

EQUIVALENCY GUIDE

CINCINNATI STATE TECHNICAL & COMMUNITY COLLEGE



FROM	Associate of Science (AS) Pre-Engineering	TO	College of Engineering & Applied Science Bachelor of Science (BS) Chemical Engineering
-------------	--	-----------	--

**This Transfer Articulation Agreement (“TAA”) is valid from
January 1, 2025 to July 31, 2027 (not to exceed three (3) years)**

The following includes all course requirements for this TAA. You should consult with an academic advisor each semester to ensure you maintain appropriate degree progress and are fulfilling all requirements for the agreement. For details related to course planning, please consult the Transfer Degree Map and your academic advisor.

CINCINNATI STATE			UNIVERSITY OF CINCINNATI		
Course ID	Title	Cr Hrs	Course ID	Title / Program Requirement	Cr Hrs
ENG 101	English Composition 1	3	ENGL 1001	English Composition	3
ENG 10X	English Composition 2 Elective – <i>choose any except</i> ENG 105	3	ENGL 2089	<i>Used for ENGL 4092</i>	3
MAT 251	Calculus 1	5	MATH 1061	Calculus I + <i>Not used in BS Program</i>	4 + --
MAT 252	Calculus 2	5	MATH 1062	Calculus II + <i>Not used in BS Program</i>	4 + --
OT36 AH	OT36 Arts/Humanities Elective – <i>choose from</i> MUS 110, THE 105, PHI 105/110, or REL 105	3		<i>General Education Elective–SCE</i>	3
OT36 AH	OT36 Arts/Humanities Elective	3		<i>Not Applicable to BS Program</i>	--
	OT36 Social Science Elective	3		<i>General Education Elec–FAVHP/HU/SS</i>	3
HST XXX	History Elective – <i>choose any except</i> HST 161 or HST 162	3		<i>General Education Elective–DEI</i>	3
CHE 121 + CHE 131	General Chemistry 1 + General Chemistry 1 Lab	5	CHEM 1040 + CHEM 1040L	General Chemistry I + General Chemistry I Lab	4 + 1
PHY 201	Physics 1: Calculus-Based	5	PHYS 2001 + PHYS 2001L	<i>Technical Elective</i>	4 + 1
COMM 110	Public Speaking	3	COMM 1071	<i>General Education Elec–FAVHP/HU/SS</i>	3
CHE 121 + CHE 131	General Chemistry 1 + General Chemistry 1 Lab (<i>OT36 Math/Science Elective</i>)	5	CHEM 1041 + CHEM 1041L	General Chemistry II + General Chemistry II Lab	4 + 1
FYE 1XX	First Year Experience Elective	1-3	FYE/MLTI	<i>Not used in BS Program</i>	--
ENGR 111	Introduction to Engineering 1	3	ENGR 1000BLOCK	<i>Counts for ENED 1100</i> <i>+ Counts for ENED 1200</i>	1.5 +1.5
ENGR 112	Introduction to Engineering 2	3	ENGR 1000BLOCK	<i>Counts for ENED 1100</i> <i>+ Counts for ENED 1200</i>	1.5 +1.5
CHE 201 + CHE 211	Organic Chemistry 1 + Organic Chemistry 1 Lab (<i>Technical Elective 1</i>)	5	CHEM 2040 + CHEM 2040L	Organic Chemistry I + Organic Chemistry I Lab	4 + 1
PHY 202	Physics 2: Calculus-Based (<i>Technical Elective 2</i>)	5	PHYS 2002 + PHYS 2002L	<i>Technical Elective</i>	4 + 1
CHE 202 + CHE 212	Organic Chemistry 2 + Organic Chemistry 2 Lab (<i>Technical Elective 3</i>)	5	CHEM 2041 + CHEM 2041L	Organic Chemistry II + Organic Chemistry II Lab	4 + 1

Total credits for AS:	68	Total transfer credits toward BS at UC:	62
		Total remaining credits for BS at UC:	62
		Total credits for BS at UC:	124

REMAINING UNIVERSITY OF CINCINNATI COURSES

SEMESTER 5 (Fall)

Course ID	Title	Cr Hrs
CHE 2064	Material and Energy Balances	4
MATH 2073	Differential Equations	3
PD 1011	Intro to Co-op	1
CHEM 3030	Instrumental Analysis	3
CHEM 3030L	Instrumental Analysis Lab	2

SEMESTER 6 (Spring)

Course ID	Title	Cr Hrs
COOP 2011	First Co-op Experience	0

SEMESTER SUMMER

Course ID	Title	Cr Hrs
CHE 3025	Transport 1 – Fluid Flow	3
ENED 3061	Engineering Statistics	3
Elective	Technical Elective	2

SEMESTER 7 (Fall)

Course ID	Title	Cr Hrs
COOP 2012	Second Co-op Experience	0

SEMESTER 8 (Spring)

Course ID	Title	Cr Hrs
CHE 3026	Transport II – Heat and Mass Transport	4
CHE 3062	Thermodynamics	4
Elective	Technical Elective	2

SEMESTER SUMMER

Course ID	Title	Cr Hrs
COOP 3011	Third Co-Op Experience	0

SEMESTER 9 (Fall)

Course ID	Title	Cr Hrs
CHE 4061	Separation Processes	3
CHE 4062	Chemical Reaction Engineering	3
CHE 4071	Process Dynamics and Controls	3
CHE 5082	Industrial Chemical Processes	3
PD 2050	Mid-curricular Co-op Community for Engineering	1

SEMESTER 10 (Spring)

Course ID	Title	Cr Hrs
COOP 4011	Fourth Co-op Experience	0

SEMESTER SUMMER

Course ID	Title	Cr Hrs
COOP 4012	Fifth Co-op Experience	0

SEMESTER 11 (Fall)

Course ID	Title	Cr Hrs
CHE 5045	Process Design I	4
CHE 5037	Chemical Engineering Laboratory	3
CHE Elective	Chemical Engineering Elective	3

SEMESTER 12 (Spring)

Course ID	Title	Cr Hrs
CHE 5046	Process Design II	4
CHE 5001	Senior Seminar	1
CHE Elective	Chemical Engineering Elective	3

ADMISSIONS & DEADLINES

- Completion of the courses on this worksheet does not guarantee admission to the College of Engineering & Applied Science
- Students who complete the AS Pre-Engineering have partially satisfied the UC General Education requirement.
- Students must be admitted to the College of Engineering & Applied Science during the duration of this agreement.
- **Minimum GPA:** 2.80
- **Minimum Math/Science GPA:** 2.80
- **Admission Criteria:**
 - Have earned credit equivalent to UC's MATH 1061
 - Have earned credit equivalent to UC's CHEM 1040 or PHYS 2001
- **BS Completion:** Completion of this program may require more than four semesters to complete due to prerequisite requirements and the order in which required courses must be taken and are offered. UC academic advising staff will work with each transfer student to develop the most expedient pathway to graduation.

TUITION & SCHOLARSHIPS

- General Tuition & Fees information can be found at: uc.edu/bursar/fees
- Scholarships for transfer students can be found at: financialaid.uc.edu/sfao/scholars/transfer

MORE INFORMATION

- Further information about the majors in the College of Engineering & Applied Science can be found at: ceas.uc.edu/academics/departments/mechanical-materials-engineering/degrees-programs/chemical-engineering-bachelor-of-science.html
- General information about the University of Cincinnati can be found at: uc.edu

READY TO APPLY? visit uc.edu/apply

Admissions Information:
admissions.uc.edu/information/transfer

Questions – Contact Us
Transfer Center
transfer@uc.edu

Pre-Transfer Advising:
admissions.uc.edu/information/transfer/admissions-and-advising-appointments