# UVU UTAH VALLEY UNIVERSITY

# Master Course Syllabus

*For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: https://catalog.uvu.edu/*

**Semester:** Spring
**Course Prefix:** ACC
**Course Title:** Advanced Data Analytics

**Year:** 2025
**Course and Section #:** 6300-602
**Credits:** 3

## Course Description

Covers advanced data analytics, data visualization, and statistical analysis skills and techniques in accounting. Provides an applied approach to financial data analytics, cost accounting, audit analytical procedures, and financial statement analysis. Develops data analysis skills using a variety of software packages.

## Course Attributes

This course has the following attributes:
☐ General Education Requirements
☐ Global/Intercultural Graduation Requirements
☐ Writing Enriched Graduation Requirements
☒ Discipline Core Requirements in Program
☐ Elective Core Requirements in Program
☐ Open Elective
Other: *Click here to enter text.*

## Instructor Information

**Instructor Name:** Dr. Mason Snow

## Student Learning Outcomes

Upon successful completion, students should be able to:
1. Apply data analytics to financial, managerial, and auditing contexts.
2. Execute a structured plan to collect and prepare for data analysis.
3. Apply advanced data and statistical techniques.
4. Communicate recommendations in a professional manner.

## Course Materials and Texts

Naked Statistics, by Charles Wheelan. Other assigned readings will be posted to Canvas. Student will also need access to a computer with a Windows operating system, MS Excel, Power Query, Power BI

## Course Requirements

**Course Assignments, Assessments, and Grading Policy**

Course assignments (and the points allocated to each) consist of:

|  | Points |
|---|---|
| Attendance and Participation | 100 |
| Homework Assignments | 350 |
| Exams | 400 |
| Final Project | 150 |
| **Total:** | **1000** |

Grades are based on total points earned and will be distributed according to the following scale:

| A | 950 – 1000 | C+ | 770 – 799 |
|---|---|---|---|
| A- | 900 – 949 | C | 740 – 769 |
| B+ | 870 – 899 | C- | 700 – 739 |
| B | 840 – 869 | D | 600 – 699 |
| B- | 800 – 839 | E | < 600 |

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**Required or Recommended Reading Assignments**

Naked Statistics, Charles Wheelan.

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**General Description of the Subject Matter of Each Lecture or Discussion**

Topics covered in this class include:
- Relational Databases, SQL
- Advanced topics in MS Excel
- Process Mining
- Robotic Process Automation
- Workflow Automation
- Statistics
- Predictive Analytics
- Data Visualization

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# *Required Course Syllabus Statements*

**Generative AI**

The use of artificial intelligence (AI) is encouraged in this class. That said, AI should not be a replacement for your human creativity and critical thinking. While there are many ways that AI can assist you, you should not blindly rely on AI tools. Furthermore, the use of these tools will not be permitted during exams, so it is important to master the course content relying on your own ingenuity.

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**Using Remote Testing Software**

☒ This course does not use remote testing software.

☐ This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of

remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

## *Required University Syllabus Statements*

### Accommodations/Students with Disabilities
Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu) or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at [DHHservices@uvu.edu](mailto:DHHservices@uvu.edu)

DHH is located on the Orem Campus in BA 112.

### Academic Integrity
At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: *Student Code of Conduct*](#).

### Equity and Title IX
Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office

for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – [TitleIX@uvu.edu](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

**Religious Accommodation**
UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.
To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu). If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.