## WCMS DATA

| Activities | ECollege |  |  | Blackboard | IntraKal | WebCT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C |  |  |  |
| PowerPoint Presentations |  |  |  |  |  |  |
| Course assignments |  |  |  |  |  |  |
| Syllabus |  |  |  |  |  |  |
| Sample/practice Quiz |  |  |  |  |  |  |
| Tests \& Exams |  |  |  |  |  |  |
| Video clips |  |  |  |  |  |  |
| Lecture materials/ handouts |  |  |  |  |  |  |
| Student Journals |  |  |  |  |  |  |
| Peer review of papers |  |  |  |  |  |  |
| Assignment drop box |  |  |  |  |  |  |
| Links to other Web sites |  |  |  |  |  |  |
| Reference Links |  |  |  |  |  |  |
| Chat |  |  |  |  |  |  |
| Discussion board |  |  |  |  |  |  |

Table 1. Student activities by Web course management system.

| Survey Items | eCollege |  |  | Blackboard | IntraKal | WebCT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | B | C |  |  |  |
| Freshman <br> Sophomore <br> Junior <br> Senior <br> Master | 13 | $\begin{aligned} & 3 \\ & 10 \\ & 1 \end{aligned}$ | $\begin{aligned} & 12 \\ & 4 \end{aligned}$ | 13 | $\begin{aligned} & 2 \\ & 7 \end{aligned}$ |  |
| Required course $\mathrm{N}=$ | $\begin{aligned} & 13 \\ & 100 \% \end{aligned}$ | $\begin{aligned} & 13 \\ & 92.9 \% \end{aligned}$ | $\begin{aligned} & 16 \\ & 94 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 13 \\ & 100 \% \end{aligned}$ | $\begin{aligned} & 9 \\ & 81 \% \end{aligned}$ | $\begin{aligned} & 26 \\ & 81 \% \\ & \hline \end{aligned}$ |
| Number enrolled | 13 | 14 | 17 | 13 | 9 | 32 |

Table 2. Student classification. *All data except WebCT are from post-course surveys

| Survey question | A | $\begin{gathered} \text { eCollege } \\ \text { B } \end{gathered}$ | C | Blackboard | Intra- <br> Kal | WebCT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Have you ever taken a course that was taught, at least in part, using WebBoard? | $\begin{aligned} & \text { Yes } \\ & 46 \% \end{aligned}$ | $\begin{aligned} & \text { Yes } \\ & 59 \% \end{aligned}$ | Yes $11 \% \%$ | $\begin{aligned} & \text { Yes } \\ & 9 \% \end{aligned}$ | $\begin{aligned} & \text { *Yes } \\ & 0 \% \end{aligned}$ | $\begin{aligned} & \text { Yes } \\ & 22 \% \end{aligned}$ |
| Rate the experience | $\begin{aligned} & \hline \text { Good } \\ & \mathrm{N}=6 \\ & \mathrm{M}=4.1 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Good } \\ & \mathrm{N}=11 \\ & \mathrm{M}=3.9 \end{aligned}$ | $\begin{aligned} & \mathrm{Bad} \\ & \mathrm{~N}=4 \\ & \mathrm{M}=2.5 \end{aligned}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=2 \\ & \mathrm{M}=3.5 \end{aligned}$ | $\begin{aligned} & \text { Good } \\ & \mathrm{N}=5 \\ & \mathrm{M}=4.0 \end{aligned}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=9 \\ & \mathrm{M}=3 \\ & \hline \end{aligned}$ |
| Have you ever taken a course that was taught, at least in part, using e-mail? | $\begin{aligned} & \hline \text { Yes } \\ & 38 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 64 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 29 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 72 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 22 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 53 \% \end{aligned}$ |
| Rate the experience | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=2 \\ & \mathrm{M}=3.2 \end{aligned}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=11 \\ & \mathrm{M}=3.54 \end{aligned}$ | $\begin{aligned} & \hline \text { Neutral } \\ & \mathrm{N}=1 \\ & \mathrm{M}=3.0 \end{aligned}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=2 \\ & \mathrm{M}=3.5 \end{aligned}$ | $\begin{aligned} & \text { Good } \\ & \mathrm{N}=4 \\ & \mathrm{M}=4.0 \end{aligned}$ | $\begin{aligned} & \hline \text { Excel } \\ & \mathrm{N}=15 \\ & \mathrm{M}=4.6 \end{aligned}$ |
| Have you ever taken a course that was taught, at least in part, using a Web course management system such as Blackboard or eCollege? | $\begin{aligned} & \hline \text { Yes } \\ & 15 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 35 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 5.8 \% \end{aligned}$ | $\begin{aligned} & \text { Yes } \\ & 9 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 22 \% \end{aligned}$ | $\begin{aligned} & \hline \text { Yes } \\ & 18 \% \end{aligned}$ |
| Rate the experience | $\begin{aligned} & \text { Good } \\ & \mathrm{N}=2 \\ & \mathrm{M}=4.0 \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Good } \\ \mathrm{N}=8 \\ \mathrm{M}=3.6 \\ \hline \end{array}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=2 \\ & \mathrm{M}=3.0 \end{aligned}$ | $\begin{aligned} & \hline \text { Neutral } \\ & \mathrm{N}=1 \\ & \mathrm{M}=3.0 \end{aligned}$ | $\begin{aligned} & \text { Good } \\ & \mathrm{N}=3 \\ & \mathrm{M}=3.6 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Neutral } \\ & \mathrm{N}=7 \\ & \mathrm{M}=3.1 \end{aligned}$ |
| $\begin{aligned} & * * \text { Scale } \\ & 5 \text { (Excellent) } 4 \text { (Good) } 3 \text { (Neutral) } 2 \text { (Bad) } 1 \text { (Very Bad) } \end{aligned}$ |  |  |  |  |  |  |
| Rate your WCMS experience | $\begin{aligned} & \hline \text { Neutral } \\ & \mathrm{M}=3.25 \end{aligned}$ | Good $\mathrm{M}=2.3$ | Good $\mathrm{M}=2.4$ | $\begin{aligned} & \hline \text { Neutral } \\ & \mathrm{M}=2.69 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Neutral } \\ & \mathrm{M}=2.7 \\ & \hline \end{aligned}$ | N/A |
| $\begin{aligned} & \text { **Scale } \\ & 5 \text { (Excellent) } 4 \text { (Good) } 3 \text { (Neutral) } 2 \text { (Bad) } 1 \text { (Very Bad) } \end{aligned}$ |  |  |  |  |  |  |
| Would you prefer to have more courses that use a WCMS? | $\begin{aligned} & \hline 38 \% \\ & (5 / 13) \end{aligned}$ | $\begin{aligned} & 64 \% \\ & (9 / 14) \end{aligned}$ | $\begin{aligned} & 58 \% \\ & (10 / 17) \end{aligned}$ | N/A | $\begin{aligned} & 36 \% \\ & (4 / 11) \end{aligned}$ | N/A |

Table 3. Question response by percent enrolled. N=number. M=mean.

| Survey | *Skills |  |  | Q1 | Q2 | Q3 | *Q4 | * Q5 |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | * Q6

Table 4. Combined pre- and post-course survey means for four courses. Q=question. $\mathrm{N}=$ number. *Indicates a significant difference between group means.

| Survey |  | Q7 | Q8 | *Q9 | Q10 | *Q11 | Q12 | *(13 | Q14 | Q15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Post-course | Mean | 3.82 | 3.66 | 3.04 | 3.38 | 3.22 | 3.48 | 2.97 | 3.24 | 2.49 |
|  | N | 68 | 68 | 68 | 68 | 68 | 67 | 68 | 67 | 67 |
|  | Std. Deviation | 1.01 | . 94 | 1.07 | 1.15 | 1.18 | 1.11 | 1.51 | 1.23 | . 89 |
| Pre-course | Mean | 3.85 | 3.73 | 2.65 | 3.67 | 3.83 | 3.88 | 3.27 | 3.62 | 2.59 |
|  | N | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
|  | Std. Deviation | 1.38 | 1.42 | 1.13 | 1.44 | 1.16 | 1.21 | 1.38 | 1.24 | 1.07 |
| Total | Mean | 3.84 | 3.69 | 2.85 | 3.52 | 3.52 | 3.68 | 3.12 | 3.43 | 2.54 |
|  | N | 134 | 134 | 134 | 134 | 134 | 133 | 134 | 133 | 133 |
| Between Groups | $\begin{array}{r} \hline \text { Std. } \\ \text { Deviation } \\ \text { Sig. } \end{array}$ | 1.20 | 1.20 | $\begin{aligned} & 1.11 \\ & .041 \end{aligned}$ | 1.30 | $\begin{aligned} & 1.21 \\ & .003 \end{aligned}$ | 1.17 | $\begin{aligned} & 1.45 \\ & .048 \end{aligned}$ | 1.24 | . 98 |

Table 4 continued. Combined pre- and post-course survey means for four courses. *Indicates a significant difference between group means.

|  |  | Sum of Squares | df | Mean <br> Square | F | Sig. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technology skills | Between Groups | 2.925 | 1 | 2.925 | 3.039 | . 084 |
|  | Within Groups | 127.029 | 132 | . 962 |  |  |
| Total |  | 129.954 | 133 |  |  |  |

Table 5. ANOVA for computer skills without the use of the WCMS. *The grouping variable SECTION is a string, so the test for linearity cannot be computed.

Table 6. Means of pre- and post-survey means for each question relative to the specific WCMS. Q=question. N=number.

| Instructor group | Survey |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| IntraKal | POST | Mean | 3.91 | 3.64 | 3.00 | 3.45 | 4.09 |


|  | PRE | Mean | 4.06 | 4.15 | 2.33 | 3.02 | 3.95 | 3.36 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | N | 66 | 66 | 66 | 66 | 66 | 66 |
|  |  | Std. Deviation | 1.50 | 1.28 | 1.44 | 1.67 | 1.57 | 1.44 |
|  | Total | Mean | 4.20 | 4.23 | 2.31 | 3.35 | 4.17 | 3.73 |
|  |  | N | 134 | 133 | 134 | 134 | 134 | 134 |
|  |  | Std. Deviation | 1.34 | 1.17 | 1.45 | 1.50 | 1.28 | 1.27 |

Table 6 cont.. Means of pre- and post-survey means for each question relative to the specific WCMS. Q=question. N=number.

| Instructor group | Survey |  | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| IntraKal | POST | Mean | 3.73 | 3.64 | 2.64 | 3.36 | 3.00 | 3.00 | 3.45 | 3.55 | 2.73 |
|  |  | N | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|  |  | Std. Deviation | 1.01 | 1.12 | 1.12 | 1.50 | 1.41 | 1.41 | 1.21 | 1.13 | 1.01 |
|  | PRE | Mean | 3.78 | 3.56 | 2.67 | 3.78 | 4.00 | 4.11 | 4.00 | 3.33 | 2.33 |
|  |  | N | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |  | Std. Deviation | 1.30 | 1.24 | . 87 | 1.20 | . 71 | . 78 | . 50 | 1.12 | 1.32 |
|  | Total | Mean | 3.75 | 3.60 | 2.65 | 3.55 | 3.45 | 3.50 | 3.70 | 3.45 | 2.55 |
|  |  | N | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|  |  | Std. Deviation | 1.12 | 1.14 | . 99 | 1.36 | 1.23 | 1.28 | . 98 | 1.10 | 1.15 |
| eCollege | POST | Mean | 3.08 | 3.08 | 3.46 | 3.15 | 3.00 | 2.85 | 2.46 | 2.77 | 2.08 |
|  |  | N | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
|  |  | Std. <br> Deviation | 1.32 | . 76 | 1.27 | . 80 | . 82 | . 99 | 1.76 | 1.24 | 1.32 |
|  | PRE | Mean | 3.71 | 3.93 | 2.64 | 4.14 | 3.50 | 3.57 | 3.07 | 3.71 | 3.00 |
|  |  | N | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
|  |  | Std. Deviation | 1.54 | . 62 | 1.15 | 1.10 | 1.02 | 1.02 | 1.38 | 1.07 | 1.11 |
|  | Total | Mean | 3.41 | 3.52 | 3.04 | 3.67 | 3.26 | 3.22 | 2.78 | 3.26 | 2.56 |
|  |  | N | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
|  |  | Std. Deviation | 1.45 | . 80 | 1.26 | 1.07 | . 94 | 1.05 | 1.58 | 1.23 | 1.28 |
| Blackboard | POST | Mean | 3.92 | 3.54 | 3.00 | 3.08 | 3.54 | 3.83 | 3.00 | 3.17 | 2.42 |
|  |  | N | 13 | 13 | 13 | 13 | 13 | 12 | 13 | 12 | 12 |
|  |  | Std. Deviation | . 76 | 1.13 | 1.15 | 1.19 | 1.05 | . 94 | 1.35 | 1.27 | . 67 |
|  | PRE | Mean | 4.56 | 4.00 | 3.00 | 3.56 | 4.44 | 4.11 | 3.11 | 3.89 | 2.56 |
|  |  | N | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
|  |  | Std. <br> Deviation | . 53 | 1.22 | . 87 | 1.67 | . 73 | 1.27 | 1.27 | 1.17 | . 53 |
|  | Total | Mean | 4.18 | 3.73 | 3.00 | 3.27 | 3.91 | 3.95 | 3.05 | 3.48 | 2.48 |
|  |  | N | 22 | 22 | 22 | 22 | 22 | 21 | 22 | 21 | 21 |
|  |  | Std. <br> Deviation | . 73 | 1.16 | 1.02 | 1.39 | 1.02 | 1.07 | 1.29 | 1.25 | . 60 |
| eCollege (C) | POST | Mean | 4.29 | 3.94 | 2.88 | 3.29 | 2.94 | 3.76 | 2.76 | 2.88 | 2.59 |
|  |  | N | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
|  |  | Std. Deviation | . 85 | . 83 | . 86 | 1.36 | 1.34 | 1.03 | 1.82 | 1.36 | . 62 |
|  | PRE | Mean | 3.82 | 3.59 | 2.88 | 3.47 | 3.65 | 3.76 | 3.24 | 3.59 | 2.71 |


|  |  | N | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Std. <br> Deviation | 1.59 | 1.66 | 1.27 | 1.59 | 1.17 | 1.30 | 1.56 | 1.33 | 1.21 |
|  | Total | Mean | 4.06 | 3.76 | 2.88 | 3.38 | 3.29 | 3.76 | 3.00 | 3.24 | 2.65 |
|  |  | N | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
|  |  | Std. <br> Deviation | 1.28 | 1.30 | 1.07 | 1.46 | 1.29 | 1.16 | 1.69 | 1.37 | . 95 |
| ECollege <br> ( A) | POST | Mean | 3.93 | 4.00 | 3.21 | 4.00 | 3.64 | 3.79 | 3.29 | 3.93 | 2.64 |
|  |  | N | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
|  |  | Std. <br> Deviation | . 73 | . 68 | . 97 | . 55 | 1.15 | . 89 | 1.14 | . 83 | . 74 |
|  | PRE | Mean | 3.65 | 3.65 | 2.24 | 3.47 | 3.88 | 4.00 | 3.18 | 3.59 | 2.29 |
|  |  | N | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
|  |  | Std. <br> Deviation | 1.41 | 1.87 | 1.20 | 1.59 | 1.54 | 1.46 | 1.55 | 1.46 | . 92 |
|  | Total | Mean | 3.77 | 3.81 | 2.68 | 3.71 | 3.77 | 3.90 | 3.23 | 3.74 | 2.45 |
|  |  | N | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
|  |  | Std. <br> Deviation | 1.15 | 1.45 | 1.19 | 1.24 | 1.36 | 1.22 | 1.36 | 1.21 | . 85 |
| Total | POST | Mean | 3.82 | 3.66 | 3.04 | 3.38 | 3.22 | 3.48 | 2.97 | 3.24 | 2.49 |
|  |  | N | 68 | 68 | 68 | 68 | 68 | 67 | 68 | 67 | 67 |
|  |  | Std. <br> Deviation | 1.01 | . 94 | 1.07 | 1.15 | 1.18 | 1.11 | 1.51 | 1.23 | . 89 |
|  | PRE | Mean | 3.85 | 3.73 | 2.65 | 3.67 | 3.83 | 3.88 | 3.27 | 3.62 | 2.59 |
|  |  | N | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
|  |  | Std. <br> Deviation | 1.38 | 1.42 | 1.13 | 1.44 | 1.16 | 1.21 | 1.38 | 1.24 | 1.07 |
|  | Total | Mean | 3.84 | 3.69 | 2.85 | 3.52 | 3.52 | 3.68 | 3.12 | 3.43 | 2.54 |
|  |  | N | 134 | 134 | 134 | 134 | 134 | 133 | 134 | 133 | 133 |
|  |  | Std. <br> Deviation | 1.20 | 1.20 | 1.11 | 1.30 | 1.21 | 1.17 | 1.45 | 1.24 | . 98 |

Table 6 cont.. Means of pre- and post-survey means for each question relative to the specific WCMS. Q=question. N=number.

## Appendix 1

Pre-course Survey

| Rate your ability to do each of the following: on the scale of 1-5 | Expert user 5 | 4 | 3 | 2 | No ability or knowledge <br> 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Send and receive e-mail | O | O | O | O | O |
| Create a word processed document | O | O | O | O | O |
| Create or edit a World Wide Web page | O | O | O | O | O |
| Send and receive files by way of the computer (over a modem, the Internet/WWW as file attachments or ftp etc.) | O | O | O | O | O |
| Search for information on the Internet/World Wide Web | O | O | O | O | O |
| Use the Web system for this course (eCollege, Blackboard, IntraKal) | O | O | O | O | O |
| Indicate how strongly you agree or disagree with each of the following statements. | Strongly Agree | Agree <br> 4 | Disagree <br> 3 | Strongly Disagree | No basis for judgment/ not applicable 1 |
| The technology to be used is appropriate for performing the tasks required in this course. | O | O | O | O | O |
| Because of the way this course will use electronic communication: <br> The assignments will be more interesting than in a regular classroom. | O | O | O | O | O |
| I will spend too much time learning to use the technology | O | O | O | O | O |
| I think I will be better able to juggle my course work with my work and home responsibilities | O | O | O | O | O |


| Indicate how strongly you agree or disagree with each of the following statements. | Strongly Agree | Agree | Disagree | Strongly Disagree $2$ | No basis for judgment/ not applicable 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Because of the way this course will use electronic communication: <br> I will communicate better/more, with other students in the class | O | O | O | O | O |
| I will communicate better/more, with the teacher in class | O | O | O | O | O |
| My grade will be affected | O | O | O | O | O |
| I will be a better learner | O | O | O | O | O |
| I will be at a disadvantage because I do not possess adequate computer skills. | O | O | O | O | O |
| Have you ever taken a course that was taught, at least in part, using WebBoard ? $\quad \mathrm{O}$ |  |  |  |  |  |
| If yes, rate that experience O Very Bad O Bad O Neutral O Good O Excellent |  |  |  |  |  |
| Have you ever taken a course that was taught, at least in part, using e-mail? $\quad \mathrm{O}$ |  |  |  |  |  |
| If yes, rate that experience O Very Bad O Bad O Neutral O Good O Excellent |  |  |  |  |  |
| Have you ever taken a course that was taught, at least in part, using a web course management system such as Blackboard or eCollege? <br> O Yes O No |  |  |  |  |  |
| If yes, rate that experience O Very Bad O Bad O Neutral O Good O Excellent |  |  |  |  |  |
| Name the system |  |  |  |  |  |
| In what way will using this Web course management system alter the way you study, learn and manage your time for this class? |  |  |  |  |  |
| What aspects of the course and Web Course Management System do you feel will be the most beneficial and the least? |  |  |  |  |  |

Post-course Survey

| Rate your ability to do each of the following: on the scale of 1-5 | Expert user | 4 | 3 | 2 | No ability/knowledge |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Send and receive e-mail | O | O | O | O | O |
| Create a word processed document | O | O | O | O | O |
| Create or edit a World Wide Web page | O | O | O | O | O |
| Send and receive files by way of the computer (over a modem, the Internet/WWW as file attachments or ftp etc.) | O | O | O | O | O |
| Search for information on the Internet/World Wide Web | O | O | O | O | O |
| Use the Web system for this course (eCollege, Blackboard, IntraKal) | O | O | O | O | O |
| Indicate how strongly you agree or disagree with each of the following statements. | Strongly <br> Agree | Agree <br> 4 | Disagree $3$ | Strongly Disagree $2$ | No basis for judgment/ not applicable 1 |
| The technology used was appropriate for performing the tasks required in this course. | O | O | O | O | O |
| Because of the way this course used electronic communication, the assignments were more interesting than in a regular classroom. | O | O | O | O | O |
| Because of the way this course used electronic communication, I did spend too much time learning to use the technology | O | O | O | O | O |
| Because of the way this course used electronic communication, I think I am better able to juggle my course work with my work and home responsibilities | O | O | O | O | O |


| Indicate how strongly you agree or disagree <br> with each of the following statements. | Strongly <br> Agree <br> $\mathbf{5}$ | Agree | Disagree | Strongly <br> Disagree <br> $\mathbf{2}$ | No basis for <br> judgment/ <br> not applicable 1 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Because of the way this course used electronic <br> communication, I communicate better or more <br> with other students in the class. | O | $\mathbf{3}$ | O | O | O |
| Because of the way this course used electronic <br> communication, I communicate better/more, <br> with the teacher in class. | O | O | O | O |  |

Rate the experience of using a Web Course Management System: (WCMS)
O Very Bad
O Bad Would you prefer to have more courses that use a WCMS?
O Neutral
O Yes
O Good
O No
O Excellent

In what way did using this Web course management system alter the way you study, learn and manage your time for this class?

What aspects of the course and Web course management system do you feel were the most beneficial and the least?

