

# 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 Workshop (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 Workshop (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 Workshop (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.

AESE Program Contact Information:

**Harold W. Sorenson**  
(858) 534-4406  
hsorenson@ucsd.edu

**Cindy Hanson**  
(858) 622-5736  
cahanson@ucsd.edu