

Welcome! All SCIS students and faculty are welcome. Please Note....In order to log out of the chat properly you must use the quit button at the bottom of the page.

NOTE Terrell just logged in **Chat Room One** channel. (08:58:01 PM)

HELP You may type `/help` to get all chat commands.

NOTE Marilyn just logged in **Chat Room One** channel. (08:58:04 PM)

NOTE Marilyn has left **Chat Room One** channel. (08:58:19 PM)

NOTE Marilyn just logged in **Chat Room One** channel. (08:58:29 PM)

NOTE JoeAshby just logged in **Chat Room One** channel. (08:59:14 PM)

Marilyn: Hi from sunny, getting-warmer Tucson!

Terrell: Hello everyone - I'll give everyone about 1 more minute and we'll get started.

NOTE Phyllis just logged in **Chat Room One** channel. (09:02:31 PM)

Terrell: I'm typing but nothing is showing up - this is a test.

Phyllis: Hi All

Terrell: OK - this seems to work now.

Terrell: Hi Phyllis.

Terrell: Actually, all I want to do is talk briefly about the final and then case studies 8 and 9. Before I do, are there any questions?

Terrell: OK - the final.

Marilyn: I must say, the comments and suggestions you make about the cases etc. are very helpful.

Terrell: Thanks, you're more than welcome. I'm glad to do it; like I say, never be afraid to ask.

Terrell: As you know, I sent out the final exam this week. There are several versions and I randomly sent the different versions to the members of the class.

Terrell: In each case, you're presented with a scenario that suggests some type of research study should be undertaken.

Terrell: Right off the bat, let me make this clear.

Terrell: How you answer the final is up to you; there are different ways to "solve" the problem and I don't care how you do it as long as 1) what you do is correct and 2) you're able to defend/substantiate the approach you take.

Terrell: Because everyone will be working in different manners, I won't discuss the specifics of the exam on the forums or in these chat sessions. I do that because I would run the risk of answering a particular person's question and maybe confusing someone else

Terrell: who is taking a different approach.

Terrell: Obviously, you will be following the guidelines we've used all term in the five assignments we've done in the Gay book.

Terrell: As we're doing this, though, I want you to use specific headings so I can follow along.

Terrell: First, I want you to write an Introduction - it will give the background and the significance of the problem, just like we saw in the Gay book.

Terrell: After the Intro, I want you to write a Statement of the Problem.

Terrell: This will be followed by a brief review of the literature.

Terrell: In the review of literature, I want you to read at least 5 to 7 sources and synthesize the material to make a coherent report.

Terrell: Obviously, that will lead to the next section, the statement of hypothesis.

Terrell: As I said in my e-mail earlier, you might have one or you might have more than one hypothesis - that's up to you and how you approach the study.

Terrell: After you've written the hypothesis, I want you to write the method section; just like in the Gay book. You'll have a Participants section, an Instrument section and an Experimental Design section.

Terrell: So far, everything we've talked about would be the "proposal". Because of the next steps, though, I want everything written in the past tense because, by the time you've finished you will have, in essence, completed a study.

Terrell: Now, the next thing you need is a section entitled data analysis.

Terrell: In order to analyze your data, you have to consider a couple of things.

Terrell: first, you've determined what your independent variable is in your research design; again, how you set that up is up to you. Obviously, you'll know the levels as well.

Terrell: You will also be able to name the dependent variable; again, that's up to you - however you want to measure the content area under question.

Terrell: Knowing those two things, you need to create a dataset that is representative of the dependent variable you've identified with data for all levels of the independent variable or variables.

Terrell: Once you have that data generated (it sounds like a big deal but, if you know your IVs and DVs it should take about 5 minutes), you'll then choose the appropriate statistical test and analyze the data.

Terrell: In your data analysis section you'll show a table with the raw data in it, the appropriate descriptive statistics and the output of the inferential statistics that you choose to run.

Terrell: You can do the computations by hand or use computer software - all I want is the results however.

Terrell: Following the Data Analysis section, I want you to write a Conclusions section. Therein interpret your hypothesis in light of your data analysis; you can see a good example of this type of discussion on page 527 in the Gay book.

Terrell: Obviously, following all of that you should include a reference list.

Terrell: So, to recap, you'll have an intro section (background, significance), the problem, the review of literature, the hypothesis, the data analysis, the conclusion and a reference list.

Terrell: History has shown this usually takes between 10 and 12 single spaced pages; that's why you get so long to work on it.

Terrell: Now, throughout the month of May I'm going to get a lot of questions like, "what do you think about this?" or "Can I do that?" and my answer is going to be what?

Terrell: You can do whatever you want as long as it's 1) correct and 2) defensible!

Terrell: You'll hear me say that probably 1000 times if your class is anything like the others I've had throughout time. I imagine, just like them, you'll do a good job on this assignment.

Terrell: It's a lot of work but I truly believe it's an appropriate culminating experience for this type of course.

Terrell: Now, after having loaded you down with all of that - are there any questions about the final or do you need to digest this and send me e-mail? Feel free to ask any question you want.

JoeAshby: Does Gay discuss multiple hypothesis procedures?

Phyllis: No questions - everything is quite clear. Thanks for the detail.

Marilyn: Thanks for the specifics.

JoeAshby: Wouldn't that drive you into two parallel projects?

Terrell: Yes - the Gay book discusses it somewhat. If I were to offer a word of advice; keep it as simple as possible. At the very least, if you're going to test more than one hypothesis, don't make it multivariate; use two distinct test (e.g., two t tests).

Terrell: Again, keep it as simple as you can. Remember, the idea here is to learn the process; not to write a dissertation. Read the case and do exactly what it asks for; nothing more and nothing less.

Marilyn: The "Analysis of Variances" chapter in the Terrell book shows problems with two hypothesis. A guide?

Marilyn: That should be "hypotheses."

Terrell: If I had to guess, I would say one of the biggest problems I've seen in past classes is that they do far more than they need to.

Terrell: Yes, you can see how to do that in my book.

JoeAshby: OK!

Terrell: Is everyone set? Other questions about the final?

Marilyn: Probably, but I don't know what they are yet.

Terrell: That's usually the answer - it takes a while for this to set in and becomes more clear as you start working.

Terrell: Ok - let me say something about the remaining case studies.

Terrell: I'm sure you've all been working on Case Study eight; it's due this weekend. Just a couple of things.

Terrell: First, again, there's no need to repeat the questions - just give me the answers and your explanation.

Terrell: Second, please put your name on your paper.

Terrell: You'll find the remaining cases are not as "difficult" or time-consuming as those prior ones.

Terrell: That's for two reasons. First, these tests are fairly easy to understand and second, you need the majority of your time to work on the final.

Terrell: On the ANOVA case, remember I said there is a complete F table in the back of the Gay book. One of my reviewers this week just pointed out the fact I need one in my book as an appendix - I wanted to call the guy and go "duh!"

Terrell: You can compute the critical value of F by hand or with a computer - the Statpak software does that well.

Terrell: Remember, when you're testing a hypothesis using an ANOVA, when you get the p value, that tells you whether or not you reject the overall (called the omnibus) hypothesis.

Terrell: For example, I might say there's a significant difference in income between people in Canada, the US and Mexico. If I reject the null (i.e., $p < .05$), I'm just saying that a significant difference does exist; I just don't know where.

Terrell: It could be between Canada and the US, Canada and Mexico or the US and Mexico.

Terrell: The point is, if you reject the null you then have to use the post-hoc (multiple comparison) tests; they're talked about in detail in my book. They are also part of all software packages.

Terrell: They are used to tell you exactly where the significant differences lie.

Terrell: I think you'll find the ANOVA fairly simple to understand.

Terrell: any questions on the ANOVA?

Terrell: OK - I know your heads are probably hurting from all of this.

Terrell: After the ANOVA case, the next case, the chi-square, is due on the 16th.

Terrell: I think I'll wait to discuss it during the next online class or via the forums if you want to talk about it before then.

Terrell: There probably won't be that much discussion as it's one of the easiest tests to understand.

Terrell: Speaking of the next online session; it's scheduled for the 12th. Unfortunately, I'll be somewhere between here and NYC that evening so I'm going to reschedule it to either the 10th or 11th.

Terrell: As usual, if you can attend and want to, that's perfect. If not, I'll send out a transcript. As you all know by now, I'm fairly quick at answering e-mail.

Terrell: OK - I've given you a lot of information. You didn't seem to have questions about the final nor the ANOVA. That's OK but do you have questions about anything else I can help you with?

Phyllis: Not right now.

Marilyn: Not at the moment, thanks.

JoeAshby: I'm golden.

Terrell: OK - that means everyone is happy!

Terrell: I'll copy this and send it right out; I'll also post it to the web.

Terrell: Thanks for coming; let me know if you have questions.