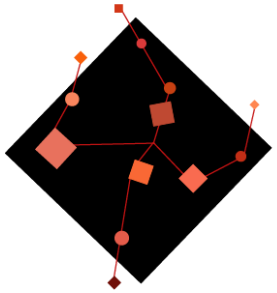


Association for
Undergraduate Education
at Research Universities

Supporting Transfer Student Success Within and Across States

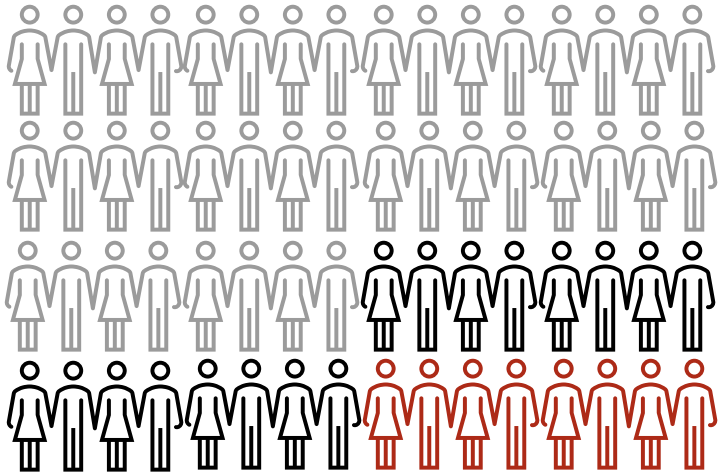
2025 SHEEO Higher Education Policy Conference

August 13, 2025

The Transfer Challenge

- In the 2022-2023 academic year, community colleges enrolled **8.6 million** students, approximately **40%** of all undergraduates
- Disproportionately low-income and minoritized students
- About **80%** of entering community college students say they want to transfer to a 4-year institution eventually

Only **31%** of community college students who entered in 2016 transferred to a 4-year institution within six years…



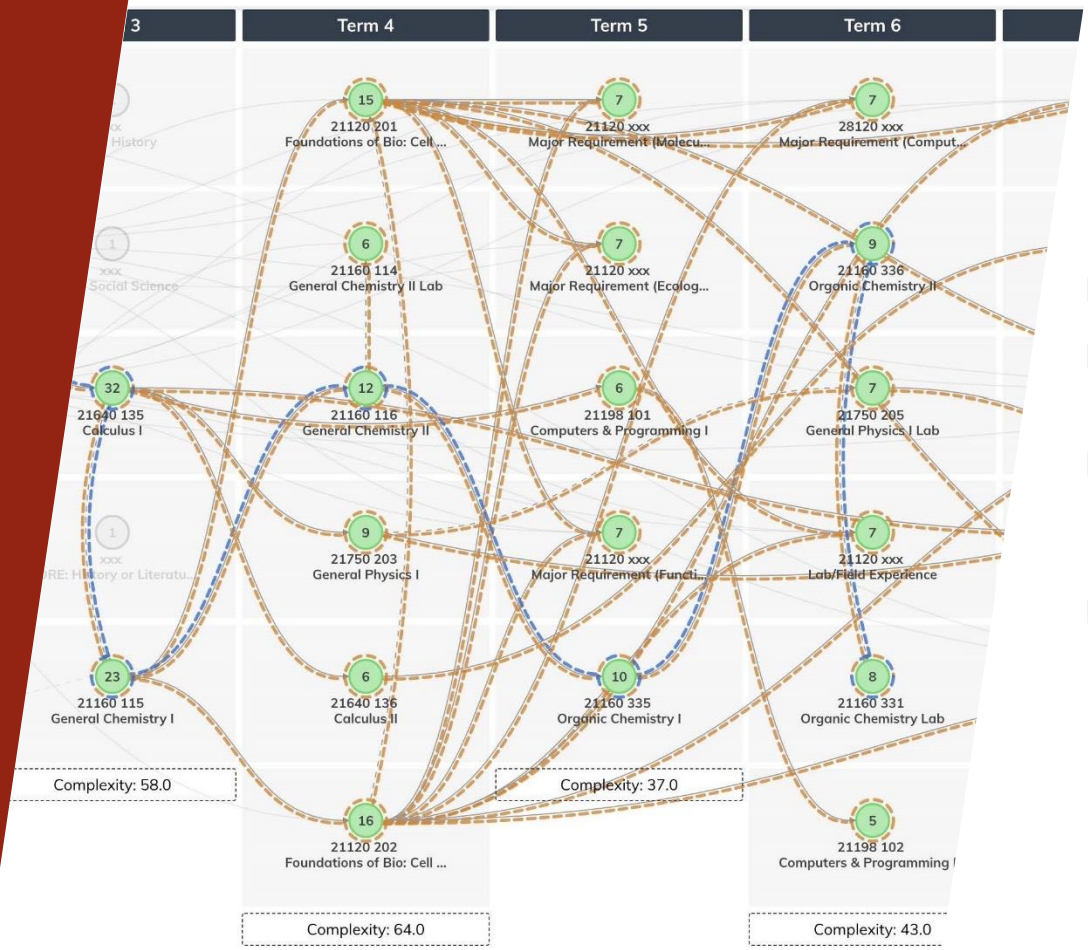
…and only half of those earned a bachelor's degree (**15%** of the 2016 entering class)

Source: Community College Research Center, 2025

About UERU

The **Association for Undergraduate Education at Research Universities (UERU)** is dedicated to achieving excellence and access in undergraduate education by sharing and developing expertise across member institutions and other higher education organizations.

- Public and private R1/R2 research universities
- 134 members and counting
- Primarily engages Vice Provosts for Undergraduate Education (UVPs) or equivalent



UERU's Curricular Analytics Project

- Funded by $2 million from Ascendium
- Research Question: do curricular structures impact equitable student outcomes?
- 30 universities submitted curricular data for 2,000+ programs along with 10 years of student success data
- Key findings:
  1. Significant relationship between curricular structure and time-to-degree
  2. Curricular structures can and do perpetuate inequitable student outcomes
- Findings empower faculty and others with comparative data to strengthen programs

SHEEO

2025 Higher Education Policy Conference

Aug. 13, 2025

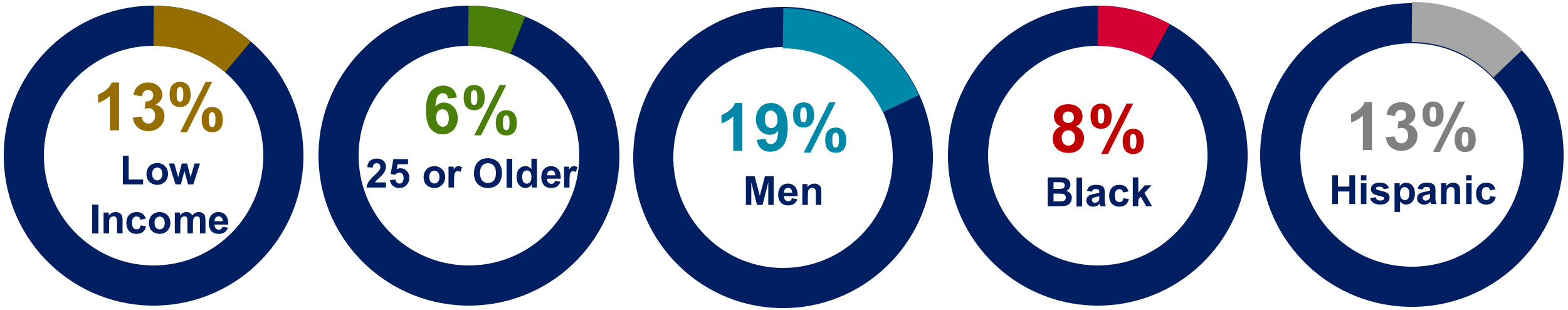
Transfer Pathways and Degree Planning

Nikos Varelas, Senior Vice Provost, Academic Programs, Student Success, and Effectiveness

University of Illinois Chicago

Transfer Student Bachelor's Completion Rates: Illinois

- **35%** of students enrolled in IL CCs transfer to four-year institutions
- **20%** of IL CC students attain a bachelor's degree within six years



Barriers to Transfer Student Success

- Credit loss when transferring
- Degree programs without room for electives or general transfer credits
- Lack of degree planning to understand requirements
- Lack of coordinated advising
- Lack of transfer admission guarantees or degree pathway programs
- No opportunities to catch up on required courses
- Reduced financial aid and wraparound support programs

Pathways to Excellence: A Plan for Transfer Student Success in Illinois

Break down institutional silos and address cross-institutional challenges to help students move to and through college and into careers

Increase bachelor's degree attainment rates for students starting at Chicago Public Schools, enrolling at City Colleges of Chicago, and transferring to UIC

Expand the program to students at high schools and community colleges throughout Illinois

Chicago Public Schools – City Colleges of Chicago – University of Illinois Chicago

Chicago Public Schools

- 4th largest public K-12 district in U.S.
- Serves over 320,000 students across 634 schools in Chicago
- Primarily serves racially underrepresented students
- 46% identify as Hispanic
- 35% identify as African American

CITY COLLEGES® OF CHICAGO

- One of the largest CC districts in U.S.
- Hosts 7 campuses that serve over 60,000 students annually
- Federally designated Minority-Serving Institution (MSI)
- 5 campuses identified as HSIs
- 3 campuses identified as Predominantly Black Institutions
- 1 campus identified as an AANAPISI

UIC UNIVERSITY OF ILLINOIS CHICAGO

- Chicago's only public R-1 university
- Serves over 33,000 students, including 14,000 Latinx, Black, Asian, and Indigenous undergraduates
- 50% of undergraduates receive Pell
- 52% first-generation students
- Federally designated MSI
- Asian American and Native American Pacific Islander-Serving Institution (AANAPISI)
- Hispanic-Serving Institution (HSI)

Chicago Roadmap 2.0: Key Activities

Collaborative Agreements

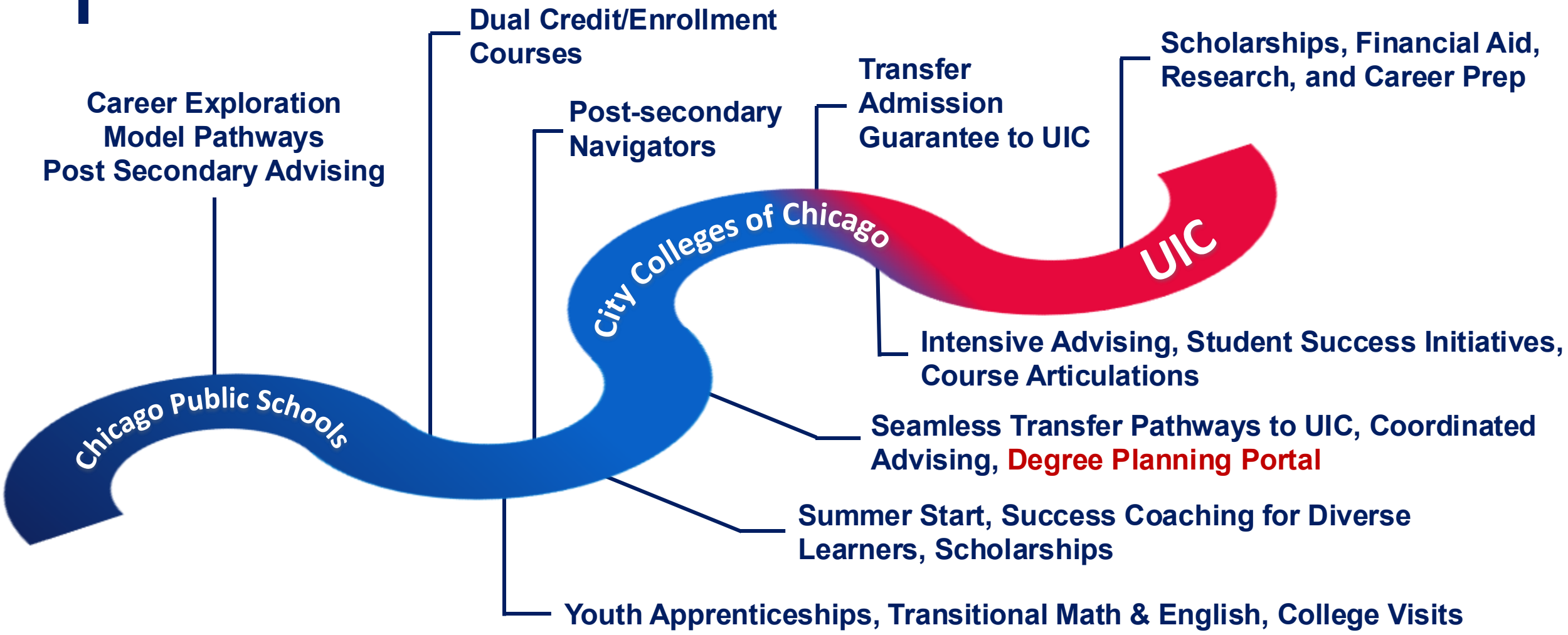
Coordinated Advising

Student Success Programs

Innovative Degree Planning Portal

Transfer Pathways

Chicago Roadmap 2.0: CPS→CCC→UIC



Roadmap 1.0: CPS → CCC
Launched on June 30, 2020

Activity 1: Collaborative Agreements

Chicago Roadmap 2.0: CPS → CCC → UIC

Transfer Admission Guarantee Program (TAG)

U of I System Transfer Guarantee Program

TAG:
Admission at the program level with required major prep. courses and GPA > 3.0

Activity 2: Transfer Pathways

Chicago Roadmap 2.0: CPS → CCC → UIC

Term-by-Term Transfer Degree Plans across Institutions

Credit Loss Reduction

Course Equivalency Articulation

Chicago Roadmap 2.0: Transfer Pathways

Sample Plan

Transfer Degree Plan

CPS Healthcare Model Pathway
Associate in Science, Biology Pathway
Bachelor of Science in Liberal Arts & Sciences, Major in Biological Sciences

Starting Schools
Chicago Public Schools (CPS)
City Colleges of Chicago (CCC)

Starting Programs
Health Sciences Model Pathway (CPS)
Associate in Science Degree, Biology Pathway (CCC)

Destination School
University of Illinois Chicago (UIC)

Destination Program
Bachelor of Science in Liberal Arts and Sciences with a Major in Biological Sciences

Career Opportunities

Post Baccalaureate Education Opportunities

Recommended Plan of Study

Chicago Roadmap 2.0: Transfer Pathways

Each course in the degree pathway has been mapped to course equivalents in CPS, CCC, and UIC.

CCC – Associate in Science Degree/Biology Pathway

Term 1

	Course	Credit Hours	Associate of Science Requirement satisfied	Course Notes / Commonly applied Test Based Credit	UIC Equivalency
☐	ENGLISH 101	3	Composition	ACT English subscore 27; SAT EBRW score 630; AP Engl Lang/Comp score 3-5; IB English Language A: Language and Literature-Standard or Higher Level score 6-7	ENGL 160
☐	BIOLOGY 116 or other BIOLOGY Elective	4	AS Pathway Elective	*Healthcare Model Pathway Course*	ANAT & PHYS elective
☐	BIOLOGY 120 or other Elective	3	AS Pathway Elective	*Healthcare Model Pathway course*	Alt Med Term elective
☐	Mathematics	3	Mathematics	e.g. MATH143: prerequisite for MATH 207	Elective/QR
Total credits for Term 1		**13**			

Term 2

☐	ENGLISH 102	3	Composition		ENGL 161
☐	BIOLOGY 121	5	Life Science	AP Biology score 3-5; IB Biology–Standard or Higher Level score 5-7	BIOS 110/ Analyzing the Natural World GE
☐	Social and Behavioral Sciences Selective	3	Social and Behavioral Sciences GE	See test-based credit policy for potential exams.	Choose U.S. Society GE Equivalent
☐	MATH 207	5	Mathematics	AP Calculus AB score 4-5, AP Calculus BC score 4-5 with any sub score for Calculus AB; IB Mathematics: Analysis and Approaches-Higher Level score 6-7	MATH 180/QR
Total credits for Term 2		**16**			

Term 3

☐	CHEM 201	5	Physical Science	AP Chemistry score 4-5; IB Chemistry-Standard Level score 6-7, Higher Level score 5-7	CHEM 122 + CHEM 123/ Additional GE
☐	SPEECH 101	3	Oral Communication		COMM 100/ Individual Society GE
☐	Foreign Language 103 or Humanities Selective	4	Humanities	See test-based credit policy for specific language and scores.	FL Requirement or choose Understanding The Past GE Equivalent
☐	Fine Arts Selective	3	Fine Arts GE	See test-based credit policy for potential exams.	Choose Creative Arts GE Equivalent
Total credits for Term 3		**15**			

Term 4

☐	BIOLOGY 122	5	Life Science Elective	AP Biology score 3-5; IB Biology-Standard or Higher Level score 5-7	BIOS 120/ Analyzing the Natural World GE
☐	CHEM 203	5	Physical Sci Pathway Elective	AP Chemistry score 4-5; IB Chemistry-Standard Level score 7, Higher Level score 6-7	CHEM 124 + CHEM 125/ Additional GE
☐	Social and Behavioral Sciences Selective /HD	3	Social Behavioral Science- Human Diversity	See test-based credit policy for potential exams.	Choose World Cultures GE Equivalent
☐	Foreign Language 104 / Humanities Selective	3-4	Elective	See test-based credit policy for specific language and scores.	FL Requirement or Choose Understanding the Past GE Equivalent
Total credits for Term 4		**16-17**			

Total Credits for AS degree/Biology pathway: 60-61credit hours

Chicago Roadmap 2.0: Transfer Pathways

UIC - BS Degree in Liberal Arts & Science, Major in Biological Sciences

Term 5

Course Name	Credit	UIC Requirement Satisfied
BIOS 220 Genetics	3	Major Requirement
BIOS Experimental Tech/Data Analysis	3	Concentration Requirement
Advanced Elective	3	College ADV Hours
BIOS 222 Cell Biology	3	Major Requirement
PHYS 131 Physics for Life Sci I	4	Major Prerequisite/Collateral
Total credits for Term 5	**16**	

Term 6

BIOS Experimental Tech/Data Analysis	2	Concentration Requirement
BIOS Experimental Tech/Data Analysis	2	Concentration Requirement
PHYS 132 Physics for Life Sci II	4	Major Prerequisite/Collateral
BIOS 230 Evolution and Ecology	3	Major Requirement
CHEM 230 Org Chem/Biol Syst	4	Major Prerequisite/Collateral
Total Credits for Term 6	**15**	

Term 7

BIOS Experimental Tech/Data Analysis	3	Concentration Requirement
BIOS Elective	3	Major Requirement
CHEM 233 Synthesis Tech Lab	2	Major Prerequisite/Collateral
BIOS Elective	3	Major Requirement
Advanced Elective	3	College ADV Hours
Total credits for Term 7	**14**	

Term 8

BIOS Elective	3	Major Requirement
BIOS Elective	3	Major Requirement
BIOS Elective	3	Major Requirement
Advanced Elective	3	College ADV Hours
Advanced Elective	3	College ADV Hours
Total credits for Term 8	**15**	

Total UIC Credits: 60

The degree pathway mapping extends to the UIC courses required to earn the BS degree, ensuring no loss of credit during transfer.

Transfer Plan Credit Summary:

CCC earned credits: 60-61 for AS program

UIC earned credits: 60 additional for BS program

Total Transfer credits:

60-61 credit hours transfer; **zero credit loss!**

Total Degree Hours:

60-61 credit hours CCC + 60 credit hours UIC

= **120-121 Total Credit Hours**

Activity 3: Coordinated Advising

Chicago Roadmap 2.0: CPS → CCC → UIC

Training Led by UIC Pathways Developers

CPS Early College Navigators

CCC Transfer Specialists

Activity 4: Student Success Programs

Chicago Roadmap 2.0: CPS → CCC → UIC

- Summer Programs
- Cultivate Research Skills
- Academic, Financial, and Socio-emotional Support

Activity 5: Degree Planning Portal

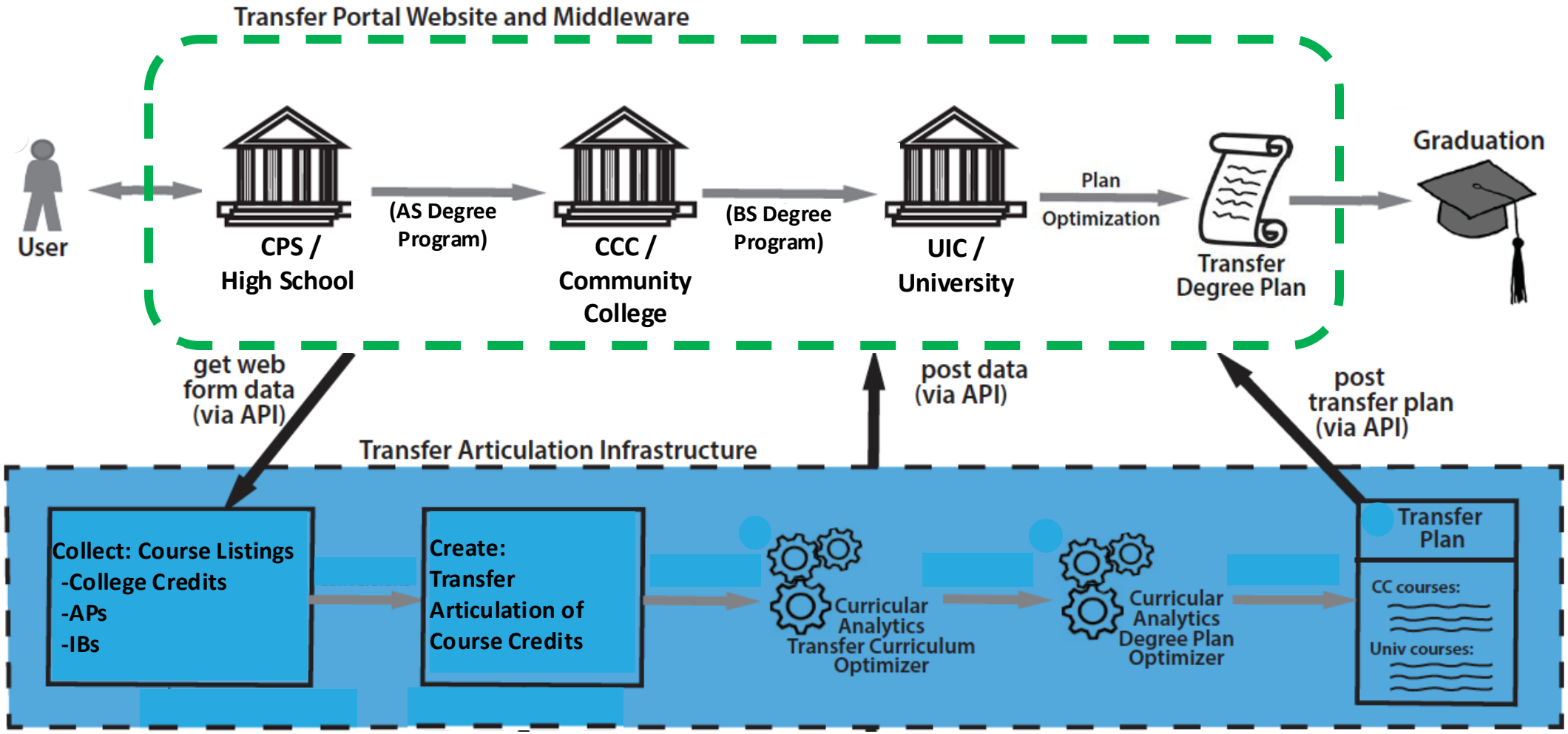
Chicago Roadmap 2.0: CPS → CCC → UIC

Curricular Analytics Collaboration

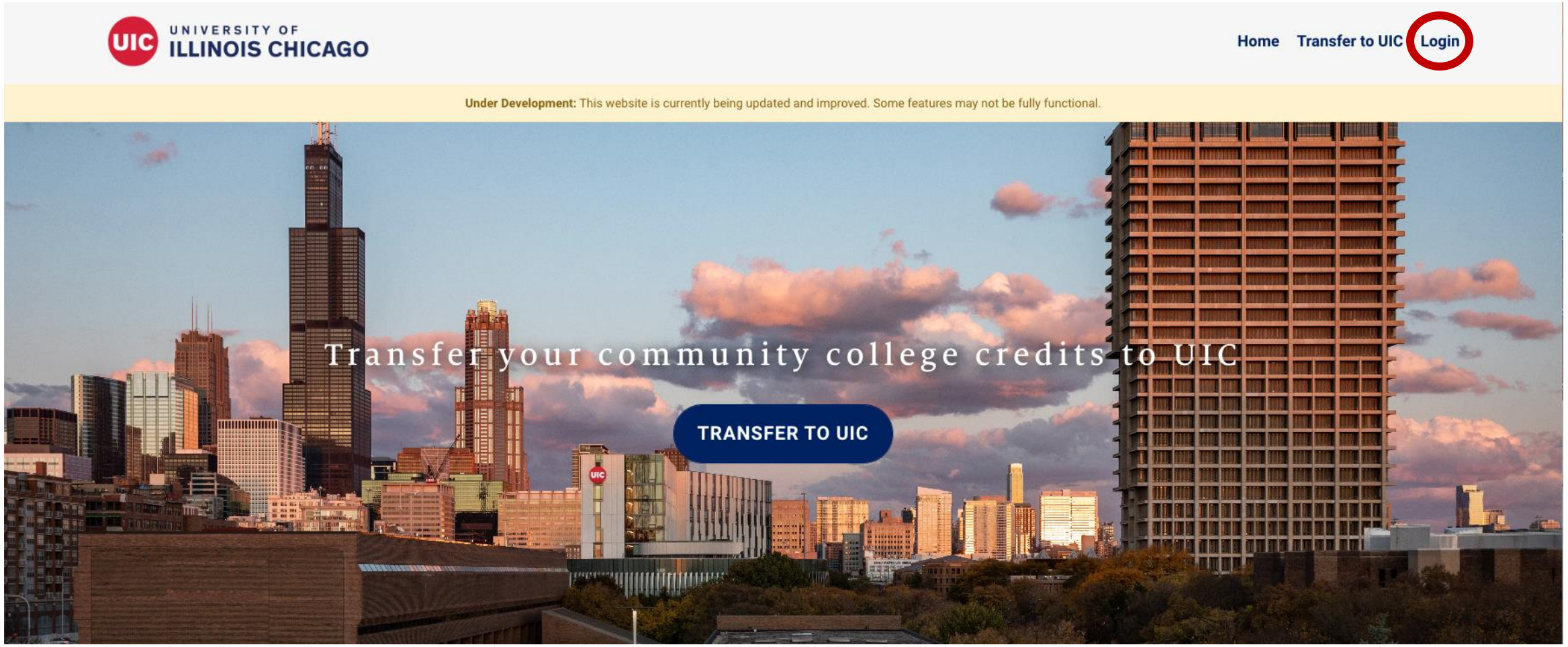
Dynamic Term-by-Term Degree Plans

Expanded Access through Interactive Portal

Portal Prototype: Functional Description



Degree Planning Portal: Prototype



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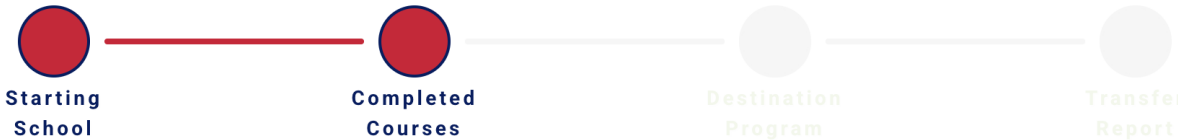

City Colleges of Chicago → University of Illinois Chicago

2. Select courses completed at City Colleges of Chicago:

Completed Course

- CIS 242 ✕ Remove
- ENGLISH 101 ✕ Remove
- ENGLISH 102 ✕ Remove
- HISTORY 142 ✕ Remove
- MATH 207 ✕ Remove
- PSYCH 201 ✕ Remove
- SOC 201 ✕ Remove

Back Next

UNIVERSITY OF ILLINOIS CHICAGO

Home Transfer to UIC Login

SITE OFFLINE: This website is currently being updated. Some features are not fully functional.

4. Select destination program at UIC:

Computer Science

Selected Program: Computer Science

Back Generate Transfer Report

UNIVERSITY OF ILLINOIS CHICAGO

ANALYZE TRANSFER PLAN

Plan

Term 1

- MATH 181 - Calculus II
- CS 141 - Program Design II
- CS 151 - Foundations of Computing
- Understanding The Creative Arts
- Humanities/Social Sciences/Art Elective

Transfer Plan Summary Report

Transfer Analysis: City Colleges of Chicago → University of Illinois Chicago Computer Science Program

Credit Summary

City Colleges of Chicago credits	23 credits have been earned at City Colleges of Chicago
Transfer credits	23 credit hours transfer
University of Illinois Chicago credits	107 additional credits for a 128 credit hour program

The following courses have been taken at City Colleges of Chicago:

Total credit hours = 23

COURSE AT THE CITY COLLEGES OF CHICAGO	CREDITS AT THE CITY COLLEGES OF CHICAGO	TRANSFER STATUS
CIS 242 C++ Object Oriented Programming II	3	Transferrable
ENGLISH 101 Composition	3	Transferrable
ENGLISH 102 Composition	3	Transferrable
HISTORY 142 Hist World Civiliz Frm 1500	3	Transferrable
MATH 207 Calculus & Analytic Geometry I	5	Transferrable
PSYCH 201 General Psychology	3	Transferrable
SOC 201 Intro To the Study Of Society	3	Transferrable

The above courses transfer to University of Illinois Chicago as follows, satisfying the following degree requirements in the Computer Science program:

Total credit hours = 23

COURSE AT THE CITY COLLEGES OF CHICAGO	COURSE AT THE UNIVERSITY OF ILLINOIS CHICAGO	CREDITS AT THE UNIVERSITY OF ILLINOIS CHICAGO	SATISFIED REQUIREMENTS AT THE UNIVERSITY OF ILLINOIS CHICAGO
CIS 242	CS 111 Program Design I	3	CS 111
ENGLISH 101	ENGL 160 Academic Writing I	3	University Writing Courses
ENGLISH 102	ENGL 161 Academic Writing II	3	University Writing Courses
HISTORY 142	HIST 101 Western Civ Since 1648	3	Understanding the Past
MATH 207	MATH 180 Calculus I	4	Mathematics Courses
PSYCH 201	PSCH 100 Introductory Psychology	4	Understanding the Individual and Society
SOC 201	SOC 100 Introduction to Sociology	3	Understanding U.S. Society

These additional courses satisfy the requirements to complete the Computer Science program at University of Illinois Chicago. Please note that for many requirements these courses are one of many possible selections. Refer to the Undergraduate Catalog for a comprehensive list of degree requirements and course offerings.

Total credit hours = 107

COURSE AT THE UNIVERSITY OF ILLINOIS CHICAGO	CREDITS AT THE UNIVERSITY OF ILLINOIS CHICAGO	SATISFIED REQUIREMENTS AT THE UNIVERSITY OF ILLINOIS CHICAGO
AH 100 Intro to Art &Art History	3	Understanding the Creative Arts
CS 141 Program Design II	3	Courses Required in The College of Engineering
CS 151 Foundations of Computing	3	Courses Required in The College of Engineering
CS 211 Programming Practicum	3	Courses Required in The College of Engineering
CS 251 Data Structures	4	Courses Required in The College of Engineering
CS 261 Machine Organization	4	Courses Required in The College of Engineering
CS 277 Technical Comm in Comp Sci	3	Courses Required in The College of Engineering
CS 301 Languages and Automata	3	Courses Required in The College of Engineering
CS 341 Programming Language Concepts	3	Courses Required in The College of Engineering
CS 342 Software Design	3	Courses Required in The College of Engineering
Technical Electives	3	Technical Electives
CS 361 Systems Programming	4	Courses Required in The College of Engineering
CS 362 Computer Design	4	Courses Required in The College of Engineering
CS 377 Ethical Issues in Computing	3	Courses Required in The College of Engineering
Technical Electives	3	Technical Electives
CS 401 Computer Algorithms I	3	Courses Required in The College of Engineering
Technical Electives	3	Technical Electives
Technical Electives	3	Technical Electives
Technical Electives	3	Technical Electives
Science Electives	4	Science Electives
Science Electives	4	Science Electives
GLAS 100 Intro to Global Asian Studies	3	Exploring World Cultures
Humanities/Social Sciences/Art Electives	3	Humanities/Social Sciences/Art Electives
Free Electives	1	Free Electives
Free Electives	4	Free Electives
Free Electives	5	Free Electives
MATH 181 Calculus II	4	Mathematics Courses
MATH 210 Calculus III	3	Mathematics Courses
MATH 220 Differential Equations I	3	Required Math Courses
MATH 310 Applied Linear Algebra	3	Required Math Courses
Humanities/Social Sciences/Art Electives	3	Humanities/Social Sciences/Art Electives
STAT 381 Applied Statistical Methods I	3	IE 342 or STAT 381
Technical Electives	3	Technical Electives

ANALYZE TRANSFER PLAN

Plan | Grid

Term 1

- MATH 181 - Calculus II
- CS 141 - Program Design II
- CS 151 - Foundations of Computing
- Understanding The Creative Arts
- Humanities/Social Sciences/Art Elective

Term 2

- MATH 210 - Calculus III
- CS 211 - Programming Practicum
- CS 251 - Data Structures
- CS 261 - Machine Organization
- Science Elective

Term 3

- Required Math Courses
- CS 277 - Technical Comm in Comp Sci
- CS 301 - Languages and Automata
- Technical Elective
- Free Elective
- Free Elective

Term 4

- Required Math Courses
- CS 377 - Ethical Issues in Computing
- IE 342 Or STAT 381
- Science Elective
- Technical Elective
- Exploring World Cultures

Term 5

- CS 341 - Programming Language Concepts
- CS 342 - Software Design
- CS 401 - Computer Algorithms I
- Technical Elective
- Technical Elective
- Humanities/Social Sciences/Art Elective

Term 6

- CS 361 - Systems Programming
- CS 362 - Computer Design
- Technical Elective
- Technical Elective
- Free Elective

ANALYZE TRANSFER PLAN

Plan | Grid | Graph

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
MATH 181 Calculus II 4Credits	**MATH 210** Calculus III 3Credits	Required Math Courses 3Credits	Required Math Courses 3Credits	**CS 341** Programming Language Concepts 3Credits	**CS 361** Systems Programming 4Credits
CS 141 Program Design II 3Credits	**CS 211** Programming Practicum 3Credits	**CS 277** Technical Comm in Comp Sci 3Credits	**CS 377** Ethical Issues in Computing 3Credits	**CS 342** Software Design 3Credits	**CS 362** Computer Design 4Credits
CS 151 Foundations of Computing 3Credits	**CS 251** Data Structures 4Credits	**CS 301** Languages and Automata 3Credits	IE 342 Or STAT 381 3Credits	**CS 401** Computer Algorithms I 3Credits	Technical Elective 3Credits
Understanding The Creative Arts 3Credits	**CS 261** Machine Organization 4Credits	Technical Elective 3Credits	Science Elective 4Credits	Technical Elective 3Credits	Technical Elective 3Credits
Humanities/Social Sciences/Art Elective 3Credits	Science Elective 4Credits	Free Elective 5Credits	Technical Elective 3Credits	Technical Elective 3Credits	Free Elective 4Credits
16 Credits	18 Credits	Free Elective 1Credits	Exploring World Cultures 3Credits	Humanities/Social Sciences/Art Elective 3Credits	18 Credits
		18 Credits	19 Credits	18 Credits	

Back

ANALYZE TRANSFER PLAN

Plan | Grid | Graph

NOTE: An arrow represents a corequisite/prerequisite relationship between courses within a degree plan. See legend for more details.

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Takeaways

- Create statewide seamless transfer pathways linked to careers
- Curricular Analytics framework can strengthen curricula planning and advance equitable outcomes
- Engage departments and faculty to assess curriculum effectiveness
- Develop dynamic, personalized transfer degree plans using technological innovations
- Facilitate collaborative advising between 2-year and 4-year institutions
- Create opportunities for transfer students to engage in research early
- Develop student success initiatives to support transfer students and foster a sense of belonging

Thank You!

For More Information

- Upcoming UERU Town Hall on the UIC Transfer Portal in Action (Thursday, October 30, 2:00pm ET)
  - Learn more and register:

- Chicago Roadmap 2.0