

MECHANICAL ENGINEERING TECHNOLOGY

**Engineering, Math and Physical Sciences Division
Room T102, (847) 543-2044**

MECHANICAL ENGINEERING TECHNOLOGY

(Associate in Applied Science) Plan 24MB

Mechanical engineering technicians are the semi-professional members of the engineer-scientist-technician team engaged in the design of machines, mechanisms, and other mechanical systems. Assignments may include drafting, designing, product and materials testing, and supervision. In addition to a broad based background in mechanical design, this program offers training on an industrial CAD system.

To complete an AAS, students must meet the General Requirements on page 93. In addition, students should select General Education electives (*) from those listed on page 94. All course prerequisites must be met.

Required General Education Coursework	15
CMM 111 Communication Skills <i>or</i>	
CMM 121 Fundamentals of Speech.....	3
ECO 221 Principles of Economics I <i>or</i>	
PSY 121 Introduction to Psychology <i>or</i>	
PSY 122 Psychology in Business and Industry.....	3
ENG 120 Technical Composition I <i>or</i>	
ENG 121 English Composition I	3
MTH 117 Technical Mathematics I	3
Humanities or Fine Arts Elective*	3
Required Business Administration Coursework	12
BUS 113 Human Resource Management	3
BUS 115 Elements of Supervision.....	3
BUS 121 Introduction to Business.....	3
BUS 215 Operations Management.....	3
Required Mechanical Engineering Tech Coursework.....	26
EGR 121 Engineering Graphics	3
EGR 216 Statics and Mechanics of Materials for Technology	5
MET 111 Manufacturing Processes	3
MET 212 Mechanisms	4
MET 214 Mechanical Design and Drafting	3
MET 215 Machine Design	5
MTT 111 Machine Shop I <i>or</i>	
MTT 112 Machining Principles	3

Additional Required Coursework	11
CAD 171 Introduction to Inventor <i>or</i>	
CAD 173 Introduction to SolidWorks <i>or</i>	
CAD 176 Introduction to Pro Engineer	3
PHY 121 General Physics I	5
Technical Elective (see below).....	3

Total Hours for AAS Degree64

Technical Electives

A broad choice of technical electives is available. Students may choose coursework from the CAD option or choose coursework from certain CAD, ELC, EWE, MET, MFG, MTH or other technical areas. Students may obtain technical elective approval from the department chair.

For students who may pursue a Bachelors degree in mechanical engineering technology (BSMET), the following mathematics coursework may be substituted: In place of MTH 117, take MTH 122 and MTH 123.

Please see an advisor in the Mechanical Engineering Technology area before selecting the above courses.

MECHANICAL ENGINEERING TECHNOLOGY - CAD

(Associate in Applied Science) Plan 24MQ

Required General Education Coursework	15
CMM 111 Communication Skills <i>or</i>	
CMM 121 Fundamentals of Speech.....	3
ECO 221 Principles of Economics I <i>or</i>	
PSY 121 Introduction to Psychology <i>or</i>	
PSY 122 Psychology in Business and Industry.....	3
ENG 120 Technical Composition I <i>or</i>	
ENG 121 English Composition I	3
MTH 117 Technical Mathematics I	3
Humanities or Fine Arts Elective*	3
Required Business Coursework	12
BUS 113 Human Resource Management	3
BUS 115 Elements of Supervision.....	3
BUS 215 Operations Management.....	3
BUS 121 Introduction to Business.....	3
Required Mechanical Engineering Tech Coursework.....	26
EGR 121 Engineering Graphics	3
EGR 216 Statics and Mechanics of Materials for Technology	5
MET 111 Manufacturing Processes	3
MET 212 Mechanisms	4
MET 214 Mechanical Design and Drafting	3
MET 215 Machine Design	5
MTT 111 Machine Shop I <i>or</i>	
MTT 112 Machining Principles	3

Associate in Applied Science and Career Certificates

Additional Required Coursework17

CAD 171	Introduction to Inventor <i>or</i>	
CAD 173	Introduction to SolidWorks <i>or</i>	
CAD 176	Introduction to Pro Engineer	3
CAD	Electives (see below)	9
PHY 121	General Physics I	5

Total Hours for AAS Degree70

CAD Electives

CAD 176	Introduction to Pro-Engineer	3
CAD 177	Site Planning and Drafting	3
CAD 211	Mechanical Detailing	3
CAD 214	Introduction to Revit	3
CAD 217	AutoCAD II	3
CAD 273	Advanced CAD Specialization	1-3

MECHANICAL DESIGN TECHNOLOGY

(General Certificate) Plan 24MI

CAD 117	Introduction to AutoCAD	3
ENG 120	Technical Composition I <i>or</i>	
ENG 121	English Composition I	3
EGR 121	Engineering Graphics	3
EGR 122	Descriptive Geometry	3
MET 111	Manufacturing Processes	3
MET 212	Mechanisms	4
MET 214	Mechanical Design and Drafting	3
MTH 117	Technical Mathematics I	3
PHY 121	General Physics I	5
	Technical Electives	3

Total Hours for Certificate33

For more information on recommended courses or program specific advising, contact faculty member Margie Porter or the Engineering, Math and Physical Science division at (847) 543-2042.