

BOSTON UNIVERSITY
MBA/ MS Manufacturing Engineering Dual Degree Program
Planning Your Curriculum

Students pursuing the School of Management's MBA Program (GSM) and the Manufacturing Engineering Graduate Program at the College of Engineering (ENG) must give special attention to the course requirements of both programs. This memo is designed to assist you in this planning. You should meet with the Engineering faculty advisor and the academic advisor in the MBA Program before the first semester, and as needed during the program.

Requirements for the Dual Degree: Students must meet all of the requirements for the degree in each school, AND must take at least 80 credits at Boston University. Students who pass the GSM waiver exam or transfer credit for a course must take a GSM course to replace it. Students must complete at least 40 credits at the Graduate School of Management and 36 credits at the College of Engineering. The remaining four credits can be taken at either the Graduate School of Management or the College of Engineering.

MS in Manufacturing Engineering Requirements

Students must take a minimum of 36 credits (9 courses) for the ENG degree

- A minimum of 5 courses must be technical (MN 580 and EK780 do not count as technical courses);
- 3 MBA courses (AC 710/AC711, MK723/MK724, and OM725/OM726) may be counted toward the ENG degree if the Manufacturing Operations Management concentration is selected.
- Students must complete the 36 MS credits with a cumulative grade point average of at least 3.0 or 'B'.

Engineering Considerations

Availability of Summer Courses: Engineering courses are typically offered during the Fall and Spring semesters. Not many engineering courses are available during the summer. However, two MS courses and EK 520 are usually offered in Summer 1.

Taking ENG and MBA Courses Concurrently: It is advisable to take both engineering and MBA courses concurrently and for two reasons, because 1) the juxtaposition of studying in two fields helps with integrating concepts from both disciplines and 2) it avoids having to take 3 or 4 technical ENG courses at the same time.

Engineering Electives: Some ENG electives which may interest dual degree students are Quality Control (MN 518), Product Supply Chain Design (MN 550), Intellectual Assets (MN 505), Product Development (MN 513), and Product Management (MN 583). Students with an interest in a specific area of engineering may choose from elective courses in that area.

Engineering Capstone: The capstone course, MN 765, MN 777, or MN 785, is designed to integrate your technical studies. It is best to take this course the semester following the related technical courses (i.e. MN 510, MN 555, or MN 585) when the material is fresh.

MBA Requirements

Students must take 40 credits of MBA courses at the School of Management in addition to any MBA courses (AC 710/AC711, MK723/MK724, and OM725/OM726) counted toward the engineering degree. They must satisfy all of the required core courses. Courses which are waived or transferred do not count toward the 40 credit residency requirement for the MBA degree.

MBA Considerations

Team-Building in the MBA Program: Special attention is given to team-building in the first semester of full-time study in the MBA Program. In the first year, students are assigned to a cohort: a group of 50-55 students who take core courses together. Through this model, students often establish strong professional and personal bonds with their cohorted colleagues.

Prerequisite Courses: The MBA curriculum has a course sequence with a strict policy on having the appropriate prerequisite(s). Prerequisites in the part-time core courses are:

- OB 712 - None
- AC 711 - None
- FE 722 - OB712/713, AC710/711 (or concurrently)
- MK 724 - AC710/711 (or concurrently)
- QM 717 - OB712/713
- FE 730 - OB712/713 (Recommend QM 717)
- IS 711 - OB712/713, AC710/711, QM716/717
- OM 726 - OB712/713, AC710/711, QM716/717, (Recommend MK723/724 & FE721/722)

- SP 751 - OB712/713, AC710/711, MK723/724, OM725/726

Course Sequencing:

- *Full-time MBA:* In the Fall semester, OB713, AC710, QM716, MK 723 and FE721 are offered during the day for first-year full-time students. Four more core courses, IS710, FE727, OM725, and SP750 are offered during the day in the Spring semester for first-year full-time students.
- *Part-time MBA:* All of the core courses are offered during the evening in the Fall and Spring semesters, with select core courses in the Summer Session.

MBA Electives: In the Fall and Spring semesters there are many MBA electives offered, some of which are day sections. However, most electives are offered during the evening. A smaller number of electives are offered (evenings) in the Summer Session.

MBA Programs of Study

Full-time MBA Program (40 credits)

OB713 Managing Organizations & People	(3 credits)
AC710 Financial Reporting & Control	(3 credits)
FE721 Financial Management	(3 credits)
MK723 Marketing Management	(3 credits)
QM716 Data Analysis for Managerial Decision-Making	(3 credits)
FE727 Economics & Management Decisions	(3 credits)
IS710 IT Strategies for a Networked Economy	(3 credits)
OM725 Creating Value through Operations & Technology	(3 credits)
SP750 Competition, Innovation & Strategy	(3 credits)
SP700 Business Law and Ethics	(2 credits)
ES704 Career Toolkit	(2 credits)
ES700 Executive Presentations	(1 credit)
ES701 Executive Written Communication	(1 credit)
ES705 Career Portfolio Program	(1 credit)
Two Additional GSM 3-credit Electives	(6 credits)

Part-time MBA Program (40 credits)

OB712 Managing Organizations & People	(4 credits)
AC711 Financial Reporting & Control	(4 credits)
FE722 Financial Management	(4 credits)
MK724 Marketing Management	(4 credits)
QM717 Data Analysis for Managerial Decision-Making	(4 credits)
FE730 Economics & Management Decisions	(4 credits)
IS711 IT Strategies for a Networked Economy	(4 credits)
OM726 Creating Value through Operations & Technology	(4 credits)
SP751 Competition, Innovation & Strategy	(4 credits)
SP700 Business Law and Ethics	(2 credits)
One of the following:	(1 credit)
ES700 Executive Presentations	
ES701 Executive Written Communication	
One of the following:	(1 credit)
ES711 Career Coaching	
ES713 Career Exploration	
ES715 Developing Your Career Network	
ES717 Creating Your Professional Portfolio	

Overlap between ENG and MBA Curricula

Dual Degree students who have had ENG EK 500 and MN 518 may waive the GSM QM716/QM717 course (but they must fulfill the 40 credit MBA Program residency by taking another GSM course to replace it). However, dual degree students who have taken all three courses have found QM 716 useful because of the application examples it provides.

Dual Degree students are matriculated in both schools at the same time, and are considered to be full members of both student bodies. Students are eligible to register for courses in both schools the university designates student enrollment to ENG for two semesters and to the MBA Program for three semesters. During the ENG enrollment when an advising code is required to register, registration for MBA courses may be blocked until the student obtains the necessary advising code from the ENG advisor.

Summer Options

It is possible to complete the 80 credits for the ENG and MBA degrees by taking courses in the summer session(s) following the first and/or second years(s). Please see the advisors in both schools regarding exceptions to standard course planning.

It is also possible to gain valuable experience during the summer(s) by pursuing an engineering co-op or a management internship. More information about opportunities for hands-on experience may be obtained from the Career Center at the School of Management and the School of Engineering.

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