



**WICHITA STATE UNIVERSITY AND COWLEY COLLEGE 2+2 AGREEMENT
Associates of Science Degree/Bachelor's Degree In Computer Engineering
July 24, 2019**

The purpose of the 2+2 Agreement is to provide Cowley College's students a four-year coordinated program through the pre-engineering curriculum where students will receive an Associates of Science degree at Cowley College (CC) in the first two years and a Bachelor of Science degree in Computer Engineering from Wichita State University (WSU) after two additional years. This agreement will provide guidance for both parties in advising students.

This agreement is for Cowley College students who have:

- Earned an Associates of Science (A.S.) degree according to attached degree plan in Pre-Engineering.
- Achieved a minimum cumulative GPA of 2.0.
- Applied for admission to WSU.

Cowley College students meeting the above requirements will:

- Be guaranteed admission to WSU with completion of application requirements and receipt of transcripts.
- Enter with junior status toward a baccalaureate degree.
- Be guaranteed to transfer 59 credit hours from Cowley College 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 Cowley 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 Cowley College who have not completed an A.S. 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.

Reverse Transfer

Students, who transfer to Wichita State University from Cowley College before attainment of the Associates of Science degree, are eligible to reverse transfer courses that have WSU/CC equivalency back to Cowley. This allows for the attainment of the Associates of Science degree provided that at least 45 credit hours are earned at Cowley 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 2019-2020 academic year.

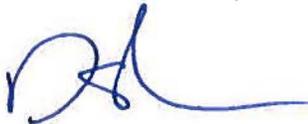
Termination of Agreement

Either party may terminate this agreement for any reason with a written notice from either party. This agreement is a collaboration between Wichita State University and Cowley 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. Richard Muma
Provost and Professor
Wichita State University



Dr. Dennis Livesay
Dean, College of Engineering
Wichita State University

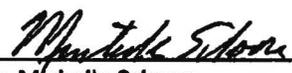


Dr. Gergely Zaruba
Department Chair
Electrical Engineering and Computer Science
Wichita State University

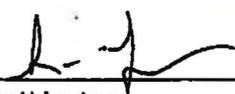
Cowley College



Dr. Dennis C. Rittle
President
Cowley College



Dr. Michelle Schoon
Interim Vice President of Academic Affairs
Cowley College



Dr. Scott Layton
Faculty and Chair
Natural Science Department
Cowley College

Computer Engineering Pathway (2+2)
Cowley College & Wichita State University
Courses taken at Cowley College for completion of Associates Degree of Science

Freshman - 1st Semester (Taken at Cowley) 14 Credit Hours		
Wichita State University Equivalent	Cowley College	Hours
ENGL 101 College English I	ENG 2211 Composition I	3
MATH 242 Calculus I	MTH 4435 Calculus I	5
ENGR 101 Introduction to Engineering (TE*)	PHS 4545 Intro to Engineering	2
General Education (Social and Behavioral Science)	Approved General Education (Social and Behavioral Science) as found on the WSU Transfer Guide	3
HPS 2000 Elective (not transferable to B.S. degree)	Health & Physical Education Elective	1
Freshman - 2nd Semester (Taken at Cowley) 14 Credit Hours		
ENGL 102 College English II	ENG 2212 Composition II	3
MATH 243 Calculus II	MTH 4440 Calculus II	5
CS 211 Introduction to Programming	CIS 1876 C Programming	3
General Education (Fine Arts)	Approved General Education (Fine Arts) as found on the WSU Transfer Guide	3
Sophomore - 1st Semester (Taken at Cowley) 15 Credit Hours		
COMM 111 Public Speaking	COM 2711 Public Speaking	3
CS 194 Introduction to Digital Design	CIS 1894 Introduction to Digital Design	4
IME 255 Engineering Economy	PHS 4555 Engineering Economy	3
PHYS 313 Physics for Scientists I and PHYS 315 University Physics Lab I	PHS 4560 Engineering Physics I	5
Sophomore - 2nd Semester (Taken at Cowley) 17 Credit Hours		
General Education (Humanities)	Approved General Education (Humanities) as found on the WSU Transfer Guide	3
CS 238 Assembly Language Programming	CIS 1909 Assembly Language Programming	3
PHYS 314 Physics for Scientists II and PHYS 316 University Physics Lab II	PHS 4561 Engineering Physics II	5
IME 254 Engineering Probability and Statistics I	MTH 4445 Engineering Probability and Statistics I	3
General Education (Social & Behavioral Science)	Approved General Education (Social & Behavioral Science) as found on the WSU Transfer Guide	3

*Technical Elective

A total of 60 credit hours taken at Cowley College for completion of Associates Degree of Science
59 credit hours will transfer to WSU towards B.S. degree in Computer Engineering

Computer Engineering Pathway (2+2)
Cowley College & Wichita State University
Courses taken at Wichita State for completion of B.S. in Computer Engineering

Junior – 1st Semester (Taken at WSU) 17 Credit Hours	
Wichita State University Requirement	Hours
EE 282 Circuits I	4
MATH 555 Differential Equations I	3
CS 311 Object-Oriented Programming	4
MATH 321 Discrete Structures I	3
General Education-Further Studies	3
Junior – 2nd Semester (Taken at WSU) 15 Credit Hours	
CS 285L Programming w/MATLAB for EECS	1
EE 284 Circuits II	3
CS 394 Introduction to Computer Architecture	3
CS 400 Data Structure and Algorithms I	4
EE 492 Electronic Circuits I	4
Senior – 1st Semester (Taken at WSU) 16 Credit Hours	
CS 594 Microprocessor Based System	4
CS 540 Operating Systems	3
EE 585 Electrical Design Project I	2
CS 338 FPGA-Based System Design	4
Technical Elective	3
Senior – 2nd Semester (Taken at WSU) 17 Credit Hours	
PHIL 354 Ethics & Computers	3
ME 398 Thermodynamics I	3
MATH 511 Linear Algebra	3
CS 464 Computer Networks	3
EE 595 Electrical Design Project II	2
Technical Elective	3

A total of 65 credit hours taken at Wichita State for the completion of the B.S.
degree in Computer Engineering