



WICHITA STATE UNIVERSITY AND COWLEY COLLEGE PATHWAY AGREEMENT

Pre-Engineering

June 10, 2020

The purpose of the Agreement is to provide Cowley College students a four-year coordinated program that includes pre-engineering curriculum from Cowley College (CC) followed by a Bachelor of Science degree in Aerospace Engineering from Wichita State University (WSU). This agreement will provide guidance for the actions involving students.

This agreement is for Cowley College students who have:

- Completed the 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, fee, and receipt of transcripts.
- Enter with second semester sophomore status toward a baccalaureate degree.
- Be guaranteed to transfer 48 credit hours from Cowley College which count towards the Bachelor of Science degree in Aerospace Engineering from WSU.

This partnership reflects the following objectives:

- 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.
- All students must complete all major, institutional, and required degree coursework 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 data to achieve the goal of program improvement.
- Students can inquire about academic and participation in the program, financial aid, and grants by contacting the WSU Financial Aid office (316) 978-1350 and the College of Engineering, Engineering (316) 978-2420.
- Students transferring to WSU from Cowley College who have not completed this pathway agreement 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 baccalaureate degree from WSU in this pathway agreement, students should refer to the required degree plan and 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 to qualify for graduation from Wichita State University. Courses used as prerequisites may have higher grade requirements as described in the WSU catalog or graduate catalog.

Reverse

Students, who wish to transfer to Wichita State University from Cowley College before attainment of the Associate of Science degree, are eligible to reverse transfer courses that have WSCC equivalency back to Cowley. This agreement shall be in effect until the attainment of the degree.

Modification

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


Terms of Agreement

The agreement will begin with the 2020-2021 academic year.

Termination of Agreement

Either party may terminate this agreement at any time. Any termination of this agreement shall be in writing and signed by all necessary parties between both institutions.

Wichita State University



Dr. Richard M. Muma
Provost
Wichita State University


Dr. Dennis C. Bink
President
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Dr. Dennis C. Bink
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Dr. L. Scott Miller
Chair, Aerospace Engineering
Wichita State University


Scott Layton
Chair, Natural Science & Mathematics Department
Cowley College

Aerospace Engineering (three semesters) & Wichita State University (five semesters)
Courses taken at Cowley College

Freshman – 1 st Semester 16 Credit Hours				
Wichita State University Equivalent	Hours	Cowley College	Hours	
ENGL 101 College English I	3-G	ENGL 2116	3	
General Education (Fine Arts)	3-G	Approved General Education (Fine Arts) as found on the WSU Transfer Guide	3	
Math 242 Calculus I	5-M	MTH 4435 Calculus I	5	
CHEM 211 General Chemistry I	5-M	CHEM 4220 Chemistry I	5	
Freshman – 2 nd Semester 16 Credit Hours				
ENGL 102 College English II	3-G	ENGL 2212 Composition II	3	
General Education (Fine Arts or Humanities or Social & Behavioral Sciences)	3-G	Approved General Education (Fine Arts or Humanities or Social & Behavioral Sciences) as found on the WSU Transfer Guide	3	
Math 243 Calculus II	5-M	MTH 4436 Calculus II	5	
PHYS 313 Physics of Scientists I (4)	5-M	PHS 4560 Engineering Physics I	5	
PHYS 315 University Physics Lab (1)				
COMM 111 Public Speaking	3-G	COM 2711 Public Speaking	3	
ECG 100				
Math 344 Calculus III	3-M	MTH 4455 Calculus III	3	
PHYS 314 Physics of Scientists II (4)	4-M	PHS 4561 Engineering Physics II	5	
PHYS 316 University Physics Lab (1)				
AE 223 Statics	3-C	PHS 4570 Statics	3	
Total			48	

G: General Education; M: Math/science; C: engineering courses

* although credit transfer from WSU does not count towards the B.S. degree in Aerospace Engineering, a total of 48 credit hours are taken at Cowley College

48 credit hours will apply towards the WSU B.S. degree in Aerospace Engineering

** completing the associate's degree will require additional coursework not listed above and/or reverse transfer of coursework taken at WSU back to Cowley College

Aerospace Engineering Transfer Degree Pathway (1/2/2/2) (C)

Cowley College (three semesters) & Wichita State University (four semesters)

Courses taken at Wichita State University to complete B.S. in Aerospace Engineering degree

Sophomore – 2nd Semester 15 Credit Hours	
Wichita State University Course	Hours
Math 555 Differential Equations I	3
AE 227 Engineering Digital Computation	3
AE 324 Fundamentals of Atmospheric Flight II	3
AE 333 Mechanics of Materials	3
AE 373 Dynamics	3
Junior – 3rd Semester 16 Credit Hours	
IME 222 Engineering Graphics (2) and IME 221 – 222	3
ME 398 Thermodynamics I	3
AE 415 Introduction to Space Dynamics	3
AE 424 Aerodynamics I	3
AE 525 Flight Structures I	3
AE 503 Aerospace Propulsion I	3
AE 512 Experimental Methods in Aerospace	3
AE 514 Flight Dynamics and Control	3
AE 524 Aero	3
AE 625 Flight Structures II	3
Senior – 1st Semester 16 Credit Hours	
PHIL 385 Engineering Ethics	3
AE 528 Aerospace Design I	3
AE 607 Flight Control Systems	3
Aerospace Engineering Technical Electives (2)	3
Senior – 2nd Semester 17 Credit Hours	
EE 282 Circuits I	4
AE approved interdisciplinary science elective	3
AE 628 Aerospace Design II	4
Aerospace Engineering Technical Electives (2)	6
Total	81