

Management EFA

Industrial Engineers are often tasked with managerial tasks, project management, and financial assessments, as they relate to project budgets, cost calculations, and optimization criteria. The Management EFA prepares students for a career in business management, and allows for completing all requirements for the Minor in Business Administration. Information on the Business Administration Minor can be found at https://tippie.uiowa.edu/sites/tippie.uiowa.edu/files/documents/business_minor_2016.pdf. The following table explains the requirements for a Business Minor, and how they can be satisfied by undergraduate students in the Industrial Engineering (IE) program. It can be seen that four courses for the Business Minor are satisfied by courses that are required in the EFA and two as part of the GEC. Principles of Microeconomics ECON:1100 and Principles of Macro Economics ECON:1200 can be taken as part of the General Education Component (GEC).

The following courses are required for Business Minor:

Course #	Required for Business Minor	SH	Equivalent for IE Majors	SH
MATH:1380	Calculus & Matrix Algebra for Business	4	MATH:1550 Engineering Mathematics I	4
STAT:1030	Statistics for Business	3-4	STAT:2020 Prob & Stat for Engrs	3
ECON:1100	Principles of Microeconomics	4	Take as part of GEC	4
ECON:1200	Principles of Macroeconomics	4	Take as part of GEC	4
ACCT:2100	Introduction to Financial Accounting	3	Take as part of EFA	3
ACCT:2200	Managerial Accounting	3	Take as part of EFA	3
MGMT:2000	Introduction to Law	3	Take as part of EFA	3
MGMT:2100	Introduction to Management	3	Take as part of EFA	3
MSCI:1500	Business Computing Essentials	2	ENGR:1300 Engineering Problem Solving II	3
MKTG:3000	Introduction to Marketing Strategy	3	Take as part of EFA	3
FIN:3000	Introductory Financial Management	3	IE:2500 Engineering Economy	3
Total hours required:		35-6		36

The Management EFA schedule accommodating the Business Minor should be designed as shown in the following table. The Math/Science Elective are listed in the last table. The 3000-level engineering course in Semester 8 allows students to gain advanced knowledge in an engineering topic of their choice.

The following courses are required for the Management EFA:

Semester	Course #	EFA Course	Session	SH	Pre-/Co-Requisites
4 (Spring)	ACCT:2100	Intro to Financial Accounting	All	3	Sophomore standings
5 (Fall)	ACCT:2200	Managerial Accounting	All	3	ACCT:2100 and ECON:1100 and MATH:1550
7 (Fall)	MGMT:2000	Introduction to Law	All	3	Sophomore standings
8 (Spring)	MGMT:2100	Introduction to Management	All	3	Sophomore standing
8 (Spring)	MKTG:3000	Intro to Marketing Strategy	All	3	ECON:1100; Junior standing
8 (Spring)		Math/Science Elective		3	
8 (Spring)		Above 3000-level Engineering course		3	

The following courses are Math/Science electives:

Course #	Course	SH	Pre-/Co-requisites
PHYS:2704	Physics IV	3	MATH:1860 and PHYS:2703
CHEM:1120	Principles of Chemistry II	4	CHEM:1110
STAT:3210	Experimental Design & Analysis	3	STAT:3200
MATH:3800	Elementary Numerical Analysis	3	MATH:1560 and MATH:2550
MATH:3550	Engineering Mathematics V	3	MATH:1560 and MATH:2550
BIOL:1411	Foundations of Biology	4	CHEM:1110

For further information, please contact: Professor Yong Chen, Department of Industrial Engineering and Systems Engineering, University of Iowa, Iowa City, IA 52242, Tel. (319) 334-0811, e-mail: yong-chen@uiowa.edu.

**The sessions listed are typical but are not guaranteed to be taught