



## Faculty Survey on Instructional Technology 2001: College of Engineering Frequencies

### About You

<b>Survey Mode:</b>	N	%
Online	65	44.5
Paper	81	55.5

<b>2. Rank:</b>	N	%
1) Full Professor	50	34.2
2) Associate Professor	23	15.8
3) Assistant Professor	13	8.9
4) Instructor	4	2.7
5) Lecturer	7	4.8
6) Teaching Assistant	36	24.7
7) Other (specify):	13	8.9
TOTAL	146	

<b>3. Are you tenured?</b>	N	%
No	67	48.6
Yes	71	51.4

<b>4. Current appointment:</b>	N	%
a. 1) Part-time	28	21.7
2) Full-time	101	78.3
TOTAL	129	
b. 1) Regular	33	73.3
2) Adjunct	4	8.9
3) Temporary	8	17.8
TOTAL	45	

**5. Do you serve in an administrative capacity?**

	N	%
1) No	118	90.1
2) Yes, Dean	1	0.8
Yes, Chair/Chief	4	3.1
Yes, Director	5	3.8
Yes, Other	3	2.3
TOTAL	131	

**6. Highest degree**

	N	%
BS/BA	21	15.8
MS/MS	18	13.5
MD/DDS	1	0.8
PhD/EdD	91	68.4
Other	2	1.5
TOTAL	133	

**Year received highest degree**

	N	%
thru 1969	13	17.8
1970s	17	23.3
1980s	16	21.9
1990-94	8	11.0
1995+	19	26.0
TOTAL	73	

7. For how many courses and students are you the primary instructor this academic year (autumn through spring qtr.)?

Mean Number of ...	Lower Division		Upper Division		Graduate		ALL LEVELS	
	Courses	Students	Courses	Students	Courses	Students	Courses	Students
Classroom lectures	1.2	92	1.7	54	1.5	25	2.3	73
Discussion seminars	1.0	37	1.6	31	1.2	21	1.7	34
Other (e.g., lab, practicum):	2.3	59	1.6	24	0.5	121	1.8	56

### Your Use of Technology

8. How would you rate your expertise as a computer user?

0	1	2	3	4	N
Don't use	Novice	Intermediate	Advanced	Expert	
0.0	1.4	34.5	33.1	31.0	142

9. Which of the following methods for learning about computers do you prefer most? (Check all that apply.) Please also rank your top THREE preferences by writing the corresponding letter in the appropriate space below.

	%		
a) I don't wish to learn more about computers.	6.8	1 <sup>st</sup> most preferred:	<u>EXPLORING</u> 34%
b) Workshops	37.0		<u>COLLEAGUES</u> 21%
c) On-line computer classes	19.2	2 <sup>nd</sup> most preferred:	<u>COLLEAGUES</u> 32%
d) Books, journals, tutorials	50.0		<u>EXPLORING</u> 23%
e) Exploring, experimenting	73.3	3 <sup>rd</sup> most preferred:	<u>BOOKS</u> 21%
f) Help from colleagues, friends, family	69.9		<u>EXPLORING</u> 20%
g) Telephone consultants	13.0		
h) Local technical support	42.5		
i) Conferences in your discipline	16.4		
j) Other (specify): _____	7.1		

10. About how often do you use computers at the following places to do your work for the UW?

	Never	Once a year	Several times a year	Once a month	Several times a month	1-2 times a week	Every day	N
a) Campus office	3.5	0.7	0.0	0.0	0.7	2.8	92.3	142
b) Classroom	24.8	3.0	14.3	12.8	13.5	18.8	12.8	133
d) Home	3.5	0.7	1.4	2.1	8.5	15.5	68.3	142
e) While traveling	21.5	6.9	21.5	6.9	5.4	10.0	27.7	130
d) Other (specify): _____	47.4	0.0	0.0	0.0	5.3	10.5	36.8	19

11. What computer technology (if any) do you use at the UW? (Check all that apply.) For each item, indicate the number of years since it was replaced / up-graded.

	I use	Since Replacement / Upgrade			N
		1 year	2 years	3+ years	
a) Personal Computer (PC, IBM-compatible)	76.0	50.4	33.0	16.5	111
b) Macintosh (MAC)	32.2	30.0	30.0	40.0	47
c) Unix Workstation	32.2	45.5	20.5	34.1	47
d) Printer	84.9	32.8	25.4	41.8	124
e) Scanner	47.9	41.2	33.8	25.0	70
f) Drives, diskettes, etc. for file back-up	61.0	47.0	25.3	27.7	89
g) Digital camera	37.0	56.0	22.0	22.0	54
h) Other (specify): _____	4.1	83.3	0.0	16.7	6

12. What kind of Internet connection do you use ... (Percent checked in each column.)

	at the UW?	at home?	while traveling?	N
a) None	0.7	2.7	14.4	146
b) I don't know what kind of connection I use.	2.1	0.0	2.1	146
c) Campus network	93.2	5.5	2.1	146
d) Regular modem	1.4	53.4	47.3	146
e) Cable modem	0.0	18.5	0.7	146
f) Digital Subscriber Line (DSL) modem	0.7	17.8	0.7	146
g) Wireless	0.7	2.1	0.7	146
h) Other (specify): _____	0.7	0.0	0.7	146

13. How satisfied are you with your Internet connection at home?

	Very Dissatisfied	Somewhat Dissatisfied	Somewhat Satisfied	Very Satisfied	Not Applicable/ Don't know	N
a) speed	14.2	25.5	28.4	28.4	3.5	141
b) reliability	10.8	13.7	34.5	37.4	3.6	139

14. Do you ...

	No	Yes	N
a) have exclusive use of a computer at the UW?	11.2	88.8	143
b) communicate with email at work?	1.4	98.6	143
c) communicate with email at home?	13.3	86.7	143
d) have a non-UW email account?	22.7	77.3	141
e) transfer files between work and home?	13.4	86.6	142

If yes, which method do you use most often? (N=127)

1) 3.5" floppy:	15.0%	4) Other high capacity disk	0.0%	7) FTP (Fetch, WS-FTP)	33.9%
2) ZIP disk:	25.2	5) CD burner	0.8	8) Other (specify):	12.6
3) Jazz disk	0.8	6) Email attachment	11.8		

15. How often do you use the following to support your instruction at the UW?

	Never	Once a year	Several times a year	Once a month	Several times a month	1-2 times a week	Every day
a) Word processing	2.8	.7	6.3	2.1	4.9	25.9	57.3
b) Spreadsheet (e.g., Excel)	9.2	2.8	8.5	6.3	19.7	31.7	21.8
c) Presentation (e.g., PowerPoint)	9.4	4.3	18.8	13.8	23.2	17.4	13.0
d) Email (e.g., Pine, Outlook, Eudora)	1.4	.7	2.1	2.1	2.1	8.5	83.1
e) Calendar/scheduling	41.7	.7	4.3	1.4	.7	8.6	42.4
f) Internet/Web access (e.g, Navigator)	2.1	.7	2.9	1.4	5.0	15.0	72.9
g) Web (HTML) editors (e.g., Frontpage)	38.4	5.1	11.6	7.2	11.6	15.2	10.9
h) Catalyst web-based tools	76.3	3.7	11.1	.7	3.0	2.2	3.0
i) Courseware (e.g., WebCT, Blackboard)	92.4	.8	1.5	.8	.8	3.0	.8
j) Publishing (e.g., Acrobat, PageMaker)	35.3	1.5	9.6	6.6	14.7	17.6	14.7
k) Graphics (e.g., Photoshop)	31.7	4.3	12.9	11.5	21.6	12.2	5.8
l) Multimedia authoring software	80.5	3.0	6.0	5.3	4.5	0.0	.8
m) Database (e.g., ACCESS, FileMaker)	61.2	5.8	8.6	3.6	10.8	7.2	2.9
n) Video editing software	89.6	3.0	3.7	2.2	0.0	1.5	0.0
o) Statistical analysis software	75.6	3.7	7.4	2.2	3.7	3.7	3.7
p) Software to record/manage grades	36.4	0.0	6.2	5.4	20.2	27.1	4.7
q) Modeling or simulations	48.2	2.9	9.5	5.1	11.7	10.9	11.7
r) Overhead transparencies	15.8	4.3	9.4	4.3	24.5	28.1	13.7
s) Slides, filmstrips and/or movies	60.2	11.3	14.3	4.5	6.8	2.3	.8
t) Video and/or audio tape	60.2	9.8	14.3	6.8	6.8	2.3	0.0
u) Digital video and/or audio	68.7	5.3	11.5	3.1	7.6	3.8	0.0
v) Computer-projected presentations	33.8	6.6	19.1	9.6	12.5	12.5	5.9
w) Video conferencing	83.2	6.1	6.1	2.3	2.3	0.0	0.0
x) 3-D modeling	75.9	4.5	5.3	4.5	2.3	3.0	4.5
y) Computer-generated animat/graphics	66.9	4.5	7.5	5.3	7.5	6.0	2.3
z) Other (specify):	66.7	0.0	0.0	0.0	3.7	25.9	3.7

16. Have you used any of the following Catalyst tools?

	Yes	No	Don't know	N
a) Peer Review (collaboration tool)	6.6	89.7	3.7	136
b) WebQ (survey/quiz generator)	8.0	88.4	3.6	138
c) Epost (discussion board)	7.4	88.9	3.7	135
d) Umail (feedback form)	8.9	87.4	3.7	135
e) E-submit (assignment turn-in)	5.1	91.2	3.6	137
f) Web Templates (course webpage)	17.6	78.7	3.7	136
* <u>Any</u> Catalyst tool (derived from items a-f)	26.7	73.3	--	146

17. Which of the following issues concern you when using information technology to do your work for the University? (Check all that apply.) Please also rank your top THREE concerns by writing the corresponding letter in the appropriate space below.

A concern of (%)		A concern of (%)	
a) I don't have time.	50.7	l) There is no incentive (e.g., leave time, contribution toward tenure, financial).	26.7
b) I don't have the necessary skills.	26.7	m) I'm not convinced it would improve student learning.	23.3
c) I don't know how to get access.	13.0	n) Students may not be proficient.	9.6
d) I need upgraded hardware.	22.6	o) It's too much trouble.	24.7
e) I don't have adequate development tools.	17.1	p) It costs too much.	10.3
f) The applications and media I want to use don't run on machines in the classrooms.	18.5	q) Other (specify):	8.2
g) I don't have technical support in my department.	19.9	1 <sup>st</sup> highest concern: <u>TIME</u>	32%
h) I don't have on-site (e.g., classroom, lab) support.	26.7	<u>STUDENT LRNG.</u>	14%
i) I don't have pedagogical support.	10.3	2 <sup>nd</sup> highest concern: <u>NO INCENTIVE</u>	11%
j) I'm not sure how to legally use copyrighted materials.	9.6	<u>STUDENT LRNG.</u>	10%
k) I'm concerned about losing my own intellectual property rights.	8.9	3 <sup>rd</sup> highest concern: <u>TIME</u>	14%
		<u>TOO MUCH TROUBLE</u>	12%

18. If you could easily obtain support and service, to what extent would you like to use the web for the following?

	Not at All	Somewhat	Very Much	Already Use	Don't Know
a) Mount course materials	3.0	14.1	28.1	52.6	2.2
b) Facilitate class discussions	16.7	33.3	27.3	18.2	4.5
c) Post student work	24.1	24.8	21.8	22.6	6.8
d) Access on-line course reserves	12.2	22.1	38.9	19.1	7.6
e) Gather information via on-line quizzes or surveys	23.9	32.8	26.9	9.0	7.5
f) Manage course grades	37.8	20.0	23.7	13.3	5.2
g) Submit final course grades	16.3	18.5	57.0	2.2	5.9
h) Access on-line materials archives	9.0	19.4	41.8	21.6	8.2
i) Conduct simulations or visualizations	21.1	18.0	39.1	10.5	11.3
j) Conduct research	12.1	16.7	24.2	38.6	8.3
k) Use Geographical Information System (GIS) or other spatial display of information	47.3	15.3	12.2	3.8	21.4
l) Present work to other people at the UW	12.0	31.6	22.6	24.1	9.8
m) Present work to other people around the world	13.7	26.0	22.1	27.5	10.7
n) Facilitate collaboration with people at the UW	8.4	28.2	29.8	20.6	13.0
o) Facilitate collaboration with people around the world	11.4	25.8	27.3	22.0	13.6
p) Perform compositions, dances, or other music/art activities	79.7	6.3	.8	1.6	11.7
q) Other (specify):	72.7	0.0	9.1	0.0	18.2

19. If you could easily obtain support and service, to what extent would you like to use the following resources for your work?

	Not at All	Somewhat	Very Much	Already Use	Don't Know
a) An email list of students in your class	1.5	3.7	23.1	70.9	0.7
b) Audio/video clips, animation, or slides	21.1	32.3	24.8	14.3	7.5
c) Videoconferencing	46.2	26.5	18.2	1.5	7.6
d) Streaming video	41.2	24.4	17.6	4.6	12.2
e) Computer simulations	19.7	28.8	27.3	18.2	6.1
f) Multimedia presentations as class assignments	27.8	30.8	24.8	8.3	8.3
g) Textual analysis programs (e.g., Atlas)	47.7	10.0	4.6	2.3	35.4
h) Other (specify):	75.0	0.0	0.0	0.0	25.0

20. Where do you currently go for technical support for your instruction?

Resource	N	%
Nowhere	5	3.4
Colleague/Faculty/Friend	7	4.8
Department/Office	42	28.8
UW resource/Catalyst	5	3.4
Web resource	6	4.1
Other	5	3.4
No Answer (missing)	76	52.1

21. What 3 things could the University do to improve the information technology products and services it provides to you?

Service	N	%
Improve access	10	17.9
Improve support	20	35.7
Workshops/courses	10	17.9
Improve classroom capabilities	8	14.3

22. What technical skills should students have to participate in University courses?

Skill	N	%
Use email	11	19.6
Use word processing software	24	42.9
Have Web access	20	35.7
Use database or spreadsheet software	9	16.1

23. What technical skills should students have when they graduate from the UW?

Skill	N	%
Use email	13	23.6
Use word processing software	6	10.9
Have Web access	17	30.9
Use database or spreadsheet software	11	20.0

24. What resources need to be in place for students to learn required technical skills while they are at the UW?

Resource	N	%
Computer access or loans	9	17.0
Computer labs with assistance	8	15.1
Instruction/workshops	18	34.0
Programs define/require skills courses	4	7.5

## Your Experience with Technical Facilities in UW Classrooms

25. What type(s) of technology do you prefer to have available in the classroom? (Check all that apply.) Please also rank your top THREE choices by writing the corresponding letter in the appropriate space below.

	Preferred by (%)		Preferred by (%)
a) None	1.4	l) Laptop hook-up on podium	67.1
b) Overhead projector (for transparencies)	84.9	m) Multi-media (computer) projector	68.5
c) Television	27.4	n) Other (specify):	8.2
d) VCR	42.5		
e) Video disc player	4.8	1st most preferred:	<u>OVERHEADS</u> 54%
f) DVD	11.6		<u>MULTI-MEDIA</u> 22%
g) Film projector	2.1	2nd most preferred:	<u>LAPTOP HOOKUP</u> 28%
h) Slide projector	24.0		<u>MULTI-MEDIA</u> 26%
i) Audio tape player	3.4	3rd most preferred:	<u>LAPTOP HOOKUP</u> 22%
j) CD player	8.2		<u>OVERHEADS</u> 16%
k) Permanent computer at podium	49.3		<u>MULTI-MEDIA</u> 16%

26. What technical facilities that you want are missing from the classrooms you use?

Resource	N	%
Computer access	21	43.8
Multimedia	26	54.2
Personal help	0	0.0

27. UW currently maintains ten general-access multi-media classrooms (permanent computer at podium with projection capabilities), and two collaboratories (computer at each student seat). Have you used these classrooms?

	Have you used these classrooms?		If you <u>haven't used</u> them, would you like to?		If you <u>have used</u> them, did you have technical problems? (describe)	
	Yes	% Yes	No	Yes	No	Yes
a) multi-media classrooms	34	25.6	17 (43.6)	22 (56.4)	17 (56.7)	13 (43.3)
b) collaboratories	33	30.6	23 (52.3)	21 (47.7)	13 (36.1)	23 (63.9)

28. What size classrooms function well as multimedia classrooms? (Percent checking each option)

Small (<30): 63.7%      Intermediate (30-80): 52.7%      Large (80-200): 30.1%      Very large (200+): 19.2%