

2009-2010 AESE Program Format

Fall Quarter 2009

Essentials for Business Practice (Rady School)

- Strategic Thinking
- Finance
- Investment Planning
- Business Operations
- Marketing

Leadership Skills, Values, and Team Building (Rady School)

- Understanding Self & Others
- Building Collaboration
- Influence
- Group Dynamics
- Emotional Intelligence
- Team Building

Complexity and Large-scale Systems (Jacobs School)

- System and Event Complexity
- Complexity Case Study: The Beer Game
- Enterprise Transformation
- Iterative and Spiral Development
- Agile and Plan-driven Development
- Managing Complex Projects
- Case Study: The Oceans Observatory Initiative

Spring Quarter 2010

Patterns for Enterprise Architecting (Jacobs School)

- Introduction to Pattern Concepts
- Patterns for Enterprise Integration
- Implementing Patterns for Enterprise "Chat"
- Service Patterns
- Change Management
- Event-driven Architectures and Complex Event Processing

Decision and Risk Analysis (Rady School)

- Competing on Analytics
- Organizational Simulation
- The Real Option Approach-Case Studies
- Human Decision-Making
- Risk & Utility Theory
- Bayesian Inference
- Real Options Basics

Managing Stakeholder Relationships (Rady School)

- Build & Leverage Business Relationships
- Create Business Development Strategies
- Write Winning Proposals
- Lead 3 D Negotiations

Winter Quarter 2010

Enterprise Architecting (Jacobs School)

- Architecture Frameworks
- Enterprise Architecting and Use Cases
- Ontologies
- Service-Oriented Architectures
- Enterprise Service Bus
- SOA Security

Modeling, Simulation, & Analysis (Jacobs School)

- Architecture Description
- Structured Analysis
- UML
- Executable Architectures
- Discrete Event Dynamic Systems
- Colored Petri Nets
- Architecture Analysis and Evaluation
- SOA and IT Governance

Engineering Essentials for Open, Distributed Systems (Jacobs School)

- Business Driven Development (RSA)
- Model Driven Architecture and Design (RSA and DODAF)
- Business Process Modeling (WebSphere)
- SOA Infrastructure (Enterprise Service Business, Registry and Repository)
- Behavioral Analysis and Meta-modeling
- Exercises in Domain Modeling and Architecture Development

Team Project

The capstone team project, equivalent to four courses/year or twelve units in total, will be conducted throughout execution of the program. A topic will be selected during the first quarter of enrollment in the program and will be worked in conjunction with industrial partners. Performance on the Capstone Team Project will be used as the primary measure of the student's learning the AESE program. Progress on the project, as assessed in the context of each course, will be a major determinant for the grade assigned to the individual student. Each student will be evaluated based on their grasp of the course material and their ability to apply the course material to the team project.

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