



# CHIEF TECHNOLOGY OFFICER | Program Topics

The Chief Technology Officer program curriculum covers the following topics:

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## **Topic 1** | Introduction to Program: Data, Tools, People, and Security

- Core Principles and Trends: Data to Insights to Strategy
- Core Principles and Trends: Business Analytics
- Connecting IT to Business Strategy

## **Topic 2** | Data and the Organization

- Enterprise Strategy: Objectives for Data and the Organization
- How to Leverage Data for the Organization
- Data and R&D Investment
- Cloud and Data Management

## **Topic 3** | Data to Insights to Strategy: Artificial Intelligence & Machine Learning

- IT Strategy Frameworks
- IT Strategy Processes
- Artificial Intelligence and Strategy Implications
- Machine Learning and Strategy Implications
- IoT and Strategy Implications
- Future of Technology Trends and Strategy Implications

## **Topic 4** | Leading Transformation in the Digital Age: Technology Infrastructure

- Frameworks for Technology Transformation
- Technology Transformation in the Digital Age
- Implementation Methodologies for Complex Technical Projects
- Enterprise Architecture
- Building a Digital Business Case

## **Topic 5** | Leading Transformation in the Digital Age: Managing People and Change

- Leading Enterprise-Wide Digital Change
- Driving Change and Dynamic Execution
- Power and Politics: Influence and Navigating Your Workplace Network
- Communication Styles for Influence
- Negotiations
- Cross-Functional Influence
- Multi-Issue & Shadow Negotiations

## **Topic 6** | Technology Policy, Privacy, and Security

- Security and Privacy Concerns – Strategy Considerations
- Technical and Policy Aspects of Security and Surveillance
- Where Cyber Policy and Technology Interact
- Corporate Cybersecurity
- Risk Modeling and Social Engineering
- Privacy, Security and Technical Systems

## **Topic 7** | Practicals

- Case studies and Simulations
- Workshops
- High-profile panel discussions
- Webinars by Faculty