Promoting Faculty Adoption of Technology

Beth Boyd
Instructional Technology Consultant
Religion, Women’s Studies, & Health & Exercise Science

Steven Wicker
Instructional Technology Consultant
Mathematics, Computer Science, & Military Science

Wake Forest University

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Plan for the Class of 2000

- Emphasis on small class size
  - 40 new faculty positions
  - First Year Seminars

- Technology Initiative
# First Year Seminars

<table>
<thead>
<tr>
<th>Art</th>
<th>Sacred Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Structure and Symmetry in Nature and Design</td>
</tr>
<tr>
<td>Education</td>
<td>Race, Class, and Gender in a Color Blind Society</td>
</tr>
<tr>
<td>Humanities</td>
<td>Homosexuality: History, Culture, and Religion</td>
</tr>
<tr>
<td>Physics</td>
<td>Understanding Stuff</td>
</tr>
<tr>
<td>Theatre &amp; Sociology</td>
<td>The American Family: Explorations In theatre and Sociology</td>
</tr>
</tbody>
</table>
Technology Initiative

- **ThinkPads**
  - Why Laptops?
  - Portability, Portability, Portability!

- **Enhancement of the campus network**
  - Dorms, classrooms, work areas wired
  - Wireless

- **New technical staff**
  - Additions to IS staff
  - Technical staff outside of IS
Academic Computing Specialists

- Assigned to “blocks” of academic departments
- Report to Dean and Department Chairs
- Technical ability AND area specific degrees
- 10 hired originally
- Not centralized
- No “career path”
Academic Computing Specialist
Instructional Technology Specialist
Consultant Analyst
STARS
Student Technology Advisors

- Students that work 1 on 1 with faculty
- Incorporate technology into the curriculum
- Assigned to a long term project
- 10 to 15 hours per week
- Can be trained on a specific technology
- PowerPoint to Java apps
STARS
Sample Project

Women's Studies Mentor Program

The Wake Forest Women's Studies Program now has a program designed to pair up Wake Forest female students with Wake Forest female graduates as part of a mentoring relationship. Current female students are encouraged to use the webpages linked to this one to search for a mentor.

Additional links of interest are:
Leah Williamson's Book List on Women & Mentoring
&
Leah Williamson's Mentoring Website List

Click on the link below to go to the mentor search pages. You can search our database of mentors using a variety of different categories, including:

- City
- Occupation
- Undergraduate Graduation Class
- Undergraduate Major
- Graduate Field
- State
- Career Interest
- Undergraduate Major
- Graduate School
- Graduate Degree

You can create a search based on one or more of these categories. You can also specify whether you want to search for mentors matching every one of the characteristics you choose (select 'AND') or mentors matching at least one of the characteristics (select 'OR'). It is best to search on three or fewer
The Half-Adder

A circuit can now be constructed to generate the sum and carry bit by combining and, or, and not gates.
Computer-Enhanced Learning Initiative—CELI

- Anonymous grant beginning Fall, 1997
- To encourage faculty development of effective uses of computers in instruction
- Release Time Grants
  - Attend luncheon meetings
  - Present at Tech Fair
  - Written report to Dean
## CELI
### Sample projects

<table>
<thead>
<tr>
<th>History</th>
<th>An Electronic History of Wake Forest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre</td>
<td>Computer Scenographics Studio for computer-assisted set design</td>
</tr>
<tr>
<td>Physics</td>
<td>On-line Physics Lab demo videos</td>
</tr>
<tr>
<td>Computer Science &amp; English</td>
<td>Intelligent Writing Tutor</td>
</tr>
</tbody>
</table>
Culpeper Foundation Grant

- A three year grant from the Charles E. Culpeper Foundation
- Summer program to promote use of technology in teaching
- 12 participants per summer
Culpeper Foundation Grant

- Participants received:
  - $2,900 stipends to pursue independent projects
  - $1,200 for software or computer accessories
  - Assistance from Instructional Technologist and Advanced Technology Group

- Requirements of Participants
  - Written report to Dean
  - Poster session at Tech Fair
## Culpeper Foundation Grant
### Sample projects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion</td>
<td>Development of database of digitized 35 mm slides from archeological excavations in Israel</td>
</tr>
<tr>
<td>Religion</td>
<td>Use of voice-recognition software</td>
</tr>
<tr>
<td>Computer Science</td>
<td>On-line tutorial for Unix in Director</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Incorporation of small robots into Artificial Intelligence class</td>
</tr>
</tbody>
</table>
Final Thoughts

Best Practices

● Communication
  ◦ Between IS staff and Instructional Technologists
    ▪ Quarterly face to face meetings
    ▪ Email & Topical Listserv

● Coordination
  ◦ Among Instructional Technologist
    ▪ Daily listserv email; meetings as needed
  ◦ Interdepartmental

● Continuity
  ◦ On-going communication of services between Instructional Technologists and Faculty
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Beth Boyd
Instructional Technology Consultant
Religion, Women’s Studies, & Health & Exercise Science
boydmbet@wfu.edu
www.wfu.edu/~boydmbet

Steven Wicker
Instructional Technology Consultant
Mathematics, Computer Science, & Military Science
wickersg@wfu.edu
www.wfu.edu/~wickersg

Additional information available at:
www.wfu.edu/~wickersg/educause2002/