

## Bachelor of Science in Mechanical Engineering Technology (BS-MCT)

The BS-MCT degree requires total 124 credit hours as listed in this table. Macomb Community College transfer students can use this table as a guideline to transfer up to 82 credits from MCC, and complete the remaining credit requirements at Wayne State to earn the BS-MCT degree.

		WSU BS-MCT Curriculum		Macomb CC AAS Programs
		Course	Cr	Equivalent Courses
Math & Science	MAT 1800	(QE) Elementary Functions	4	MATH 1465 or 1415+1435
	MAT 3430	Appl Differential & Integral Calculus	4	MATH 1760
	MAT 3450	Appl Calculus & Diff Equations	4	See (1)
	CHM 1020	(NSI) General Chemistry	4	CHEM 1050
	PHY 2130,1	(NSI) General Physics and Lab	5	PHYS 1180
	PHY 2140,1	General Physics and Lab	5	PHYS 1190
Lower Division Technical Courses	E T 2140	Computer Graphics	3	See (2)
	E T 2160	Computer Applications for ET	2	ITCS 2530
	E T 2200	Engineering Materials	3	ATMT 1300 + 1310
	EET 2000	Electrical Principles	3	ELEC 1161 + 1171
	MCT/MIT	Lower Division Technical	21	See (3) **
Upper Division Core Courses	E T 3030	Statics	3	
	E T 3050	Dynamics	3	
	E T 3850	Reliability & Engineering Statistics	3	
	E T 3870	Engineering Economic Analysis	3	
	E T 5870	Project Management	3	
	MCT 3010	Instrumentation	3	
	MCT 4150	Thermodynamics	3	
	MIT 3500	Manufacturing Process Lab	1	ATMT 1150 or 1160
Design Track	E T 4999	Senior Project	3	
	MCT 3100	Mechanics of Materials	3	
	MCT 3410	Kinematics & Dynamics of Machines	3	
	MCT 4400	Design of Machine Elements	3	
Energy Track		Upper Division Tech Electives	8	
	MCT 4180	Fluid Mechanics	3	
	MCT 4210	Heat Transfer	3	
	MCT 5210	Energy Source & Conversion	3	
Mfg. Track		Upper Division Tech Electives	8	
	MIT 3520	Manufacturing Process Lecture	2	
	MIT 3600	Process Engineering	3	
	MIT 4700	Computer Aided Manufacturing	3	
General Education Courses		Upper Division Tech Electives	9	
	ENG 3050	(IC) Intermediate Composition	3	BCOM 2050
	PHI 1120	(CI) Cultural Inquiry	3	PHIL 2120
		(BC) Basic Composition	3	Students transferring to WSU that satisfy the MTA (Michigan Transfer Agreement) will fulfill all requirements to the left. Students must still <b>satisfy the above courses</b> , which are MTA-supported, in order to meet program requirements
		(OC) Oral Communication	3	
		(CIV) Civic Literacy	3	
		(SI) Social Inquiry	3	
		(DEI) Diversity, Equity & Inclusion	3	
	(GL) Global Learning	3		
<b>TOTAL Degree Requirements:</b>			<b>124</b>	

(1) MCC students have the option to take MAT3450 at Wayne (required MAT3430 as prerequisite) or MATH2770 at Macomb (required several prerequisites).

(2) Any one of: *ATAP 2010, ATAP 2030, ATAP 2350, ATAP 2360, ATAP 2370, DRCG 1140, PRDE 1400, PRDE 1410, PRDE 1450, PRDE 1475, PRDE 1520, PRDE 1620, PRDE 2520, PRDE 2620*

(3) Any other technical courses or credits in *ATAM, ATAP, ATBC, ATDD, ATEM, ATFP, ATMT, ATPP, ATRA, ATSS, ATTR, ATWD, AUTO, CIVL, CLCT, CORE, DRAD, DRCG, ELEC, ENGR, MACA, MECT, PRDE, QUAL, RNEW, ROBO, SURV*

\*\* Please refer to WSU's transfer guide, or consult with a WSU ET advisor before taking these classes <https://wayne.edu/transfercredit/>