

**Table D10 Curriculum Flowcharts with Management and Focus Electives List
1999-2001 Catalog Suggested Course Sequence**

Semester 1		Semester 2		Semester 3		Semester 4	
	Math 165 (4) Placement		Math 166 (4) C- or better in Math 165		IE 248 (3) Concurr. Enrollment of Mat E 271		IE 271 (4) Physics 221
	Engr 161 (3) Credit or Enrollment in Math 165		Phys 221 (5) Credit or Enrollment in Math 166		Mat E 271 (3) Math 166 Phys 221 Chem 167 or 177		Stat 231 (4) Math 166
	Chem 167 (4) Placement		SSH Elec (3)		Math 265 (4) C- or better in Math 166		Math 266 (3) C- or better in Math 166
	Lib 160 (0.5)		Engl 105 (3)				
	ComSt 214 (3) or SpCm 212		IE 101 (R)		Phys 222 (5) Phys 221 Math 166		SSH Elec (3)
	Engl 104 (3)						
	Engr 101 (R)						
Total Crs.	17.5	Total Crs.	15	Total Crs.	15	Total Crs.	14

Applicable prerequisites and corequisites are listed under each course.

In the rectangles to the left of the courses place the semester and year taken, i. e., F99.

1999-2001 Catalog Suggested Course Sequence (cont.)

Semester 5		Semester 6		Semester 7		Semester 8	
	IE 361 (3) Stat 231 or 401		IE 313 (3) Math 266 Stat 231		IE 341 (3) IE 312 Stat 231		IE 419 (3) IE 313
	IE 312 (3) Math 266		EE 441 (4) Physics 222 Math 266		Focus Elec (3) Prerequisite?		Focus Elec (3) Prerequisite?
	EM 301 (4) Math 166 Physics 221		IE 305 (3) Math 166		English 314 (3) English 105		Mgmt Elec (3) Prerequisite?
	IE 348 (3) IE 248		IE 443 (3) IE 312, 313*, 348		IE 448 (3) IE 443		SSH Elec (3) Prerequisite?
	SSH Elec (3) Prerequisite?		Mgmt Elec (3) Prerequisite?		ME 330 (3) Math 265 Physics 222		IE 441 (3) IE 271, 305, 312, 313, and 348
Total Crs.	16	Total Crs.	16		15		15

* IE 313 and 443 can be taken concurrently.

Applicable prerequisites and corequisites are listed under each course.

In the rectangles to the left of the courses place the semester and year taken, i.e., F99.

1999-2001 Management and Focus Electives List

Management Electives: ACCT 284 MIS 330
 IE 408 MGMT 370

Focus Electives: The IMSE curriculum provides students with the opportunity to obtain depth in a topic area of their choice. You may select two courses from the courses listed below.

- ❑ **Manufacturing** which is concerned with the design, analysis, operation, and control of manufacturing processes and systems.

IE 439	IE 544	MAT E 331	AERO E 423
IE 449	IE 546	MAT E 351	AG E 469
IE 462	IE 573	MAT E 362	CHEM E 470
IE 466	MAT E 273	ME 411	
IE 479/579	MAT E 318	ME 418	
IE 542	MAT E 321	EE 431	

- ❑ **Operations Research** which is concerned with the design and analysis of quantitative models and methods having applications in production and service systems such as inventory control, scheduling, transportation, and logistics.

IE 508	IE 519	MATH 304	STAT 432
IE 512	IE 534	MATH 314	
IE 514	IE 541	MATH 378	

- ❑ **Human Factors** which is concerned with the relationships between people and their work tasks, machines, information, and environment.

IE 471	IE 521	IE 577	IE 572X
IE 476	IE 575	PSYCH 450	IE 576X

- ❑ **Engineering Management** which is concerned with the strategies necessary for solving internal and external problems of a company in areas such as production, quality, project management, sales, and marketing strategies.

ACCT 285	IE 409	FIN 350	MGMT 471
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- ❑ **General** is an option for students who do not want to specialize in any of the four focus areas above; you can choose to combine electives from a number of areas.