

## ATTACHMENT A

### Transfer from Washtenaw Community College's Associate of Applied Science in Automation Technology (AAS-APATEC) to Wayne State University's Bachelor of Science in Electrical/Electronic Engineering Technology (BS-EET)

Washtenaw CC's AAS-APATEC students can transfer equivalent courses as listed in the following table to earn up to 86 credits for the BS-EET degree:

		WSU BS-EET Curriculum		Washtenaw CC Transfers
		Course	Cr	
Math & Science		ET 2160 (CL) Computer Applications for ET	2	CPS 171
		MAT 1800 (MC) Elementary Functions	4	MTH 180
		MAT 3430 Appl Differential & Integral Calculus	4	MTH 186 or 192
		MAT 3450 Appl Calculus & Diff Equations	4	MTH 286 or 295
		CHM 1020 (PS) General Chemistry	4	CEM 105
		PHY 2130,1 (LP) General Physics	4	PHY 111
		PHY 2140,1 (LP) General Physics	4	PHY 112
Lower Division Technical Courses		EET 2000 Electrical Principles	3	ELE 111
		EET 2100 Principle of Digital Design	3	ELE 284
		EET 2720 Microprocessor Fundamentals	3	
		EET Lower Division Technical	21	Other APATEC.ILEC related technical courses
Upper Division Technical Courses		E T 3850 Reliability & Engineering Statistics	3	
		E T 3870 Engineering Economic Analysis	3	
		E T 5870 Project Management	3	
		EET 3100 Advanced Digital Design	3	
		EET 3150 Network Analysis	4	
		EET 3180 Analog Electronics	4	
		EET 3500 Electrical Machines & Power Sys	3	
		EET 3720 Micro & Programmable Controllers	3	
		EET 3300 Applied Signal Processing	3	
		EET 4200 Control Systems	4	
		EET Upper Division Tech Elective	3	ROB 224
		EET Upper Division Tech Elective	3	
		E T 4999 (WI/ST) Senior Project	3	
General Education Courses		(BC) Basic Composition	3	Associate Applied Science degree graduates should take appropriate General Education courses to satisfy WSU Gen Ed requirements, or take additional courses to satisfy MACRAO Agreement. Please consult with Washtenaw CC or Wayne State advisors.
		(IC) Intermediate Writing	3	
		(OC) Oral Communication	3	
		(HS) Historical Studies	3	
		(AI) American Society & Institutions	3	
		(SS) Social Science	3	
		(FC) Foreign Culture	3	
		(VP) Visual & Performing Arts	3	
		(PL) Philosophy & Letters	3	
		(LS) Life Science	3	
	(CT) Critical Thinking Exam	0		
<b>Total Credit required for BS-EET: 128</b>				<b>Total WCC transfer credit applied toward BS-EET: 86</b>
<b>Courses to satisfy</b>	English Composition	(BC) ENG 1020 and (IC) ENG 2XXX	7	ENG 111 and 226

MACRAO	Social Science	Choose 3 courses in more than one discipline Covers (AI), (FC), (HS), & (SS)	8-9	ANT 201, 202, 205 ECO 110, 211, 222, 280 GEO 101 HST 121, 122, 123, 235, 240, 251, 260 PLS 112, 150, 211, 220, 250, 260 SOC 100, 155, 202, 205, 207, 220, 225, 230, 250
	Science & Math	Fulfilled by courses above (LS) & (PS)	8-9	
	Humanities	(OC) COM 1010 Plus, choose 2 additional courses – Covers (CT), (PL) & (VP)	8-9	COM 101 ART 130 DAN 180 ENG 140, 160, 170, 181, 200, 211, 212, 213, 214, 222, 223, 224 HUM 101, 102, 103, 120, 145, 146, 150, 160, 175, 185 MUS 180, 185 PHL 101, 123, 200, 205, 240, 244, 245, 250

**Transfer from Washtenaw Community College's Associate of Applied Science in Automation Technology (AAS-APATEC) to Wayne State University's Bachelor of Science in Electromechanical Engineering Technology (BS-EMT)**

Washtenaw CC's AAS-APATEC students can transfer equivalent courses as listed in the following table to earn up to 84 credits for the BS-EMT degree:

		<b>WSU BS-EMT Curriculum</b>		<b>Washtenaw CC Transfers</b>
		Course	Cr	
<b>Math &amp; Science</b>	ET 2160	(CL) Computer Applications for ET	2	CPS 171
	MAT 1800	(MC) Elementary Functions	4	MTH 180
	MAT 3430	Appl Differential & Integral Calculus	4	MTH 186 or 192
	MAT 3450	Appl Calculus & Diff Equations	4	MTH 286 or 295
	CHM 1020	(PS) General Chemistry	4	CEM 105
	PHY 2130,1	(LP) General Physics	4	PHY 111
	PHY 2140,1	(LP) General Physics	4	PHY 112
<b>Lower Division Technical Courses</b>	ET 2140	Computer Graphics	3	
	EET 2000	Electrical Principles	3	ELE 111
	EET 2100	Principle of Digital Design	3	ELE 284
	EET 2720	Microprocessor Fundamentals	3	
	EET	Lower Division Technical	18	Other APATEC.IELC related technical courses
<b>Upper Division Technical Courses</b>	ET 3030	Statics	3	
	ET 3050	Dynamics	3	
	ET 3850	Reliability & Engineering Statistics	3	
	ET 5870	Engineering Project Management	3	
	MCT 3010	Instrumentation	3	
	MIT 3500	Manufacturing Processes Lab	1	
	EET 3720	Micro & Programmable Controllers	3	
	EET 3150	Network Analysis	4	
	EET 3500	Electrical Machines & Power Sys	1	MTT 102
	EET 4200	Control Systems	4	
		Upper Division Tech Elective	3	ROB 224
		Upper Division Tech Elective	3	
	Upper Division Tech Elective	3		
	E T 4999	(WI) Senior Project	3	
<b>General Education Courses</b>		(BC) Basic Composition	3	Associate Applied Science degree graduates should take appropriate General Education courses to satisfy WSU Gen Ed requirements, or take additional courses to satisfy MACRAO Agreement. Please consult with Washtenaw CC or Wayne State advisor
		(IC) Intermediate Writing	3	
		(OC) Oral Communication	3	
		(HS) Historical Studies	3	
		(AI) American Society & Institutions	3	
		(SS) Social Science	3	
		(FC) Foreign Culture	3	
		(VP) Visual & Performing Arts	3	
		(PL) Philosophy & Letters	3	
		(LS) Life Science	3	
	(CT) Critical Thinking Exam	0		
<b>Total Credit required for BS-EMT: 128</b>				<b>Total WCC transfer credit applied toward BS-EMT: 84</b>
<b>Courses to satisfy</b>	<b>English Composition</b>	(BC) ENG 1020 and (IC) ENG 2XXX	7	ENG 111 and 226

MACRAO	Social Science	Choose 3 courses in more than one discipline Covers (AI), (FC), (HS), & (SS)	8-9	ANT 201, 202, 205 ECO 110, 211, 222, 280 GEO 101 HST 121, 122, 123, 235, 240, 251, 260 PLS 112, 150, 211, 220, 250, 260 SOC 100, 155, 202, 205, 207, 220, 225, 230, 250
	Science & Math	Fulfilled by courses above (LS) & (PS)	8-9	
	Humanities	(OC) COM 1010 Plus, choose 2 additional courses – Covers (CT), (PL) & (VP)	8-9	COM 101 ART 130 DAN 180 ENG 140, 160, 170, 181, 200, 211, 212, 213, 214, 222, 223, 224 HUM 101, 102, 103, 120, 145, 146, 150, 160, 175, 185 MUS 180, 185 PHL 101, 123, 200, 205, 240, 244, 245, 250

**Transfer from Washtenaw Community College's Associate of Applied Science in Automation Technology (AAS-APATEC) to Wayne State University's Bachelor of Science in Mechanical Engineering Technology (BS-MCT)**

Washtenaw CC's AAS-APATEC students can transfer equivalent courses as listed in the following table to earn up to 87 credits for the BS-MCT degree:

	WSU BS-MCT Curriculum		Washtenaw CC Transfers
	Course	Cr	
Math & Science	ET 2160 (CL) Computer Applications for ET	2	CPS 171
	MAT 1800 (MC) Elementary Functions	4	MTH 180
	MAT 3430 Appl Differential & Integral Calculus	4	MTH 186 or 192
	MAT 3450 Appl Calculus & Diff Equations	4	MTH 286 or 295
	CHM 1020 (PS) General Chemistry	4	CEM 105
	PHY 2130,1 (LP) General Physics	4	PHY 111
	PHY 2140,1 (LP) General Physics	4	PHY 112
Lower Division Technical Courses	ET 2140 Computer Graphics	3	
	ET 2200 Engineering Materials	3	AMS 103
	EET 2000 Electrical Principles	3	ELE 111
	MCT Lower Division Technical	21	Other AAS-APATEC related technical courses
Upper Division Technical Core Courses	ET 3030 Statics	3	
	ET 3050 Dynamics	3	
	ET 3850 Reliability & Engineering Statistics	3	
	ET 3870 Engineering Economic Analysis	3	
	ET 5870 Engineering Project Management	3	
	MCT 3010 Instrumentation	3	
	MIT 3500 Manufacturing Processes Lab	1	MTT 102
	Upper Division Tech Elective	3	ROB 224
	Upper Division Tech Elective	3	
Upper Division Tech Elective	2		
E T 4999 (WI) Senior Project	3		
Design Track Courses	MCT3100 Mechanical of Materials	3	
	MCT3410 Kinematic and Dynamics of Machines	3	
	MCT4150 Applied Thermodynamics	3	
	MCT4400 Design of Machine Elements	3	
Energy Track Courses	MCT4150 Applied Thermodynamics	3	
	MCT4180 Fluid Dynamics	3	
	MCT4210 Heat Transfer	3	
	MCT5210 Energy Source and Conversion	3	
Manu- facturing Track Courses	MIT 3520 Manufacturing Processes Lecture	2	
	MIT3600 Process Engineering	3	
	MIT4700 Computer Aided Manufacturing	3	
	MIT4800 Statistical Quality Control	4	
General Education Courses	(BC) Basic Composition	3	Associate Applied Science degree graduates should take appropriate General Education courses to satisfy WSU Gen Ed requirements, or take additional courses to satisfy MACRAO Agreement. Please consult with Washtenaw CC or
	(IC) Intermediate Writing	3	
	(OC) Oral Communication	3	
	(HS) Historical Studies	3	
	(AI) American Society & Institutions	3	
	(SS) Social Science	3	
	(FC) Foreign Culture	3	
(VP) Visual & Performing Arts	3		

	(PL) Philosophy & Letters	3	Wayne State advisors.
	(LS) Life Science	3	
	(CT) Critical Thinking Exam	0	
<b>Total Credit required for BS-MCT: 128</b>			<b>Total WCC transfer credit applied toward BS-MCT: 87</b>

Courses to satisfy MACRAO	English Composition	(BC) ENG 1020 and (IC) ENG 2XXX	7	ENG 111 and 226
	Social Science	Choose 3 courses in more than one discipline Covers (AI), (FC), (HS), & (SS)	8-9	ANT 201, 202, 205 ECO 110, 211, 222, 280 GEO 101 HST 121, 122, 123, 235, 240, 251, 260 PLS 112, 150, 211, 220, 250, 260 SOC 100, 155, 202, 205, 207, 220, 225, 230, 250
	Science & Math	Fulfilled by courses above (LS) & (PS)	8-9	
	Humanities	(OC) COM 1010 Plus, choose 2 additional courses – Covers (CT), (PL) & (VP)	8-9	COM 101 ART 130 DAN 180 ENG 140, 160, 170, 181, 200, 211, 212, 213, 214, 222, 223, 224 HUM 101, 102, 103, 120, 145, 146, 150, 160, 175, 185 MUS 180, 185 PHL 101, 123, 200, 205, 240, 244, 245, 250

**Transfer from Washtenaw Community College's Associate of Applied Science in Heating, Ventilation, Air Conditioning and Refrigeration (AAS-APHVCR) to Wayne State University's Bachelor of Science in Mechanical Engineering Technology (BS-MCT)**

Washtenaw CC's AAS-APHVCR students can transfer equivalent courses as listed in the following table to earn up to 87 credits for the BS-MCT degree:

	WSU BS-MCT Curriculum		Cr	Washtenaw CC Transfers
	Course			
Math & Science	ET 2160	(CL) Computer Applications for ET	2	CPS 171
	MAT 1800	(MC) Elementary Functions	4	MTH 180
	MAT 3430	Appl Differential & Integral Calculus	4	MTH 186 or 192
	MAT 3450	Appl Calculus & Diff Equations	4	MTH 286 or 295
	CHM 1020	(PS) General Chemistry	4	CEM 105
	PHY 2130,1	(LP) General Physics	4	PHY 111
	PHY 2140,1	(LP) General Physics	4	PHY 112
Lower Division Technical Courses	ET 2140	Computer Graphics	3	
	ET 2200	Engineering Materials	3	AMS 103
	EET 2000	Electrical Principles	3	ELE 111
	MCT	Lower Division Technical	21	Other AAS-APATEC related technical courses
Upper Division Technical Core Courses	ET 3030	Statics	3	
	ET 3050	Dynamics	3	
	ET 3850	Reliability & Engineering Statistics	3	
	ET 3870	Engineering Economic Analysis	3	
	ET 5870	Engineering Project Management	3	
	MCT 3010	Instrumentation	3	
	MIT 3500	Manufacturing Processes Lab	1	MTT 102
		Upper Division Tech Elective	3	HVA 203+205
		Upper Division Tech Elective	3	
	Upper Division Tech Elective	2		
	E T 4999	(WI) Senior Project	3	
Design Track Courses	MCT3100	Mechanical of Materials	3	
	MCT3410	Kinematic and Dynamics of Machines	3	
	MCT4150	Applied Thermodynamics	3	
	MCT4400	Design of Machine Elements	3	
Energy Track Courses	MCT4150	Applied Thermodynamics	3	
	MCT4180	Fluid Dynamics	3	
	MCT4210	Heat Transfer	3	
	MCT5210	Energy Source and Conversion	3	
Manu-facturing Track Courses	MIT 3520	Manufacturing Processes Lecture	2	
	MIT3600	Process Engineering	3	
	MIT4700	Computer Aided Manufacturing	3	
	MIT4800	Statistical Quality Control	4	
General Education Courses		(BC) Basic Composition	3	Associate Applied Science degree graduates should take appropriate General Education courses to satisfy WSU Gen Ed requirements, or take additional courses to satisfy MACRAO Agreement. Please
		(IC) Intermediate Writing	3	
		(OC) Oral Communication	3	
		(HS) Historical Studies	3	
		(AI) American Society & Institutions	3	
		(SS) Social Science	3	
	(FC) Foreign Culture	3		

	(VP) Visual & Performing Arts	3	consult with Washtenaw CC or Wayne State advisors.
	(PL) Philosophy & Letters	3	
	(LS) Life Science	3	
	(CT) Critical Thinking Exam	0	

<b>Total Credit required for BS-MCT: 128</b>			<b>Total WCC transfer credit applied toward BS-MCT: 87</b>
--	--	--	--

Courses to satisfy MACRAO	English Composition	(BC) ENG 1020 and (IC) ENG 2XXX	7	ENG 111 and 226
	Social Science	Choose 3 courses in more than one discipline Covers (AI), (FC), (HS), & (SS)	8-9	ANT 201, 202, 205 ECO 110, 211, 222, 280 GEO 101 HST 121, 122, 123, 235, 240, 251, 260 PLS 112, 150, 211, 220, 250, 260 SOC 100, 155, 202, 205, 207, 220, 225, 230, 250
	Science & Math	Fulfilled by courses above (LS) & (PS)	8-9	
	Humanities	(OC) COM 1010 Plus, choose 2 additional courses – Covers (CT), (PL) & (VP)	8-9	COM 101  ART 130 DAN 180 ENG 140, 160, 170, 181, 200, 211, 212, 213, 214, 222, 223, 224 HUM 101, 102, 103, 120, 145, 146, 150, 160, 175, 185 MUS 180, 185 PHL 101, 123, 200, 205, 240, 244, 245, 250