



FALL/SPRING 2025 COURSE TRANSFER GUIDE BIOMEDICAL ENGINEERING – GENERAL PATH

Milwaukee Area Technical College (MATC) Courses that Transfer into MSOE's Biomedical Engineering Program

Contact MSOE Transfer Admissions (transfer@msoe.edu) to confirm course transferability and applicability toward the intended degree program including for courses not listed in this guide, and for new evaluation requests.

TOPIC	MATC COURSE NUMBERS AND NAMES	MSOE COURSE NUMBERS AND NAMES
Math	MATH 231 Analytic Geometry and Calculus 1	MTH 1110 Calculus I
	MATH 232 Analytic Geometry and Calculus 2	MTH 1120 Calculus II
Science	BIOSCI 236 Principles of Biology OR BIOSCI 257 Biology I	BIO 1110 Cell Biology and Genetics
	BIOSCI 201 Anatomy and Physiology 1 AND BIOSCI 202 Anatomy and Physiology 2	BIO 2510 Human Physiology I AND BIO 2520 Human Physiology II
	PHYS 274 Calculus-Based Physics 1 PHYS 275 Calculus-Based Physics 2	PHY 1110 Physics I PHY 1120 Physics II
	CHEM 207 General Chemistry OR CHEM 211 Chemistry 1	CHM 1010 Chemistry I
	ELCTEC 110 DC/AC Electronics I AND ELCTEC 111 DC/AC Electronics II AND ELCTEC 105 Advanced Circuits	ELE 2001 Electric Circuits 1: Theory and Applications
Communications	ENG 201 English 1 OR ENG 202 English 2 OR ENG 195 Written Communication	COM 1001 College Writing
	ENG 197 Technical Reporting OR ENG 208 Technical Communications	COM 2001 Writing for the STEM Disciplines
	SPEECH 201 Elements of Speech 1	COM 3001 Professional Presentations

General Education Humanities and Social Sciences MSOE requires courses that fulfill Common Learning Outcome (CLO) categories. Three CLO categories (Exhibit Curiosity, Embrace Diversity, and Choice of CLO) can be satisfied with MATC courses. Consult an MSOE Transfer Admissions Counselor for additional options.

CLO	MATC COURSE NUMBERS AND NAMES	MSOE COURSE NUMBERS AND NAMES
Exhibit Curiosity	SOCSCI 206 Introduction to Cultural Anthropology	ANT 1001 Cultural Anthropology
	HIST 218 Native American History	ANT 2020 Native American Culture
	SPEECH 212 Introduction to Theater	FNA 2002 Drama and the Theater
	ENG 207 Creative Writing	FNA 3001 Creative Writing
	ENG 240 Introduction to Modern Cinema	FNA 4010 Film and Media Studies
	ECON 195 Economics OR ECON 202 Principles of Macroeconomics	BUS 2222 Macroeconomics
	HIST 211 America Through 1877	HST 1013 United States History I
	HIST 212 America Since 1877	HST 1014 United States History II
	MUSIC 205 Music Appreciation	HST 2053 Music History
	HIST 203 Western Civilization From Ancient Times	HUM 0106 Exhibit Curiosity
	HIST 204 Western Civilization From 1776	HUM 0106 Exhibit Curiosity
	HIST 228 World History to 1500	HUM 0106 Exhibit Curiosity
	SOCSCI 197 Contemporary American Society	HUM 0106 Exhibit Curiosity
	SOCSCI 250 Introduction to Philosophy	PHL 3201 Introduction to Philosophy
	SOCSCI 221 American National Government	PSC 2011 American Government
	PSYCH 198 Introduction to Psychology OR PSYCH 231 Introductory Psychology	PSY 1001 Foundations of Psychology
	SOCSCI 204 Marriage and the Family	PSY 2005 The Family

	SOCSCI 210 Death and Dying PSYCH 232 Abnormal Psychology OR PSYCH 159 Abnormal Psychology	PSY 2006 Death, Dying, and Grief PSY 3002 Psychological Disorders and Mental Health
	PSYCH 188 Developmental Psychology OR PSYCH 238 Lifespan Psychology	PSY 3003 Developmental Psychology
	SOCSCI 246 Human Sexuality PSYCH 199 Psychology of Human Relations SOCSCI 203 Introduction to Sociology SOCSCI 205 Social Problems FLANG 202 Spanish 1 FLANG 205 Spanish 2	SSC 0106 Exhibit Curiosity PSY 3004 Social Psychology SOC 1001 Foundations of Sociology SSC 0106 Exhibit Curiosity SPN 1001 Elementary Spanish SPN 2001 Intermediate Spanish
Embrace Diversity	ART 201 Understanding Art SOCSCI 206 Introduction to Cultural Anthropology HIST 218 Native American History HIST 219 Wisconsin Indians Past/Present/Future HIST 231 Latin American History HIST 215 African American History SOCSCI 204 Marriage and the Family PSYCH 232 Abnormal Psychology OR PSYCH 159 Abnormal Psychology	HUM 0104 Embrace Diversity ANT 1001 Cultural Anthropology ANT 2020 Native American Culture HUM 0104 Embrace Diversity HUM 0104 Embrace Diversity HUM 0104 Embrace Diversity PSY 2005 The Family PSY 3002 Psychological Disorders and Mental Health
	SOCSCI 203 Introduction to Sociology SOCSCI 172 Introduction to Diversity FLANG 202 Spanish 1 FLANG 205 Spanish 2 FLANG 213 Spanish 3	SOC 1001 Foundations of Sociology SSC 0104 Embrace Diversity SPN 1001 Elementary Spanish SPN 2001 Intermediate Spanish SPN 3001 Advanced Spanish
CLO Choice	Course of your choice from the list above. Each course counts toward only one CLO and the same course cannot fulfill multiple CLO categories. Courses already found in the curriculum cannot also count for a CLO.	
PLEASE NOTE	<i>There is currently no articulation agreement with MATC for the B.S. in Biomedical Engineering program at MSOE. This guide is not an academic track and does not imply a reduced number of semesters to complete the program.</i> <i>Any MATC course listed with "OR" meets the corresponding MSOE requirement individually, while all courses listed with "AND" must be completed to meet the corresponding MSOE requirement.</i>	