

MichiganTech School of Technology

Academic Planning Sheet

2009-10

BS Mechanical Engineering Technology

For your planning convenience this form is also available on-line at: [http:// www.tech.mtu.edu/academic.htm](http://www.tech.mtu.edu/academic.htm)

Math - Required

Total: 16-17

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
MA 1032	Data, Functions, and Graphs Plus		f/s/su			4 (0-3-2)
MA 1160 OR	Calculus with Technology I OR	MA 1031 or MA 1032	f/s/su			4 (0-4-0) OR
MA 1161	Calculus Plus with Technology I	MA 1031 or MA 1032	f/s			5 (0-5-0)
MA 2160	Calculus with Technology II	MA 1160 or MA 1161	f/s/su			4 (0-4-0)
MA 2720	Statistical Methods	MA 1031 or MA 1032	f/s/su			4 (0-4-0)

Science - Required

Total: 12

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
CH 1150	University Chemistry I		f/s/su			3 (3-0-0)
CH 1151	University Chemistry I Laboratory	CH 1150(C)	f/s/su			1 (0-0-3)
PH 1140	Applied College Physics I	MA 1031 or MA 1032 or MA 1160(C) or MA 1161(C)	s			3 (3-0-0)
PH 1141	Applied College Physics I Laboratory	PH 1140(C)	s			1 (0-0-2)
PH 1200	Physics by Inquiry II	PH 1141	f/s/su			1 (0-0-2)
PH 1240	Applied College Physics II	PH 1140	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	f/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)

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

Total: 15

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
HU 3120	Technical and Scientific Comm	UN 1002 or UN 1003 / JR, SR	f/s/su			3 (0-3-0)
						3
						3
						3
						3

Mechanical Engineering Technology Major - Required

Total: 63

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
BA 2330	Accounting I	SO, JR, SR	f/s/su			3 (3-0-0)
EC 3400	Economic Decision Analysis	JR, SR	f/s/su			3 (3-0-0)
EET 1411	Basic Electronics	MA 1030(C) or MA 1031(C) or MA 1032(C) or MA 1160(C) or MA 1161(C)	f/s			4 (0-3-2)
EET 2233	Electrical Machinery	EET 1411	f			4 (0-3-3)
EET 3131	Instrumentation	EET 1411 or EET 2220	s			3 (0-2-2)
MEEM 2500	Integrated Design & Manufacturing	MET 1540(C) & TE 1020	f/s			4 (0-3-3)
MET 1540	Materials Science	CH 1000 or CH 1150 & CH 1151	s			3 (0-3-0)

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

MET 2120	Statics & Strength of Materials	(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 1020 / SO	f/s/su			3 (0-2-2)
MET 3242	Machine Design I	MA 2160 & MET 2130	f			3 (0-3-0)
MET 3250	Applied Fluid Mechanics	MET 2130	f			4 (0-3-2)
MET 3451	Machine Design II	MET 3242	s			3 (0-3-0)
MET 3600	Applied Thermodynamics	MET 3250 / JR,SR	s			3 (0-2-2)
MET 4200	Design of Experiments	MA 2720 / SO,JR,SR	f/su			3 (3-0-0)
MET 4300	Applied Heat Transfer	MET 3600 / JR,SR	f			3 (0-3-0)
MET 4460	Product Design and Development	JR,SR / Instructor Approval	f/s			3 (0-2-2)
MET 4670	Senior Project	MET 4460 / SR / Instructor Approval	f/s/su			3 (0-0-6)
MET 4999	Professional Practice Seminar	SR / <i>Pass/Fail</i>	f/s			1 (0-1-0)
TE 1020	Technology Computer Applications		f/su			3 (0-2-2)

Technical Electives – (Choose 8 credits minimum from the following:)

Total: 8-9

Course	Title	Prerequisites/Restrictions	Offered	Taken	Grade	Credits
EET 3373	Intro to Programmable Controllers	EET 1411	f			3 (0-2-3)
ENT XXXX	Enterprise Project Work	SO,JR,SR	f/s/su			8-9 (0-0-3)
MET 4377	Applied Fluid Power	MET 3250	s-even*			3 (0-2-2)
MET 4390	Internal Combustion Engines	MET 3600	f-odd*			3 (0-2-2)
MET 4400	Simulation Methods	MA 2720	s-even*			3 (0-2-2)
MET 4500	Lean Mfg, Principles, Concepts & App	JR,SR	s			3 (2-0-2)
MET 4550	Computer Aided Manufacturing	MEEM 2500 & MET 2400 / JR,SR	f-odd*			3 (0-2-2)
MET 4660	CAE and FEA Methods	MET 2400 & MET 3451 / JR,SR	f-even*			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 / JR,SR	s-odd*			3 (0-3-0)
MET 4996	Special Topics in Mechanical Eng Tech	SR / Instructor Approval	demand			1-3
MET 4997	Independent Study in Mech Eng Tech	SR / Instructor Approval	demand			1-3
MET 4998	Undergrad Research in Mech Eng Tech	SR / Instructor Approval	demand			1-6
TE 3600	Quality Techniques	MA 2720(C) / JR,SR	f			3 (0-2-1)
TE 3956	Industrial Safety Management	JR,SR	s			3 (0-3-0)
TE 4200	Leadership in Complex Organizations	JR,SR	s			3 (0-3-0)
TE 4580	Facilities Planning, Layout and Process Flow	SR	f			3 (0-2-2)
TE 4590	Production Planning and Control	SR	s			3 (0-3-0)
UN 3002	Undergraduate Cooperative Education Laboratory	SO,JR,SR / Instructor & Department Approval	f/s/su			1-2

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

*Calendar year course is offered

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