

# Course Preparation for Online Learning: What Faculty Should Know

11/20/2002

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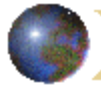
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# *Course Preparation for Online Learning: What Faculty Should Know*

**Presented by:**

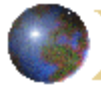
**Barbara McKenzie, Nancy Mims, Elizabeth Bennett**  
*University of West Georgia*

**Michael Waugh**  
*University of Tennessee*

*SITE Conference – Nashville, TN. – March 19, 2002*

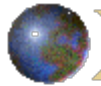
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## *Purpose of the Research*

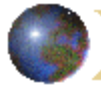
- **To determine selected perceptions of higher education instructors in Georgia who are engaged in distance education/on-line (DE/OL) teaching & learning efforts**
  - **Practices**
  - **Problems**
  - **Solutions**



## *Two Year Study*

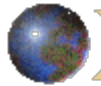


- **1<sup>st</sup> year – Pilot study (2000)**
  - **State University of West Georgia**
    - *All faculty surveyed 1999 - 2000*
- **2<sup>nd</sup> year – Extended study (2001)**
  - **Selected universities in Georgia who utilize distance technologies**
    - *Volunteer participants electronically surveyed 2000-2001*



## *Background*

- **Distributed learning is challenging**
  - **Different from F2F format**
- **Faculty play a key role in its success**
- **A number of factors influence faculty choice**
  - **Personal vs. ordered**
  - **Incentives/ values towards distance tech**
  - **Success with students/ instructors**



## ***DL Incentives in the Literature***



- **Flexible working conditions**
- **Reaching students at a distance**
- **Worldwide audience**
- **Fun**
- **Enhancement of technology skills**
- **Increased job satisfaction**



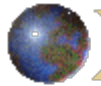


## *Barriers to DL Instruction*

- **Decreased interaction with students**
- **Increased work time/ lack of time to prepare for classes**
- **Lack of support & assistance with courses**
- **Time consuming to learn technology skills**
- **Inadequate compensation**





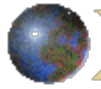


## *Population Surveyed*



- **Legitimate sample of DE/OL “pioneers” in Georgia**
  - All faculty at UWG using Web CT
  - Faculty in GA. who participate in a Web CT listserv
  - Faculty in the middle GA. geographic region who participate in a listserv moderated at GCSU
  - Other GA faculty -- contacted by peers
- **Knowledge/perceptions based upon experience**
- **Collectively taught approximately 300 courses via DE/OL**

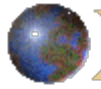




## *Instrument for 2<sup>nd</sup> Study*



- **Survey modified from 2001 instrument**
  - Put into an electronic format
  - Additional demographic & distance questions added
- **Open & closed-ended questions**
- **Online pilot testing**
  - Three distance experts
- **Revised before distribution**

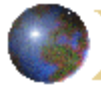


## *Factors Explored*

- **Background of DE instructors**



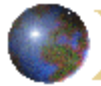
- **Where employed?**
- **Department?**
- **Rank?**
- **Gender?**
- **Years taught in higher education?**
- **Hours of training in distance?**
- **# of courses taught via distance technologies?**



## *Factors Explored*

- **Technologies used for distance teaching?**
- **Training received?**
- **Experience in teaching courses both F2F & through distance technologies?**
- **Teaching format preferred?**
- **Optimal class size?**
- **Importance of f2f meetings?**
- **Assistance needed to be effective in teaching with technology?**

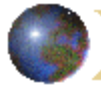




## *Data Collection & Analysis*



- **Online Surveys**
  - Sent to UWG faculty - April 2000
  - Sent to two listservs that linked WebCT & distance users around the state – May 2000
- **Reminders sent after 2 weeks**
- **SPSS/ closed-ended questions**
- **Content analysis/open-ended questions**



## *Sample Population*

*(19 institutions; 66 participants)*



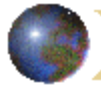
- University of West Georgia (12)
- Southern Polytechnic State University (8)
- Georgia Perimeter (7)
- Valdosta State University (7)
- Medical College of Georgia (5)
- Georgia College and State University (4)
- Floyd College (4)
- Middle Georgia College (3)
- Albany State University (2)



## *Sample Population*

- Armstrong Atlantic (3)
- Georgia College (2)
- Georgia Southwestern (2)
- Georgia State University (1)
- Darton College (1)
- Waycross (1)
- Bainbridge (1)
- South Georgia (1)
- Kennesaw (1)
- Coastal Georgia Community College (1)



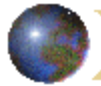


## *Sample constraints*

- Not random
- Not constructed
- Self-selected!
- Representative ???
  - **Uncertain**







## *Who responded?*

- **Gender**
  - **Female (n=32)/ Male (n=32)**
  - **Not reported (n=2)**
- **Ranks**
  - **Professor (n=17)**
  - **Associate Prof. (n=17)**
  - **Assistant Prof. (n=23)**
  - **Instructor (n=5)**
  - **Adjunct (n=4)**





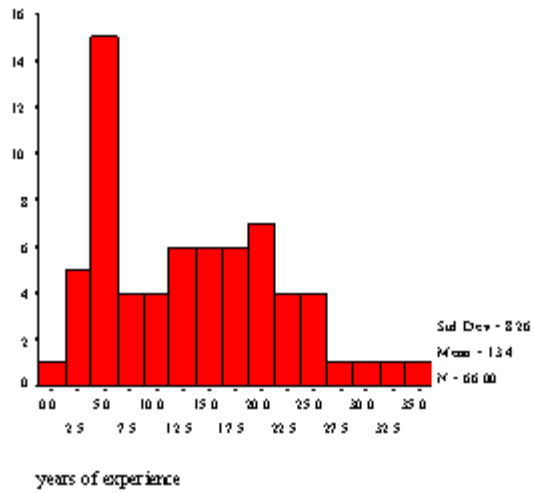
## *Who responded? - Field*

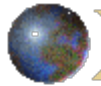


- **Health, Nursing and Medical (n=19, 29%)**
- **Language, Social Science and Humanities (n=15, 23%)**
- **Education (n=12, 18%)**
- **Math and Science (n=9, 14%)**
- **Business (n=7, 11%)**
- **Engineering (n=4, 6%)**



## Who responded? - Years of Experience





## *Why motivated to begin using distance technologies?*



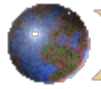
- **Students & technology (involvement with tech.) = 39**
- > **Quality of course = 36**
- **Meet student needs at a distance = 35**
- **Student demand for distance = 32**
- **Flexibility in working cond. = 27**
- > **Interaction with students = 20**
- **It was required = 17**



## *Training Received – Prior to Teaching*



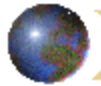
- No training (n=15, 23%)
- **1-5 hours (n=19, 29%)**
- 6-10 hours (n=13, 20%)
- 11-15 hours (n=2, 3%)
- 16-20 hours (n=4, 6%)
- 20+ hours (n=13, 20%)



## # of courses taught using DE/OL tech

- **Classes taught:**
  - 14 faculty = 1 class, 15 fac. = 2 classes,
  - 5 fac. = 3 classes, 4 fac. = 4 classes,
  - 5 fac. = 5 classes, 6 fac. = 6 classes,
  - 2 fac. = 7 classes, 8 fac. = 2 classes,
  - 1 fac. = 10 classes ,
  - 11 fac. = > 10 classes, 1 fac. = no resp.
- **Bimodal**
- **Approx. 45%**
  - taught 1 or 2 courses
- **Approx. 20%**
  - taught 10 or more courses





## *What is DE/OL?*

- Respondents offered similar definitions
- These definitions included the following concepts:
  - use of electronic media (GSAMS, Internet, others) for conducting much or all of a course;
  - teachers/learners separated by time and/or space,
  - interactions synchronous and asynchronous





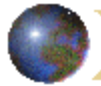
## *What electronic tools are used?*

*(check all that apply)*

- **WebCT, GSAMS, Web Course-in-a-Box, TopClass, Blackboard, Lotus Notes**
- **Others...**
  - **html-coded materials**
  - **Internet e-mail, private e-mail**
  - **Bulletin boards, conferencing systems,**
  - **Internet newsgroups, MUD or MOO environments,**
  - **Listservs, web-based course calendar, chat rooms**

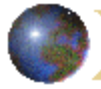




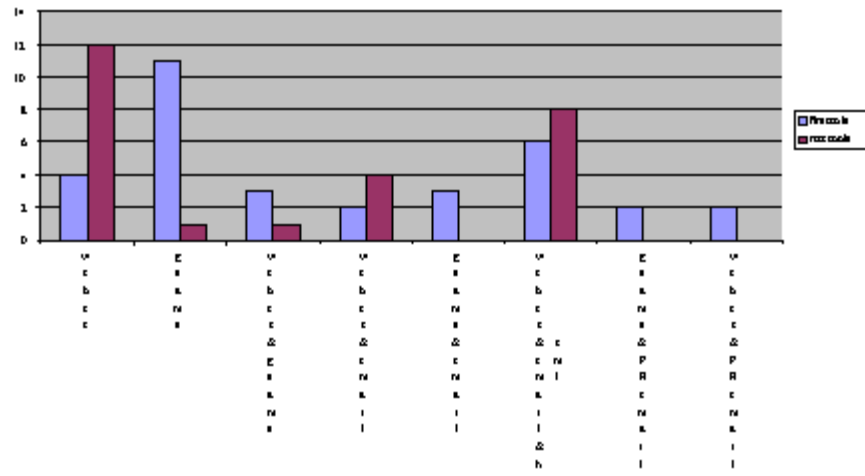


## *What electronic tools are used?*

- **First time with a DE/OL course**
  - **41 unique combinations of electronic tools reported**
- **Most Recent time with DE/OL course**
  - **36 unique combinations of electronic tools reported**

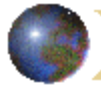


Change in Reported Electronic Book Usage  
from first course taught to most recent course taught



Comparison of Electronic Texts  
from first course taught to most recent course taught

Navigation icons: back, forward, search, and other controls.



## *Taught same course F2F & DL*

- **86% of sample taught the identical course in both instructional environments.**
- **Preferences**
  - **53% prefer a mix of both.**
  - **22% prefer F2F**
  - **15% prefer neither one**
  - **10 % prefer DE/OL.**

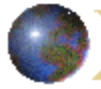


## *Which Medium Requires Most Time Involvement*

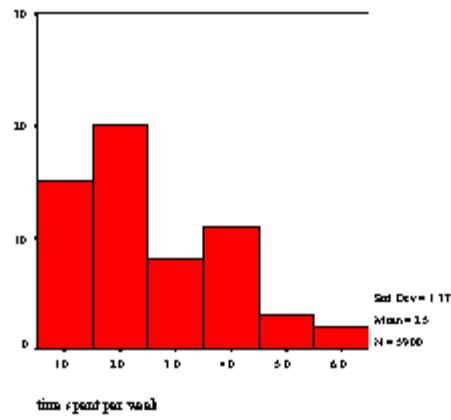
Total Sample...

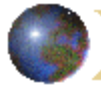
- **DE/OL -- 89%**
- F2F -- 2%
- Both (equally time cons  
-- 9%





## *Average additional time per week*

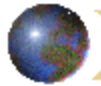




## *How much more time preparing for entire distance course?*

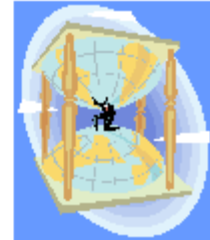
- 1-3 hrs. = 15
- **4-6 hrs. = 20**
- 7-9 hrs. = 8
- 10-12 hrs. = 11
- 13-15 hrs.
- 16 or > hrs. = 2
- **More clarification needed next study**

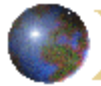




## *Average additional time per course*

- N = 39 responses
- Mean = **59.47 hours per course**
- s. d. = 56.49 hours per course
- **MANY hours but highly variable across instructors**



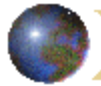


## *Value of F2F aspect of DE/OL*

- **81%** report that F2F is a valuable component of their DE/OL classes.
- **19%** report the F2F IS NOT a valuable component of their DE/OL classes.







## *Which format yields the greatest return on instructor investment?*

- **F2F (n=23, 38%)**
- **Electronically-mediated teaching (n=15, 25%)**
- **A mix of the above two (n=5, 8%)**
- **Depends on the course (n=4, 7%)**
- **Both are equal (n=3, 5%)**
- **Depends on the students (n=9, 15%)**
- **Depends on the course and students (n=2, 3%)**



## *Optimal DE/OL class size?*

- **N = 53 responses**
- **Mean (ideal class size) = 19.8 students**
- **Range = 43**
- **Standard Deviation = 7.7**
- **Approximately 12-28 depending on the level of students, course and interaction desired/required.**

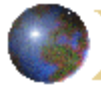


## *Plans to continue DE/OL*



- **86% report plans to continue teaching using DE/OL technologies.**
- **6% report plans NOT to continue teaching using DE/OL technologies.**
- **8% were uncertain.**

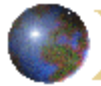




## *How can your campus help? - 1*

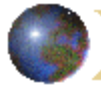
- **Plan and then institute programs, not vice versa.**
- **Continue support for effort**
- **More support, release time**
- **More tech support; new technologies**
- **Reduce class sizes**
- **Stop insisting on specific technologies (WebCT)**
- **Address materials ownership issues**
- **Recognize effort required; factor in to teaching load**





## *How can your campus help? - 2*

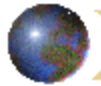
- **Provide more training**
- **Require students to take intro. computer class**
- **Recognize student variables related to electronic formats**
- **Acknowledge efforts in terms of P&T, prof. effort**
- **Student assistant help**
- **Stress development of hybrid classes (not 100% DL)**
- **Eliminate institutional control**



## *Lessons Learned*

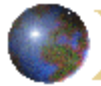
- **DE/OL (instruction mediated through one or more forms of technology) can provide a rich (richer?) instructional experience**
  - **a cost associated with this gain**
    - If > inter action with students > time involvement for instructor





## *Lessons Learned*

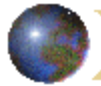
- **F2F interactions** with students are highly **valued**.
- **When possible, use mixed instructional models**
  - **(partially F2F and partially DE/OL).**
- **The necessity of F2F is unclear but its value may far outweigh its inconvenience/expense.**



## *Conclusion*

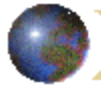
- **Reduce class sizes** in DE/OL (to enable greater interaction with the instructor)
- Factor increased instructor effort into **workload** and personnel policies
- **Increase support** for faculty engaged in this effort,
  - (ie., TAs, technical support, development support)
- OR, expect DE/OL efforts to be less interactive; potentially less successful





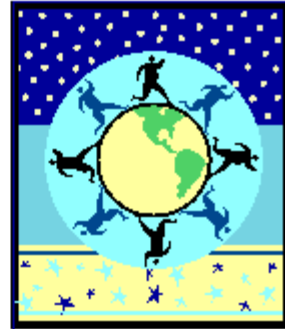
## *Conclusion*

- **Use appropriate media** for appropriate aspects of the instruction.
- **Arranging for physical meetings may be awkward when students reside a considerable distance from the instructor**
  - **such meetings may be critical to the success of the instruction.**



## *Future Research*

- **Extend the study to other states to enlarge the data base and exploratory findings**
- **Contact information**
  - [bmckenzi@westga.edu](mailto:bmckenzi@westga.edu)
  - [waugh@tennessee.edu](mailto:waugh@tennessee.edu)
  - [nmims@westga.edu](mailto:nmims@westga.edu)
  - [ebennett@westga.edu](mailto:ebennett@westga.edu)



# **Course Preparation for Online Learning: What Faculty Should Know**

**Presented by:**

**Barbara McKenzie, Nancy Mims, Elizabeth Bennett**

**University of West Georgia**

**Michael Waugh**

**University of Tennessee**

**SITE Conference – Nashville, TN. – March 19, 2002**

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# Purpose of the Research

- **To determine selected perceptions of higher education instructors in Georgia who are engaged in distance education/on-line (DE/OL) teaching & learning efforts**

- Practices
- Problems
- Solutions

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# Two Year Study

- **1st year – Pilot study (2000)**

- State University of West Georgia
  - All faculty surveyed 1999 - 2000

- **2nd year – Extended study (2001)**

- Selected universities in Georgia who utilize distance technologies
  - Volunteer participants electronically surveyed 2000-2001

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# Background

- **Distributed learning is challenging**
  - Different from F2F format
- **Faculty play a key role in its success**
- **A number of factors influence faculty choice**
  - Personal vs. ordered
  - Incentives/ values towards distance tech
  - Success with students/ instructors

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# DL Incentives in the Literature

- **Flexible working conditions**
- **Reaching students at a distance**
- **Worldwide audience**
- **Fun**
- **Enhancement of technology skills**
- **Increased job satisfaction**

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# Barriers to DL Instruction

- **Decreased interaction with students**
- **Increased work time/ lack of time to prepare for classes**
- **Lack of support & assistance with courses**
- **Time consuming to learn technology skills**
- **Inadequate compensation**

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# Population Surveyed

- **Legitimate sample of DE/OL**

- **“pioneers” in Georgia**

- All faculty at UWG using WebCT
- Faculty in GA. who participate in a WebCT listserv
- Faculty in the middle GA. geographic region who participate in a listserv moderated at GCSU
- Other GA faculty -- contacted by peers

- **Knowledge/perceptions based upon experience**

- **Collectively taught approximately 300 courses via DE/OL**

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# Instrument for 2nd Study

- **Survey modified from 2001 instrument**
  - Put into an electronic format
  - Additional demographic & distance questions added
- **Open & closed-ended questions**
- **Online pilot testing**
  - Three distance experts
- **Revised before distribution**

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# Factors Explored

## • Background of DE instructors

- Where employed?
- Department?
- Rank?
- Gender?
- Years taught in higher education?
- Hours of training in distance?
- # of courses taught via distance technologies?

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- **Assistance needed to be effective in teaching with technology?**

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# Data Collection & Analysis

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- Sent to UWG faculty - April 2000
- Sent to two listservs that linked WebCT & distance users around the state – May 2000

- **Reminders sent after 2 weeks**

- **SPSS/ closed-ended questions**

- **Content analysis/open-ended questions**

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# **Sample Population (19 institutions; 66 participants)**

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- Georgia Perimeter (7)**
- Valdosta State University (7)**
- Medical College of Georgia (5)**
- Georgia College and State University (4)**
- Floyd College (4)**
- Middle Georgia College (3)**
- Albany State University (2)**
- 

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# Sample Population

- **Armstrong Atlantic (3)**
- **Georgia College (2)**
- **Georgia Southwestern (2)**
- **Georgia State University (1)**
- **Darton College (1)**
- **Waycross (1)**
- **Bainbridge (1)**
- **South Georgia (1)**
- **Kennesaw (1)**
- **Coastal Georgia Community College (1)**

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# Sample constraints

- **Not random**
- **Not constructed**
- **Self-selected!**
- **Representative ???**
  - Uncertain

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# Who responded?

## • Gender

- Female (n=32)/ Male (n=32)
- Not reported (n=2)

## • Ranks

- Professor (n=17)
- Associate Prof. (n=17)
- Assistant Prof. (n=23)
- Instructor (n=5)
- Adjunct (n=4)

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# Who responded? - Field

- **Health, Nursing and Medical (n=19, 29%)**
- **Language, Social Science and Humanities (n=15, 23%)**
- **Education (n=12, 18%)**
- **Math and Science (n=9, 14%) Business (n=7, 11%)**
- **Engineering (n=4, 6%)**

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# Who responded? - Years of Experience

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# Why motivated to begin using distance technologies?

- **Students & technology (>involvement with tech.) = 39**
- **> Quality of course = 36**
- **Meet student needs at a distance = 35**
- **Student demand for distance = 32**
- **Flexibility in working cond. = 27**
- **> Interaction with students = 20**
- **It was required = 17**
- 
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# Training Received – Prior to Teaching

- **No training (n=15, 23%)**
- **1-5 hours (n=19, 29%)**
- **6-10 hours (n=13, 20%)**
- **11-15 hours (n=2, 3%)**
- **16-20 hours (n=4, 6%)**
- **20+ hours (n=13, 20%)**

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# # of courses taught using DE/OL tech

- **Classes taught:**

- 14 faculty = 1 class, 15 fac. = 2 classes,
- 5 fac. = 3 classes, 4 fac. = 4 classes,
- 5 fac. = 5 classes, 6 fac. = 6 classes,
- 2 fac. = 7 classes, 8 fac. = 2 classes,
- 1 fac. = 10 classes ,
- 11 fac. = > 10 classes, 1 fac. = no resp.

- **Bimodal**

- **Approx. 45%**

- taught 1 or 2 courses

- **Approx. 20%**

- taught 10 or more courses

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# What is DE/OL?

- **Respondents offered similar definitions**
- **These definitions included the following concepts:**
  - use of electronic media (GSAMS, Internet, others) for conducting much or all of a course;
  - teachers/learners separated by time and/or space,
  - interactions synchronous and asynchronous

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# What electronic tools are used?(check all that apply)

- **WebCT, GSAMS, Web Course-in-a-Box, TopClass, Blackboard, Lotus Notes**
- **Others...**
  - html-coded materials
  - Internet e-mail, private e-mail
  - Bulletin boards, conferencing systems,
  - Internet newsgroups, MUD or MOO environments,
  - Listservs, web-based course calendar, chat rooms

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# What electronic tools are used?

- **First time with a DE/OL course**

- 41 unique combinations of electronic tools reported

- **Most Recent time with DE/OL course**

- 36 unique combinations of electronic tools reported

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# Taught same course F2F & DL

- **86% of sample taught the identical course in both instructional environments.**

- **Preferences**

- 53% prefer a mix of both.
- 22% prefer F2F
- 15% prefer neither one
- 10 % prefer DE/OL.

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# Which Medium Requires Most Time Involvement

**Total Sample...**

- . DE/OL -- 89%**
- . F2F -- 2%**
- . Both (equally time consuming) -- 9%**

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# Average additional time per week

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# How much more time preparing for entire distance course?

- 1-3 hrs. = 15
- 4-6 hrs. = 20
- 7-9 hrs. = 8
- 10-12 hrs. = 11
- 13-15 hrs.
- 16 or > hrs. = 2
- More clarification needed next study

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# Average additional time per course

- **N = 39** responses
- **Mean = 59.47** hours per course
- **s. d. = 56.49** hours per course
- **MANY** hours but highly variable across instructors

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# Value of F2F aspect of DE/OL

- **81% report that F2F is a valuable component of their DE/OL classes.**
- **19% report the F2F IS NOT a valuable component of their DE/OL classes.**

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# Which format yields the greatest return on instructor investment?

- **F2F (n=23, 38%)**
- **Electronically-mediated teaching (n=15, 25%)**
- **A mix of the above two (n=5, 8%)**
- **Depends on the course (n=4, 7%)**
- **Both are equal (n=3, 5%)**
- **Depends on the students (n=9, 15%)**
- **Depends on the course and students (n=2, 3%)**

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# Optimal DE/OL class size?

- **N = 53 responses**
- **Mean (ideal class size) = 19.8 students**
- **Range = 43**
- **Standard Deviation = 7.7**
- **Approximately 12-28 depending on the level of students, course and interaction desired/required.**

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## Plans to continue DE/OL

- **86%** report plans to continue teaching using DE/OL technologies.
- **6%** report plans **NOT** to continue teaching using DE/OL technologies.
- **8%** were uncertain.

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# How can your campus help? - 1

- **Plan and then institute programs, not vice versa.**
- **Continue support for effort**
- **More support, release time**
- **More tech support; new technologies**
- **Reduce class sizes**
- **Stop insisting on specific technologies (WebCT)**
- **Address materials ownership issues**
- **Recognize effort required; factor in to teaching load**

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## **How can your campus help? - 2**

- . Provide more training**
- . Require students to take intro. computer class**
- . Recognize student variables related to electronic formats**
- . Acknowledge efforts in terms of P&T, prof. effort**
- . Student assistant help**
- . Stress development of hybrid classes (not 100% DL)**
- . Eliminate institutional control**

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# Lessons Learned

- **DE/OL (instruction mediated through one or more forms of technology) can provide a rich (richer?) instructional experience**
  - a cost associated with this gain
    - If > interaction with students > time involvement for instructor
    -

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# Lessons Learned

- **F2F interactions with students are highly valued.**
- **When possible, use mixed instructional models**
  - (partially F2F and partially DE/OL).
- **The necessity of F2F is unclear but its value may far outweigh its inconvenience/expense.**

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# Conclusion

- **Reduce class sizes in DE/OL (to enable greater interaction with the instructor)**
- **Factor increased instructor effort into workload and personnel policies**
- **Increase support for faculty engaged in this effort,**
  - (ie., TAs, technical support, development support)
- **OR, expect DE/OL efforts to be less interactive; potentially less successful**

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# Conclusion

- **Use appropriate media for appropriate aspects of the instruction.**
- **Arranging for physical meetings may be awkward when students reside a considerable distance from the instructor**
  - such meetings may be critical to the success of the instruction.

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# Future Research

- **Extend the study to other states to enlarge the data base and exploratory findings**
- **Contact information**
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