

**San Diego City College  
Manufacturing Engineering Technology 2+2+2 Career Path:  
2007-2008**

*H.S. Diploma					<b>San Diego Unified School District Sweetwater Union High School District</b>
					<i>*Consult with your high school counselor for graduation requirements. Courses listed in math and science are suggested in preparation for college study.</i>
GRADE	ENGLISH	MATH	SCIENCE	SOCIAL SCIENCE	<b>Career and Technical Education Courses</b>
9					Principles of Engineering = S.D. City's MFET 101A (1 unit) OR Introduction to Engineering Design (petition to exempt City's MFET 105A-1.5 units)
10					Principles of Engineering = S.D. City's MFET 101A (1 unit) OR Introduction to Engineering Design (petition to exempt City's MFET 105A-1.5 units)
11		*Algebra I *Algebra II			Introduction to Manufacturing II (MFET 101B, 1 unit) (S.D. City's college course) Introduction to Manufacturing III (MFET 101C, 1 unit) (S.D. City's college course) Print Reading II (MFET 105B, 1.5 units) (S.D. City's college course)
12		*Int. Alg. 1-2 *Geometry	*Chemistry *Physics		Computer Integrated Manufacturing = City's MFET 150A (1.5 units) AND / OR Technical Science (ENGN 110, 4 units) ((S.D. City's college course)
<b>A.S.</b>	G.E.	GE	GE	Dist. Req't	<b>San Diego City College: Manufacturing Engineering Technology Program</b>
Summer Pre College year 1	PE course			Apply to earn certificate of completion	MFET 107 Introduction to Manufacturing Project
Year 1 1 <sup>st</sup> Semester	English 51	Health Ed.101	Technical Science ENGN 110 (if not done already)	Apply to earn certificate of completion	ENGE 111 or ENGE 151 or TECI 101 (an Engineering Design course) 2 or 3 units MFET 115 Properties of Materials 3 units MFET 120 Manufacturing Processes 4 units
Year 1 2 <sup>nd</sup> Semester	English 56	Math 96 or Math 98		P.E. course	MFET 150 or MFET 150B (if done 150A) Manufacturing Automation 3 or 1.5 units MFET 210 Statistical Process Control 3 units
Summer Year 1			G.E. Course Humanities	G.E. Course Amer Inst/CA Govt. Part A	Summer Internship
Year 2 1 <sup>st</sup> Semester	Technical Writing 101		Humanities course G.E.		Fabrication Option: MACT 150 Introduction to CNC and EDM 4 units MACT 160M or 160S Introduction to CAD/CAM 4 units Electronics Option: ENGN 128 Electronics for Technology 3 units MFET 220 Programmable Logic Controllers 3 units
Year 2 2 <sup>nd</sup> Semester			Social Science Am Inst Part B	Apply to earn certificate of completion	MFET 110 Industrial Safety 2 units MFET 230 Lean Manufacturing 3 units MFET 250 Manufacturing Capstone 4 units OR ENGN 275 Industrial Internship 4 units
Summer Yr 2					Summer Internship or Full-time Job Placement
Associate Degree = 60 units	Make an appointment to see a Counselor	Complete District Requirements above	18 units of GE required - included above	Apply to earn Certificate of Achievement and AS Degree	For transfer to CSU Long Beach, you must also complete 1) Admission Requirements 2) GE pattern lower division, and submit application during published filing periods. Attend Transfer planning workshops in the Transfer Center at City College A-111.

<b>B.S.</b>					<b>CSU Long Beach: Manufacturing Engineering Technology (MET)</b> This program is found in the Long Beach Catalog under "College of Engineering" Mechanical and Aerospace Engineering (MAE). In <a href="http://www.assist.org">www.assist.org</a> , information may be found under Manufacturing Engineering Technology between CSU Long Beach and San Diego City College. <i>Pull up the Major (MET) for Long Beach, not MFET for SD City College</i>
Year 3-4 Transfer CSU Long Beach B.S. Manufacturing Engineering Technology (MET)	Complete CSU GE Certification Pattern or other GE pattern for CSU		Complete CSU Admission requirements	Apply during published filing periods. Go to <a href="http://www.csumentor.org">www.csumentor.org</a>	Use City's MFET 101 or MFET 101A for ET 101 @ CSULB Major BS MET Use City's MFET 110 for ET 307 @ CSULB Major BS MET Use City's MFET 115 for ET 301 & 301L @ CSULB Major BS MET Use City's MFET 210 for ET 202 & 202L @ CSULB Major BS MET Use City's MACT 150 for ET 244 & 244L @ CSULB Major BS MET Use City's ENGE 151 for ET 170 @ CSULB Major BS MET Use City's ENGE 200 for ET 204 @ CSULB Major BS MET
Include the following for transfer	Chemistry 200/200L (Chem 111A)	*Physics 180AB & Physics 121 AB (Phys 100A/B)	Math 116 recommended as prep for LB Math 120		*CAN Physics 2 , sequence A or Physics 125 and 126 (10 units) It is recommended that you take ET 205/205L at CSULB rather than the articulated courses.