



**WICHITA STATE  
UNIVERSITY**



**WATC**  
WICHITA AREA  
TECHNICAL COLLEGE

**WICHITA STATE UNIVERSITY-College of Engineering AND WICHITA AREA TECHNICAL COLLEGE  
(WICHITA STATE UNIVERSITY-Campus of Applied Sciences and Technology) 2+2 AGREEMENT  
Associate of Arts Degree/Bachelor's Degree in Engineering  
Technology Concentration in Mechatronics Technology**

The purpose of the 2+2 Agreement is to provide Wichita Area Technical College (WATC) students a four-year coordinated program through the WSU/WATC Pathway Program curriculum where students will receive an Associate of Arts degree at Wichita State University (WSU) in the first two years and a Bachelor of Science degree in Engineering Technology from Wichita State University (WSU) after two additional years. This agreement will provide guidance for both parties in advising students.

This agreement is for WATC students who have:

- Earned an Associate of Arts (AA) degree according to the requirements of the Pathway curriculum.
- Achieved a minimum cumulative GPA of 2.0.
- Applied and been admitted to the WSU/WATC Pathway Program.

WATC students meeting the above requirements will:

- Be guaranteed admission to WSU's College of Engineering with completion of application requirements and receipt of transcripts.
- Enter with junior status toward a baccalaureate degree.
- Be guaranteed to transfer 46 credit hours (not including required WSU courses taken concurrently as required by the Pathway program) from WATC to WSU.

This partnership reflects the following objectives, institutional expectations, and operational principles:

- Expanded student program opportunities, course articulation understandings, and transfer coordination considered mutually beneficial in this coordinated partnership.
- Graduates will possess the technical skills and conceptual background, creative mindset and applied experiences to address the workforce needs for achieving the desired economic development in the State of Kansas.
- All students must complete all major, institutional, and required degree requirements appropriate to the program curricula at the degree granting institution in order to graduate.
- Both Wichita Area Technical College and Wichita State University College of Engineering program faculty and administrators will promote the program with qualified prospective students and share assessment of learning outcomes toward the goal of program improvement.
- Students can inquire about academic and participation scholarships, financial aid, and grants by contacting the WSU Financial Aid office (316) 978-3430 and the College of Engineering, Engineering Student Success Center at (316) 978-3420.
- Students transferring to WSU from WATC who have not completed an AA must meet the necessary requirements for admission to WSU, and will have their transcript evaluated on an individual basis.

In order to ensure a successful transition and completion of the associates' and bachelors' degrees from both institutions in this 2+2 agreement, students should refer to the required degree plans or stipulations of this agreement. Transfer students must complete at least 60 credit hours of four-year college work including 45 credit hours of upper-

division work in order to qualify for graduation from Wichita State University. Courses used as prerequisites may have higher grade requirements as described in the WSU undergraduate catalog.

**Modification of Agreement**

This agreement shall only be modified in writing with the same formality as the original agreement.

**Reverse Transfer**

Students, who transfer to Wichita State University from Wichita Area Technical College before attainment of the Associate of Arts degree, are eligible to reverse transfer courses that have WSU/WATC equivalency back to WATC. This allows for the attainment of the Associates of Arts degree provided that at least 45 credit hours are earned at WATC and all other degree requirements are met.

**Modification of Agreement**

This agreement shall only be modified in writing with the same formality as the original agreement.

**Terms of Agreement**

The agreement will begin with the 2017-2018 academic year.

**Termination of Agreement**

Either party may terminate this agreement for any reason with a written notice from either party. The parties agree that termination shall include an agreement that students currently enrolled in the program at the time of termination shall be permitted to complete the program as described herein.

This agreement is a collaboration between Wichita State University and Wichita Area Technical College. Any changes, corrections, or additions to this agreement shall be in writing and signed by all necessary parties between both academic institutions.


**Wichita State University**


  
Dr. Anthony J. Vizzini  
Provost and Senior Vice President  
Wichita State University

  
Dr. Royce Bowden  
Dean, College of Engineering

  
Dr. Gary Brooking  
Department Director  
Engineering Technology

**Wichita Area Technical College**

  
Dr. Sheree Utash  
President  
Wichita Area Technical College

  
Dr. Scott Lucas  
Vice President,  
Career and Technical Education

  
Bruce Fritz  
Dean,  
Manufacturing Technologies

**Concentration in Mechatronics Technology, Pathway for (2+2) Agreement,  
Wichita Area Technical College & Wichita State University  
Courses taken through the WSU/WATC Pathway for completion of Associate of Arts Degree**

<b>Freshman – 1st Semester (taken at WATC) 18 Credit Hours</b>		
<b>Wichita State University Equivalent</b>	<b>Wichita Area Technical College</b>	<b>Hours</b>
ENGL 101 College English I	ENG 101 Composition I	3
Technical Elective for BSET	Recommend PSS 101 Six Sigma Green Belt Methods OR any Pre-Approved Elective	3
ECON 201 Principles of Macroeconomics	ECO 105 Principles of Macroeconomics	3
ARTH 103 Art Appreciation	ART 100 Art Appreciation	3
General Education (Required for Pathway AA degree)	Approved General Education (Humanities- NOT PHL course) as found on the WSU Transfer Guide	3
COMM 302 Interpersonal Communication	SPH 111 Interpersonal Communications	3
<b>Freshman – 2nd Semester (taken at WATC) 18 Credit Hours</b>		
ENGL 102 College English II	ENG 120 Composition II	3
MATH 123 College Trigonometry (Required for Pathway AA degree)	MTH 113 Trigonometry	3
PHIL 105 Critical Reasoning	PHL 115 Logic	3
Technical Elective for BSET	IND 109 Basic Industrial PLC OR Any Pre-Approved Elective	3
Technical Elective for BSET	ROB 100 Introduction to Robotics OR any pre-approved elective	3
ECON 202 Principles of Microeconomics	ECO 110 Principles of Microeconomics	3
<b>Sophomore – 1st Semester (taken at WATC) 16 Credit Hours</b>		
COMM 111 Public Speaking	SPH 101 Public Speaking	3
MATH 242 Calculus I	MTH 125 Calculus I	5
PHYS 213 General College Physics I	PHS 120 General Physics I	5
Technical Elective for BSET	PSS 105 Six Sigma Green Belt Statistics OR Any Pre-Approved Elective	3
<b>Sophomore – 2nd Semester (taken at WSU) 16 Credit Hours</b>		
PHYS 214 General Physics II	Completed at WSU for Shocker Pathway	5
MATH 243 Calculus II	Completed at WSU for Shocker Pathway	5
WSUE 102A First Year Sem in Tech and Innovation	Completed at WSU for Shocker Pathway	3
PHIL 385 Engineering Ethics	Completed at WSU for Shocker Pathway	3

A total of 52 credit hours taken at Wichita Area Technical College and 16 additional WSU credit hours for a total of 68 credit hours for completion of Associate of Arts Degree



**Concentration in Mechatronics Technology, Pathway for (2+2) Agreement,  
Wichita Area Technical College & Wichita State University  
Courses taken at Wichita State for completion of B.S. in Mechatronics Technology**

<b>Junior – 1<sup>st</sup> Semester (taken at WSU) 14 Credit Hours</b>	
<b>Wichita State University Requirement</b>	<b>Hours</b>
IME 255 Engineering Economy	3
IME 258 Manufacturing Methods I	3
ENGT 301 Fundamentals of Engineering Technology	1
IME 222/L Engineering Graphics /Lab	3
CS 194 Introduction to Digital Design	4
Engineer of 2020 (1 of 3)	
<b>Junior – 2nd Semester (taken at WSU) 14 Credit Hours</b>	
CS 211 Intro to Programming	4
ENGT 312 Applied Statistics	3
ENGT 320 Circuits Technology	4
ENGT 354 Statistical Process Control	3
Engineer of 2020 (2 or 3)	
<b>Senior – 1st Semester (taken at WSU) 18 Credit Hours</b>	
ENGT 323 Introduction to Fluids	3
ENGT 313 Applied Dynamics	1
ENGT 334 Intro to Strength and Mechanics of Materials	3
ENGT 497 Electrical Machines & Electronic Circuits	4
ENGT 361 Industrial Controls & Instrumentation	4
ENGT 401 Senior Design Project I	3
<b>Senior – 2nd Semester (taken at WSU) 12 Credit Hours</b>	
ENGT 348 Machine Elements	3
ENGT 410 Robotics Technology	3
ENGT 411 Micro-Based Mechanical Systems Technology	3
ENGT 402 Senior Design Project II	3
Engineer of 2020 (3 of 3)	

A total of 58 credit hours taken at Wichita State for the completion of the B.S. degree in Engineering Technology (Concentration in Mechatronics Technology).