Planning and Implementing Ubiquitous Computing at Wake Forest University

Southeast SCUP Conference
Raleigh, North Carolina
November 12, 1999

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www.wfu.edu/Administrative-offices/Institutional-Research/
### Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Enrollment (HC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>3850</td>
</tr>
<tr>
<td>Graduate</td>
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<tr>
<td>Law</td>
<td>472</td>
</tr>
<tr>
<td>MBA</td>
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<tr>
<td>Divinity</td>
<td>28</td>
</tr>
<tr>
<td>Medicine</td>
<td>441</td>
</tr>
<tr>
<td>Allied Health</td>
<td>133</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6147</strong></td>
</tr>
</tbody>
</table>
Major Elements of the Strategic Plan

• IBM laptop computers provided to all entering freshmen and faculty effective with the fall semester 1996

• A new first-year seminar, ensuring each freshman an in-depth intellectual encounter effective with the fall semester 1996
Major Elements of the Strategic Plan

(continued)

• 40 new tenure-track faculty members representing a 15 percent increase

• Scholarships for 175 students to study abroad

• Fellowships for 150 students to perform joint research with faculty members
The Computing Initiative

- IBM laptop computers provided to all entering freshmen and faculty
- Standing Faculty Committee on Information Technology formed
- Entire campus wired
- Created new position of Academic Computing Specialist (ACS)
The Computing Initiative (continued)

- Information Systems Support Center (ISSC) revamped
- Student and faculty training provided by library
- Computer-Enhanced Learning Initiative (CELI) formed by faculty
- Student Technology AdvisorS (STARS) created
Changes by Students and Faculty
College Student Experiences Questionnaire (CSEQ)

• The survey directed by George Kuh of the University of Indiana was administered to a random sample of one-half of the rising sophomores, juniors and seniors in March of 1996, 1997 and 1998.

• The main purpose of the survey is to determine the activities of students with respect to how they spend their time.
CSEQ Results
Mean Scores Significantly Higher: 1997 vs. 1996

- Use of computers
- Courses use computers
- Computer skill
- Computer training
- Discuss computers

- Research: card catalogue & computer
- Developed references (bibliography)
- Presented/published research off campus
- Classes integrate service to others
CSEQ Results
Mean Scores Significantly Higher: 1997 vs. 1996 (continued)

- Participated in class discussions
- Positive relationships with faculty
- Positive relationships with administration
- Developed esthetic, expressive, creative qualities
- Vote in student election
- Play games in Student Union
CSEQ Results
Mean Scores Significantly Lower: 1997 vs. 1996

- Research: dictionary and thesaurus
- Made outlines from notes
- Summarized points in reading or notes
- Thought about grammar while writing
- Wrote/revised paper

- Referred to knowledge from reading
- Referred to comments by professor
- Electing course about understanding behavior
- Acquiring background for further education
CSEQ Results
Mean Scores Significantly Lower: 1997 vs. 1996 (continued)

- Gaining broad general education
- Gaining information relevant to career
- Discuss music with other students
- Conversations about economy
- Explained reactions to friend
- Participate in volunteer activities
- Saw play, ballet or theater performance
- Saw film or other event at student union
- Attend student group event
In-house Faculty Survey

• The Faculty Survey was developed by the evaluation committee to assess the effectiveness of all portions of the Wake Forest strategic plan.

• The survey was administered to the undergraduate faculty in December 1995 and February 1998.
Faculty Survey Results
Mean Scores Significantly Higher: 1998 vs. 1995

- Computers in teaching
- Computers in communication
- Computers in individual instruction
- Computers for presentations
- Computers with information gathering
- Computers for modeling/simulation
- Computer skill
- Computer training & assistance
Faculty Survey Results

Mean Scores Significantly Higher: 1998 vs. 1995 (continued)

- Students proficient with computers
- Technology changed effectiveness of teaching
- Effect of computers on communication
- Effect of computers on resource material
- Effect of computers on presentations
- Use of technology in teaching
Faculty Survey Results
Mean Scores Significantly Higher: 1998 vs. 1995 (continued)

- Intellectual climate among students
- Religious development of students
- Prepare students for graduate/advanced education

- Prepare students for employment after college
- End of course student evaluations
- Enroll more graduate students
Faculty Survey Results
Mean Scores Significantly Lower: 1998 vs. 1995

- Number of papers or compositions published since previous fall
- Number of professional meetings attended since previous fall
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