



**WICHITA STATE  
UNIVERSITY**



**Butler**  
Community College

**WICHITA STATE UNIVERSITY AND  
BUTLER COMMUNITY COLLEGE 2+2 AGREEMENT  
Cyber Security (AAS)/Bachelor's Degree in Applied Computing  
March 26, 2020**

The purpose of the 2+2 Agreement is to provide Butler Community College's students a four-year coordinated program through the applied computing curriculum where students will receive a Cyber Security Associate in Applied Science degree at Butler Community College (BCC) in the first two years and a Bachelor of Science degree in Applied Computing from Wichita State University (WSU) after two additional years. This agreement will provide guidance for both parties in advising students.

This agreement is for Butler Community College students who have:

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

Butler Community 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 58 credit hours from Butler Community College to WSU.
- Be guaranteed a reverse transfer of 4 credit hours from WSU to Butler Community College

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

- Expanded student program opportunities, course articulation understandings, and transfer coordination are 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 Butler Community 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 Butler Community College who have not completed an A.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 associate's and bachelor's 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 and no fewer than 45 credit hours of



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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 Butler Community College before attainment of the Associate in Applied Science degree are eligible to reverse transfer courses that have WSU/BCC equivalency back to Butler. This allows for the attainment of the Associate in Applied Science degree provided that at least 45 credit hours are earned at Butler 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. 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.

**Wichita State University**



Dr. Richard Muma  
Provost and Senior Vice President  
Wichita State University

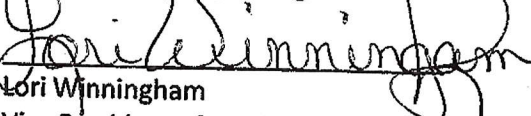


Dr. Dennis Livesay  
Dean, College of Engineering  
Wichita State University

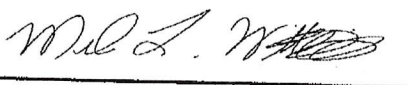


Dr. Gary Brooking  
Department Chair, Engineering Technology  
Wichita State University

**Butler Community College**



Lori Winningham  
Vice President of Academic Affairs  
Butler Community College



Mel Whiteside  
Dean, Science, Technology, Engineering and  
Mathematics  
Butler Community College



Brett Eisenman  
Department Chair, Cybersecurity  
Butler Community College

**Cyber Security – Applied Computing (2+2)**  
**Butler Community College & Wichita State University**  
**Courses taken at Butler Community College for completion**  
**of an Associate in Applied Science Degree**

<b>Freshman – 1st Semester (Taken at BCC)</b>		<b>Hours</b>
<b>Wichita State University Equivalent</b>	<b>Butler Community College</b>	<b>15</b>
Part block Equiv for ENGT 222, 321 and 322 <sup>1</sup>	IS 101 <sup>2</sup> CompTia A+ Essentials and Applications*	6
Part block Equiv for ENGT 222, 321 and 322 <sup>1</sup>	IS 102 <sup>2</sup> Supporting Networked Computers*	3
Technical Elective	IS 103 Information Tech Project Management*	3
MATH 111 College Algebra	MA 135 College Algebra	3
<b>Freshman – 2nd Semester (Taken at BCC)</b>		<b>13</b>
Technical Elective	IS 151 Network Servers*	3
Technical Elective	IS 152 Administering Windows*	3
Technical Elective	IS 150 Network Clients*	3
ENGT 121 Cybersecurity Awareness	IS 153 <sup>2</sup> Principles of Information Assurance*	3
MATH 123 College Trig	MA 140 Trigonometry	3
ENGL 101 College English I	EG 101 English Composition I	3
<b>Sophomore – 1st Semester (Taken at BCC)</b>		<b>15</b>
Technical Elective	IS 202 Virtual Computing*	3
Part block Equiv for ENGT 222, 321 and 322 <sup>1</sup>	SD 201 Python Programming with Data Science	3
Technical Elective	IS 203 <sup>2</sup> Network Security*	3
ENGT 461 Digital Forensics	IS 204 Digital Forensics*	3
ENGL 102 College English II	EG 102 English Composition II	3
<b>Sophomore – 1st Semester (Taken at WSU)</b>		<b>1</b>
ENGT 201 Introductory Design Project		1
<b>Sophomore – 2nd Semester (Taken at BCC)</b>		<b>12</b>
ENGT 463 Cyber Risk Management	IS 250 <sup>2</sup> Enterprise Security Management*	3
BADM161/2/3 Business Software	BA 104 Information Processing Systems	3
PSY 111 General Psychology	BS 160 General Psychology	3
COMM 111 Public Speaking	SP 100 Public Speaking	3
<b>Sophomore – 2nd Semester (Taken at WSU)</b>		<b>4</b>
ENGT 326 Cyber Operations <sup>2</sup> (Reverse transfer for IS 251 Advanced Security Practitioner)		4

A total of 60 credit hours taken at Butler Community College for completion of Cyber Security AAS

A total of 4 credit hours taken at WSU will transfer to Butler for Cyber Security AAS

A total of 57 credit hours will transfer from Butler to WSU towards B.S. degree in Applied Computing

Note: <sup>1</sup> – IS101, IS102 and SD201 will be a block equivalent to ENGT222, ENGT321 and ENGT322

<sup>2</sup> – Courses used as part of CAE designation

\* – Previous course code (beginning with IN and having same course title) taken during the 2019-2020 academic year has the same eligibility for this program as this newly coded course.



**Engineering Technology Pathway (2+2)**  
**Butler Community College & Wichita State University**  
**Courses taken at Wichita State for completion of B.S. in**  
**Applied Computing, Cybersecurity focus**

<b>Wichita State University Requirement</b>	<b>Hours</b>
<b>Junior – 1<sup>st</sup> Semester (Taken at WSU)</b>	<b>16</b>
PHYS 213 General Physics I	5
PSY 323 Social Psychology	3
STAT 370 Elementary Statistics	3
PHIL 354 Ethics and Computers	3
ENGT 301 Intermediate Design Project (P: ENGT201)	2
<b>Junior – 2nd Semester (Taken at WSU)</b>	<b>14</b>
PHYS 214 General Physics II	5
ENGR 220 Applied Analog and Digital Electronics	3
ENGT 324 Applied Web Applications & Database Development	3
General Education – <i>Fine Arts</i>	3
<b>Senior – 1st Semester (Taken at WSU)</b>	<b>15</b>
ENGT 401 Senior Design Project I	3
MIS 605 Systems Analysis and Design	3
PSY 405 Human Factors Psychology	3
ENGT 363 Human Threats to Cyber Security	3
ECON 201 Macro Economics	3
<b>Senior – 2nd Semester (Taken at WSU)</b>	<b>13</b>
ENGT 402 Senior Design Project II	3
ENGT 462 Cyber Physical Systems	4
ENGT 464 Secure Web Development <sup>2</sup>	3
MIS 696 Management of the IS Function	3

A total of 62 credit hours taken at Wichita State for the completion of the B.S. degree in  
Applied Computing with Cybersecurity focus

