

Embry-Riddle Aeronautical University

From the Selected Works of John Griffith

October 14, 2014

What Our Faculty and Students Are Telling Us

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**WHAT OUR FACULTY AND STUDENTS ARE
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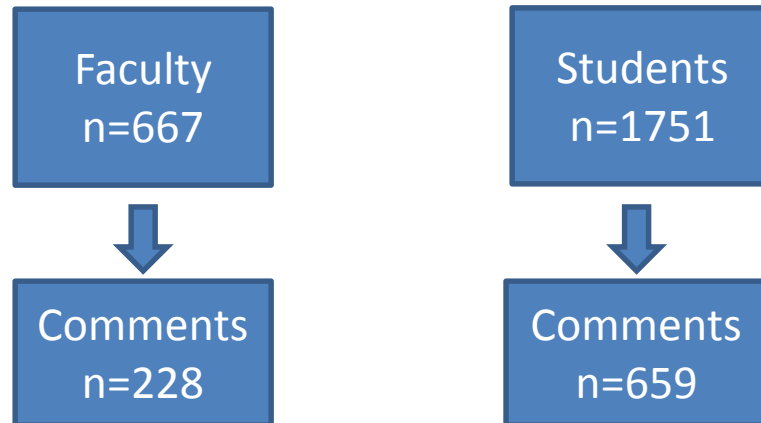


- Introduction
- Literature
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- Findings
- Conclusions
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- References



Faculty and Student Perceptions

- learning mode preference
- Instructor competence
- Impact of VA tuition reimbursement policy

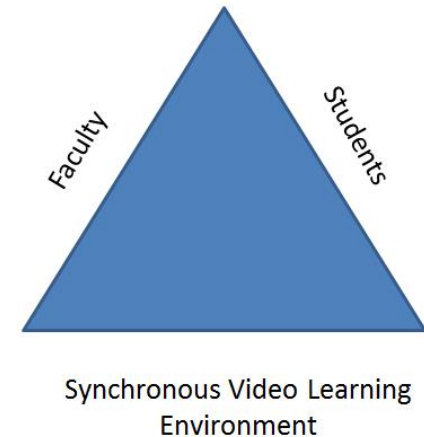


- QSR NVivo 10 used to identify trends



Literature

- Social presence
- Learning environment
- Resistance to change
- Research on equivalency of learning modes
- Previous ERAU Research
 - Dunn (2013)
 - Griffith & Schultz (2014)





Previous ERAU Research

- Dunn (2013) n=1,398
- Preference order
 - Classroom
 - Online
 - Synchronous Video Learning
- Student satisfaction
 - “No significant relationship between learning mode and quality of instruction ($p=.695$) or course content ($p=.9998$).



2014 ERAU Quantitative Study (n=2,400)

- Classroom, Online, EV-H, EV-C ($p=.000$)
- For those with EV Experience, EV-H was second, online was third ($F\ p=.0007$, $S\ p=.000$)
- Faculty and students believed instructors were technically competent ($p=.000$)

(Griffith & Schultz, 2014)



2014 ERAU Quantitative Study (n=2,400)

- EV-H more effective than EV-C (F $p=.0001$, S $p=.000$)
- Use of blended was effective ($p=0.000$)
- VA students would choose EV-C over EV-H due to increased VA benefits
 - (Undergraduate $p=.0358$, Graduate $p=.0001$)

(Griffith & Schultz, 2014)



Methodology

- Cross sectional, descriptive research model
 - Confidential survey Nov 2013 – Jan 2014
 - Distributed using E-mail/Survey Monkey
- Treatment of Data
 - NVivo 10
 - Let themes emerge



Faculty

Prefer Face to Face – Traditional classroom

- Interaction
- Education quality

“F2F offers the live interaction that is lost over other modalities.”



Faculty

EV Equipment and Software

- Internet speed
- Disruptions to classes

“When EV is running well, education booms ahead. When there's 'technical difficulties,' [sic] everything grinds to a halt.”



Faculty

Expand EV Home

- Interaction
- Social presence
- Flexibility

“F2F offers the live interaction that is lost over other modalities.”



Faculty

EV Classroom Issues

- Interaction issues
- Small picture of remote classrooms
- VA funding?

“EV classroom makes it hard to get one on one with (remote) students.”

“If it were not for the VA student in search of a housing stipend, EV/C would not exist.”



Faculty

Prefer Blended – Variety of Modalities

- 4 hours and 45 minutes
- New skills to collaborate and learn
- Applications to the workplace

“All classes should utilize online content to some extent.”

"Blended EVH seems to be a winner..."



Faculty

Mode Dependent on Student/Subject

“The further away from the classroom the method of teaching becomes, the more dedicated and mature the student must be to match the learning level of equivalent lecture students and the more effort an instructor must provide to ensure the students are grasping the material and are benefiting from the delivery method.”



Faculty

Online

- Flexibility
- Concerns about interaction

“If you consider students' personal needs for flexibility, geographic mobility, etc what is ‘best’ for that student may be online.”



Faculty Responses

Overall Summary

- Interaction is extremely important
- Technical issues noted with EV, none online
- Faculty use different skills for different modes
- 228 compelled to comment in open response area

Findings: Student Responses (n=659)

Nodes

Name	Sources	References
EV - Sat	1	42
course	1	5
general	1	10
instructor	1	11
tech issues	1	7
time work	1	9
EV - Unsat	1	118
course	1	18
general	1	19
instructor	1	41
tech issues	1	34
time work	1	1
Other	1	269
challenge exams	1	2
classroom	1	93
course	0	0
instructor	0	0
miscellaneous	1	9
no comments	1	10
no experience EV	1	31

Nodes

Name	Sources	References
no experience with online	1	14
not sure what was asked	1	42
tech issues	0	0
term lengths	1	7
time work	0	0
VA benefits	1	61
Online - Sat	1	106
course	1	8
general	1	2
instructor	1	5
tech issues	0	0
time work	1	91
Online - Unsat	1	117
course	1	58
instructor	1	59
tech issues	0	0
time work	0	0





Student Responses

EVC & EVH

Dissatisfied

- Technical issues
- Ignoring of classroom

“I have to say that I think this method (EVC) ...is less effective ...a lot of classmates take the chance that the teacher is not watching to carry (engage in) side conversations...causing distractions. All 3 classes I had ended up having the same issues.”



Student Responses

EVC & EVH

Satisfied

- Interaction
- Flexibility

“EV home method of learning was very interesting and I wish I could take the rest of my classes this way.”



Student Responses

Online

Dissatisfied

- Workload
- Impersonal

“Online...overcompensates for not having you in the classroom by giving you assignments every week...makes the course more exhausting...instead of bombarding the student with papers and all sorts of assignments...provide more media...visual presentations.”



Student Responses

Online

Satisfied

- Flexibility
- Course Layout

“Online classes ...assist student in developing critical thinking skills and mastery of the subject matter. Forcing a student to critically analyze a topic using peer reviewed material helps with retention of material.”



Student Responses

Outliers

- F2F

“...I notice ERAU is moving away from this (classroom) but I am convinced it will diminish the overall quality of educational experience.”

- VA Benefits

“...In my area taking an online course cuts my REAL BENEFITS by over half. \$714.50 for online courses, \$2193 for Andrews AFB and \$1575 at Pax (sic) River.”



Student Responses

Overall Summary

- Strong feelings regarding modalities
- Technical issues – all EV, none online
- Disconnect between faculty and students
- 659 compelled to answer survey

“We have two ears and one mouth so that we can Listen twice as much as we speak.” -Epictetus



- Conclusions
 - Interaction is key to a good experience
 - EV-C courses should benefit from pilot project
 - Good Faculty Training, Strong faculty commitment to EV
 - Online courses – Flexibility but high workload
 - VA funded students select EV-C for higher reimbursement
 - ERAU-W – multiple awards, not typical setting



- Recommendations for Further Research
 - Continue to monitor faculty and student perceptions to determine “why”
 - Measure student performance and mode preferences as new technology allows for different types of distributed learning
 - Studies should include both quantitative and qualitative measures in assessing stakeholder perceptions



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Questions?

Acknowledgements

The authors would like to thank the 2013 ERAU research award committee, B/R Symposium committee, Dr. Jim Schultz, Dr. Ron Wakeham, MK Gorman, Jenni Heslop, Lorraine Dunn, Karen Doolittle, Sonja Griffith and all of the faculty and students who completed the survey.

