



MICRO-CREDENTIAL IN QUANTITATIVE METHODS

DATA-DRIVEN DECISIONS, POWERED BY AI

(HRDCORP COURSE SERIES NO: 10001539795)

Faculty Professor Sam Flanders

Videos are available beginning September 1, 2025

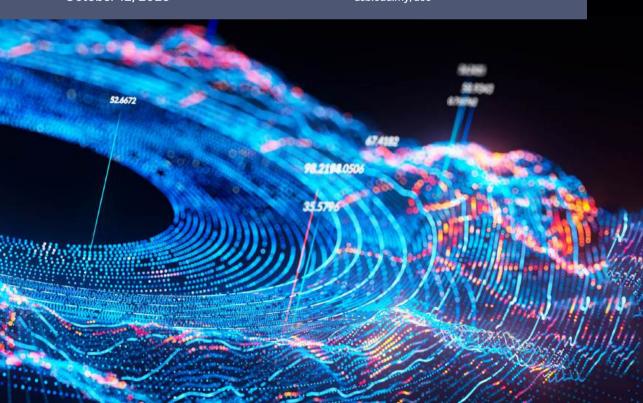
After watching the required videos, live sessions are on:

- September 14, 2025
- September 21, 2025
- September 28, 2025
- October 5, 2025
- October 12, 2025

Course Credits: 2 Credits



asb.edu.mv/ace







Course Outline

- Asynchronous 1 Topics
 Math review, The Normal Distribution, Algebra of Random Variables, The Normal CDF
- Class 1 Topics
 Activity: Competing with Probability Distributions,
 Activity: Understanding Histograms, The Inverse

Normal CDF, Activity: Finding the Limits of The Central

Limit Theorem

- Asynchronous 2 Topics
 Hypothesis testing, The T-Distribution,
 Difference-in-means-tests, Using Google Colab
- Class 2 Topics
 Hypothesis Testing Projects: Choosing Thresholds for
 Fraud Detection, Avoiding False Positives in A/B Testing
- Asynchronous 3 Topics
 One-tailed tests, Confidence Intervals, Bootstrapping, Using AI for Analytics
- Class 3 Topics
 Activities: Data Viz and Analytics with AI
- Asynchronous 4 Topics
 More Algebra for Random Variables , Correlation and Covariance, The Binomial Distribution
- Class 4 Topics
 Activity: More Al Analytics, Project: Correlation and Product Bundling
- 9. Asynchronous 5 Topics
 Dimensionality Reduction
- 10. Class 5 Topics Project: Making Big Data Manageable with Dimensionality Reduction





Outcomes that Drive Business Growth

This course will enable you to:



Solve

foundational mathematical problems in topics like probability and statistics, using both classic spreadsheets and Al tools.



Apply

statistical techniques and quantitative analysis to business problems management.



Propose

rational decisions in a variety of business contexts.

Assessment

Learners must undergo the various assessment categories below and achieve minimum stipulated grades in order to receive the Micro-Credential in Quantitative Methods:

- 1. Reflections 10%
- 2. Class Participation
 - In-class Discussion · · · · 5%
 - In-video Quizzes · · · · 5%
- 4. Problem Sets ····· 40%
- 5. Final Exam 40%

Course Structure

Asynchronous

Before the first live session and between sessions, students will watch short video lectures and complete brief homework assignments to strengthen their classroom learnings.

Live Sessions

There will be a review discussion of the asynchronous content at the beginning of each class. Following this, students will work on in-class analytics projects and participate in interactive simulations.

Who Should Take This Course

Anyone without a background in analytics but wants to develop their skills and knowledge in analytics.

Academic Requirements/Prerequisites

Quantitative Preparation course (for those with limited background in Math). Please note that a link to this course will be shared to ACE learners upon registration.

Duration

Total 8 weeks (this includes time for students to view videos before the first live session).

Course Credits

2 credit course

Fees

RM10,000

Course Commencement Date

	September 1, 2025	
7	Live-session dates i	n table below:
4	Live-session	Date and Time
	First Live-session (half day)	Sunday, September 14, 2025 10:00 a.m. – 1:30 p.m. (Malaysian Time)
2	Second Live-session (half day)	Sunday, September 21, 2025 10:00 a.m. – 1:30 p.m. (Malaysian Time)
À	Third Live-session (half day)	Sunday, September 28, 2025 10:00 a.m. – 1:30 p.m. (Malaysian Time)
	Fourth Live-session (half day)	Sunday, October 5, 2025 10:00 a.m. – 1:30 p.m. (Malaysian Time)
2	Fifth Live-session (half day)	Sunday, October 12, 2025 10:00 a.m. – 1:30 p.m. (Malaysian Time)
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Faculty

Professor Sam Flanders is an Associate Professor II of Economics at the Asia School of Business and an International Faculty Fellow at MIT. His research interests include applied microeconomic theory, industrial organisation, and empirical microeconomics.

His research focuses on matching theory – the study of how firms and workers, schools and students, and romantic partners, among others, match to one another.

Professor Flanders received his PhD in Economics from The University of North Carolina, Chapel Hill, where he is a member of the Royster Society of Fellows. Previously, he was an Assistant Professor at the Mihaylo College of Business and Economics. CSUF.

RM10,000 or approx USD 2,200*

*This ACE course is exempt from Malaysian SST for Malaysian participants, as it forms part of ASB's accredited degree program. A 6% SST charge will apply to international participants starting July 1, 2025, as announced by the Royal Malaysian Customs Department.

The ACE courses are:

 Stackable to degrees. They can be combined to gain eligibility to apply for comprehensive qualifications, culminating in the ASB Master of Business Administration (full-time 12 months) or Executive Master of Business Administration degrees (part-time 16 months).

Register now for this course:



Asia School of Business, ASB Academic, 11 Jalan Dato' Onn, 50480 Kuala Lumpur

Ministry of Higher Education Malaysia Registration No: DUO46(W)



