University of Texas at Arlington Masters of Business Administration
Academic Leveling Courses

The Academic Leveling Courses offered by Peregrine Academic Services are used by the UT Arlington College of Business as the first courses in the MBA curriculum. Course modules are used to assess whether pre-requisite requirements have been met and where appropriate provide the course work to address any gaps.

Each course includes a 20-question pre-test, 4-6 hours of online instructional content including review questions, and a 20-question post-test.

This document provides information on:

- ALC courses, sections and sub-sections required for the UT Arlington MBA program
- The expected learning outcomes for each course.

Courses required for UT Arlington MBA applicants:

Foundations of Microeconomics
Foundations of Organizational Behavior
Foundations of Quantitative Research Techniques and Statistics

Probationary admission to the UT Arlington MBA program can be earned by completing exams in all modules with a score of 85% or better. At the conclusion of each exam attempt, a score report will be made available including steps on how to print a certificate verifying your score. Please save a copy of this certificate for your records and email an additional copy to mba@uta.edu with your 10-digit UTA ID number included.

If passing scores of 85% or better are not earned after completing the pre-test, instructional content, and post-test, additional attempts will be allowed after the full course module(s) has been repurchased. All modules must be completed with passing exam scores **before** an offer of admission to the MBA program will be extended.

All modules must completed no less than two weeks prior to the first class day of a students intended semester of entry.

Please review the following pages for information regarding content and expected learning outcomes for each required module.

Course: Foundations of Microeconomics

Expected Student Learning Outcomes

At the conclusion of the course, students will be able to:

1. Understand scarcity.
2. Understand choice and how it is linked to scarcity.
3. Understand why people make trade-offs.
4. Understand opportunity cost.
5. Understand how rational people make decisions at the margins.
6. Understand incentives.
7. Understand the role of supply and demand in economics.
8. Understand the concept of elasticity in its various forms.

Course Sections and Sub-sections

- **Scarcity, Choice, and Opportunity Cost**
  - Scarcity
  - Choice
  - Trade-offs
  - Opportunity Cost
  - Thinking at the Margins
  - Incentives
- **Supply and Demand**
  - Markets
  - Law of Demand
  - Market Demand vs. Individual Demand
  - Change in Demand vs. Change in Quantity Demanded
  - Law of Supply
  - Market Supply vs. Individual Supply
  - Change in Supply vs. Change in Quantity Supplied
  - Shifts in Both Supply and Demand
- **Elasticity**
  - Price Elasticity of Demand
  - Classifications of Price Elasticity of Demand
  - Total Revenue vs. Price
  - Price Elasticity of Supply
  - Income Elasticity of Demand
  - Cross-Price Elasticity of Demand
- **Production and Costs**
  - Price Elasticity of Demand
  - Profit Maximization – Marginal Analysis
  - Accounting Profit vs. Economic Profit
  - Production Function and Marginal Productivity
  - Production Costs and Cost Curves
  - Isoquants
  - Scale
  - Cost Curve Shifts

Course: Foundations of Organizational Behavior

Expected Student Learning Outcomes

At the conclusion of the course, students will be able to:

1. Understand and appreciate the concepts related to individual behavior.
2. Understand and appreciate the concepts related to interpersonal and group behavior.
3. Recognize the importance of communication in organizations.
4. Discuss various theories and constructs of leadership.
5. Describe the basic elements of organizational structure.
6. Understand and explain motivation in organizations.
7. Understand, explain, and discuss the elements of organizational culture and change.

Course Sections and Sub-sections

- **Foundational Concepts**
  - What is Organizational Behavior?
  - Organization as a System
  - Managerial Functions and Roles
- **Understanding Behavior**
  - Individual Behavior
  - Personality
  - Groups and Interpersonal Dynamics
  - Teams
- **Communication and Leadership**
  - What is Communication?
  - Types of Organizational Communication
  - What Is Leadership?
  - Leadership Theories
- **Organizational Structure and Development**
  - Elements of Organizational Structure
  - Motivation Models and Theories
  - Elements of Organizational Culture
  - Organizational Development

Course: Foundations of Quantitative Research Techniques and Statistics

Expected Student Learning Outcomes

At the conclusion of the course, students will be able to:

1. Explain key statistical concepts: the population, the sample, and the statistical inference.
2. Define descriptive and inferential statistics.
3. Describe methods of collecting data.
4. Discuss sampling plans, sampling error, and non-sampling error.
5. Describe how to assign probability to events.
6. Explain three rules that are used to calculate the probability of more complex events from the probability of simpler events.
7. Apply Bayes' Law to calculate conditional probability.
8. Recognize the significance of the sampling distribution.
9. Review the concepts of hypothesis testing.
10. Discuss the results of a test of hypothesis.
11. Describe how to make inferences about the population mean when the population standard deviation is unknown.
12. Explain how to draw inferences about a population variance.
13. Discuss the factors that identify one-way analysis of variance.
14. Recognize the effect on the response variable of two or more factors.
15. Describe the process of selecting one alternative from a list of several possible decisions.
16. Recognize the importance of acquiring, using, and evaluating additional information in decision analysis.

Course Sections and Sub-sections

- **What is Statistics?**
    - Descriptive Statistics
    - Inferential Statistics
    - Key Statistical Concepts
    - Statistical Inference
    - Confidence and Significance Levels
- **Data Collection and Sampling**
    - Methods of Collecting Data
    - Questionnaire Design
    - Sampling and Sampling Plans
    - Sampling Error and Non-sampling Error
- **Probability**
    - Assigning Probability to Events
    - Joint, Marginal, and Conditional Probability
    - Probability Rules and Trees
    - Bayes' Law
    - Identifying the Correct Method
- **Sampling Distributions**
    - Sampling Distribution of the Mean
    - Sampling Distribution of a Proportion
    - Sampling Distribution of the Difference Between Two Means
    - From Here to Inference
- **Introduction to Hypothesis Testing**

- Concepts of Hypothesis Testing
- Testing the Population Mean When the Population Standard Deviation Is Known
- Calculating the Probability of a Type II Error
- The Road Ahead

- **Inference About a Population**
  - Inference About a Population Mean When the Standard Deviation Is Unknown
  - Inference About a Population Variance
  - Inference About a Population Proportion
- **Analysis of Variance**
  - One-Way Analysis of Variance
  - Multiple Comparisons
  - Analysis of Variance Experimental Designs
  - Randomized Block (Two-Way) Analysis of Variance
  - Two-Factor Analysis of Variance
- **Decision Analysis**
  - Decision Problem
  - Acquiring, Using, and Evaluating Additional Information