

MichiganTech School of Technology

Academic Planning Sheet 2007-08

Mechanical Engineering Technology

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

Math - Required

Total: 16

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
MA 1032	Data, Functions, and Graphs Plus		f/s/su			4 (0-3-2)
MA 1160	Calculus with Technology I	MA 1032 or MA 1031	f/s/su			4 (0-4-0)
MA 2160	Calculus with Technology II	MA 1160 or MA 1161 or MA 1135 or MA 1140	f/s/su			4 (0-4-0)
MA 2720	Statistical Methods	MA 1020 or MA 1032 or MA 1031 / non-SMA	f/s/su			4 (0-4-0)

Science - Required

Total: 12

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
CH 1100	General Chemistry		f/s/su			4 (3-0-3)
PH 1140	Applied College Physics I	MA 1031 or 1032 or 1140(C) or 1160(C) or 1161(C) / SoT majors	s			3 (3-0-0)
PH 1141	Applied College Physics I Laboratory	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, and 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)

Total: 15

View course choices: http://www.admin.mtu.edu/em/students/plan/dist_courses.pdf

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
HU 3120	Technical and Scientific Comm	UN 1002 or UN1003 / JR, SR	f/s/su			3 (0-3-0)
						3
						3
						3
						3

Mechanical Engineering Technology Major - Required

Total: 60

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
BA 2330 OR	Accounting I OR	SO, JR, SR	f/s/su			3 (3-0-0) OR
BA 3610	Operations Management	BA 2100 or MA 2710 or 3710	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)
EET 1411	Basic Electronics	MA1030(C)	s/su			4 (0-3-2)
EET 3131	Instrumentation	EET 1411 or 2311 or 2220	s			3 (0-2-2)
EET 3700	Electrical Power, Machinery & PLC Basics	EET 1411 or 2311 or 2220 or EE 3010 / non-TEE, TEET, TEM	s			4 (0-3-3)
MEEM 2500	Integrated Design & Manufacturing	ENG 1102 & MY 2100(C) / non-ENG, EME, EBE	f/s			4 (0-3-3)
MET 1540	Materials Science	CH1000 or CH1100	s			3 (0-3-0)

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

Mechanical Engineering Technology (TMET)

MET 2120	Statics & Strength of Materials	MA 1140(C) or MA 1160(C) or MA 1161(C) & PH 1140	f			4 (0-3-2)
MET 2130	Dynamics	MET 2120	s			3 (0-3-0)
MET 2400	Practical App in Parametric Modeling	TE 1010	s/su			3 (0-2-2)
MET 3242	Machine Design I	MAT 2215 or MA 2140 or MA 2160 & MET 2130	f			3 (0-3-0)
MET 3250	Applied Fluid Mechanics	MET 2130	f			4 (0-3-2)
MET 3450	Machine Design II	MET 3242	s			4 (0-4-0)
MET 3600	Applied Thermodynamics	MET 3250 / JR,SR	s			3 (0-2-2)
MET 4200	Design of Experiments	MA 2720 or BA 2100	f/su			3 (3-0-0)
MET 4460	Product Design and Development	MET 3450 / JR,SR	f/s			3 (0-2-2)
MET 4670	Senior Project	MET 4460 / Instructor Approval / SR	f/s/su			3 (0-0-6)
MET 4999	Senior Project Seminar – P/F	SR	f/s			1 (0-1-0)
TE 1010	Technology Computer Applications		f/su			2 (0-2-0)

Technical Electives – (Choose 12 credits minimum from the following:)

Total: 12

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
MET 4300	Applied Heat Transfer	MET 3600 / JR,SR	f			3 (0-3-0)
MET 4377	Applied Fluid Power	MET 3250	f-odd*			3 (0-2-2)
MET 4390	Internal Combustion Engines	MET 3600(C) or MET 3361	s-even*			3 (0-2-2)
MET 4400	Simulation Methods	MA 2720 or MA 2710 or 3710	s			3 (0-2-2)
MET 4500	Lean Mfg, Principles, Concepts & App	JR,SR	s-even*			3 (2-0-2)
MET 4550	Computer Aided Manufacturing	MEEM 2500 & MET 2400 / JR,SR	s-odd*			3 (0-2-2)
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)
MET 4600	Computer Aided Methods in Thermal Science	MET 3600 & MET 4300(C) / JR,SR	demand			3 (0-3-0)
MET 4660	Applied Finite Element Analysis	MET 2400 & MET 3450 / JR,SR	demand			3 (0-2-2)
MET 4780	Advanced Manufacturing	MEEM 2500 / JR,SR	s-odd*			3 (0-2-3)
MET 4900	Alternative Energy Systems	MET 3600 or MET 3361 / JR,SR	s-odd*			3 (0-3-0)
TE 3956	Industrial Safety Management	JR,SR	f/s			3 (0-3-0)
UN 3002	Undergraduate Cooperative Education Laboratory	SO,JR,SR / Instructor & Dept Approval / non-Graduate level	f/s/su			2
ENT XXXX	Enterprise Project Work	SO,JR,SR	f/s/su			1-12 (0-0-3)

Free Electives

Total: 0

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
						0

Total Credits Required:	128
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

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

Revised 9/10/2009

*Calendar year course is offered

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