

Suggested course schedule for Industrial Mathematics concentration

1 st Year	
1 st Semester.....17	2 nd Semester.....16
MATH 100.....1	MATH 208.....4
ENGR 101.....3	ENGR 102.....3
ENGL 101.....3	BADM 150.....3
MATH 155.....3	ECON 205.....3
MATH 207.....4	MATH 354.....3
General Studies.....3	
2 nd Year	
1 st Semester.....17	2 nd Semester.....17
MATH 321.....3	MATH 309.....4
CIS 234/287.....3	MATH 310.....4
ENGR 221/222.....4	ENGR 351.....3
PHYS 221/221L.....4	ECON 206.....3
ENGL 104.....3	General Studies.....3
3 rd Year	
1 st Semester.....16	2 nd Semester.....16
MATH 318.....3	MATH 433.....3
PHYS 222/222L.....4	ENGR 326.....3
MATH 329.....3	ENGR 243.....3
ENGR 241.....3	ENGR 305/CHEM 207,207L.....4
General Studies.....3	ENGR 242.....3
4 th Year	
1 st Semester.....15	2 nd Semester.....14
MATH 254.....3	MATH 392.....3
MATH 307.....3	General Studies.....11
BADM 310.....3	
General Studies.....6	

Some of the general studies requirements could be taken during Summer semester as and when the courses are offered. This would leave more time to concentrate on upper division courses.

Curriculum for a Comprehensive Major in Mathematics

Industrial Math

Total hours required..... 127

Required General studies:17

ECON 205	Principles Macroeconomics	3
ENGL 104	Science and Technical Writing.....	3
MATH 155	Discrete Mathematics.....	3
PHYS 221,221 L	General physics I.....	4
PHYS 222, 222 L	General Physics II.....	4

Mathematics requirements..... 41

MATH 100	Freshman Seminar	1
MATH 207	Calculus I.....	4
MATH 208	Calculus II	4
MATH 254	Discrete Math.....	3
MATH 307	Linear Algebra.....	3
MATH 309	Calculus III.....	4
MATH 310	Differential Equations.....	4
MATH 318	Numerical Analysis	3
MATH 321	Probability and Statistics.....	3
MATH 329	Mathematical Modeling	3
MATH 354	Operations Research	3
MATH 392	Internship in Mathematics	3
MATH 433 ⁺	Applied Mathematics.....	3

A minimum grade of C in MATH 207 is required

+ New course

Engineering requirements..... 25

ENGR 101	Engineering I.....	3
ENGR 102	Engineering II	3
ENGR 241	Engineering Statics.....	3
ENGR 242	Engineering Dynamics	3
ENGR 221, 222	Engineering Circuits & Lab.....	4
ENGR 243	Mechanics of Materials.....	3
ENGR 326	Linear Systems	3
ENGR 351	Fluid Mechanics	3

Additional Requirements

Total Requirements:.....7-8

CHEM 207, 207L	General Chemistry	4
CIS 234	Introduction to Networking	3
CIS 287	System Analysis and Design.....	3
ENGR 305	Digital Logic Design	4

Required Courses from other departments

Total requirements:.....9

BADM 150	Introduction to Business	3
BADM 310	Principles of Management	3
ECON 206	Principles of Microeconomics	3