# Wayland Logo

Campus Name

School of Business

# 2. UNIVERSITY MISSION STATEMENT

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success, and service to God and humankind.

# 3. COURSE NUMBER & NAME:

MGMT 6307-01, Quantitative Methods

# **4. TERM**:

Fall 1 2020

# **5. INSTRUCTOR**:

Dr. Samantha Rice Murray

# **6. CONTACT INFORMATION**:

WBU Email: murrays@wbu.edu

Cell phone: 806-445-6565 - Please email for an appointment.

# **7. OFFICE HOURS, BUILDING & LOCATION**:

 M/T/W/TH 10am – 3pm CST

# **8. COURSE MEETING TIME & LOCATION**:

Online

# **9. CATALOG DESCRIPTION**:

Develop skills in the use of quantitative research design and methodology. Students will be exposed to several models of quantitative methods and designs.

# 10. PREREQUISITE:

# **11. REQUIRED TEXTBOOK AND RESOURCE MATERIAL**:

| **BOOK** | **AUTHOR** | **ED** | **YEAR** | **PUBLISHER** | **ISBN#** | **UPDATED** |
| --- | --- | --- | --- | --- | --- | --- |
| Laerd Statistics | https://statistics.laerd.com/index.phpPurchase a subscription for the duration of the class |  |  |  |  |  |
| SPSS Student Version | I advise you to acquire the SPSS Software. One source is www.journeyed.com |  |  |  | Order student version which is called: IBM SPSS Statistics Premium Grad Pack 23.0 Academic( windows download 12month license) currently $99 |  |

# 12. OPTIONAL MATERIALS

# **13. COURSE OUTCOMES AND COMPETENCIES**:

* Use quantitative analysis techniques research techniques appropriately given the research problem
* Choose the appropriate technique to fit the research question and data available, as well as make appropriate suggestions for the method of data collection
* Interpret the results of quantitative research correctly and draw appropriate management conclusions from the study
* Manage data collection using quantitative research techniques in an ethical manner when the research project involves human subjects

# 14. ATTENDANCE REQUIREMENTS:

As stated in the Wayland Catalog, students enrolled at one of the University’s external campuses should make every effort to attend all class meetings. All absences must be explained to the instructor, who will then determine whether the omitted work may be made up. When a student reaches that number of absences considered by the instructor to be excessive, the instructor will so advise the student and file an unsatisfactory progress report with the campus executive director. Any student who misses 25 percent or more of the regularly scheduled class meetings may receive a grade of F in the course. Additional attendance policies for each course, as defined by the instructor in the course syllabus, are considered a part of the University’s attendance policy.

# **15. STATEMENT ON PLAGIARISM & ACADEMIC DISHONESTY**:

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

# **16. DISABILITY STATEMENT**:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

# **17. COURSE REQUIREMENTS and GRADING CRITERIA**:

# Weekly Write-Ups–

Weekly write-ups are due during Weeks 2, 4, 6, 8, 10 and 11 on Thursday by 9am CST. Please refer to Blackboard, Course Content, weekly folder for specific weekly assignments and directions. Each write up is worth 100 points. If you make below a 90 week 2, 4, 6, 8, and 10 on a write-up and your work is submitted by the due date, you will be given one opportunity to make the appropriate corrections to the paper for a grade no higher than 90 percent. There is not a rewrite option for week 11. You cannot get behind in this course. Given the fact that you only have 6 assignments, there is no reason to be late with your submissions. However, if you are late there will be a penalty. If your write up is late you will not be allowed to make corrections and you will receive points off for late work. Check blackboard for the Doctorate of Management Standardized penalty for late work.

**Late Policy**

Unless there are special circumstances as noted below, all work (including Discussion Board assignments and any other graded assignment) must be submitted by the due date.

* Assignments submitted within one week after the due date will receive a 10% deduction.
* Assignments submitted more than one week and less than 2 weeks late will receive a 20% deduction.
* Assignments submitted two weeks late or after the final date of the course will not be accepted.

Special circumstances (e.g. death in the family, personal health issues) will be reviewed by the instructor on a case-by-case basis.  ***To be considered for an exemption to the policy, students must contact the professor in advance of the due date.***

# Grading System:

# Write -Ups (5 total worth 100 points each) 500 points

Quantitative Paper 200 points

**17.1 Include Grade Appeal Statement:** “Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Vice President of Academic Affairs/Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.”

# 18. TENTATIVE SCHEDULE

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| **WEEK** | **ASSIGNMENTS** |
| **WEEK 1**  | **Multivariate Analysis Introduction**  **Laerd Statistics – Getting Started Menu**  **● Write-Up for Week 1 due Sunday @ 9am CST.** **● For the final project: Write a literature review with testable hypotheses. (You may edit, revise, and rewrite the literature review from Research Methods).** |
| **WEEK 2**  | **Testing for Associations and Reliability****(Spearman’s Correlation, Pearson’s Correlation, Kendal’s tau-b, Chi Square test of Independence, and Cronbach’s alpha)** **Laerd Statistics – Read and study**  **Spearman’s Correlation** **Pearson’s Correlation**  **Kendal’s tau-b** **Chi Square test of Independence**  **Cronbach’s alpha** **● Write-Up for Week 2 due Sunday @ 9am CST.** **● Corrections for Week 1 Write-Up due Sunday @ 11:59pm CST.** **● For final project: Write the section on population and sample. Operationalize the research variables (write this section of the paper) and create a survey. Write the data collection section.** |
| **WEEK 3** | **Testing for Predictions** **(Multiple Regression Analysis)** **Laerd Statistics - Linear Regression and Multiple Regression** **● Write-UP for Week 3 due Sunday @ 9am CST.** **● Corrections for Week 2 Write-Up due Sunday @ 11:59pm CST.** **● Complete the section on population and sample. Operationalize the research variables (write this section of the paper) and create a survey. Write the data collection section.** |
| **WEEKS 4**  | **Testing for Differences Between Groups** **(Independent Samples t-test, ANOVA, and MANOVA Analysis)**  **Laerd Statistics – Read and study:** **Independent Sample t-test** **1-way ANOVA** **2-way ANOVA** **3-way ANOVA** **1-way MANOVA** **2-way MANOVA**  **● Write-Up for Week 4 due Sunday @ 9am CST.** **● Corrections for Week 3 Write-Up due Sunday @ 11:59pm CST.** **● For the final project: Write the quantitative analysis technique section. Collect data.** |
| **WEEK 5** | **Work on Final Project****● Corrections for Week 4 Write-Up due Sunday @ 11:59pm CST.** **● Continue to collect data and get caught up on your final project. Feel free to move forward if you are caught up.** |
| **WEEK 6** | **Data Reduction Analysis****(Principle Components Analysis)** **Laerd Statistics – Read and study: Principle Components Analysis** **● Write-Up for Week 6 due Sunday @ 9am CST.** **● For the final project: Transform raw data to be analyzed.**  |
| **WEEK 7** | **Final Assignment Due** **● Corrections for Week 6 Write-Up due Sunday @ 9am CST.** **● Run the technique and write up the results.** |
| **WEEK 8** | **Final Assignment Due** **● Final Assignment Due Thursday, October 8th @ 9am CST** |

# 19. ADDITIONAL INFORMATION

Faculty may add additional information if desired.