Mini-MBA Business Analytics

Briceon C. Wiley, Ph.D., Professor of Practice Yinliang (Ricky) Tan, Ph.D., Associate Professor

Department of Decision and Information Sciences Bauer College of Business of the University of Houston

As digital technology increasingly becomes a core component of businesses and society, we need to recognize the volume and granularity of data that modern firms can observe and acquire, and more importantly, the scale and precision of analytics and artificial intelligence that firms can implement to optimize decision-making. The transformation from experience-based decision making to data-driven business operations only started manifesting itself in the past few years and even the leading firms like Facebook, Amazon, and Alibaba are only scratching the surface in exploring the innovative approaches in business analytics. In this course, we seek to offer a framework for understanding the value of business analytics and how the value can be realized for firm competitiveness

This course will give you an overview into:

- Data-driven business models
- Value of data
- Agile analytics
- Problem solving and research framework
- Analytics paradigms
- Descriptive analytics
- Causal analytics
- Predictive analytics
- Prescriptive analytics
- Machine learning applications
- Large-scale field experimentation
- Decision making biases
- AI and Future of work

Specifically, the professors will cover the following four aspects of business analytics:

Briceon Wiley: Overview, value of data, data-driven business models, future of work

Briceon Wiley: Descriptive and causal analytics, experimentation

Briceon Wiley: Predictive analytics, machine learning

Ricky Tan: Prescriptive analytics, optimization