

# University of Miami

Upon the recommendation of the Graduate Faculty  
has conferred on

**Rick A. Swope**

the degree of

**Master of Science**

with all the rights, honors and privileges thereunto appertaining.  
In witness whereof, the seal of the University and the signatures  
of the President and the Dean are hereunto affixed.

Given at Coral Gables, Florida, on  
December 15th, 1995

  
President



  
Dean



CORAL GABLES, FLORIDA 33124

000 Ricky A  
NY NAME (LAST, FIRST, MIDDLE)

41 SW 87 Ave  
D1  
r/10 FL 33228

NY PERMANENT ADDRESS

COMP: ESSY: READ:  
RIKE: RIKE: RTKE: RTKE:  
PASS: PASS: PASS: PASS:

TEST INFORMATION: CLASS

ID	TITLE	LOAD	CRS ATT	CRS EARN	QTY PTS	GRD	UM CRS ID	TITLE	LOAD	CRS ATT	CRS EARN	QTY PTS	GRD
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A. ST. THOMAS UNIVERSITY 5/80

SPRING 1994 GR/M/2 MOT

162	PRODUCT PLN IMPRYM	3	3.00	3.00	11.10	A-							
51	BEHAV ORGNZATNL	3	3.00	3.00	9.00	B							
	EM GPA 3.350 SEMESTR	6	6.00	6.00	20.10								
	UM GPA 3.350 UM CUM		6.00	6.00	20.10								
	NON UMCUM		.00	.00	.00								

F SUMMER 1994 GR/M/2 MOT

71	THE MGT OF INNOVAT	3	3.00	3.00	12.00	A							
	EM GPA 4.000 SEMESTR	3	3.00	3.00	12.00								
	UM GPA 3.587 UM CUM		9.00	9.00	32.10								
	NON UMCUM		.00	.00	.00								

F1 1994 GR/M/2 MOT

72	MGT OF TECHNOLOGY	3	3.00	3.00	9.00	B							
	EM GPA 3.000 SEMESTR	3	3.00	3.00	9.00								
	UM GPA 3.425 UM CUM		12.00	12.00	41.10								
	NON UMCUM		.00	.00	.00								

RING 1995

Thomas University  
1990

01	ORG DESIGN AND THEOR	3	3.00	3.00	.00	A							
	EM GPA .000 SEMESTR	3	.00	3.00	.00								
	UM GPA 3.425 UM CUM		12.00	12.00	41.10								
	NON UMCUM		.00	3.00	.00								

SPRING 1995 GR/M/2 MOT

1E512	STA QUAL CHIRL & M	3	3.00	3.00	11.10	A-							
1M1540	BEHV ASPCT PRODUCTV	3	3.00	3.00	9.00	B							
1M1898	SELECTED TOPICS	3	3.00	3.00	9.90	B+							
	UM SEM GPA 3.333 SEMESTR	9	9.00	9.00	30.00								
	UM CUM GPA 3.386 UM CUM		21.00	21.00	71.10								
	NON UMCUM		.00	3.00	.00								

2ND SUMMER 1995 GR/M/2 MOT

1M1658	STRATEGIC MANAGEME	3	3.00	3.00	12.00	A							
	UM SEM GPA 4.000 SEMESTR	3	3.00	3.00	12.00								
	UM CUM GPA 3.483 UM CUM		24.00	24.00	83.10								
	NON UMCUM		.00	3.00	.00								

FALL 1995 GR/M/2 MOT

1E1883	PROJECT MANAGE TEC	3	3.00	3.00	9.00	B							
1E1885	ADV PRODUCTN SYSTE	3	3.00	3.00	8.10	B-							
1E1899	ADVANCED TOPICS	3	3.00	3.00	11.10	A-							
	UM SEM GPA 3.133 SEMESTR	9	9.00	9.00	28.20								
	UM CUM GPA 3.379 UM CUM		33.00	33.00	111.30								
	NON UMCUM		.00	3.00	.00								

SPRING 1997 GR/M/2 MOT

ADMISSION TO CANDIDACY FOR THE M.S. DEGREE.  
AS OF 4/30/1997

1ST SUMMER 1997 GR/M/2 MOT

DEGREE CONFERRED: MASTER OF SCIENCE  
DATE : 08/20/97  
MAJOR : MANAGEMENT OF TECHNOLOGY

END OF OFFICIAL TRANSCRIPT  
*Scott Angell*  
ASSOCIATE DEAN OF ENROLLMENT AND REGISTRATION

07/08/2002 17:04 FAX 305 547 0138

SAO UNIT I

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# The MOT Core Curriculum

The 36-credit program consists of 12 courses taken over a two-year period

## BEHAVIORAL ASPECTS OF PRODUCTIVITY

**MGT 540:** Productivity management impacts organizational strategy, efficiency, quality, and survival. Examines these varied impacts and discusses the managerial issues related to productivity measurement, organizational values, incentives, gainsharing, motivation, organizational change, and organizational politics. Taught from behavioral and Systems theory viewpoints, focusing behavioral change impacts system productivity. Supplemented with examples of corporate applications.

## MANAGEMENT OF TECHNOLOGY

**IEN 572:** Engineering, science and management principles contributing to the development of a successful framework for managing technology within an organization- nationally or internationally. The process of technological innovation, technological planning and forecasting, and socioeconomic changes are discussed.

## QUALITY THROUGH EXPERIMENTAL DESIGN

**IEN 613:** Principles and practices of quality in industry. Engineering and administrative aspects of quality programs, process control, and acceptance sampling. Application of quantitative methods to the design and evaluation of engineering and industrial systems and processes. Concepts of experimental design and total quality management are discussed.

## BEHAVIORAL AND ORGANIZATIONAL SYSTEMS

**MGT 651:** Deals with the exploration of relevant concepts, research findings, and pragmatic implications of the behavioral sciences for the management of complex socio-technical systems. Particular emphasis on the human aspect of

## NEW AND EMERGING TECHNOLOGIES

**IEN 672:** Discussion of new and emerging technologies and the process by which these technologies were developed and have evolved over time. The impact of these technologies on the competitiveness of industry with national and international implications is presented.

*Four courses will be offered from the following:*

## DESIGN OF INTEGRATED MANUFACTURING SYSTEMS

**IEN 565:** The design of integrated manufacturing systems with use of modern technologies, will include production planning and control, forecasting techniques, inventory systems, production scheduling methods, material requirement planning, plant layout and facility location, design principles of material handling, and new trends in batch and discrete-parts production.

## ORGANIZATIONAL THEORY

**MGT 652:** Describes various organizational design concepts and patterns for innovational and technological change. Provides an overview of the latest technological and research knowledge concerning the managerial skills necessary to create, plan, and control innovative technological processes and effectively integrate technological, market, and manufacturing functions.

## HUMAN FACTORS

**IEN 655:** The concepts of human-centered design of products, tasks, workplaces, environment, and organizations are emphasized. Job design from both psychosocial and human performance

managing the relationships between engineering, R&D, marketing, and other functional areas. Topics such as motivation, performance evaluation, leadership, and conflict management will be covered.

#### **BUSINESS POLICY AND STRATEGY**

*MGT 658:* Technology is considered from a top-level strategic perspective and is viewed as playing an essential role in the development and achievement of long-term competitive advantage. Focus is on both service and manufacturing sector businesses in which product and process technology serve as core elements of business strategy.

#### **PROJECT MANAGEMENT TECHNIQUES**

*IEN 663:* Covers systems theory, time management, program evaluation and review techniques, critical path method (PERT/CPM), cost control, and tradeoff analysis. The techniques and tools of project management are taught.

#### **THE MANAGEMENT OF INNOVATION**

*MGT 671:* Examines the problem of accelerating the pace of technological innovation within and across product families and the impacts of such changes on cost and product quality. The process of commercializing technology and of the managerial skills and professional expertise needed to support a strong commercial development effort, factors affecting the success and failure of product innovations, enhancements and incremental technical changes, and alternative approaches to coupling the R&D function to the marketing function and the marketplace are discussed.

perspectives and ergonomic issues relevant to hardware, software, and workplace design are considered. Emphasis is placed on how technology changes traditional work processes and the implications of these changes on organizational effectiveness.

#### **PRODUCTIVITY PLANNING AND IMPROVEMENT**

*IEN 662:* Introduction to the "Total Productivity Management" (TPM) perspective. Planning for productivity using short-term and long-term models. Improvement of productivity through technology-based techniques and their impact on total productivity through Deming philosophy, the Feigenbaum and TQC philosophy, and the Taguchi philosophy. The APIM model for total productivity optimization. "Simultaneous Engineering" or "Concurrent Engineering" strategy, and case studies are discussed.

#### **ADVANCED PRODUCTION SYSTEMS**

*IEN 665:* Covers the pertinent areas in production planning and control including the application of quality control concepts in production planning, group technology, Computer Integrated Manufacturing (CIM), scheduling and sequencing, Advanced Material Requirements Planning (MRP II), Just in Time concepts, and capacity planning. These concepts will be explored as they apply to technologically advanced systems.

#### **MARKETING, ACCOUNTING, OR FINANCE FOR TECHNOLOGY PROFESSIONALS**

*MGT 698:* Offers a broad, nonspecialist overview of some of the key functional areas which impact on the management of technology. Among the topics covered are the descriptions of the financial, accounting, and marketing processes used by the technology-based firms to treat the costs/returns associated with R&D and product innovations.