

BSET-MCT CURRICULUM

Mathematics and Physical & Natural Sciences		29
CSC 1050	(CL) Introduction to C & UNIX	2
MAT 1800	(MC) Elementary Functions	4
MAT 3430	Applied Differential and Integral Calculus	4
MAT 3450	Applied Calculus and Differential Equations	4
CHM 1020	(PS) General Chemistry	4
PHY 2130	(PS) General Physics	3
PHY 2131	General Physics Laboratory	1
PHY 2140	(PS) General Physics	3
PHY 2141	(General Physics Laboratory	1
	(LS) Life Science	3
Upper Division Technical Core Courses		42
ET 3030	Statics	3
ET 3050	Dynamics	3
ET 3850	Reliability & Engineering Statistics	3
ET 3870	Engineering Economic Analysis	3
ET 5870	Project Management	3
ET 4999	(WI)(ST) Senior Project	3
MIT 3500	Manufacturing Processes Laboratory	1
MCT 3010	Instrumentation	3
	Technical Specialty Area (see table below)	12
	Upper Division Electives	8
Lower Division Technical Transfer		30
ET 2140	Computer Graphics	3
ET 2200	Engineering Materials	3
EET 2000	Electrical Principles	3
	Other Lower Division Technical Courses	21
Written and Oral Communication		9
ENG 1020	(BC) Basic Composition	3

ENG 3050	(IC) Intermediate Writing	3
ENG 3060	(OC) Oral Communication	3
Social Sciences and Humanities		18
	(CT) Critical Thinking Exam	0
	(HS) Historical Studies	3
	(AI) American Society & Institutions	3
	(SS) Social Science	3
	(FC) Foreign Culture	3
	(VP) Visual & Performing Arts	3
	(PL) Philosophy & Letters	3
Total		128

Technical Specialty Required Courses
(Select One Track)

Design Track		12
MCT 3100	Mechanics of Materials	3
MCT3410	Kinematics & Dynamics of Machine	3
MCT 4150	Applied Thermodynamics	3
MCT 4400	Design of Machine Elements	3
Energy Track		12
MCT 4150	Applied Thermodynamics	3
MCT 4180	Fluid Mechanics	3
MCT 4210	Heat Transfer	3
MCT 5210	Energy Source & Conversion	3
Manufacturing Track		12
MIT 3520	Manufacturing Processes Lecture	2
MIT 3600	Process Engineering	3
MIT 4700	Computer Aided Manufacturing	3
MIT 4800	Statistical Quality Control	4