

30 Each of these groups may have totally different perspectives as to what contributes to student success.
31 The faculty member may have a different point of view than the undergraduate student who will have a
32 different perspective than a graduate student. Further- the instructional technologist may view the
33 teaching learning process from quite different point of view- perhaps a technological one- which should
34 also be respected.

35 **Brief Concerns Regarding Media-site and Online Instruction**

36 When instructors were first introduced to Media-site, some were misled into believing this
37 technology would replace the use of Instructional Television as a means for distance students to
38 be engaged in a live class. It was supposedly better **than Instructional Television** because the
39 students would not have to go to a central site or location to take the class but could be involved using
40 their home computers. **One of the authors quickly realized**, on **their** first night of a Media-site class, that
41 this was not going to work in a live class. Media-site typically runs from 30 seconds to two minutes
42 behind
43 real time, making two-way communication impossible. Often instructors would ask a question, wait for
44 an answer, hear none from distance students, continue with the lecture, and a minute later begin
45 hearing
46 answers to one's earlier question from other distant learning students. (Worse yet, one night a distance
47 student was watching the wrong class and her voice would periodically interrupt a certain class with
48 answers for questions the instructor had previously asked a week prior.)
49 These frustrating experiences led instructors to explore, examine and attempt to discern how else
50 **faculty** could run a live class for distance students. Instructors today are almost in an ongoing attempt
51 to
52 provide quality education to their students using an often bulky, problematic, cumbersome system that
53 is not always "user friendly". Often instructors gravitate toward Collaborate, which is an interactive,
54 real-
55 time communication technology that can be used in conjunction with Media-site.
56 For many years, instructors ran classes with Media-site for showing films or projecting images using the
57 classroom ELMO and Collaborate for interactive communication. The problem, however, was that in
58 order to show a map, for example, on the ELMO, what the instructor was verbally saying and what the
59 distance education students were seeing, did not always align or combine. They could hear

60 explanations, but would not see where the instructor was pointing on the map for up to two
61 minutes. This lack of coordination was confusing at best. The alternative was to stop the Collaborate
62 class, move to Media-site, do my presentation, and after two minutes of silence in the live classroom,
63 transition back from Media-site to Collaborate for live discussion. This was inconvenient and a major
64 loss
65 of valuable instructional time.

66 Now, after several years of experience and familiarity with the existent technology, many have learned
67 not to rely on ELMO. Many faculty have made Power Points, Prezi out of nearly everything, and some
68 instructors primarily use Collaborate for all distance teaching. Some faculty do keep
69 Media-site in order that any student who misses class can view the recording of the class and not miss
70 important information.

71 One of the authors had three students live in the classroom, three students live over Collaborate, and
72 three students who would view the Media-site recording of the class later due to work
73 schedules or living in a vastly different time zone. This combination has worked well. The students who
74 only use Media-site, however, are deprived of participating in live discussion and interaction and
75 immediate feedback.

76 Certainly, faculty have been in a major transition and have been attempting to cope with unreliable
77 technology, glitches and various other technical snafus that do not contribute to superior learning and
78 academic integrity. These stories and anecdotes are simply to demonstrate faculty concerns about
79 academic integrity and the exasperation and frustration that instructors (and students) often feel and
80 experience when attempting to take online or media site classes.

81

82 **Literature review**

83 A brief review of the extant literature will be reviewed and then the construction of the survey will
84 be discussed.

85 Some early work was conducted by Yukselturk & Bulut (2007) as they examined various predictors for
86 student success in online Courses. Stevens (2013) examined the process and procedures that contribute
87 to a successful online class. Cheawjindakarn, Suwannatthachote, Anuchai, & Theeraroungchaisri,

88 (2012) reviewed the extant literature in their part of the world in terms of factors contributing to
89 success

90 in online classes. **There has been precious little empirical research conducted in this area.**

91 Volery and Lord (2000) examined what they perceived as the most critical success

92 factors in online education. Their work, published in the International Journal of Educational

93 Management was one of the initial examination in this realm.

94 **This section will examine the ten online learning success factors** are:

95 1. Online learners are required to be open-minded about life, work, and educational experiences as a
96 part of the training program. This means that they need to improvise when resources and facilities
97 similar to a physical learning environment are not provided. Adaptability is an amazing human trait.
98 When applied to the online learning environment, it yields amazing benefits.

99 2. Learners should be able to communicate effectively through writing. They need to try to “show” with
100 writing, instead of “telling”. Urge them to use descriptive words and where possible, insert images to
101 support their descriptions.

102 3. Online learners should also be self-motivated and self-disciplined. Essentially, they need to be self-
103 starters. They cannot afford to fall behind and expect the kind of help they received in school from their
104 educators.

105 4. Learners should be willing to speak up when problems arise or when conflicts are sensed in a
106 discussion. Holding back a decision point or an argument will only lead to dissatisfaction with the course.

107 5. Online learners need to be ready to commit anywhere between four and fifteen hours per week for a
108 course. The biggest challenge in an online learning environment is keeping up with the assigned
109 readings. Time needs to be allocated and reading materials must be downloaded beforehand. Then,
110 they can be read while in long lines, or during a commute, to take optimal advantage of “wasted” time.

111 6. Trainees also need to be able to think critically and take instant decisions as a part of the learning
112 process. Critical thinking triggers the transfer of concepts from short-term memory to long-term
113 memory. Reflective writing is a great critical thinking activity. Keeping a reflection journal allows learners
114 to “think aloud” their newly learned information. Connecting it with previous knowledge makes it
115 practical knowledge.

116 7. They should be able to meet the minimum requirements of the program. Have everyone check the
117 eLearning program prerequisite skills before signing up for a program. This will help them meet the
118 challenges in the upcoming courses.

119 8. They, of course, must have access to a computer, the Internet, and have at least a minimum ability to
120 use them. Again, they can look into “how-to” videos and instructions to improve their computer literacy.

121 9. Online learners should be able to come up with ideas before responding. Being impulsive and “firing
122 away” without thinking adds confusion to the group learning process. Composing ideas in writing and
123 editing them before sending to the group is a quality to seek and instill in learners.

124 10. Above all, online learners should strongly feel that high-quality learning is possible without going to
125 a face-to-face learning environment.

126 **Methods and Materials**

127 In order to preliminarily explore some of the relevant factors contributing to success a survey was
128 constructed and reviewed by the Human Subjects committee **and approved** and sent to faculty **via**
129 **electronic mail.** **The questions were based on the scant literature available and based on pre-research**
130 **discussions from the contributing authors. The questions were obviously different for students, faculty, (**
131 **some of which were graduate level and others undergraduate and different for instructional**
132 **technologists.**

133 **There were no specific research hypotheses in this brief exploratory study. The purpose of the study was**
134 **to attempt to glean some preliminary understanding of attributional factors involved in this process.**

135 Results of Qualtrics Survey

136 Permission was procured from the office of Institutional research to conduct the study and all
137 participants participated willingly.

138 Subjects:

139 Twenty three faculty (n=23) responded to the survey and four instructional technologists employed by
140 the university responded. There were 15 graduate students, and 31 undergraduate students. The
141 breakdown follows: Sophomores, N=5 Juniors N=13, Seniors, N= 13 The undergraduates (N=31)
142 graduate students (N=15) will be examined conjointly. Not all students responded to all questions.

143 **The questions differed for students (since they had to learn the material, were paying tuition, and were**
144 **being graded) faculty (since they were responsible for the dissemination of knowledge, skills and**
145 **abilities**
146 **via this methodology) and instructional technologists (since they were partly responsible for trouble**
147 **shooting glitches and other technological problems (students using browsers that were not compatible**
148 **with Blackboard for example)**

149 Questions asked of Instructional Technologists

150 1) As an Instructional Technologist (IT) what would you say is the MAIN factor contributing to student
151 success in an online/media site class?

152 2) As an IT, how important is it that students immediately read the syllabus at the beginning of the
153 course?

- 154 3) As an IT, how important is it to have a short succinct syllabus?
155 4) As an IT, how important is it to have a very comprehensive thorough syllabus?
156 5) As an IT How important is active participation to student success?
157 6) As an IT how important is student daily involvement?

158 Results of Survey:

159 It is important to bear in mind that there were only 4 instructional technologists, hence a small response
160 size.

161 In terms of question number 1- (above) the results were:

162 Student Retention- 1; Student Engagement in Discussion Board- 0; Time Management- 0

163 Clear Concise Syllabus- 1; Engaging Videos and Visuals- 1

164 In terms of question number 2—the results were:

165 VERY IMPORTANT=1; IMPORTANT=1, NEUTRAL=1, LEAST IMPORTANT=1

166 In terms of question number 3- the results were:

167 Very Important= 1; IMPORTANT =1; NEUTRAL = 1; LEAST IMPORTANT=1

168 In terms of question number 4:

169 The responses were: VERY IMPORTANT=0; IMPORTANT= 1; NEUTRAL = 3

170 In terms of question number 5:

171 VERY IMPORTANT =2; IMPORTANT= 0 NEUTRAL =1; LEAST IMPORTANT= 1; NOT IMPORTANT

172 In terms of question number 6: VERY IMPORTANT =1 IMPORTANT =0; NEUTRAL 2 Least IMPORTANT 1

173 Granted this is a small sample size, but somewhat disconcerting that there is little agreement between
174 these four individuals. They may have been trained at different institutions, but this was not examined.

175 Questions asked of Faculty

176

177 1) As an instructor what do you see as the biggest obstacles to your instructional success?

178 2) As an instructor what do you see as the biggest communication challenges?

179 3) As an instructor what do you see as the most important factor in student success?

180 4) As an instructor, how important is a structured or organized class to student success?

181 5) As an instructor, how important is it to have multiple engagement strategies (e.g. Projects, games,
182 groups)

183 6) As an instructor, how important is it to have mastery of APA format and writing skills?

184 7) As an instructor, how important is immediate synchronous involvement (e.g. Phone, in person, SKYPE,
185 Zoom)?

186 8) As an instructor- how important is synchronous involvement with you as the Instructor (e.g.
187 Discussion Board, email, announcements)

188 RESULTS FROM FACULTY:

189 Results from question # 1:

190 1) Competing demands- too many committees-----31.58% n=6; 2) Too many administrative duties---
191 6.32% n= 5; 3) Too many research projects-----21.05% n= 4; 4) Too many advisees----21.5% n=4

192 Results from question #2:

193 1) Student not responding to Discussion 36.36 % n= 8; 2) Students not replying to emails 18.18% n= 4
194 3) Students not responding to Announcements 4.5% 1; 4) Response time to students 4.55% n=1; 5) No
195 response at all 36.36% n=8

196 Results from question # 3

197 Computer Skills---9.9 % n=2; 2) Consistency ----50.00% n=11; 3) Tech Support----4.5% n=1; 4) Clear
198 Concise Syllabus 27.27% n=6; 5) Clear concise Homepage 9.09% n=2

199 Results from question #4

200 1) VERY IMPORTANT---86.36% n=19; 2) IMPORTANT-----9.09% n= 2; 3) NEUTRAL = 0; 4) LEAST
201 IMPORTANT=0; 5) Not IMP---4.5 % n=1

202 Results from Question Number 5;

203 1) VERY IMPORTANT 40.91% n=9; 2) IMPORTANT 40.91%= n=9; 3) NEUTRAL 9.09% n=2; 4) LEAST
204 IMPORTANT 9.09% n=2; 5) NOT IMPORTANT---0.00%

205 Results from Question Number 6:

206 1) VERY IMPORTANT 33.33% n=8; 2) IMPORTANT--- 47.62% n= 10; 3) NEUTRAL 14.29% n=3; 4) LEAST
207 IMPORTANT 4.76% n=1; 5) Not Important 0

208 Results from Question Number 7 –

209 1) VERY IMPORTANT---18.18% n=4; 2) IMPORTANT----18.18% n=4; 3) NEUTRAL 40.91% n= 9; 4) LEAST
210 IMPORTANT 9.09% n=2; 5) NOT IMPORTANT 13.64% n= 3

211 Results from Question # 8

212 1) VERY IMPORTANT ---45.45% n=10; 2) IMPORTANT --- 36.36% n=8; 3) NEUTRAL-- 9.09% n= 2; 4) Least
213 IMPORTANT 9.09% n=2; 5) NOT IMPORTANT 0.0%

214 Questions Asked of Students- Graduates and Undergraduates

215 1) In your opinion, what is the single most important factor in your success as a STUDENT?

- 216 2) In your opinion, what are the most important tech skills for online media site as a student?
 217 3) In your opinion, how important is Reading Comprehension in your success as a student in an
 218 online or media site course?
 219 4) As a student, what do you see as the biggest factor contributing to your success?
 220 5) As a student, what do you see as the single biggest obstacle to online or media site success?
 221 6) In your mind, what is the most important personality factor contributing to your success as a
 222 student?
 223 7) As a student, what do you see as the biggest financial obstacle to online success?

224 Results for Students: (both Graduate and Undergraduate)

225 Question # 1 Results

- 226 1) Having a strong interest in the subject- 54.1% n=26; 2) having organizational skills 20.8% n=10;
 227 3) Having the courage to ask questions 2.0 % n=1; 3) Convenience to work at my own pace
 228 18.7% n=9; 4) Relief of social anxiety 4.17% n= 2
 229

230 Question # 2 Results

- 232 1) Word Processing 8.7 %; 2) Internet access 39.1% n=18; 3) Familiarity with LMS 47.8%. n=22; 4) Email
 233 utilization 0.00 % n=0; 5) Other communication skills (e.g. Prezi) 4.33% n= 2)

234 Question # 3---Results

- 235 1) VERY IMPORTANT 71.7 % n=33 IMPORTANT 17.3 % n=8; LEAST IMPORTANT 8.7.% n=4; NOT
 236 IMPORTANT 2.1% n= 1

- 237 Question # 4 1) Technological problems---43.43% n=20; 2) Time constraints ---50.00% n=23; 3) Access
 238 to books=0% n=0; Family Constraints 6.52% n=3

239 Question # 5 Results

- 240 1) Class participation 6.5 % n=30; 2) Support from peers/spouse 10.8% n=5; 3) Clarification on
 241 concepts/ideas from peers 23.9% n=11; 4) Immediate response from Instructor 19.5% n=9; 5)
 242 Instructor comments/feedback 39.1% n=18

243 Question # 6 Results

- 244 1) Persistence 41.3% n=19 2) Consistency 26.0% n=12; 3) Sociability 2.1% 4) Communication Skills
 245 0.00% n=0; 4) Communication Skills 26.0% n=12; 5) Technology 4.3% n=2

246 Question # 7 Results

- 247 1) Cost of e-book 0% n=0; 2) Cost of Textbook 23.9% n=11; 3) Gas- 0% n=0; 4) Tuition 63% n=29
 248 Other-6% n=13

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250 The data for the graduate and undergraduate students was collapsed since the response rate for
251 undergraduates (seniors, juniors and sophomores) was small.

252 **Summary and Conclusions**

253 From this preliminary exploratory study some relevant concerns and some outstanding issues emanate.

254 From our small sample size, technological issues remain problematic and time constraints are a
255 secondary

256 issue. Undergraduate responses differed slightly from graduate although the sample size of

257 undergraduate students was small and not representative of the student body population.

258 It may be important for faculty to clearly communicate time expectations, information about course

259 demands (writing, library research, discussion board postings, possible difficulties with the learning

260 management system) before the course begins so that students are aware of the demands of the
261 course

262 and can perhaps allocate adequate amounts of time to reading, responding, and preparing for tests and

263 assignments. The results of this preliminary survey should be viewed with caution, as sample sizes were

264 small and the university in which the research was conducted was a southwestern rural university. Thus,

265 results at larger metropolitan universities may be quite different.

266

267 **References**

268

269 Cheawjindakarn, B. Suwannathachote, P. and Theeraroungchaisri, A. (2012)

270 Critical Success Factors for Online Distance Learning in Higher Education: A Review of the

271 Literature.

272 Creative Education 3, 61-66. Published Online December 2012 in SciRes

273 (<http://www.SciRP.org/journal/ce>) DOI:10.4236/ce.2012.38b014

274 What Makes a Successful Online Learner? | CAREERwise

275 Education <https://careerwise.minnstate.edu/education/successonline.html>

276

277 Stevens, K.B. (2013) Contributing Factors to a Successful Online Course Development Process.

278 The Journal of Continuing Higher Education, 61:1, 2-11, DOI: 10.1080/07377363.2013.758554

279

280 Volery,T. and Lord, D. (2000) Critical success factors in online education

281 International Journal of Educational Management 14:216-223. DOI:

282 10.1108/09513540010344731

283

284 Yukselturk, E. & Bulut, S. (2007). Predictors for Student Success in an Online Course.
285 Educational

286 Technology & Society, 10 (2), 71-83.

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UNDER PEER REVIEW