# Chief Technology Officer Program Topics

The Chief Technology Officer program curriculum covers the following topics:

## 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

Visit the program page at: https://executive.berkeley.edu/programs/chief-technology-officer
**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