Course Syllabus

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Fermanian School of Business

ACC5080 – Advanced Accounting Data Analytics

3 Units

Fall 2024

January 13 – December 11

Meeting Days: Tuesday

Meeting Times: 5:30pm – 8:15pm

Meeting Location: FSB105

Final Exam: (Day/Time): May 6, 5:30pm

Instructor: Joseph Dowdy

Email: jdowdy@plnu.edu

Phone: 619-517-1137

Office Location and Hours: *By appointment*

PLNU Mission

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

Fermanian School of Business Mission

Character ~ Professionalism ~ Excellence ~ Relationships ~ Commitment ~ Innovation

As members of a vital Christian community, we strive to provide high quality business programs that equip students to make a positive impact in their workplace and community by connecting purpose to practice. cultures.

Course Description

A study of data analytics with an emphasis on identifying relevant issues and questions, gathering data, performing testing, and analyzing and communicating results. Topics include audit data, managerial, financial statement and tax analytics. An emphasis is placed on applying real-world data using various tools.

Course Learning Outcomes

The student who successfully completes this course will be able to:

1. Exhibit an understanding of data analytics and their various applications to accounting (PLO M1).
2. Apply the process of data analytics, including identifying relevant issues, gathering data, performing testing and analyzing results (PLO M1 & M4).
3. Perform data analysis using various real-world data tools (PLO M4).
4. Demonstrate the ability to effectively communicate results (PLO M4).
5. Compile data for audit and tax preparation (PLO M3, M4 & M5).

Program Learning Outcomes

The student who successfully completes the Master of Science in Accounting will be able to:

1. Exhibit advanced knowledge of accounting.
2. Perform an accounting analysis of financial statements.
3. Evaluate tax positions and planning opportunities based on federal tax knowledge.
4. Apply the process of data analytics, including identifying relevant issues, gathering data, performing testing, and analyzing results.
5. Apply audit knowledge and techniques to financial statements.

Institutional Learning Outcomes

1. **Learning, Informed by our Faith in Christ**

   Students will acquire knowledge of human cultures and the physical and natural world while developing skills and habits of the mind that foster lifelong learning.

2. **Growing, in a Christ-centered Faith Community**

   Students will develop a deeper and more informed understanding of others as they negotiate complex professional, environmental, and social contexts.

3. **Serving, in a Context of Christian Faith**

   Students will serve locally and/or globally in vocational and social settings.

Required Resources

- Laptop for in class with Microsoft Excel/Office access. Windows is preferred & will make your life much easier. Mac is okay but will require use of a Virtual Windows Machine.

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Course Credit Hour Information

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 3-unit class delivered over 16 weeks. It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their coursework.

Assessment and Grading

Grades will be based on the following:

Course Assignments

Assignment Category	Points
Homework	145 pts
In-Class Assignments	60 pts
Alteryx Mini Capstone	70 pts

Alteryx Capstone	125 pts
Midterm	150 pts
Power BI Capstone	250 pts
Excel Capstone	100 pts
Final	100 pts
TOTAL	1000pts

Student grades for assignments will be posted in the Canvas gradebook no later than midnight on Tuesday of each week beginning in Week Two of this course. It is important to read the comments posted in the gradebook as these comments are intended to help students improve their work. Final grades will be posted by the due date as posted in the Academic Calendar.

Grading Scale

The following grading scale will be used for all exams and final course grades:

- 93-100% = A
- 90 - 92% = A-
- 87 – 89% = B+
- 83 – 86% = B
- 80 – 82% = B-
- 77 – 79% = C+
- *73 – 76% = C
- 70 – 72% = C-
- 67 – 69% = D+
- 63 – 66% = D
- 62 – 60% = D-
- Below 60% = F

Incompletes and Late Assignments

All assignments are to be submitted by the due dates. There will be a 10% reduction of possible points for **each day** an assignment is late, and assignments will **not be** accepted for credit four days after the due date. If missing assignments result in the failure to meet learning outcomes, you may receive a letter grade reduction on the final grade in addition to the loss of points for missing work. Assignments will be considered late if posted after the due date and time using Pacific Standard Time. No assignments will be accepted after midnight on Sunday night, the last day of class.

Exceptions for extenuating circumstances must be pre-approved by the instructor and the program director.

Incompletes will only be assigned in extremely unusual circumstances.

PLNU Spiritual Care

PLNU strives to be a place where you grow as a whole person. To this end, we provide resources for our Graduate and Adult Undergraduate students to encounter God and grow in their Christian faith. At the Mission Valley (MV) campus we have an onsite chaplain who is available during class break times across the week. If you have questions or a desire to meet or share any prayer requests with the onsite chaplain, you may email Dr. Sylvia Cortez Masyuk at **scortezm@pointloma.edu (mailto:scortezm@pointloma.edu)** .

In addition, on the MV campus, there is a prayer chapel on the third floor, which is open for use as a space set apart for quiet reflection and prayer.

State Authorization

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on **State Authorization (https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures)** to view which states allow online (distance education) outside of California.

PLNU Copyright Policy

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

PLNU Recording Notification

In order to enhance the learning experience, please be advised that this course may be recorded by the professor for educational purposes, and access to these recordings will be limited to enrolled stu... and authorized personnel.

Note that all recordings are subject to copyright protection. Any unauthorized distribution or publication of these recordings without written approval from the University (refer to the Dean) is strictly prohibited.

PLNU Academic Honesty Policy

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when, in reality, they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination or, depending on the seriousness of the offense, for the course.

During the first week of class, you will be asked to submit an Academic Honesty Verification Statement. Submitting the statement is a requirement of this course. By submitting the Academic Honesty Verification Statement, you will be verifying all assignments completed in this course were completed by you. Carefully review the Academic Honesty Statement below.

Statement: "In submitting this form, I am verifying all the assignments in this course will be completed by me and will be my own work."

Artificial Intelligence (AI) Policy

You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, GrammarlyGo, Perplexity, etc.) in this course. Any work that utilizes AI-based tools must be clearly identified as such, including the specific tool(s) used. Please use the following source to guide your citations when using AI.

- **APA Style: How to Cite ChatGPT** ⤷ **(https://apastyle.apa.org/blog/how-to-cite-chatgpt)**

PLNU Academic Accommodations Policy

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities in accordance with the Americans with Disabilities Act (ADA). Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will work with the student to create an Accommodation Plan (AP) that outlines allowed accommodations. The EAC makes accommodations available to professors at the student's request.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course. Accommodations are not retroactive, so clarifying with the professor at the outset is one of the best ways to promote positive academic outcomes.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to ensure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC. Students cannot assume that because they had accommodations in the past, their eligibility at PLNU is automatic. All determinations at PLNU must go through the EAC process. This is to protect the privacy of students with disabilities who may not want to disclose this information and are not asking for any special accommodations.

Language and Belonging

Point Loma Nazarene University faculty are committed to helping create a safe and hospitable learning environment for all students. As Christian scholars, we are keenly aware of the power of language and believe in treating others with dignity. As such, it is important that our language be equitable, inclusive, and prejudice-free. Inclusive/Bias-free language is the standard outlined by all major academic style guides, including MLA, APA, and Chicago, and it is the expected norm in university-level work. Good writing and speaking do not use unsubstantiated or irrelevant generalizations about personal qualities such as age, disability, economic class, ethnicity, marital status, parentage, political or religious beliefs, race, gender, sex, or sexual orientation. Inclusive language also avoids using stereotypes or terminology that demeans persons or groups based on age, disability, class, ethnicity, gender, race, language, or national origin. Respectful use of language is particularly important when referring to those outside of the religious and lifestyle commitments of those in the PLNU community. By working toward precision and clarity of language, we mark ourselves as serious and respectful scholars, and we model the Christ-like quality of hospitality.

If you (or someone you know) have experienced a bias incident regarding language, you can find more information on reporting and resources at **www.pointloma.edu/bias (http://www.pointloma.edu/bias)** .

Sexual Misconduct and Discrimination

Point Loma Nazarene University faculty are committed to helping create a safe learning environment for all students. If you (or someone you know) have experienced any form of sexual discrimination or misconduct, including sexual assault, dating or domestic violence, or stalking, know that help and support are available through the **Title IX Office (https://www.pointloma.edu/title-ix)** . Please be aware that under Title IX of the Education Amendments of 1972, it is required to disclose information about such misconduct to the Title IX Office.

If you wish to speak to a confidential employee who does not have this reporting responsibility, you can contact Counseling Services at counselingservices@pointloma.edu or find a list of campus pastors at pointloma.edu/title-ix.

If you (or someone you know) have experienced other forms of discrimination or bias, you can find more information on reporting and resources at www.pointloma.edu/bias

PLNU Attendance and Participation Policy

Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. Therefore, regular attendance and participation in each course are minimal requirements.

If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university withdrawal date or, after that date, receive an "F" grade.

Students who anticipate being absent for an entire week of a course should contact the instructor in advance for approval and make arrangements to complete the required coursework and/or alternative assignments assigned at the discretion of the instructor. Acceptance of late work is at the discretion of the instructor and does not waive attendance requirements.

Refer to **Academic Policies** ⤷ **(https://pointloma-public.courseleaf.com/aug-catalog/academic-general-policies/)** for additional details.

Synchronous Attendance/Participation Definition

For synchronous courses that have specific scheduled meeting times (including in-person, hybrid, and synchronous online courses), absences are counted from the first official meeting of the class regardless of the date of the student's enrollment. For courses with specific attendance requirements, those requirements are outlined in the course syllabus.

Note: For synchronous courses with an online asynchronous week, refer to the Online Asynchronous Class Attendance policy listed below.

Online Asynchronous Attendance/Participation Definition

Students taking online courses with no specific scheduled meeting times are expected to actively engage throughout each week of the course. Attendance is defined as participating in an academic activity within the online classroom which includes, but is not limited to:

- Engaging in an online discussion
- Submitting an assignment
- Taking an exam

- Participating in online labs
- Initiating contact with faculty member within the learning management system to discuss course content

Note: Logging into the course does not qualify as participation and will not be counted as meeting the attendance requirement.

Course Modality Definitions

1. Online Courses: These are courses with class meetings where all instruction and interaction are fully online.
    1. Synchronous Courses: At least one class meeting takes place at a designated time.
    2. Asynchronous Courses: All class meetings are asynchronous.
2. Hybrid Courses: These are courses with class meetings that take place both in the classroom and online synchronously and/or asynchronously.
3. In-Person Courses: These are courses that meet in person with the instructor and students in a physical classroom setting. With approval by the area dean, this may include up to 25% of qualified class interactions through a Learning Management System (such as Canvas).

Use of Technology

In order to be successful in the online or hybrid environment, you'll need to meet the minimum technology and system requirements; please refer to the **_Technology and System Requirements_** **_(https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349)_** information. Additionally, students are required to have headphone speakers, microphone, or webcams compatible with their computer available to use. Please note that any course with online proctored exams requires a computer with a camera (tablets are not compatible nor allowable) to complete exams online.

Problems with technology do not relieve you of the responsibility of participating, turning in your assignments, or completing your class work.

Final Examination Policy

Successful completion of this class requires taking the final examination on its scheduled day.

Assignments-at-a-Glance

The course summary below lists our assignments and their due dates. Click on any assignment to review it.

Please note that Spring Break is the week of March 10th. We will not hold class that week.

Course Summary:

Date	Details	Due
Tue Jan 14, 2025	📄 **Week 1 Agenda**	to do: 5:30pm
	📝 **WK1 Homework: Research on Data Analytics in Accounting (https://canvas.pointloma.edu/courses/77359/assignments/1112765)** ♿	due by 5:29pm
Tue Jan 21, 2025	📄 **Week 2 Agenda**	to do: 5:30pm
	📝 **WK2 In-Class Assignment: A Basic Alteryx Workflow (https://canvas.pointloma.edu/courses/77359/assignments/1112773)** ♿	due by 8:15pm
	📝 **WK2 Homework: A Basic Alteryx Workflow, Continued (https://canvas.pointloma.edu/courses/77359/assignments/1112772)** ♿	due by 5:29pm
Tue Jan 28, 2025	📄 **Week 3 Agenda**	to do: 5:30pm
	📝 **WK3 In-Class Assignment: Basic Input & Output and Formulas in Alteryx (https://canvas.pointloma.edu/courses/77359/assignments/1112775)** ♿	due by 8:15pm
Tue Feb 4, 2025	📝 **WK3 Homework: Basic Input & Output and Formulas in Alteryx, Continued (https://canvas.pointloma.edu/courses/77359/assignments/1112774)** ♿	due by 5:29pm

Date	Details	Due
	📄 **Week 4 Agenda**	to do: 5:30pm
	📝 **WK4 In-Class Assignment: Database structures, joins, and unions in Alteryx** (https://canvas.pointloma.edu/courses/77359/assignments/1112777) ♿	due by 8:15pm
	📝 **WK5 In-Class Assignment: Merging, Cleaning, and Aligning Data in Alteryx** (https://canvas.pointloma.edu/courses/77359/assignments/1112780) ♿	due by 8:15pm
	📝 **WK4 Homework: Database Operations in Alteryx** (https://canvas.pointloma.edu/courses/77359/assignments/1112776) ♿	due by 5:29pm
Tue Feb 11, 2025	📄 **Week 5 Agenda**	to do: 5:30pm
	📝 **WK5 Alteryx Mini Capstone Project** (https://canvas.pointloma.edu/courses/77359/assignments/1112778) ♿	due by 11:59pm
	📝 **WK5 Homework: Data Aggregation in Alteryx** (https://canvas.pointloma.edu/courses/77359/assignments/1112779) ♿	due by 5:29pm
Tue Feb 18, 2025	📄 **Week 6 Agenda**	to do: 5:30pm
	📝 **WK6 Alteryx Capstone Project** (https://canvas.pointloma.edu/courses/77359/assignments/1112781) ♿	due by 8:15pm
Tue Feb 25, 2025	📄 **Week 7 Agenda**	to do: 5:30pm
	📝 **WK7 In-Class Assignment: Connecting and Shaping Data in Power BI**	due by ...

Date	Details	Due
	(https://canvas.pointloma.edu/courses/77359/assignments/1112783)	

	📝 **WK7 Homework: Connecting and Shaping Data in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112782)	due by 5:29pm
	📄 **Week 8 Agenda**	to do: 5:30pm
Tue Mar 4, 2025	📝 **WK8 In-Class Assignment: Basic Visuals in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112785)	due by 8:15pm
	📝 **WK8 In-Class Assignment: Data Modeling in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112786)	due by 8:15pm

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| Mon Mar 10, 2025 | 📄 **Spring Break - Week of March 10th, No Lecture** | to do: 11:59pm |

	📝 **WK8 Homework: Data Modeling in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112784)	due by 5:29pm
Tue Mar 18, 2025	📄 **Week 9 Agenda**	to do: 5:30pm
	📝 **WK9 In-Class Assignment: Data Analytic Expressions in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112788)	due by 8:15pm

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| Tue Mar 25, 2025 | 📝 **WK9 Homework: Data Modeling in Power BI, Part 2** (https://canvas.pointloma.edu/courses/77359/assignments/1112787) | due by 5:29pm |

Date	Details	Due
	📄 **Week 10 Agenda**	to do: 5:30pm
	📝 **WK10 In-Class Assignment: Visualizations & Reports in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112766) 👤	due by 8:15pm
	📄 **Week 11 Agenda**	to do: 5:30pm
Tue Apr 1, 2025	📝 **WK11 Midterm Exam** (https://canvas.pointloma.edu/courses/77359/assignments/1112767) 👤	due by 8:15pm
	📄 **Week 12 Agenda**	to do: 5:30pm
Tue Apr 8, 2025	📝 **WK12 In-Class Assignment: Artificial Intelligence & Machine Learning in Power BI** (https://canvas.pointloma.edu/courses/77359/assignments/1112768) 👤	due by 8:15pm
Tue Apr 15, 2025	📝 **WK13 Power BI Capstone Project** (https://canvas.pointloma.edu/courses/77359/assignments/1112769) 👤	due by 5:29pm
	📄 **Week 13 Agenda**	to do: 5:30pm
Tue Apr 22, 2025	📄 **Week 14 Agenda**	to do: 5:30pm
Tue Apr 29, 2025	📄 **Week 15 Agenda**	to do: 5:30pm
Tue May 6, 2025	📝 **WK15 Excel Capstone Project** (https://canvas.pointloma.edu/courses/77359/assignments/1112770) 👤	due by 5:29pm
	📄 **Week 16 Agenda**	to do: 5:30pm
	📝 **WK16 Final Exam** (https://canvas.pointloma.edu/courses/77359/assignments/1112771)	due by ...

Date	Details	Due
	🧑‍🦽	
	🚀 **Academic Honesty Verification Statement (https://canvas.pointloma.edu/courses/77359/assignments/1112764)** 🧑‍🦽	