

## **Dual Degree and Master of Science in Healthcare Decision Analysis**

**PROGRAM OBJECTIVE:** The University of Southern California (USC) has developed a graduate level program within the School of Pharmacy, as part of its expansion into more applied and analytically based health professional level education, targeting working mid-level managers and selected current and new graduates seeking to increase their technical skills and in-depth training. These programs, *Masters in Sciences in Healthcare Decision Analysis (HCDA) and Dual Degree (PharmD-MS HCDA)*, will serve to draw post graduate students from all healthcare disciplines and industry applications. The stand-alone MS and joint Dual Degree programs in Healthcare Decision Analysis are designed to increase the number and effectiveness of healthcare delivery, oversight, and management professionals who are responsible for overseeing access to healthcare and health systems, benefit design, reimbursement and delivery of care, as well as new product introduction and formulary placement. This interdisciplinary curriculum will provide students with advanced training in several sub sectors targeting pharmaceuticals, biotechnology, diagnostics and medical devices, as well as integrated healthcare systems and delivery. The full-time and Dual Degree programs are structured to serve the needs of students with science-based undergraduate and graduate degrees, seeking careers in either a professional setting, pharmaceutical/biotechnology and managed care industries or other related healthcare industry (diagnostics, devices). The part-time program is designed to permit participation of students who are currently employed in a professional business, legal or health delivery setting or in the healthcare industry, who wish to further their career and build greater technical and analytical skills.

### **MS HCDA - PharmD Program:**

#### **LEARNING OBJECTIVES (Ability Based Outcomes):**

##### **Understand Core Pharmaceutical, Economic and Business Practices:**

- Understand and Apply basic Health Economic Principles to Outcome and Efficiency
- Consider the Societal and Budget Impact of changing and future demands on healthcare system across populations and public stratification by ability to pay
- Utilize and Validate Analytical Practices for Data, Therapeutic Utility and Outcomes
- Interpret and Critique professional Clinical and Business Literature, Models and Tools

##### **Apply Clinical and Technical Knowledge to Relevant Pharmaceutical Industry Practices:**

- Develop, Integrate Data Endpoints from Product Development and Launch information
- Evaluate the Regulatory and Compliance Documents, Processes and Requirements
- Explain product Safety, Pharmaco-Vigilance and International Monitoring measures
- Solve Analytical, Outcomes, Cost Impact and Therapeutic Efficiency problems
- Advance Understanding of Health Access, Costs and Reimbursement to new and existing Therapies and patient populations

### **Demonstrate an In-depth Understanding of Product Development and Marketing:**

- Problem Solving in Pharmaceutical Product Pricing, Distribution and Access globally
- Educator to both Payers and Providers on Value and Outcomes measures
- Patient Advocacy through improved Product Distribution and Formulary Coverage
- Multi Professional Cross-Country collaboration for therapeutic Coverage and Sequencing
- Cultural Sensitivity across Healthcare Delivery and Global Regulatory Systems
- Communication between and among Industry, Providers, Payers and the Public

### **Demonstrate Professional Leadership, Strategies and Ethical Business behavior:**

- Exhibit Behaviors and Values consistent with the Trust given to: profession, industry and validated scientific discovery for Pharmaceutical, Biotechnology and Managed Care
- Professionalism in Interactions with Providers, Health Systems and Regulatory Agencies
- Professionalism in Messages and Communication to Public, Providers and Payers
- Professionalism in Interactions with Society, Foundations and International Regulators

### **Understand and Apply the Resources of Pharmaceutical, Biotechnology and Payers:**

- Optimize Safety and Business Efficacy of Therapeutic Product monitoring and measures across Payers, Delivery and Distribution systems
- Monitoring of Government and International Agencies and Healthcare Delivery Systems
- Evaluate Pricing, Value and Reimbursement agencies and procedures
- Ensure Quality of all Clinical Trial & Data Collection, Analysis, Application and Trade Communication and Marketing
- Validate Insurance Design, Patient Co-Pays and Deductibles, Premium Cost structures

### **Engage in Personal and Professional Development:**

- Self-awareness to both Peers, Profession and the Public in personal skills
- Leadership, Mentoring, Coaching and Role-Modeling in people skills
- Innovation and Entrepreneurship in Thinking, Deed and Outlook in business skills
- Develop both Tactical and Strategic skills consistent with Governmental and Industry Standards