

# MichiganTech School of Technology

## Academic Planning Sheet

2007-08

## Industrial Technology

For your planning convenience, this form is also available on-line at: <http://www.tech.mtu.edu/academic.htm>

### Math - Required

**Total: 8**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
MA 1032	Data, Functions, & Graphs Plus		f/s/su			4 (0-3-2)
MA 2720	Statistical Methods	MA 1020 or MA 1032 or MA 1031 / non-SMA	f/s/su			4 (0-4-0)

### Science - Required

**Total: 8**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
PH 1140	Applied College Physics I	MA 1031 or MA 1032 or MA 1140(C) or MA 1160(C) or MA 1161(C) / SoT	s			3 (3-0-0)
PH 1141	Applied College Physics I Lab	PH 1140 / SoT majors only	s			1 (0-0-2)
PH 1200	Physics by Inquiry II	PH 1100 or 1111 or 1141 or 1161	f/s/su			1 (0-0-2)
PH 1240	Applied College Physics II	PH 1140 / SoT majors only	f			3 (3-0-0)

### General Education - Required

**Total: 13**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
UN 1001	Perspectives on Inquiry	FR	f/s/su			3 (0-3-0)
UN 1002 OR	World Cultures OR	FR	s/su			4 (3-0-3) OR
UN 1003 & HU....)	(World Cultures Activities AND 1 yr Foreign Language)	FR	s f/s			1 (0-0-2) 3 (0-3-0)
UN 2001	Revisions: Oral/Written/Visual Communication	UN 1001 & UN 1002 or UN 1003 / FR,SO	f/s/su			3 (0-3-0)
UN 2002	Institutions	SO	f/s/su			3 (3-0-0)

### General Education Distribution Courses (Choose from distribution list - Consult with your advisor)

View course choices: [http://www.admin.mtu.edu/em/students/plan/dist\\_courses.pdf](http://www.admin.mtu.edu/em/students/plan/dist_courses.pdf)

**Total: 15**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
						3
						3
						3
						3
						3

### Industrial Technology Major - Required

**Total: 33**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
BA 3600	Quality Management	BA 2100 or MA 2710 or MA 2720 or MA 3710	demand			3 (3-0-0)
BA 3620	Project Management	FR, SO	f/s/su			3 (3-0-0)
BA 3700	Organizational Behavior	FR	f/s/su			3 (3-0-0)
EC 3400	Economic Decision Analysis	UN 2002 / JR,SR / non-SBE	f/s/su			3 (3-0-0)
HU 3120	Technical and Scientific Communication	UN 1002 or UN 1003 / JR,SR	f/s/su			3 (0-3-0)
MET 4200	Design of Experiments	MA 2720 or BA 2100 / SO, JR,SR	f/su			3 (3-0-0)
MET 4460	Product Design and Development	MET 3450 / JR,SR	f/s			3 (0-2-2)
MET 4500	Lean Manufacturing, Principles, Concepts and Applications	JR,SR	s-even*			3 (2-0-2)
MET 4580	Facilities Planning, Layout and Process Flow	SR	demand			3 (0-2-1)
MET 4590	Production Planning and Control	SR	demand			3 (0-3-0)
TE 3956	Industrial Safety Management	JR,SR	f/s			3 (0-3-0)

\*Calendar year course is offered

**NOTE: This worksheet is for planning purposes and does not supersede university catalog requirements.**

**Technical Emphasis – approved technical coursework from a regionally accredited associate's degree, the following electives, or as approved by the department**

**Total: 34-48**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
BA 2500 (c/emp)	Business Law I		f/s/su			3 (3-0-0)
BA 2700	Business Problem Solving	SO,JR,SR	f/s/su			3 (0-3-0)
CS 1121	Intro to Computer Science I	MA 1032(C) or MA 1031(C)	f/s/su			3 (0-2-2)
CS 1129	Introduction to Computer Science II in C++	CS 1121 / non-ECP,SCS, SCSY,SSEN	f/s			3 (0-3-0)
EET 1120 (emp)	Circuits I	MA 1031(C) or MA 1032(C)	f/s			4 (0-3-2)
EET 1411 (cmp)	Basic Electronics	MA 1030(C) / MET,TCSA	s/su			4 (0-3-2)
EET 2120 (emp)	Circuits II	EET 1120 & MA 1160(C) or 1161(C) or 1135(C) or 1140(C)	f/s/su			4 (0-3-2)
EET 2141 (c/emp)	Digital Electronic & Microprocessor Fundamentals	EET 1120 or 1411 or 2311	s			4 (0-3-3)
EET 2220 (emp)	Electronic Devices & Circuits	EET 2120	f/s			4 (0-3-3)
EET 3131	Instrumentation	EET 1411 or 2311 or 2220	s			3 (0-2-2)
EET 3373 (emp)	Intro to Programmable Controllers	EET 2311 or EET 2120 & EET 2141 or EET 2411	f			3 (0-2-3)
EET 3700	Electrical Power, Machinery, and PLC Basics	EET 1411 or 2311 or 2220 or EE 3010 / non-TEE,TEET,TEM	s			4 (0-3-3)
EET 4141	Microcomputer Interfacing	EET 2141 or CS 1121	f			4 (0-3-3)
EET 4373	Advanced Programmable Controllers	EET 3373	s			4 (0-2-3)
MA 1161	Calculus Plus with Technology I	MA 1032 or MA 1031	f/s			5 (0-5-0)
MEEM 2500 (cmp)	Integrated Design and Manufacturing	ENG 1102 & MY 2100(C) / non-ENG,EME,EBE	f/s			4(0-3-3)
MET 1540	Materials Science	CH 1000 or CH 1100	s			3 (0-3-0)
MET 2120	Statics and Strength of Materials	MA 1140(C) or 1160(C) or 1161(C) & PH 1140	f			4 (0-3-2)
MET 2400 (c/emp)	Practical App in Parametric Model	TE 1010	s/su			3 (0-2-2)
MET 4400	Simulation Methods	MA 2720 or 2710 or 3710	s			3 (0-2-2)
MET 4550	Computer Aided Manufacturing	MEEM 2500 & MET2400 / JR,SR	s-odd*			3 (0-2-2)
MET 4660	Practical Applications in FEA	MET 3450 & MET 2400	demand			3 (0-2-2)
MET 4780	Advanced Manufacturing	MEEM 2500 / JR,SR	s-odd*			3 (0-2-3)
TE 1010	Technology Computer Application		f/s			2 (0-2-0)
UN 3002	Undergraduate Cooperative Education Laboratory	SO,JR,SR / Instructor & Dept Approval / non-Graduate level	f/s/su			2

**Free Electives – may include courses taken as part of an associate's degree and not previously counted as a major requirement, technical concentration or general education requirement.**

**Total: 0-14**

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
						3
						3
						3
						3
						2

**Total Credits Required:****125****Current Credit Total:****Total Credits Needed:****Co-curricular Activities** (Courses may **NOT** be repeated)**Unit Total: 3**View course choices: [http://www.aux.mtu.edu/phys-ed/co-curricular\\_classes/co-curricular.htm](http://www.aux.mtu.edu/phys-ed/co-curricular_classes/co-curricular.htm)

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Units
						0.5
						0.5
						0.5
						0.5
						0.5
						0.5

\*Calendar year course is offered

Revised 8/24/2007

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