

# MichiganTech. School of Technology

## Academic Planning Sheet 2006-07

### 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

**Total 16**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
MA 1032	Data, Functions, and Graphs Plus (ACT 19)	f/s/su			4
MA 1140	Technical Calculus I (MA 1031 / MA 1032)	f/s			4
MA 2140	Technical Calculus II (MA 1140)				4
MA 2720	Statistical Methods (MA 1031 / MA 1032)	f/s/su			4

#### Science

**Total 8**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
CH 1100	General Chemistry	f/s/su			4
PH 1110	College Physics I (PH 1111-C)	f/s/su			3
PH 1111	College Physics I Laboratory	f/s/su			1

#### General Education - Required

**Total 13**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
UN 1001	Perspectives	f/s/su			3
UN 1002 OR	World Cultures OR	s/su			4
UN 1003	AND Foreign Language	s			OR 4
UN 2001	Revisions (UN 1001 & UN 1002/3)	f/s/su			3
UN 2002	Institutions	f/s/su			3

#### 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](http://www.admin.mtu.edu/em/students/plan/dist_courses.pdf)

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
HU 3120	Technical & Scientific Communication – Required (UN 1001 & UN 1002/3)	f/s			3
					3
					3
					3
					3

#### Mechanical Engineering Technology Major - Required

**Total 68**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
BA 2300 OR	Accounting Principles I OR (So / Jr / Sr)	f/s/su			3
BA 3610	Operations Management (MA 2720)	f/s/su			OR 3
EC 3400	Economic Decision Analysis (UN 2002)	f/s/su			3
EET 2311	Electricity & Electronic Devices (MA 1031 / MA 1032)	f			4
EET 3131	Instrumentation (EET 2311)	s			3
EET 3700	Electrical Power Machinery & PLC Basics (EET 2311)	s			4
ENG 1001	Engineering Problem Solving (MA 1031-C / MA 1032-C)				2
ENG 1100	Engineering Analysis (ENG 1001 & MA 1140-C)				2
ENG 1102	Engineering Modeling & Design (ENG 1100 & MA 2140-C)				3
MEEM 2500	Integrated Design & Mfg (ENG 1102 & MET 1540)	f/s			4
MET 1540	Materials Science	f			3
MET 2120	Statics & Strength of Materials (MA 1140-C)	f			4

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

MET 2130	Dynamics (MET 2120)	s			3
MET 2400	Practical Applications in Parametric Modeling (ENG 1102)	f/s			3
MET 3242	Machine Design I (MA 2140 & MET 2130)	f			3
MET 3250	Applied Fluid Mechanics (MET 2130)	f			4
MET 3450	Machine Design II (MET 3242)	s			4
MET 3600	Applied Thermodynamics (MET 3250)	s			3
MET 4200	Design of Experiments (MA 2720)	f			3
MET 4300	Applied Heat Transfer (MET 3600)	f			3
MET 4460	Product Design & Development (MET 3450-C)	f/s			3
MET 4670	Senior Project (MET 4460)	f/s			3
MET 4999	Senior Project Seminar	f/s			1

**Technical Electives – 8 credits minimum from the following**

**Total 8**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
MET 4377	Applied Fluid Power (MET 3250)	s-even yr			3
MET 4390	Internal Combustion Engines (MET 3600)	s-odd yr			3
MET 4400	Manufacturing Simulation (MA 2720)	s-odd yr			3
MET 4500	Lean Manufacturing, Principles, Concepts & Applications	s-even yr			3
MET 4550	Computer Aided Manufacturing (MEEM 2500 & MET 2400)	demand			3
MET 4580	Facilities Planning, Layout & Process Flow	demand			3
MET 4590	Production Planning & Control	demand			3
MET 4600	Computer Aided Methods in Thermal Science (MET 4300)	demand			3
MET 4660	Applied Finite Element Analysis (MET 2400 & MET 3450)	demand			3
MET 4780	Advanced Manufacturing (MEEM 2500)	s-even yr			3
MET 4900	Alternative Energy Systems (MET 3600)	s-odd yr			3
UN 3002	Cooperative Education Laboratory	f/s/su			2
ENT XXXX	Go to: <a href="http://www.admin.mtu.edu/catalog/courses/pdf/ent.pdf">www.admin.mtu.edu/catalog/courses/pdf/ent.pdf</a>	f/s			1-14

**Free Electives**

**Total 0**

Course Number	Title (Prerequisite)	Offered	Semester Taken	Grade	Credits
					0

Total Credits Required:	127
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 Number	Title	Offered	Semester Taken	Grade	Units
					0.5
					0.5
					0.5
					0.5
					0.5
					0.5

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