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University of Toledo

MAY 03 2012

Graduate Program Requirement Revision

COLLEGE OF GRADUATE STUDIES

Contact Person

Phone (XXX-XXXX)

Email

Present

College

Dept/Academic Unit

Program Code

Program Name

Minimum number of credit hours for completion (if changed): *D*

List all courses which comprise the certificate or degree and identify term offered (Summer/Fall/Spring)

Please see pages 1 & 2 of attached list.

Identify delivery method

Proposed

College

Dept/Academic Unit

Program Code

Program Name

Minimum number of credit hours for completion (if changed): *D*

List all courses which comprise the certificate or degree and identify term offered (Summer/Fall/Spring)

The modification proposed here is to create a new "research" track within the program. The coursework and thesis will prepare the students to work in the research area.

Please see all pages of the attached list for the course work under both tracks.

Identify delivery method

Proposed Effective Term

Program Approval

Department Curriculum Authority	<input type="text"/>	Date	<input type="text"/>
Department Chairperson	<input type="text" value="David K. [Signature]"/>	Date	<input type="text" value="5/2/2012"/>
College Curriculum Authority or Chair	<input type="text" value="Theresa T. [Signature]"/>	Date	<input type="text" value="05/09/2012"/>
College Dean	<input type="text" value="Ronald S. [Signature]"/>	Date	<input type="text" value="5/03/2012"/>
Graduate Council	<input type="text" value="PL [Signature]"/>	Date	<input type="text" value="10/16/2012"/>
Dean of Graduate Studies	<input type="text"/>	Date	<input type="text"/>
Office of the Provost	<input type="text"/>	Date	<input type="text"/>

For Administrative Use Only

Effective Date	<input type="text"/>
CIP Code	<input type="text"/>
Subsidy Taxonomy	<input type="text"/>
Program Code	<input type="text"/>
Instruction Level	<input type="text"/>

**MASTER OF SCIENCE IN MANUFACTURING MANAGEMENT
COLLEGE OF BUSINESS ADMINISTRATION
PLAN OF STUDY**

OLD

Prerequisites:

<u>Content Area</u>	<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
Calculus	_____	_____	_____
Statistics through regression analysis and analysis of variance	_____	_____	_____
Background in Physics and Chemistry	_____	_____	_____
Computer systems and applications	_____	_____	_____

Foundations Level Courses:

Business Foundations -- 15 hours

At the discretion of the advisor, students can meet this requirement if they have an undergraduate or graduate business degree from an accredited institution.

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
ACCT 5000 Accounting Principles	3 hours	_____	_____	_____
MGMT 5110 Management of Organizations	3 hours	_____	_____	_____
FINA 5310 Corporate Finance	3 hours	_____	_____	_____
MKTG 5210 Economics for Business Decisions	3 hours	_____	_____	_____
MKTG 5410 Marketing Systems	3 hours	_____	_____	_____

Engineering and Manufacturing Technology Foundations -- 10 hours

At the discretion of the advisor, students can meet this requirement if they have an undergraduate or graduate degree in mechanical/production/industrial engineering or a computer science degree from an engineering program from an accredited institution.

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
MIME 5750 Work Measurement & Manufacturing Systems	3 hours	_____	_____	_____
MIME 5060 Manufacturing Engineering Statistics	3 hours	_____	_____	_____
MIME 5980 Special Topics: Manufacturing Processes	4 hours	_____	_____	_____

Manufacturing Management & Management Information Systems Core -- 21 hours

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
OPMT 6270 Simulation	3 hours	_____	_____	_____
INFS 6470 Information Technology	3 hours	_____	_____	_____
OPMT 6680 Total Quality Management and SPC	3 hours	_____	_____	_____
OPMT 6690 Manufacturing Resource Planning	3 hours	_____	_____	_____
OPMT 6720 Manufacturing Systems Design	3 hours	_____	_____	_____
OPMT 6510 Project Management	3 hours	_____	_____	_____
MGMT 6110 Long Range Strategic Planning				
OR				
BUAD 6900 Capstone	3 hours	_____	_____	_____
OR				
BUAD 6010 Assessing Emerging Business Opportunities				

OLD

Thesis and Career Oriented Electives -- 12 hours

With the permission of the advisor, select 12 credit hours of course work from the following list. At the discretion of the advisor, the student may be able to take courses not on this list.

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
INFS 6460 Management Information Systems	3 hours	_____	_____	_____
INFS 6560 Systems Analysis and Design	3 hours	_____	_____	_____
INFS 6610 Info. Storage and Retrieval Structures	3 hours	_____	_____	_____
INFS 6750 Research in IS, OM or DS	6 hours	_____	_____	_____
OPMT 6960* Master's Thesis	3 hours	_____	_____	_____
IBUS 6360 Management of Multinational Firms	3 hours	_____	_____	_____
IBUS 6490 Global Management Systems	3 hours	_____	_____	_____
HURM 6700 Human Resource Management	3 hours	_____	_____	_____

* If the master's thesis is not chosen, the student must take a comprehensive examination or complete three modules of the APICS certification examinations.

Notes:

- I. The Master's Thesis may be based upon an internship provided the following conditions are met:
 1. The Internship should take place at or near the end of the student's coursework.
 2. The internship should be with a major manufacturing firm. Students are encouraged to locate companies outside the U.S. to add an international dimension.
 3. The program director and the chair of the student's master's internship committee must approve the Internship. The committee will have two faculty members and a representative from the organization where the Internship will be done. The chair of the committee will be a faculty member.
 4. The organization sponsoring the Internship should participate in evaluating the student's performance and should permit the student to prepare a written report on the results of his/her efforts as part of the master's thesis.
 5. The student will present the Internship thesis report to the committee.

- II. After entering the program, if a student has to take more than 12 semester hours of foundation courses at the graduate level at UT, then up to 3 semester hours of this graduate coursework may be counted towards the Thesis and Career Oriented Electives Requirements (The Master's Thesis, if chosen, must be for 6 semester hours).

**MASTER OF SCIENCE IN MANUFACTURING MANAGEMENT (RESEARCH)
COLLEGE OF BUSINESS ADMINISTRATION
PLAN OF STUDY**

NEW

Student Name _____

Prerequisites:

<u>Content Area</u>	<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
Calculus	_____	_____	_____
Statistics through regression analysis and analysis of variance	_____	_____	_____
Background in Physics and Chemistry	_____	_____	_____
Computer systems and applications	_____	_____	_____

Foundations Level Courses:

Business Foundations -- 15 hours

At the discretion of the advisor, students can meet this requirement if they have an undergraduate or graduate business degree from an accredited institution.

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
ACCT 5000 Accounting Principles	3 hours	_____	_____	_____
MGMT 5110 Management of Organizations	3 hours	_____	_____	_____
FINA 5310 Corporate Finance	3 hours	_____	_____	_____
MKTG 5210 Economics for Business Decisions	3 hours	_____	_____	_____
MKTG 5410 Marketing Systems	3 hours	_____	_____	_____

Engineering and Manufacturing Technology Foundations -- 10 hours

At the discretion of the advisor, students can meet this requirement if they have an undergraduate or graduate degree in mechanical/production/industrial engineering or a computer science degree from an engineering program from an accredited institution.

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
MIME 5750 Work Measurement & Manufacturing Systems	3 hours	_____	_____	_____
MIME 5060 Manufacturing Engineering Statistics	3 hours	_____	_____	_____
MIME 5980 Special Topics: Manufacturing Processes	4 hours	_____	_____	_____

Quantitative Methods and Manufacturing Management Core -- 21 hours

<u>Course</u>		<u>Waived</u>	<u>Taken</u>	<u>Grade</u>
MFGM 8630 Management Science	3 hours	_____	_____	_____
MFGM 8860 Advanced Statistics	3 hours	_____	_____	_____
MFGM 8480 Management of Technology	3 hours	_____	_____	_____
MFGM 8690 Innovation and Technology Commercialization	3 hours	_____	_____	_____
MFGM 8830 Organizational Issues in Implementation of Technologies	3 hours	_____	_____	_____
MFGM 8890 Advanced Manufacturing Systems	3 hours	_____	_____	_____
MFGM 8490 Supply Chain and E-Business Issues in Manufacturing	3 hours	_____	_____	_____

NEW

Thesis and Career Oriented Electives -- 12 hours

With the permission of the advisor, select 12 credit hours of course work from the following list. At the discretion of the advisor, the student may be able to take courses not on this list.

Course		Waived	Taken	Grade
OPMT 6960 Master's Thesis (Required)	6 hours	_____	_____	_____
MFGM 8880 Research Methods and Theory Building	3 hours	_____	_____	_____
MFGM 8870 Seminar in Statistics/Research Methods	3 hours	_____	_____	_____
MFGM 8980 Special Topics Seminar	3 hours	_____	_____	_____
OPMT 6720 Simulation	3 hours	_____	_____	_____
OPMT 6680 Total quality Management and SPC	3 hours	_____	_____	_____
OPMT 6690 Manufacturing Resource Management	3 hours	_____	_____	_____
OPMT 6720 Manufacturing Systems Design Seminar	3 hours	_____	_____	_____
MKTG 6140 Customer Relationship Marketing	3 hours	_____	_____	_____
MKTG 8790 Integrated Marketing/CRM Seminar	3 hours	_____	_____	_____
MKTG 6150 CRM Analytics	3 hours	_____	_____	_____
MKTG 6220 Integrated Marketing Communication	3 hours	_____	_____	_____
MKTG 6230 Digital Marketing Processes and Virtual Value Networks	3 hours	_____	_____	_____
MKTG 6250 Strategic Account Management	3 hours	_____	_____	_____
MKTG 6310 Managing Innovation and Product Commercialization	3 hours	_____	_____	_____
MKTG 6320 Strategic Brand Management	3 hours	_____	_____	_____
MKTG 6330 Applied Marketing Research	3 hours	_____	_____	_____
HURM 6700 Human Resource Management	3 hours	_____	_____	_____
HURM 8740 Human Resource Strategy and Metrics	3 hours	_____	_____	_____
HURM 6710 Employment and Labor Law	3 hours	_____	_____	_____
HURM 6720 Employer-Employee Relations	3 hours	_____	_____	_____
HURM 6730 Performance Management	3 hours	_____	_____	_____
IBUS 8790 International Business Research Seminar	3 hours	_____	_____	_____
IBUS 6360 Management of Multinational Firms	3 hours	_____	_____	_____
MKTG 6400 International Marketing	3 hours	_____	_____	_____
FINA 6370 MBA International Financial Management	3 hours	_____	_____	_____
INFS 8990 Integrative Seminar	3 hours	_____	_____	_____
INFS 6470 Information Technology	3 hours	_____	_____	_____
INFS 6570 Information Systems policy and Administration	3 hours	_____	_____	_____
INFS 6930 Contemporary Topics Seminar – Outsourcing	3 hours	_____	_____	_____