

**APPENDIX E MS CURRICULUM**

**MS in Health-System Pharmacy Administration Curriculum (in conjunction with PGY1/PGY2 HSPA Residency Program)**

**COURSEWORK:** Total required core course credits: 18  
 Total minimum project research: 6  
 Total minimum required elective credits: 6  
 Total minimum credits to graduate: 30

<b>COURSE #</b>	<b>TITLE</b>	<b>CREDITS</b>	<b>OFFERED</b>	<b>INSTRUCTOR</b>
<b>FALL SEMESTER YEAR 1 (July to December)</b>				
PCTH 6500	Research Ethics	1	Fall	M. Munger
PCTH 6910	Project Research: Masters	1	All	
PCTH 6920	Current Issues in Health Care Leadership	1	Fall	C. Kowalchik
<b>TOTAL</b>		<b>3</b>		
<b>SPRING SEMESTER YEAR 1 (January to May)</b>				
PCTH 6891	Research Seminar II	1	Spring	N. Nickman
PCTH 6730	Operations Management	2	Spring	L. Fritz
PCTH 6750	Accounting & Financial Management for Pharmacy Leaders I	1	Spring	M. Katzourakis
<b>TOTAL</b>		<b>4</b>		
<b>SUMMER SEMESTER YEAR 1 (June to August)</b>				
PCTH 6735	Health Care Human Resources	2	Summer	L. Tyler
PCTH 6755	Accounting & Financial Management for Pharmacy Leaders II	2	Summer	M. Katzourakis
PCTH 6940	Practical Skills for Health Care Leaders	2	Summer	K. Choudray
<b>TOTAL</b>		<b>6</b>		
<b>FALL SEMESTER YEAR 2 (August to December)</b>				
<b>MUST HAVE SUPERVISORY COMMITTEE APPROVED</b>				
OIS 6040	Data Analysis and Decision Making I	1.5	Fall	
PCTH 6920	Current Issues in Health Care Leadership	1	Fall	C. Kowalchik
PCTH 6895	Survey of Hospital Pharmacy	2	Fall	L. Tyler
	Electives (3-6 credits)	3		
<b>TOTAL</b>		<b>7.5</b>		
<b>SPRING SEMESTER YEAR 2 (January to July)</b>				
<b>COMPREHENSIVE EXAM AND PREPARE FOR DEFENSE AND WRITING OF PROJECT PAPER</b>				
OIS 6041	Data Analysis and Decision Making II	1.5	Spring	
PCTH 6891	Research Seminar II	1	Spring	N. Nickman
PCTH 6910	Project Research: Masters	5	Spring	
	Electives (3-6 credits)	3		
<b>TOTALS</b>		<b>10.5</b>		

**ELECTIVES:**

Electives have to be approved by your supervisory committee. Some suggested electives are below, but you can take any graduate-level elective (5000 and above) you wish with approval

<b>COURSE</b>	<b>COURSE TITLE</b>	<b>CREDITS</b>
FPMD 6400	Public Health Policy and Administration	3
HEDU 5450	Health Care Financial Management	3
HEDU 6790	Health System Administration	3
NURS 6772	Quality Improvement in Health Care	3
PCTH 7150	Pharmacotherapy Outcomes Research	3
SW 6202	Social Change in the Health Sector	2
These represent the most popular courses in the current program, but electives are available based on the resident's interests.		
Statistics Alternative:		
EDPS 6010	Introduction to Statistics & Research Design	3

## APPENDIX F MS PROGRAM COURSE DESCRIPTIONS

### **OIS 6040 Data Analysis & Decision Making I (1.5 credits):**

This course will develop decision making abilities with data-analysis and decision models. Applications will be in the business functional areas. Students will use computers to solve business problems. Course topics will include advanced statistical analysis, regression models, decision analysis basics, and portfolio management.

### **OIS 6041 Data Analysis & Decision Making II (1.5 credits):**

This course is a continuation of Data Analysis and Decision Making I. Course topics will include advanced regression, simulation, Bayes theorem and the value of information in decision analysis.

### **PCTH 6500 Research Ethics (1 credit):**

This course is designed to introduce PhD students in the Department of Pharmacotherapy to the issues related to research ethics and demonstrate completion of required training to be allowed to perform research at the University of Utah.

### **PCTH 6730 Operations Management for Pharmacy Leaders (2 credits):**

The course will emphasize how to manage pharmacy distribution and clinical operations. Topics discussed will include analyzing process flow, measuring and improving performance, managing supply chain, contracting, and customer service. Organizational structure, strategic planning and goal setting, and benchmarking will be discussed. Using informatics, automation and technology to improve operations will be discussed. Implications of accreditation and regulatory issues will be addressed.

### **PCTH 6735 Health Care Human Resources (2 credits):**

This course will begin with discussing how one manages one's self. This will include discussing managing stress, emotional intelligence, and work styles. A variety of tools (e.g., Strength Finders, Meyers Briggs, Color Code) will be used to describe different workplace and leadership styles. The course will progress to discuss how to manage others by addressing topics such as: recruiting, retention, recognition, evaluation, employee actions, compensation, job descriptions, employee development, succession planning, and accountability.

### **PCTH 6750 Accounting and Financial Management for Pharmacy Leaders I (1 credit):**

First course in the sequence will emphasize accounting principles and skills necessary for preparing budgets, analyzing income statements and balance sheets. Course will concentrate on pharmacy department accounting and budgeting issues.

### **PCTH 6755 Accounting and Financial Management for Pharmacy Leaders II (2 credits):**

This second course in the series will build on the accounting principles in the first course and extend to overall hospital operations. Budgeting for capital, revenue cycle, and forecasting issues will be included. The course will progress to address the financial principles for pharmacy departments and health care organizations. Impact of health care reform on financial management will also be discussed.

### **PCTH 6890 Journal Club Pharmacotherapy Outcomes (1 credit):**

Reports from current Pharmacotherapy Outcomes and related literature.

### **PCTH 6891 Research Seminar (1 credit):**

Seminar on personal research or assigned literature surveys.

### **PCTH 6910 Project Research Masters (1-9 credits):**

Research required for the MS in Pharmacotherapy Outcomes Research & Health Policy.

### **PCTH 6920 Current Issues in Health Care Leadership (1 credit):**

Journal club reading contemporary articles and books on pharmacy leadership.

### **PCTH 6940 Practical Skills for Health Care Leaders (1 credit, must take at least 2 credits):**

This course is offered in workshop format with rotating topics. Potential topics include facilitating meetings, negotiation skills, marketing, advocacy, team building, and conducting root cause and failure mode analyses relevant to medication safety initiatives.