



UNIVERSIDAD POLITÉCNICA DE PUERTO RICO
GRADUATE PROGRAMS IN MANUFACTURING*
2026 - 2028

COURSE	COURSE TITLE	PRE-REQUISITE	FA	WI	SP	FA	WI	SP
CORE COURSES			2026-2027			2027-2028		
GMP 6010	Professional Writing and Presentations	NONE	X	X	X	X	X	X
MMP 6000	Advanced Statistics and Quality Improvement	MGM 5700 or SC	X	X	X	X	X	X
MMP 6002	Operations Planning and Control	MGM 5700 or SC		X	X		X	X
MMP 6005	Process Engineering	NONE	X	X		X	X	
MMP 6006	Lean Manufacturing	NONE	X	X	X	X	X	X
MMP 6008	Foundations in Quality Learning and Assurance	NONE	X	X	X	X	X	X
MMP 6050	Materials Flow and Logistics	NONE	X			X		
MMP 6052	Managerial Finances and Cost Accounting	NONE		X			X	
MANUFACTURING COMPETITIVENESS								
A) Pharmaceutical Products Specialization Courses			2026-2027			2027-2028		
MMP 6110	Industry Profile and Business Management for Health Care Products	NONE		X			X	
MMP 6132	Manufacture of Pharmaceutical Solid Dosage Forms	NONE	X			X		
MMP 6224	Manufacture of Pharmaceutical Parenterals Dosage Forms	NONE		X			X	
MMP 6230	Manufacture of Pharmaceutical Semisolid Dosage Forms	NONE		X			X	
MMP 6234	GMP'S and Regulatory Issues	NONE	X			X		
MMP 6236	Packaging Technology	NONE			X			X
MMP 6564	Process Validation and Technology Transfer	NONE			X			X
B) Quality Management Specialization Courses			2026-2027			2027-2028		
MMP 6130	Six Sigma	MMP 6000	X		X	X		X
MMP 6190	Measuring and Managing Customer Satisfaction and Loyalty	MMP 6008		X			X	
MMP 6250	Audit Program Management	MMP 6008	X		X	X		X
MMP 6256	Assessment Tools to Improve Business Performance	MMP 6008	X			X		
MMP 6558	Machine and Process Characterization	MMP 6000	X		X	X		X
MMP 6570	Design and Implementation of Statistical Sampling Plans	MMP 6000		X			X	
MANUFACTURING ENGINEERING								
A) Pharmaceutical Processes Specialization Courses			2026-2027			2027-2028		
MMP 6132	Manufacture of Pharmaceutical Solid Dosage Forms	NONE	X			X		
MMP 6180	Material Handling Automation	MMP 6002		X			X	
MMP 6224	Manufacture of Pharmaceutical Parenterals Dosage Forms	NONE		X			X	
MMP 6230	Manufacture of Pharmaceutical Semisolid Dosage Forms	NONE		X			X	
MMP 6234	GMP'S and Regulatory Issues	NONE	X			X		
MMP 6236	Packaging Technology	NONE			X			X
MMP 6564	Process Validation and Technology Transfer	NONE			X			X
B) Industrial Automation Specialization Courses			2026-2027			2027-2028		
MMP 6141	Industrial Instrumentation	NONE	X			X		
MMP 6143	Process Control	NONE		X			X	
MMP 6180	Material Handling Automation	MMP 6002		X			X	
MMP 6236	Packaging Technology	NONE			X			X
MMP 6244	Process Measurement and Control Standards	MMP 6141		X			X	
MMP 6246	Industrial Systems Automation	MMP 6143			X			X
C) Quality Management Specialization Courses			2026-2027			2027-2028		
MMP 6130	Six Sigma	MMP 6000	X		X	X		X
MMP 6190	Measuring and Managing Customer Satisfaction and Loyalty	MMP 6008		X			X	
MMP 6250	Audit Program Management	MMP 6008	X		X	X		X
MMP 6256	Assessment Tools to Improve Business Performance	MMP 6008	X			X		
MMP 6558	Machine and Process Characterization	MMP 6000	X		X	X		X
MMP 6570	Design and Implementation of Statistical Sampling Plans	MMP 6000		X			X	

GRADUATE PROGRAMS IN MANUFACTURING
Continued

COURSE	COURSE TITLE	PRE-REQUISITE	FA	WI	SP	FA	WI	SP
			2026-2027			2027-2028		
ELECTIVE COURSES**								
GMP 6050	Professional Internship through COOP Program	MMCA						
GMP 6510	Research Methodology	18 Credits Approved	X	X	X	X	X	X
MMP 6145	Lean Six Sigma	MMP 6006, MMP 6130						
MMP 6162	Medical Devices Technology I	NONE			X			X
MMP 6518	Project Management	MGM 5700 or SC		X			X	
MMP 6550	Ergonomics and Human Factors in the Workplace	NONE			X			X
MMP 6552	Industrial Safety and OSHA Regulations	NONE		X			X	
MMP 6560	Organizational Behavior	NONE	X			X		
MMP 6599	Special Topics in Manufacturing	MMCA						
DESIGN PROJECT								
MMP 6700	Design Project	All Core and Specialization Courses and MMCA	X	X	X	X	X	X
MMP 6701	Design Project Extension	MMP 6700 and MMCA	X	X	X	X	X	X
THESIS								
MMP 6800	Master's Thesis	All Core and Specialization Courses and MMCA	X	X	X	X	X	X
MMP 6801	Master's Thesis Extension	MMP 6800 and MMCA	X	X	X	X	X	X

* THIS ACADEMIC OFFERING IS SUBJECT TO CHANGES

** In addition to the current list of elective courses, the student could select as an elective any course with GMP or MMP code that is not specified as a Core or Specialization course component requirement.

Legend:

X = Indicates Course will be offered this Term	SC = Similar Course
MMCA = Master's in Manufacturing Coordinator Approval	