 0.08 TRU Mean Diff -0.26	Effect Size -0.35 -SLA Effect Size	2524 589 250 701 General Li N 2525	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69	0.81 0.84 0.82 0.81 olleges SD 0.89	-0.21 -0.15 TRU- Mean Diff	Effect Size -0.27 -0.26 GLA Effect Size
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97	225 92 495 187 N 225 92	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.38 2.51 0.13	0.80 0.79 0.84 0.81 SD 0.89 0.81	N 2511 1229 3066 3343 Compreher N 2514 1229	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 sive College Mean 2.55 2.56 0.01	SD 0.85 0.82 0.82 0.83 SD 0.88 0.87	-0.12 0.05 TRU Mean Diff -0.17 -0.05	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L N 1784 535	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.18 -0.14 0.08 TRU Mean Diff -0.26 0.04	Effect Size -0.35 -SLA Effect Size -0.31	2524 589 250 701 <b>General Li</b> N 2525 590	Mean	0.81 0.84 0.82 0.81 olleges SD 0.89 0.87	-0.21 -0.15 TRU-(Mean Diff -0.21	-0.27 -0.26 GLA Effect Size -0.35
along with different kinds of people	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999	225 92 495 187 N 225 92	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.38 2.51 0.13 2.67	0.80 0.79 0.84 0.81 SD 0.89 0.81	3066 3343 Compreher N 2514 1229	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 isive College Mean 2.55 2.56 0.01 2.75	SD 0.85 0.82 0.83 0.83 SD 0.88 0.87 0.91	-0.12 0.05 TRU Mean Diff -0.05	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L N 1784 535	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.14 0.08 TRU Mean Diff -0.26 0.04	Effect Size -0.35 -SLA Effect Size	2524 589 250 701 <b>General Li</b> N 2525 590	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69 2.72 0.03 2.92	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.25	-0.27 -0.26 GLA Effect Size -0.35
along with different kinds of people	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97	225 92 495 187 N 225 92	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.38 2.51 0.13	0.80 0.79 0.84 0.81 SD 0.89 0.81	N 2511 1229 3066 3343 Compreher N 2514 1229	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 sive College Mean 2.55 2.56 0.01	SD 0.85 0.82 0.82 0.83 SD 0.88 0.87	-0.12 0.05 TRU Mean Diff -0.17 -0.05	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L N 1784 535	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.18 -0.14 0.08 TRU Mean Diff -0.26 0.04	Effect Size -0.35 -SLA Effect Size -0.31	2524 589 250 701 <b>General Li</b> N 2525 590	Mean	0.81 0.84 0.82 0.81 olleges SD 0.89 0.87	-0.21 -0.15 TRU-(Mean Diff -0.21	-0.27 -0.26 GLA Effect Size -0.35
along with different kinds of people	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000	225 92 495 187 N 225 92	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.38 2.51 0.13 2.67 2.65	0.80 0.79 0.84 0.81 SD 0.89 0.81	3066 3343 Compreher N 2514 1229	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 nsive College Mean 2.55 2.56 0.01 2.75 2.71	SD 0.85 0.82 0.83 0.83 SD 0.88 0.87	-0.16 -0.01 -0.12 0.05 TRU Mean Diff -0.17 -0.05 -0.08 -0.06	Effect Size -0.19 -0.15 -CCU Effect Size	1779 536 323 30 Selective L N 1784 535	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.14 0.08 TRU Mean Diff -0.26 0.04	Effect Size -0.35 -SLA Effect Size -0.31 -0.23	2524 589 250 701 <b>General Li</b> N 2525 590	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69 2.72 0.03 2.92 3.01	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.25	-0.27 -0.26  GLA Effect Size -0.35 -0.40
along with different kinds of people  Ability to function as a team member	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99	225 92 495 187 N 225 92 495 187	Mean 2.64 2.75 0.11 2.92 3.01 Mean 2.38 2.51 0.13 2.67 2.65 -0.02 Truman Mean Mean	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92	3066 3343 Compreher N 2514 1229 3063 3337	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Isive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Isive College Mean	SD 0.85 0.82 0.82 0.83 0.87 SD 0.88 0.87 0.91 0.91 SD	-0.12 0.05 TRU Mean Diff -0.05 -0.05 TRU Mean Diff -0.05 -0.08 -0.06 TRU Mean Diff	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C  Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.14 0.08 TRU Mean Diff -0.26 0.04 -0.19 -0.14 TRU	Effect Size -0.35 -SLA Effect Size -0.31 -0.23	2524 589 250 701 General Li N 2525 590 249 702 General Li N	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69 2.72 0.03 2.92 3.01 0.09 beral Arts C Mean Mean C Mean C Mean C Mean Mean Mean Mean Mean Mean Mean Mean	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.31 -0.21 -0.25 -0.36 TRU-0 Mean Diff	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997	225 92 495 187 N 225 92 495 187 N 222	Mean	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92	3066 3343 Compreher N 2514 1229 3063 3337 Compreher N	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Issive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Issive College Mean 2.29	SD 0.85 0.82 0.82 0.83 SD 0.88 0.87 0.91 0.91 SD 0.98 SD 0.91 SD 0.91 SD 0.98 SD 0.98 SD 0.98	-0.12 -0.05 -0.05 -0.05 -0.05 -0.05 -0.06 -0.08 -0.06	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C	0.78 0.84 0.80 0.83 0lleges SD 0.84 0.88 0.84 0.77 0lleges SD 0.95	-0.14 -0.26 -0.04 -0.14 0.08 -0.26 0.04 -0.19 -0.14 -0.19	Effect Size -0.35  SLA  Effect Size -0.31  -0.23	2524 589 250 701 General Li N 2525 590 249 702 General Li N 2485	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69 2.72 0.03 2.92 3.01 0.09 beral Arts C Mean 2.42	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87 0.83 0.89	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.25 -0.36 TRU-0 Mean Diff -0.21	-0.27 -0.26  GLA Effect Size -0.35 -0.40 GLA
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998	225 92 495 187 N 225 92 495 187	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.35 -0.02 Truman Mean 2.267 -0.02 Truman Mean 2.15 2.26	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92	3066 3343 Compreher N 2514 1229 3063 3337	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Neive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Nsive College Mean 2.29 2.14	SD 0.85 0.82 0.82 0.83 0.87 SD 0.88 0.87 0.91 0.91 SD	-0.12 0.05 TRU Mean Diff -0.05 -0.05 TRU Mean Diff -0.05 -0.08 -0.06 TRU Mean Diff	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C Mean 2.34 2.46	0.78 0.84 0.80 0.83 olleges SD 0.84 0.88	-0.14 -0.08 -0.14 0.08 TRU Mean Diff -0.26 0.04 -0.19 -0.14 TRU	Effect Size -0.35  SLA  Effect Size -0.31  -0.23	2524 589 250 701 General Li N 2525 590 249 702 General Li N	Mean	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.31 -0.21 -0.25 -0.36 TRU-0 Mean Diff	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997	225 92 495 187 N 225 92 495 187 N 222	Mean	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92	3066 3343 Compreher N 2514 1229 3063 3337 Compreher N	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Issive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Issive College Mean 2.29	SD 0.85 0.82 0.82 0.83 SD 0.88 0.87 0.91 0.91 SD 0.98 SD 0.91 SD 0.91 SD 0.98 SD 0.98 SD 0.98	-0.12 -0.05 -0.05 -0.05 -0.05 -0.05 -0.06 -0.08 -0.06	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C	0.78 0.84 0.80 0.83 0lleges SD 0.84 0.88 0.84 0.77 0lleges SD 0.95	-0.14 -0.26 -0.04 -0.14 0.08 -0.26 0.04 -0.19 -0.14 -0.19	Effect Size -0.35  SLA  Effect Size -0.31  -0.23	2524 589 250 701 General Li N 2525 590 249 702 General Li N 2485	Mean 2.86 2.83 -0.03 3.13 3.16 0.03 beral Arts C Mean 2.69 2.72 0.03 2.92 3.01 0.09 beral Arts C Mean 2.42	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87 0.83 0.89	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.25 -0.36 TRU-0 Mean Diff -0.21	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998	225 92 495 187 N 225 92 495 187 N 222	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.35 -0.02 Truman Mean 2.267 -0.02 Truman Mean 2.15 2.26	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92	3066 3343 Compreher N 2514 1229 3063 3337 Compreher N	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Neive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Nsive College Mean 2.29 2.14	SD 0.85 0.82 0.82 0.83 SD 0.88 0.87 0.91 0.91 SD 0.98 SD 0.91 SD 0.91 SD 0.98 SD 0.98 SD 0.98	-0.12 -0.05 -0.05 -0.05 -0.05 -0.05 -0.06 -0.08 -0.06	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C Mean 2.34 2.46	0.78 0.84 0.80 0.83  ollieges SD 0.84 0.88 0.84 0.77  ollieges SD 0.95	-0.14 -0.26 -0.04 -0.14 0.08 -0.26 0.04 -0.19 -0.14 -0.19	Effect Size -0.35  SLA  Effect Size -0.31  -0.23	2524 589 250 701 General Li N 2525 590 249 702 General Li N 2485	Mean	0.81 0.84 0.82 0.81 0lleges SD 0.89 0.87 0.83 0.89	-0.21 -0.15 TRU-0 Mean Diff -0.21 -0.25 -0.36 TRU-0 Mean Diff -0.21	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1998 Diff 98-97  Spring 1999 Spring 2000	225 92 495 187 N 225 92 495 187 N 222 90	Mean 2.64 2.75 0.11 2.92 3.01 0.09 Truman Mean 2.85 -0.02 Truman Mean 2.15 2.26 0.11 2.53 2.67	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92 SD 0.97 0.95	3066 3343 Compreher N 2514 1229 3063 3337 Compreher N 2464 530	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Mean 2.55 2.56 0.01 2.75 2.71 -0.04 1sive College Mean 2.29 2.14 -0.15 2.56 2.60	SD 0.85 0.82 0.82 0.83 0.87 SD 0.88 0.87 0.91 0.91 0.98 0.99	-0.12 0.05 TRU Mean Diff -0.05 -0.08 -0.06 TRU Mean Diff -0.17 -0.05	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N 1760 575	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 iberal Arts C Mean 2.34 2.46 0.12 2.69 2.03	0.78 0.84 0.80 0.83  olileges SD 0.84 0.88  0.84 0.77  olileges SD 0.95 0.92	-0.14 -0.08 TRU Mean Diff -0.26 0.04 TRU  Mean Diff -0.19 -0.19 -0.20	Effect Size -0.35  SLA  Effect Size -0.31  -0.23	2524 589 250 701 General L N 2525 590 249 702 General L N 2485 2404	Mean	0.81 0.82 0.81 Olleges SD 0.89 0.87 0.83 0.89 Olleges SD 0.94	Mean Diff -0.22 -0.08  -0.21 -0.15  TRU-( Mean Diff -0.21 -0.25 -0.36  TRU-( Mean Diff -0.27 -0.05	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size
along with different kinds of people  Ability to function as a team member  Developing good health habits and physical	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1998 Diff 98-97  Spring 1999	225 92 495 187 N 225 92 495 187 N 222 90	Mean	0.80 0.79 0.84 0.81 SD 0.89 0.81 0.88 0.92 SD 0.97 0.95	N 2511 1229 3066 3343 Compreher N 2514 1229 3063 3337 Compreher N 2464 530 3066	Mean 2.80 2.76 -0.04 3.04 2.96 -0.08 Isive College Mean 2.55 2.56 0.01 2.75 2.71 -0.04 Isive College Mean 2.29 2.14 -0.15	SD 0.85 0.82 0.83 0.83 0.88 0.87 0.91 0.91 0.91 0.98 0.99 0.98 0.99	Mean Diff -0.16 -0.01  -0.12 0.05  TRU Mean Diff -0.05  -0.06  TRU Mean Diff -0.14 0.12	-0.19 -0.15 -CCU Effect Size -0.19	1779 536 323 30 Selective L N 1784 535 322 29 Selective L N 1760 575	Mean 2.91 2.88 -0.03 3.06 2.93 -0.13 iberal Arts C Mean 2.64 2.47 -0.17 2.86 2.79 -0.07 Mean 2.34 2.46 0.12 2.69	0.78 0.84 0.80 0.83  colleges SD 0.84 0.88 0.84 0.77  colleges SD 0.95 0.92	Mean Diff -0.27 -0.13 -0.14 -0.08  TRU Mean Diff -0.26 -0.04  -0.19 -0.14  TRU Mean Diff -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19 -0.19	SLA  Effect Size -0.31  -0.23  -SLA  Effect Size -0.31	2524 589 250 701 General Li N 2525 590 249 702 General Li N 2485 2404	Mean	0.81 0.84 0.82 0.81 olleges SD 0.89 0.87 0.83 0.89 olleges SD 0.94 0.94 0.94	Mean Diff -0.21 -0.15  TRU-0 Mean Diff -0.21 -0.21 -0.21  TRU-0 Mean Diff -0.21  -0.25 -0.36  TRU-0 Mean Diff -0.27 -0.05	-0.26  GLA  Effect Size -0.35  -0.30 -0.40  GLA  Effect Size

Understanding the nature of science and			Truman		Compreher	nsive Colleg	e & Univ	TRU	-CCU	Selective L	iberal Arts C	olleges	TRU	-SLA	General L	beral Arts C	olleges	TRU-	GLA
experimentation		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997 Spring 1998	225 92	1.84 2.17	0.91 0.82	2510 1229	1.94 2.02	0.92 0.90	-0.10 0.15		1783 536	2.01 2.05	0.95 0.97	-0.17 0.12		2524 591	1.94 2.04	0.91 0.94	-0.10 0.13	
	Diff 98-97	92	0.33	0.02	1229	0.08	0.90	0.13		330	0.04	0.91	0.12		391	0.10	0.54	0.13	
		_																	
	Spring 1999	495	2.35	0.95	3062	2.17	0.94	0.18	0.19	323	2.14	0.91	0.21	0.23	251	2.33	1.01	0.02	
	Spring 2000 Diff 2000-99	187	2.26 -0.09	0.98	3339	2.13 -0.04	0.93	0.13		30	1.93 -0.21	0.94	0.33		703	2.20 -0.13	0.95	0.06	
Understanding new scientific and technical	Diii 2000-33		Truman		Compreher		e & Univ	TRU	-CCU	Selective L		olleges	TRU	-SLA	General L	beral Arts C	olleges	TRU-	GLA
developments		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	224	1.60	0.83	2515	1.85	0.88	-0.25	-0.28	1783	1.87	0.90	-0.27	-0.30	2523	1.87	0.89	-0.27	-0.30
	Spring 1998 Diff 98-97	92	1.86 0.26	0.70	1231	1.93 0.08	0.88	-0.07		536	1.96 0.09	0.96	-0.10		591	1.96 0.09	0.93	-0.10	
	Diii 90-97		0.20			0.00					0.09					0.09			
	Spring 1999	495	2.23	0.93	3059	2.19	0.93	0.04		323	2.13	0.93	0.10		250	2.28	0.98	-0.05	
	Spring 2000 Diff 2000-99	187	2.14	0.95	3332	2.14	0.93	0.00		30	1.80	0.89	0.34		701	2.28	0.96	-0.14	
Becoming aware if the consequences of applications			-0.09 Truman		Compreher	-0.05	e & Univ	TRI	-CCU	Selective L	-0.33	olleges	TRI	-SLA	General Li	0.00 beral Arts C	olleges	TRU-	GLA
in science and technology		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
0	Fall 1997	225	1.63	0.79	2513	1.95	0.88	-0.32	-0.36	1780	1.97	0.88	-0.34	-0.39	2523	2.01	0.91	-0.38	
	Spring 1998	92	1.84	0.63	1228	1.97	0.86	-0.13		535	2.09	0.92	-0.25		591	2.07	0.90	-0.23	
	Diff 98-97		0.21			0.02					0.12					0.06			
	Spring 1999	493	2.14	0.91	3064	2.22	0.92	-0.08		322	2.18	0.88	-0.04		251	2.37	0.96	-0.23	
	Spring 2000	187	2.18	0.94	3334	2.18	0.94	0.00		29	2.00	0.93	0.18		702	2.38	0.95	-0.20	
ALTER A SECTION AND ALL OF THE	Diff 2000-99		0.04 Truman		0	-0.04	- 0 11-5.	TDU	-CCU	Selective L	-0.18	-11	TDI	-SLA	General L	0.01 beral Arts C	olleges	TRU-	01.4
Ability to think analytically and logically	L			SD	Compreher N		e & Univ					SD							
Ability to think analytically and logically	Fall 1997	N 225	Mean 2.30	SD 0.83	N 2512	Mean 2.49	SD 0.82	Mean Diff	Effect Size -0.23	N 1785	Mean 2.67	SD 0.80	Mean Diff	Effect Size -0.46	N 2522	Mean 2.58	SD 0.81	Mean Diff	Effect Size -0.35
Aomy to think analytically and logically	Spring 1998	N	Mean 2.30 2.49		N	Mean 2.49 2.45	SD	Mean Diff	Effect Size	N	Mean 2.67 2.72	_	Mean Diff	Effect Size	N	Mean 2.58 2.55	SD	Mean Diff	Effect Size
Ability to think analytically and logically		N 225	Mean 2.30	0.83	N 2512	Mean 2.49	SD 0.82	Mean Diff -0.19	Effect Size	N 1785	Mean 2.67	0.80	Mean Diff -0.37	Effect Size	N 2522	Mean 2.58	SD 0.81	Mean Diff -0.28	Effect Size
Aointy to mink analytically and logically	Spring 1998	N 225	Mean 2.30 2.49	0.83	N 2512	Mean 2.49 2.45	SD 0.82	Mean Diff -0.19	Effect Size	N 1785	Mean 2.67 2.72	0.80	Mean Diff -0.37	Effect Size	N 2522	Mean 2.58 2.55	SD 0.81	Mean Diff -0.28	Effect Size
Aointy to mink analytically and logically	Spring 1998 Diff 98-97	N 225 92	Mean 2.30 2.49 0.19	0.83 0.72	N 2512 1227	Mean 2.49 2.45 -0.04	SD 0.82 0.80	Mean Diff -0.19 0.04	Effect Size	N 1785 535	Mean 2.67 2.72 0.05	0.80 0.85	Mean Diff -0.37 -0.23	Effect Size	N 2522 590	Mean 2.58 2.55 -0.03	SD 0.81 0.85	Mean Diff -0.28 -0.06	Effect Size
	Spring 1998 Diff 98-97 Spring 1999	N 225 92 491	Mean 2.30 2.49 0.19 2.71 2.76 0.05	0.83 0.72 0.85	N 2512 1227 3051 3321	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05	SD 0.82 0.80 0.84 0.86	Mean Diff -0.19 0.04 0.03 0.13	Effect Size -0.23	N 1785 535 323 30	Mean 2.67 2.72 0.05 2.81 2.60 -0.21	0.80 0.85 0.74 0.81	-0.37 -0.23 -0.10 0.16	Effect Size -0.46	N 2522 590 250 696	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01	SD 0.81 0.85 0.84 0.83	Mean Diff -0.28 -0.06 -0.05 0.01	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97 Spring 1999 Spring 2000	N 225 92 491 186	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman	0.83 0.72 0.85 0.84	N 2512 1227 3051 3321 Compreher	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 nsive College	SD 0.82 0.80 0.84 0.86	Mean Diff -0.19 0.04 0.03 0.13	Effect Size -0.23	N 1785 535 323 30 Selective L	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C	0.80 0.85 0.74 0.81	-0.23 -0.10 0.16	Effect Size -0.46	N 2522 590 250 696	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C	SD 0.81 0.85 0.84 0.83	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-	Effect Size -0.35
	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	N 225 92 491 186	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman Mean	0.83 0.72 0.85 0.84	N 2512 1227 3051 3321 Compreher N	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 nsive College	SD 0.82 0.80 0.84 0.86 <b>e &amp; Univ</b> SD	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff	Effect Size -0.23	N 1785 535 323 30 Selective L N	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C	0.80 0.85 0.74 0.81	-0.37 -0.23 -0.10 0.16 TRU	Effect Size -0.46	N 2522 590 250 696 General L N	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C	SD 0.81 0.85 0.84 0.83 olleges	-0.28 -0.06 -0.05 0.01 TRU-	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97 Spring 1999 Spring 2000	N 225 92 491 186	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman	0.83 0.72 0.85 0.84	N 2512 1227 3051 3321 Compreher	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 nsive College	SD 0.82 0.80 0.84 0.86	Mean Diff -0.19 0.04 0.03 0.13	Effect Size -0.23	N 1785 535 323 30 Selective L	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C	0.80 0.85 0.74 0.81	-0.23 -0.10 0.16	Effect Size -0.46	N 2522 590 250 696	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C	SD 0.81 0.85 0.84 0.83	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99	N 225 92 491 186 N 219	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman Mean 2.04	0.83 0.72 0.85 0.84 SD 0.91	N 2512 1227 3051 3321 Compreher N 2453	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 nsive Colleg Mean 2.18	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14	Effect Size -0.23	N 1785 535 323 30 Selective L N 1771	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19	0.80 0.85 0.74 0.81 olleges SD 0.88	-0.37 -0.23 -0.10 0.16 TRU Mean Diff -0.15	Effect Size -0.46	N 2522 590 250 696 General L N 2485	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21	SD 0.81 0.85 0.84 0.83 olleges SD 0.87	-0.05 0.01 TRU- Mean Diff	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97	N 225 92 491 186 N 219 92	Mean 2.30 2.49 0.19 2.71 2.76 0.00 Truman Mean 2.04 2.08 0.04	0.83 0.72 0.85 0.84 SD 0.91 0.73	3051 3321 Compreher N 2453 1211	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 1sive Colleg Mean 2.18 2.23 0.05	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85	0.03 0.13 TRU Mean Diff -0.14 -0.15	Effect Size -0.23	N 1785 535 323 30 Selective L N 1771 529	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07	0.80 0.85 0.74 0.81 olleges SD 0.88 0.96	-0.37 -0.23 -0.10 0.16 TRU Mean Diff -0.15 -0.18	Effect Size -0.46	N 2522 590 250 696 General L N 2485 585	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05	0.81 0.85 0.84 0.83 0lleges SD 0.87 0.90	-0.28 -0.06 -0.05 0.01 TRU- Mean Diff -0.17 -0.18	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999	N 225 92 491 186 N 219	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman Mean 2.04 2.08	0.83 0.72 0.85 0.84 SD 0.91	N 2512 1227 3051 3321 Compreher N 2453	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 sive Colleg Mean 2.18 2.23	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14	Effect Size -0.23	N 1785 535 323 30 Selective L N 1771	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07	0.80 0.85 0.74 0.81 olleges SD 0.88	-0.37 -0.23 -0.10 0.16 TRU Mean Diff -0.15	Effect Size -0.46	N 2522 590 250 696 General L N 2485	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26	SD 0.81 0.85 0.84 0.83 olleges SD 0.87	-0.05 0.01 TRU- Mean Diff	Effect Size -0.35
Quantitative thinking—Understanding probabilities,	Spring 1998 Diff 98-97 Spring 1999 Spring 2000 Diff 2000-99 Fall 1997 Spring 1998 Diff 98-97	N 225 92 491 186 N 219 92	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman Mean 2.04 2.08 0.04 2.28	0.83 0.72 0.85 0.84 SD 0.91 0.73	3051 3051 3321 Compreher N 2453 1211	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Mean 2.18 2.23 0.05 2.32	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.85	0.03 0.13 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15	Effect Size -0.23	N 1785 535 323 30 Selective L N 1771 529	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96	-0.37 -0.23 -0.10 0.16 TRU Mean Diff -0.15 -0.18	Effect Size -0.46	N 2522 590 250 696 General L N 2485 585	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39	0.81 0.85 0.84 0.83 0lleges SD 0.87 0.90	-0.05 -0.01 TRU- Mean Diff -0.17 -0.18	Effect Size -0.35
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000	N 225 92 491 186 N 219 92 489 187	Mean 2.30 2.49 0.19 2.71 2.76 0.05 Truman Mean 2.04 2.08 0.04 2.28 2.35 0.07 Truman	0.83 0.72 0.85 0.84 SD 0.91 0.73	3051 3051 3321 Compreher N 2453 1211 3063 3333	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Isive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 Isive Colleg Isive Isive Colleg Isive Isive Colleg Isive Isive Colleg Isive Isi	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.91 0.93 e & Univ	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04	Effect Size -0.23  -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07 2.26 2.10 -0.16 iberal Arts C	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96	-0.37 -0.23 -0.10 0.16 TRU Mean Diff -0.15 -0.18 0.02 0.25	Effect Size -0.46 -SLA Effect Size	N 2522 590 250 696 Seneral L N 2485 585 248 699 Seneral L	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C	0.81 0.85 0.84 0.83 0lleges SD 0.87 0.90	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09	Effect Size -0.35  GLA Effect Size
Quantitative thinkingUnderstanding probabilities, proportions, etc.	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99	N 225 92 491 186 N 219 92 489 187 N	Mean 2.30 2.49 0.19 2.71 2.76 2.05 Truman Mean 2.04 2.28 2.35 0.07 Truman Mean Mean Mean Mean Mean	0.83 0.72 0.85 0.84 SD 0.91 0.73	3051 3051 3321 Compreher N 2453 1211 3063 3333	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Sisive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 sisve Colleg Mean	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.91 0.93 e & Univ SD	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff	Effect Size -0.23 -CCU Effect Size -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N	Mean 2.67 2.72 0.05  2.81 2.60 -0.21 iberal Arts C  Mean 2.19 2.26 0.07  2.26 2.10 -0.16 iberal Arts C  Mean	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96 0.92 0.96	-0.10 -0.10 0.16  TRU  Mean Diff -0.15 -0.18  0.02 0.25  TRU  Mean Diff	Effect Size -0.46 -SLA Effect Size	N 2522 590 250 696 General L N 2485 585 248 699 General L N	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean	0.81 0.85 0.84 0.83 0lieges SD 0.87 0.90 0.98 0.93	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09 TRU-I Mean Diff	Effect Size -0.35  GLA Effect Size  GLA Effect Size
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997	N 225 92 491 186 N 219 92 489 187 N 224	Mean	0.83 0.72 0.85 0.84 SD 0.91 0.73	N 2512 1227 3051 3321 Compreher N 2453 1211 3063 3333 Compreher N	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Isive Colleg 2.23 0.05 2.32 2.31 -0.01 Isive Colleg Mean 2.56	SD 0.82 0.80 0.84 0.86 0.85 0.85 0.91 0.93 0.85 D.93 0.85 D.93 0.85 D.93 0.85 D.93 0.83 D.93 0.8	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff -0.27	Effect Size -0.23  -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07 2.26 2.10 -0.16 iberal Arts C	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96 0.92 0.96 olleges SD	-0.10 -0.16 -0.16 -0.15 -0.18 -0.02 0.25 -0.08 -0.045	Effect Size  -0.46  -SLA  Effect Size  -0.56	N 2522 590 250 696 Ceneral L N 2485 585 248 699 Ceneral L N 2526	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean 2.62	0.81 0.85 0.84 0.83 0lleges SD 0.87 0.90 0.98 0.93	-0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09 TRU-I Mean Diff	Effect Size -0.35  GLA Effect Size
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99	N 225 92 491 186 N 219 92 489 187 N	Mean 2.30 2.49 0.19 2.71 2.76 2.05 Truman Mean 2.04 2.28 2.35 0.07 Truman Mean Mean Mean Mean Mean	0.83 0.72 0.85 0.84 SD 0.91 0.73	3051 3051 3321 Compreher N 2453 1211 3063 3333	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Sisive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 sisve Colleg Mean	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.91 0.93 e & Univ SD	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff	Effect Size -0.23 -CCU Effect Size -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N	Mean 2.67 2.72 0.05  2.81 2.60 -0.21 iberal Arts C  Mean 2.19 2.26 0.07  2.26 2.10 -0.16 iberal Arts C  Mean	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96 0.92 0.96	-0.10 -0.10 0.16  TRU  Mean Diff -0.15 -0.18  0.02 0.25  TRU  Mean Diff	Effect Size -0.46 -SLA Effect Size	N 2522 590 250 696 General L N 2485 585 248 699 General L N	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean	0.81 0.85 0.84 0.83 0lieges SD 0.87 0.90 0.98 0.93	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09 TRU-I Mean Diff	Effect Size -0.35  GLA Effect Size  GLA Effect Size
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97	N 225 92 491 186 N 219 92 489 187 N 224 91	Mean 2.30 2.49 0.19 2.71 2.76 0.75 Truman Mean 2.04 2.28 2.35 0.07 Truman Mean 2.29 2.45 0.16	0.83 0.72 0.85 0.84 SD 0.91 0.73 0.91 0.90	3051 3051 3321 Compreher N 2453 1211 3063 3333 Compreher N 2511 1230	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Isive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 Isive Colleg Mean 2.56 2.54 -0.02	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.91 0.93 e & Univ SD 0.83 0.80	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff -0.27 -0.09	Effect Size -0.23 -CCU Effect Size -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N 1779 536	Mean 2.67 2.72 0.05  2.81 2.60 -0.21 iberal Arts C  Mean 2.19 2.26 0.07  2.26 2.10 -0.16 iberal Arts C  Mean 2.74 2.83 0.09	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96 0.92 0.96 0lleges SD 0.80 0.81	-0.10 -0.10 0.16  TRU  Mean Diff -0.15 -0.18  0.02 0.25  TRU  Mean Diff -0.45 -0.38	Effect Size  -0.46  -SLA  Effect Size  -0.56	N 2522 590 250 696 250 696 2485 585 248 699 2526 590	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean 2.62 2.55 -0.07	0.81 0.85 0.84 0.83 0lleges SD 0.90 0.98 0.93 0lleges SD 0.82 0.82	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09 TRU-I Mean Diff -0.33 -0.10	Effect Size -0.35  GLA Effect Size  GLA Effect Size
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1998 Diff 98-97  Spring 1998 Diff 98-97	N 225 92 491 186 N 219 92 489 187 N 224 91 493	Mean	0.83 0.72 0.85 0.84 SD 0.91 0.73 0.91 0.90 SD 0.78 0.79	N 2512 1227 3051 3321 Compreher N 2453 1211 3063 3333 Compreher N 2511 1230 3058	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Isive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 Isive Colleg Mean 2.56 2.54 -0.02 2.71	SD 0.82 0.80 0.84 0.86 0.85 0.85 0.91 0.93 0.83 0.80 0.81	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff -0.27 -0.09	Effect Size -0.23 -CCU Effect Size -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N 1779 536	Mean 2.67 2.72 0.05 2.81 2.60 -0.21 iberal Arts C Mean 2.19 2.26 0.07 2.26 2.10 -0.16 iberal Arts C Mean 2.74 2.83 0.09 2.83	0.80 0.85 0.74 0.81 00lleges SD 0.88 0.96 0.92 0.96 00lleges SD 0.80 0.81	-0.10 -0.16 -0.16 -0.15 -0.18 -0.15 -0.18 -0.15 -0.18 -0.25	Effect Size  -0.46  -SLA  Effect Size  -0.56	N 2522 590 250 696 Ceneral L N 2485 585 248 699 Ceneral L N 2526 590 250	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean 2.62 2.55 -0.07	0.81 0.85 0.84 0.83 0lleges SD 0.87 0.90 0.98 0.93 0lleges SD 0.82 0.80	Mean Diff -0.28 -0.06 -0.05 0.01  TRU-I Mean Diff -0.17 -0.18  -0.11 -0.09  TRU-I Mean Diff -0.33 -0.10	Effect Size -0.35  GLA Effect Size  GLA Effect Size
Quantitative thinking—Understanding probabilities, proportions, etc.  Ability to put ideas together, to see relationships,	Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97  Spring 1999 Spring 2000 Diff 2000-99  Fall 1997 Spring 1998 Diff 98-97	N 225 92 491 186 N 219 92 489 187 N 224 91	Mean 2.30 2.49 0.19 2.71 2.76 0.75 Truman Mean 2.04 2.28 2.35 0.07 Truman Mean 2.29 2.45 0.16	0.83 0.72 0.85 0.84 SD 0.91 0.73 0.91 0.90	3051 3051 3321 Compreher N 2453 1211 3063 3333 Compreher N 2511 1230	Mean 2.49 2.45 -0.04 2.68 2.63 -0.05 Isive Colleg Mean 2.18 2.23 0.05 2.32 2.31 -0.01 Isive Colleg Mean 2.56 2.54 -0.02	SD 0.82 0.80 0.84 0.86 e & Univ SD 0.85 0.91 0.93 e & Univ SD 0.83 0.80	Mean Diff -0.19 0.04 0.03 0.13 TRU Mean Diff -0.14 -0.15 -0.04 0.04 TRU Mean Diff -0.27 -0.09	Effect Size -0.23 -CCU Effect Size -CCU Effect Size	N 1785 535 323 30 Selective L N 1771 529 323 30 Selective L N 1779 536	Mean 2.67 2.72 0.05  2.81 2.60 -0.21 iberal Arts C  Mean 2.19 2.26 0.07  2.26 2.10 -0.16 iberal Arts C  Mean 2.74 2.83 0.09	0.80 0.85 0.74 0.81 0lleges SD 0.88 0.96 0.92 0.96 0lleges SD 0.80 0.81	-0.10 -0.10 0.16  TRU  Mean Diff -0.15 -0.18  0.02 0.25  TRU  Mean Diff -0.45 -0.38	Effect Size  -0.46  -SLA  Effect Size  -0.56	N 2522 590 250 696 250 696 2485 585 248 699 2526 590	Mean 2.58 2.55 -0.03 2.76 2.75 -0.01 beral Arts C Mean 2.21 2.26 0.05 2.39 2.44 0.05 beral Arts C Mean 2.62 2.55 -0.07	0.81 0.85 0.84 0.83 0lleges SD 0.90 0.98 0.93 0lleges SD 0.82 0.82	Mean Diff -0.28 -0.06 -0.05 0.01 TRU-I Mean Diff -0.17 -0.18 -0.11 -0.09 TRU-I Mean Diff -0.33 -0.10	Effect Size -0.35  GLA Effect Size  GLA Effect Size

Ability to learn on your own, pursue ideas, and find			Truman		Comprehen	sive College	& Univ	TRU	-CCU	Selective L	iberal Arts C	olleges	TRU-SLA		General L	iberal Arts C	Colleges	TRU-	GLA
information you need		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff		N	Mean	SD	Mean Diff	
	Fall 1997	225	2.55	0.77	2512	2.72	0.84	-0.17	-0.20	1778	2.84	0.81	-0.29	-0.36	2524	2.76	0.82	-0.21	-0.26
	Spring 1998	91	2.78	0.81	1230	2.67	0.81	0.11		535	2.83	0.86	-0.05		591	2.72	0.83	0.06	
	Diff 98-97		0.23			-0.05					-0.01					-0.04			
	Spring 1999	494	2.89	0.83	3064	2.90	0.82	-0.01		323	3.01	0.73	-0.12		250	2.92	0.86	-0.03	
	Spring 2000	186	2.69	0.85	3331	2.69	0.84	0.00		30	2.60	0.93	0.09		701	2.77	0.84	-0.08	
	Diff 2000-99		-0.20			-0.21					-0.41					-0.15			
Gain: Adapting to Change			Truman		Compreher	sive College	& Univ	TRU	-CCU	Selective L	iberal Arts C	olleges	TRU-SLA		General L	iberal Arts C	olleges	TRU-	GLA
		N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff Effe	ct Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1999	495	2.92	0.89	3062	2.97	0.86	-0.05		323	3.13	0.78	-0.21	-0.27	250	3.00	0.86	-0.08	
	Spring 2000	186	3.00	0.82	3332	2.84	0.85	0.16		30	2.87	0.94	0.13		701	2.89	0.84	0.11	
	Diff 2000-99		0.08			-0.13					-0.26					-0.11			

## Freshman Reading and Writing Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

#### Scale: None = 1, Fewer than 5 = 2, Between 5 and 10 = 3, Between 10 and 20 = 4, More than 20 = 5

Third Edition (1997 & 1998) Fourth Edition (1999 & 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (<u>Truman Means</u> differ by 0.2 or more per 1997 CSEQ manual)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 (regular font, no shading)

Moderate = 0.5 to 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])
Large = Greater than 0.8 (**bold** [Truman positive] or **bold italic** [Truman negative])

Number of textbooks	/		Truman		Comprehe	nsive Colleg	je & Univ	TRU-	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts	Colleges	TRU-	GLA
assigned books read	_	N	Mean	SD	N	Mean	SD		Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	223	2.73	0.77	2500	3.07	0.94	-0.34	-0.36	1777	3.57	0.90	-0.84	-0.93	2497	3.24	1.03		-0.50
	Spring 1998	92	3.26	0.96	1219	3.05	0.93	0.21		535	3.78	0.94	-0.52	-0.55	584	3.02	0.91	0.24	
	Diff 98-97		0.53			-0.52					0.54					-0.22			
	Spring 1999	494	3.17	0.83	3072	3.12	0.95	0.05		322	3.24	0.81	0.13		254	3.04	0.95	0.13	
	Spring 2000	186	3.26	0.81	3376	2.88	0.87		0.44	30	3.57	0.82	-0.31		697	2.95	0.87		0.36
	Diff 2000-99	.00	0.09	0.0.	00.0	-0.24	0.01	0.00	0		0.33	0.02	0.01		00.	-0.09	0.01	0.01	0.00
Number of course page	ckets		Truman		Comprehe	nsive Colleg	je & Univ	TRU-	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts	Colleges	TRU-	GLA
read	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1998	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Diff 98-97	*	*	*	*	*	*	*		*	*	*	*		*	*	*	*	
	Spring 1999	491	2.58	1.05	3036	2.55	0.96	0.03		315	2.68	0.91	-0.10		247	2.75	1.05	-0.17	
	Spring 2000	184	2.76	1.06	3310	2.43	0.94	0.03	0.35	29	2.79	1.08	-0.10		684	2.73	1.03	0.25	0.24
	Diff 2000-99	101	0.18	1.00	0010	-0.12	0.01	0.00	0.00		0.11	1.00	0.00		001	-0.24	1.01	0.20	0.21
Number of non-assign	ned		Truman		Comprehe	nsive Colleg	je & Univ	TRU-	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts	Colleges	TRU-	GLA
books read	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	224	1.85	0.85	2467	2.14	0.98	-0.29	-0.30	1779	2.18	0.94	-0.33	-0.35	2469	2.15	0.98		-0.31
	Spring 1998	92	2.09	0.86	1215	2.08	0.95	0.01		529	2.31	1.01	-0.22		573	2.12	0.98	-0.03	
	Diff 98-97		0.24			-0.06					0.13					-0.03			
	Spring 1999	492	2.27	0.99	3038	1.87	0.91	0.40	0.44	314	1.95	0.88	0.32	0.36	248	1.98	1.07	0.29	0.27
	Spring 2000	492 184	2.27	1.06	3306	1.96	0.91	0.40	0.44	30	1.95	0.66	0.32	0.36	687	1.96	1.07	0.29	0.27
	Diff 2000-99	104	-0.07	1.00	3300	0.09	0.55	0.24	0.25	30	-0.08	0.70	0.00		001	-0.02	1.00	0.24	0.24
Number of essays exa			Truman		Comprehei	nsive Colleg	e & Univ	TRU-	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts	Colleges	TRU-	GLA
written	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	223	2.17	0.70	2494	2.85	1.03	-0.68	-0.66	1785	3.10	1.02	-0.93	-0.91	2502	3.03	1.06	-0.86	-0.81
	Spring 1998	92	3.20	1.00	1220	2.95	0.99	0.25		529	3.08	1.01	0.12		583	3.21	1.00	-0.01	
	Diff 98-97		1.03			-0.15					0.05					0.18			
	Spring 1999	491	3.16	1.00	3044	3.03	1.10	0.13		316	3.03	1.05	0.13		248	3.13	1.17	0.03	
	Spring 2000	185	3.12	0.97	3333	2.99	1.09	0.13		30	3.37	1.00	-0.25		692	3.32	1.10	-0.20	
	Diff 2000-99	100	-0.04	0.07	0000	-0.04	1.00	0.10		00	0.34	1.00	0.20		002	0.19	1.10	0.20	
Number of term pape	ers written		Truman		Comprehe	nsive Colleg	je & Univ	TRU-	-CCU	Selective L	iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts	Colleges	TRU-	GLA
• •	_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
	Fall 1997	219	2.32	0.83	2486	3.03	1.02	-0.71	-0.70	1778	3.42	0.95		-1.16	2491	3.12	1.04		-0.77
	Spring 1998	92	3.25	0.94	1217	3.03	0.96	0.22		526	3.4	0.98	-0.15		584	3.05	0.97	0.20	
	Diff 98-97		0.93			-0.39					0.28					-0.07			
	Spring 1999	490	3.40	0.99	3000	3.16	1.03	0.24	0.23	312	3.38	0.92	0.02		243	3.24	1.09	0.16	
	Spring 2000	183	3.31	0.99	3259	3.12	1.00	0.19	0.20	30	3.43	0.94	-0.12		682	3.32	1.11	-0.01	

# College Student Experience Questionnaire Freshman Satisfaction Question Scores by Year (Fall 1997, Spring 1998, Spring 1999, Spring 2000) and Institutional Type

Third Edition (1997 & 1998) Fourth Edition (1999 & 2000) **Bold** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Greater than Comparison Group **Bold Italic** = Significant Differences (Scheffe Post Hoc at .05 level), Truman Mean Less than Comparison Group **Bold** = Significant Differences (<u>Truman Means</u> differ by 0.2 or more per 1997 CSEQ manual)

#### Scale: I am enthusiastic about it = 4, I like it = 3, I am more or less neutral about it = 2, I don't like it = 1

How well college is liked		Truman		Comprehe	nsive Colleg	je & Univ	TRU	-CCU	Selective I	_iberal Arts (	Colleges	TRU	-SLA	General L	iberal Arts C	Colleges	TRU-	GLA
_	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.25	0.72	2544	3.04	0.80	0.21	0.26	1797	3.24	0.81	0.01		2544	3.11	0.80	0.14	
Spring 1998	92	3.03	0.90	1237	3.16	0.78	-0.13		538	3.31	0.79	-0.28	-0.35	595	2.99	0.81	0.04	
Diff 98-97		-0.22			-0.08					0.20					-0.12			
Spring 1999	494	3.14	0.80	3076	3.05	0.79	0.09		322	3.03	0.73	0.11		255	3.09	0.75	0.05	
Spring 2000	186	3.12	0.85	3376	2.96	0.78	0.16	0.21	30	3.10	0.88	0.02		707	3.00	0.80	0.12	
Diff 2000-99		-0.02			-0.09					0.07					-0.09			

#### Scale: Yes, definitely = 4, Probably yes = 3, Probably no = 2, No, definitely = 1

Would attend same institution		Truman		Comprehe	nsive Colleg	e & Univ	TRU	I-CCU	Selective I	Liberal Arts (	Colleges	TRU	-SLA	General L	iberal Arts (	Colleges	TRU-	GLA
again	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	3.32	0.74	2542	3.04	0.91	0.28	0.31	1792	3.15	0.87	0.17		2535	3.05	0.93	0.27	0.29
Spring 1998	91	3.05	0.87	1236	3.19	0.84	-0.14		537	3.19	0.88	-0.14		595	2.74	0.96	0.31	0.32
Diff 98-97		-0.27			0.04					0.14					-0.31			
Spring 1999	493	3.11	0.85	3073	3.03	0.89	0.08		321	3.05	0.81	0.06		253	3.03	0.95	0.08	
Spring 2000	186	3.08	0.87	3374	3.05	0.85	0.03		29	2.93	0.84	0.15		702	2.93	0.93	0.15	
Diff 2000-99		-0.03			0.02					-0.12					-0.10			

#### Satisfaction Index = How well college is liked (value) + Would attend same institution again (value)

Overall opinion of college		Truman		Comprehe	nsive Colleg	je & Univ	TRU	-CCU	Selective I	_iberal Arts	Colleges	TRU	-SLA	General L	iberal Arts (	Colleges	TRU-	-GLA
Satisfaction Index	N	Mean	SD	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size	N	Mean	SD	Mean Diff	Effect Size
Fall 1997	225	6.57	1.30	2550	6.06	1.51	0.51	0.34	1800	6.38	1.52	0.19		2549	6.13	1.55	0.44	0.28
Spring 1998	92	6.05	1.69	1239	6.34	1.41	-0.29		540	6.48	1.52	-0.43		596	5.73	1.55	0.32	
Diff 98-97		-0.52			-0.04					0.35					-0.40			
Spring 1999	493	6.25	1.47	3067	6.08	1.48	0.17		321	6.08	1.37	0.17		253	6.11	1.53	0.14	
Spring 2000	186	6.20	1.55	3364	6.01	1.42	0.19		29	6.03	1.64	0.17		702	5.93	1.53	0.27	
Diff 2000-99		-0.05			-0.07					-0.05					-0.18			

## **Freshman Summary**

Scales, Indices, and Selected Questions by Year and Effect Size (Truman versus Comparison Group)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5

Moderate = 0.5 to 0.8Large = Greater than 0.8 Positive = Truman mean greater

Negative = Comparison Group mean greater

Activity Scales	Year		Effect Size	
		CCU	SLA	GLA
Experience in Writing	Fall 1997	Moderate Negative	Moderate Negative	Moderate Negative
Experiences with Faculty	Fall 1997		Moderate Negative	Moderate Negative
Clubs & Organizations	Fall 1997		Moderate Positive	
Science/Quantitative Experiences	Spring 2000		Moderate Positive	
Topics of Conversation	Fall 1997		Moderate Negative	
Information in Conversations	Fall 1997		Moderate Negative	
Athletic and Recreation Facilities	Fall 1997		Moderate Negative	
, tanono ana reoroadon raomido	1 an 1001		moderate regulive	
Environment Scales	Year		Effect Size	
		CCU	SLA	GLA
Emphasis on Developing Academic,	Fall 1997	Large Positive	Moderate Positive	
Scholarly, and Intellectual Qualities	Spring 1999	Moderate Positive		
Emphasis on Being Critical,	Fall 1997	Moderate Positive		
Evaluative, and Analytical	Spring 2000	Moderate Positive		
•				
Environmental Emphasis: Diversity	Spring 1999		Moderate Negative	
	Spring 2000		Moderate Negative	
			· ·	
Emphasis on Developing Vocational	Spring 2000			Moderate Negative
and Occupational Competence				G
1				
Emphasis on Personal Relevance	Spring 2000			Moderate Negative
and Practical Value of Courses	, 0			3
Gain Scales	Year		Effect Size	
		CCU	SLA	GLA
X7 - 4' - 14 - 1' - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	F-II 1007			Madausta Nagativa
Vocational training, acquiring knowledge & skills	Fall 1997			Moderate Negative
applicable to a specific job or type of work	Spring 1998			Moderate Negative
	Spring 2000			Moderate Negative
C-ii l	Carina 1000		Madarata Nagativa	
Gaining knowledge about other parts of the world	Spring 1998		Moderate Negative	
and other people				
W	F-II 4007		Madauta Nasatisa	
Writing clearly and effectively	Fall 1997		Moderate Negative	
D : 0.100 (.13 1)	0		Madauta Nasatisa	
Becoming aware of different philosophies,	Spring 1998		Moderate Negative	
cultures,and ways of life				
	0 1 0000			
Developing good health habits and physical	Spring 2000		Moderate Positive	
fitness				
Ability to put ideas together, to see relationships,	Fall 1997		Moderate Negative	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
similarities, and differences between ideas				

## Scales by Year and Effect Size

Reading, Writing, and Satisfaction Q.'s	Year		Effect Size	
		CCU	SLA	GLA
Number of textbooks/assigned books read	Fall 1997		Large Negative	Moderate Negative
	Spring 1998		Moderate Negative	
Number of essays exams written	Fall 1997	Moderate Negative	Large Negative	Large Negative
Number of term papers written	Fall 1997	Moderate Negative	Large Negative	Moderate Negative
Good Practice Index	Year		Effect Size	
		CCU	SLA	GLA
Faculty-Student Interaction	Fall 1997	Moderate Negative	Large Negative	
2. Active Learning	Fall 1997		Moderate Negative	
2. Door Cooperation/ Cooperation	Fall 1007		Madarata Nagatiya	
Peer Cooperation/ Cooperation     Among Students	Fall 1997		Moderate Negative	
Capacity for Lifelong-learning Index	Fall 1997		Moderate Negative	

## Freshman Summary

Scales, Indices, and Selected Questions by Year, Gender, and Effect Size (Truman versus Comparison Group)

Effect Size = Indicator of "practical significance" of the magnitude of the difference between means

Small = 0.2 to 0.5 Moderate = 0.5 to 0.8 Large = Greater than 0.8 Positive = Truman mean greater

Negative = Comparison Group mean greater

Activity Scales	Year	Gender	Effect Size		
			CCU	SLA	GLA
Library Experiences	Fall 1997	Female		Moderate Negative	
	Spring 2000	Female	Moderate Positive		
Computer and IT Scale	Spring 2000	Female	Moderate Positive		
Experience in Writing	Fall 1997	Male		Moderate Negative	
		Female	Moderate Negative	Moderate Negative	Moderate Negative
Francisco with Franks	Fall 1997	Male		Madausta Nasation	Madausta Nassatius
Experiences with Faculty	Fall 1997	Female		Moderate Negative Large Negative	Moderate Negative Moderate Negative
	Spring 1998	Male		Moderate Negative	Moderate Negative
	Spring 1990	iviale		Moderate Negative	Moderate Negative
Art, Music, & Theater	Spring 1998	Female	Moderate Positive		
7.11, 11130.0, 31 11103.01	Spring 1999	Male	Moderate Positive		
	Spring 2000	Female			Moderate Positive
	opg 2000				
Campus Facilities	Spring 2000	Male	Moderate Positive		
	-1- 5	Female	Moderate Positive		
Clubs & Organizations	Spring 1999	Male		Moderate Positive	
Personal Experiences	Fall 1997	Female		Moderate Negative	
Student Acquaintances	Fall 1997	Female		Moderate Negative	
	Spring 1998	Female		Moderate Negative	
Colones (Our estitution Francisco	0	N4-1-	Madagata Dagitiya		
Science/Quantitative Experiences	Spring 2000	Male	Moderate Positive	Madagata Dasitiva	
		Female		Moderate Positive	
Topics of Conversation	Spring 1998	Female		Moderate Negative	
Topics of Conversation	Spring 1990	i emale		Moderate Negative	
Information in Conversations	Fall 1997	Male		Moderate Negative	
mornador in conversations	1 411 1001	Female		Moderate Negative	
				modorato rrogatiro	
Athletic and Recreation Facilities	Fall 1997	Male		Moderate Negative	Moderate Negative
Campus Residence	Fall 1997	Male		Moderate Negative	
•		Female		Moderate Negative	
				•	

Environment Scales	Year	Gender	Effect Size		
			CCU	SLA	GLA
Emphasis on Developing Academic,	Fall 1997	Male	Moderate Positive	-	Moderate Positive
Scholarly, and Intellectual Qualities		Female	Large Positive		Moderate Positive
	Spring 1998	Female	Moderate Positive		
	Spring 1999	Female	Moderate Positive		
	Spring 2000	Female	Moderate Positive		
Emphasis on Being Critical,	Fall 1997	Male	Moderate Positive		Moderate Positive
Evaluative, and Analytical		Female	Moderate Positive		
	Spring 1999	Female	Moderate Positive		
	Spring 2000	Female	Moderate Positive		
Environmental Emphasis: Diversity	Spring 1999	Female		Moderate Negative	Moderate Negative
	Spring 2000	Female		Moderate Negative	
	0 1 0000				
Emphasis on Developing Vocational	Spring 2000	Male	Moderate Negative		Moderate Negative
and Occupational Competence					
F 1 : P 1D1	0 - 1 - 4000		M. J. of M. of	M. J. of M. of	
Emphasis on Personal Relevance	Spring 1998	Male	Moderate Negative	Moderate Negative	
	Spring 1999	Male		Moderate Negative	
	Carina 2000	Female	Madarata Nagativa	Moderate Negative	Madarata Nagativa
	Spring 2000	Male	Moderate Negative		Moderate Negative
		Female			Moderate Negative
Gain Scales	Year	Gender		Effect Size	
Guill Genes	Toui	Centaer	CCU	SLA	GLA
			000	OLA	JEI,
Vocational training, acquiring knowledge & skills	Fall 1997	Male			Moderate Negative
applicable to a specific job or type of work		Female	Moderate Negative		3
1 3 31	Spring 1998	Male	ŭ		Large Negative
	Spring 1999	Female	Moderate Negative		0 0
	Spring 2000	Male	Moderate Negative		
		Female	Moderate Negative		
Acquiring background & specialization for further	Spring 1998	Female		Moderate Negative	
education in professional, scientific, or scholarly field					
Gaining a broad general education about different	Spring 1998	Female		Moderate Negative	
fields of knowledge					
	0 1 1000				
Gaining knowledge about other parts of the world	Spring 1998	Female		Moderate Negative	
and other people					
	0 - 1 - 4000	E	Made at Barre		
Developing an understanding and enjoyment of art,	Spring 1998	Female	Moderate Positive		
music, and drama					
Carina tha inno ataura aftirtam fan an James Jina	Fall 1007	Mala		Madarata Nagativa	
Seeing the importance of history for understanding	Fall 1997	Male Male		Moderate Negative Moderate Negative	
the present and the past	Spring 1998	iviale		Moderate Negative	
Writing clearly and effectively	Fall 1997	Female			Moderate Negative
writing clearly and effectively	1 all 1991	i eiliale			Moderate Negative
Becoming aware of different philosophies,	Spring 1998	Male		Moderate Negative	
cultures, and ways of life	Opining 1000	Female		Moderate Negative	
cultures, and ways of the		1 Citiale		Woderate Negative	
Understanding yourselfyour abilities, interests,	Spring 1998	Male		Moderate Negative	
and personality	Spring 1999	Male		Moderate Negative	
and personancy	opinig 1000			moderate rregulare	
Developing good health habits and physical	Fall 1997	Male			Moderate Negative
fitness	Spring 1998	Male	Moderate Negative		Large Negative
	Spring 2000	Female	· ·	Moderate Negative	
				_	
Ability to think analytically and logically	Fall 1997	Male		Moderate Negative	
Quantitative thinkingUnderstanding probabilities,	Spring 1998	Male	Moderate Negative	Moderate Negative	Moderate Negative
proportions, etc.				•	
Ability to put ideas together, to see relationships,	Fall 1997	Male		Moderate Negative	
similarities, and differences between ideas		Female		Moderate Negative	
	Spring 1998	Female		Moderate Negative	
Caire Adamtina to Cha	0 1000	B.4 - 1		Modorata Name	
Gain: Adapting to Change	Spring 1999	Male		Moderate Negative	

Reading, Writing, and Satisfaction Q.'s	Year	Gender		Effect Size	
			CCU	SLA	GLA
Number of textbooks/assigned books read	Fall 1997	Male		Moderate Negative	
		Female		Large Negative	Moderate Negative
	Spring 1998	Male		Moderate Negative	
		Female		Large Negative	
Number of essays exams written	Fall 1997	Male	Moderate Negative	Large Negative	Large Negative
		Female	Large Negative	Large Negative	Large Negative
Number of term papers written	Fall 1997	Male	Moderate Negative	Large Negative	Large Negative
		Female	Moderate Negative	Large Negative	Moderate Negative
How well college is liked	Spring 1998	Male	Large Negative	Large Negative	
<u> </u>			0 0	0 0	
Satisfaction Index: Overall opinion of college	Spring 1998	Male	Large Negative	Large Negative	
Good Practice Index	Year	Gender		Effect Size	
Good Practice Index	Year	Gender	CCU	Effect Size SLA	GLA
Good Practice Index  1. Faculty-Student Interaction	<b>Year</b> Fall 1997	Male		SLA Moderate Negative	Moderate Negative
	Fall 1997	Male Female	Moderate Negative	SLA	
		Male		SLA Moderate Negative	Moderate Negative
	Fall 1997	Male Female	Moderate Negative	SLA Moderate Negative	Moderate Negative
Faculty-Student Interaction	Fall 1997 Spring 2000	Male Female Female	Moderate Negative	SLA Moderate Negative Large Negative	Moderate Negative
Faculty-Student Interaction     Active Learning	Fall 1997 Spring 2000 Fall 1997	Male Female Female Male Female	Moderate Negative	SLA  Moderate Negative Large Negative  Moderate Negative Moderate Negative	Moderate Negative Large Negative
Faculty-Student Interaction	Fall 1997 Spring 2000	Male Female Female Male	Moderate Negative	SLA  Moderate Negative Large Negative  Moderate Negative	Moderate Negative Large Negative
Faculty-Student Interaction      Active Learning      Peer Cooperation/ Cooperation     Among Students	Fall 1997 Spring 2000 Fall 1997 Fall 1997 Spring 2000	Male Female Female Male Female Female	Moderate Negative Moderate Positive	SLA  Moderate Negative Large Negative  Moderate Negative Moderate Negative Moderate Negative	Moderate Negative Large Negative
Faculty-Student Interaction     Active Learning     Peer Cooperation/ Cooperation	Fall 1997 Spring 2000 Fall 1997	Male Female Female Male Female Female Male	Moderate Negative Moderate Positive	SLA  Moderate Negative Large Negative  Moderate Negative Moderate Negative  Moderate Negative  Moderate Negative	Moderate Negative Large Negative Moderate Negative
Faculty-Student Interaction     Active Learning     Peer Cooperation/ Cooperation     Among Students	Fall 1997 Spring 2000 Fall 1997 Fall 1997 Spring 2000	Male Female Female Male Female Female	Moderate Negative Moderate Positive	SLA  Moderate Negative Large Negative  Moderate Negative Moderate Negative Moderate Negative	Moderate Negative Large Negative

## Freshman Summary

Truman Freshman Developmental Differences Fall 1997-Spring 1998

Activity Scales Truman Means differ by 2.0 or more	Mean Difference
Library Experiences	2.21
Experience in Writing	2.70
Experiences with Faculty	2.56
Science/Quantitative Experiences	2.69
Student Union/Center	2.13
Environment Scales	
Truman Means differ by 1.0 or more	Mean Difference
None	
Gain Scales Truman Means differ by 0.30 or more	Mean Difference
Developing an understanding and enjoyment of art, music, and drama	0.33
Writing clearly and effectively	0.36

Reading, Writing, and Satisfaction Q.'s Truman Means differ by 0.20 or more	Mean Difference
Number of textbooks/assigned books read	0.53
Number of non-assigned books read	0.24
Number of essays exams written	1.03
Number of term papers written	0.93
How well college is liked	-0.22
Would attend same institution again	-0.27
Satisfaction Index: Overall opinion of college	-0.52

Good Practice Index Truman Means differ by 2.0 or more	Mean Difference
1. Faculty-Student Interaction	4.00
2. Active Learning ( <b>4.0 or more</b> )	4.57
3. Peer Cooperation/ Cooperation Among Students	3.07

Truman Freshman Differences Spring 1999-Spring 2000

No significant mean differences on all scales, indices, and selected questions

## Freshman Summary

Truman Freshman Differences by Gender

Positive = Truman female mean greater Negative = Truman male mean greater Mean difference value per 1997 CSEQ Manual Values indicate mean differences are of practical significance

Activity Scales Truman Gender Means differ by 2.0 or more	Year	Mean Difference
Art, Music, & Theater	Spring 1998	2.21
Personal Experiences	Spring 1998	4.32

Environment Scales		
Truman Gender Means differ by 1.0 or more	Year	Mean Difference

#### None

Gain Scales Truman Gender Means differ by 0.30 or more	Year	Mean Difference
Vocational training, acquiring knowledge & skills applicable to a specific job or type of work	Spring 1998	0.43
Acquiring background & specialization for further education in professional, scientific, or scholarly field	Spring 1998	0.32
Gaining a broad general education about different fields of knowledge	Spring 1998	0.35
Gaining a range of information that may be relevant to a career	Spring 1998	0.36
Seeing the importance of history for understanding the present and the past	Spring 1998 Spring 2000	0.35 -0.33
Writing clearly and effectively	Spring 1998	0.33
Acquiring familiarity with the use of computers	Spring 1998	0.30
Developing your own values and ethical standards	Spring 1998	0.47
Understanding yourselfyour abilities, interests, and personality	Spring 1998 Spring 1999 Spring 2000	0.68 0.31 0.31
Understanding other people and the ability to get along with different kinds of people	Spring 1998 Spring 1999	0.63 0.36
Quantitative thinkingUnderstanding probabilities, proportions, etc.	Spring 1998	0.40
Gain: Adapting to Change	Spring 1999	0.40

## Truman Freshman Differences by Gender

Reading, Writing, and Satisfaction Q.'s  Truman Gender Means differ by 0.20 or more	Year	Mean Difference
Number of textbooks/assigned books read	Spring 1998	-0.25
Number of textbooks/assigned books read	Spring 1999	0.28
	Spring 2000	0.34
Number of non-assigned books read	Spring 2000	0.24
Number of term papers written	Spring 1999	0.20
	Spring 2000	0.39
How well college is liked	Spring 1998	0.76
Would attend same institution again	Spring 1998	0.45
	Spring 2000	0.23
Satisfaction Index: Overall opinion of college	Spring 1998	1.32
	Spring 2000	0.25
Good Practice Index		
Truman Gender Means differ by 2.0 or more	Year	Mean Difference
1. Faculty-Student Interaction	Spring 2000	-2.92
2. Active Learning (4.0 or more)	Spring 1998	4.81
3. Peer Cooperation/ Cooperation	Fall 1997	2.04
Among Students	Spring 1998	4.54
Capacity for Lifelong-learning Index	Spring 1998	3.05