

AMA COMPUTER UNIVERSITY
SCHOOL OF GRADUATE STUDIES
MASTER OF SCIENCE IN COMPUTER SCIENCE
Revised Curriculum Effective SY 2005-2006

Pre-MSCS (for non-CS graduates)

MSCS001	Introduction to Computing *	3
MSCS002	Computer Programming *	3

CORE COURSES (18 units)

MSCS101	Data Structures and Algorithms *	3
MSCS201	Theory and Automata and Formal Languages	3
MSCS211	Theory of Programming Languages *	3
MSCS301	Numerical Methods *	3
MSCS311	Systems Analysis and Design *	3
MSCS321	Research Colloquium	3

MAJOR COURSES (12 units)

Specialization in Computer Science Theory

MSCS401	Algorithm Analysis and Design *	3
MSCS402	Artificial Intelligence / Robotics *	3
MSCS403	Analysis of Graph Algorithm *	3
MSCS404	Computational Complexity *	3
MSCS405	Modeling and Simulation *	3
MSCS406	Systems Programming *	3

Specialization in Software Development

MSCS411	Object-oriented Programming *	3
MSCS412	Software Engineering *	3
MSCS413	Database Management Systems *	3
MSCS414	Multimedia Systems Development *	3
MSCS415	Computer Graphics *	3
MSCS416	Web Page Development *	3

Specialization in Data Communications and Networks

MSCS421	Data Communications *	3
MSCS422	Advanced Data Communications *	3
MSCS423	Local Area Networks *	3
MSCS424	Wide Area Networks *	3
MSCS425	Advance Operating Systems *	3
MSCS426	Distributed Systems *	3

COMPREHENSIVE EXAMINATION		
MSCS 600	Thesis Writing	6

Total Units **36(6)**

* Note: With laboratory